Creation and validation of a Proteome-wide yeast library for protein detection and analysis

Din Baruch[1], Ioannis Tsirkas[2], Ehud Sass[1], Benjamin Dubreuil[1], Yeynit Asraf[1], Amir Aharoni[2], Maya Schuldiner[1,*], Ofir Klein[1,*]

[1]Department of Molecular Genetics, Weizmann Institute of Science, Rehovot 7610001, Israel
[2]Department of Life Sciences and the National Institute for Biotechnology in the Negev, Ben-Gurion University of the Negev, Be'er Sheva, Israel

[*]Authors for correspondence: ofir.klein@weizmann.ac.il; maya.schuldiner@weizmann.ac.il

Abstract

A significant challenge in cell biology is to uncover the function of uncharacterized proteins. Surprisingly a quarter of the proteome is still poorly understood even in the most well studied model organisms. Systematic methodologies, including the use of tagged protein collections, have emerged as a powerful approach to address this gap. Despite the availability of proteome-wide collections featuring various fused proteins, the impact of different tags on protein function highlights the need for diversifying the tags used for functional genomic studies. To rise to this challenge, we created a proteome-wide collection of yeast strains in which proteins are N-terminally tagged with the broadly utilized and compact Hemagglutinin (HA) epitope. We showcase the potential uses of our library for systematically evaluating protein size, abundance and localization using an *in vivo* labeling approach. Our characterization underscores the potential utility of a proteome-wide HA-tagged library in revealing novel aspects of cell biology, providing an additional powerful tool for functional genomics.

Introduction

In the post-genomic era, a paramount challenge still lies in mapping the functions of all uncharacterized proteins (Rocha et al., 2023). Despite the fact that both the yeast and human genomes were sequenced decades ago (Goffeau et al., 1996; International Human Genome Sequencing Consortium, 2004), there are still thousands of proteins, constituting up to a

quarter of the proteome, with unknown or poorly understood functions (Cohen et al., 2022; Eisenhaber, 2012; Peña-Castillo and Hughes, 2007; Rocha et al., 2023; Wood et al., 2019). Uncovering the function of uncharacterized proteins can be approached either one protein at a time or through systematic, high-throughput strategies, collectively termed functional genomics. Among the various systematic methodologies, pull-down assays for interactor mapping, and localization studies are commonly employed. These methods often rely on the introduction of a single common epitope/s by fusion of each protein to genetically encoded tags.

An established tool allowing for the simultaneous study of thousands of proteins is the use of libraries – collections of strains in which each gene is genetically manipulated in a similar manner. In tagged libraries, each protein is genetically fused to a tag of interest, one protein at a time. While systematic libraries have been created for several organisms (for example: (Bischof et al., 2013; Cho et al., 2022)) the most utilized eukaryotic model organism in library creation is the baker's yeast *Saccharomyces cerevisiae* (yeast from now on). Yeast is a popular and well-studied model organism for functional genomics due to the availability of extensive genetic and genomic tools, and since approximately two-thirds of its proteome is conserved to humans (Cohen et al., 2022).

Many yeast libraries have been created with different tags, including fluorescent proteins (FPs) (for example: (Huh et al., 2003; Meurer et al., 2018; Weill et al., 2018)) and affinity purification tags (such as the Tandem Affinity Purification tag (Ghaemmaghami et al., 2003)). The vast majority of the libraries rely on big tags (15-30 kDa), which raise a concern as to their affect on protein folding, complex assembly, stability, targeting and function (Beatty and López, 2023; Terpe, 2003; Zhao et al., 2013).

Several small and unstructured tags have been engineered. A particularly useful one is the Hemagglutinin (HA) tag, just nine amino acids in length. The HA tag is not only effective, like other small tags, for immunoprecipitation (IP) studies, but was also recently used for *in vivo* visualization in combination with a newly developed genetically encoded single-chain fragment variable (scFv) fused to a FP (Murakawa et al., 2022; Tsirkas et al., 2022; Zhao et al., 2019). Recognizing these advantages of the HA tag, we created a proteome-wide yeast library where

each protein is N-terminally (N') tagged with HA. For library creation, we utilized the SWAp-Tag (SWAT) strategy which revolutionized the speed and capacity to create new yeast libraries (Meurer et al., 2018, 2018; Weill et al., 2018; Yofe et al., 2016). We demonstrate the HA collection efficacy in functionally diverse applications including the analysis of protein size, abundance and localization, highlighting the beneficial effect of the HA tag in comparison to the green fluorescent protein (GFP) tag on native protein localization for a subgroup of proteins. Overall, our efforts provide the yeast community with a new and powerful tool for functional genomics, that will be freely distributed.

Results:

Creation and Validation of an N'-HA Tagged Library

Until now, yeast proteome-wide collections that were constructed for protein visualization (Huh et al., 2003; Meurer et al., 2018; Weill et al., 2018) or purification (Ghaemmaghami et al., 2003) relied mostly mostly on large tags such as GFP, mCherry, mScarlet-I, mNeonGreen and TAP (Tandem Affinity Purification), respectively. These tags, while effective, are large and often well-structured. Previously, we have created a yeast strain collection addressing this issue, where each protein is tagged at the C terminus with a Myc-HRV-3xFlag cassette, summing up to a tag of 5.2 kDa (2.7 kDa post HRV cleavage) (Reinhard et al., 2024). This library holds the benefit of having each gene under its endogenous promoter yet the C' tag may interfere with C' targeting sequences, post translational modifications on the C' and it also disrupts the native terminator. Thus, we set out to complement this with the creation of a proteome-wide N' HA-tagged yeast library. To further diversify the tools available for functional genomics, we chose to use the HA tag. Like the myc and Flag tags, the HA is a small tag that has been widely used and is suitable for many applications (Brizzard, 2008; Zhao et al., 2013). Yet, the HA tag is less charged (-2, pH7) than the myc and flag tags (-3, pH7 each) and thus reduces the charge effect of the tagged protein.

To create the library we used the SWAT strategy which employs an acceptor library with an interchangeable cassette that can be replaced with a tag of choice by homologous recombination to rapidly and efficiently generate new yeast libraries (Yofe et al., 2016) (Figure 1a). The resulting library comprises of a systematic collection of proteins N' fused to a 3xHA epitope tag, positioned under the control of the strong and constitutive *TEF1* promoter and a nourseothricin (Nat) resistance cassette, in *MATa* mating type, ensuring compatibility for downstream applications (Figure 1a).

In line with previous SWAT-based generated libraries (Weill et al., 2018) we had a very high efficiency of the process with 89.5% of yeast strains from the original library surviving the procedure (Figure 1b, supplementary table S1). Moreover, 94.5% of the 55 sampled strains exhibited successful integration of the HA tag, as confirmed by PCR analysis (Figure 1c and supplementary table 2). The accuracy of in-frame integration was further assessed by SDS-PAGE, revealing that 90% of the 30 randomly selected soluble proteins were detected at the expected molecular weight of the fusion protein (Figure 1d and supplementary figure 1). Furthermore, all 36 colonies tested for the loss of GFP signal from the original acceptor cassette, had indeed lost it. Altogether, we approximate that out of 5571 yeast strains present in the original SWAT library, a minimum of 4486 strains are *bona fide* HA-tagged proteins in our collection. This high coverage underscores the effectiveness of the SWAT procedure as a method to create novel libraries. More importantly, it makes our N' HA-tagged library a powerful tool for systematic, proteome-wide, functional genomic studies. This library can provide a reliable resource for downstream systematic applications such as tracking protein size, abundance and localization, enabling comprehensive analysis across various experimental conditions.

Rapid examination of post-translational modifications using the N' HA-tagged strains

To demonstrate the usability of the new library for western blot analysis, we chose to examine the glycosylation state of ten known glycosylated proteins using PNGase digestion for glycan removal. This analysis is based on the addition of the PNGase enzyme to the lysate resulting in the enzymatic digestion of the glycan tree and reduction of the proteins molecular weight, easily visualized by SDS-PAGE gel. The power of our collection is that instead of requiring an

antibody for each detected protein, it is possible to assay multiple proteins at once using a single, broadly used anti-HA, antibody. To showcase the ease of use we chose the proteins to be of various molecular weights (Cao et al., 2014; Yeo et al., 2016; Zielinska et al., 2012) (Figure 2). Six out of the 10 showed a clear molecular weight change after PNGase treatment (Npp1, Sga1, Fmn1, Vel1, Cwp1, Ynl194c). Out of the 4 undetected proteins, 3 did not have a clear band: Pma2, Ecm30 and Sag1. Pma2 is a multi-pass membrane protein with 9-10 predicted transmembrane domains (Weill et al., 2019) and Ecm30 is a high-molecular weight protein of 150 kDa, and therefore are difficult to resolve under the same conditions as the other proteins. Sag1 is an alpha-agglutinin, and therefore while it is expressed in the HA library under a constitutive promoter, it is likely to be unstable in the opposite mating type. Lastly, Nce102 presented a similar band pattern with and without PNGase treatment at a molecular weight calculated for the unmodified protein. Hence, we might not have assayed this protein under conditions where it is in its glycosylated form.

Regardless, our assay demonstrates how the HA-tagged library facilitates rapid and systematic analysis of post-translational modifications across a diverse set of proteins, enabling insights into glycosylation and other modifications. In a broader sense, these results highlight how the availability of a full proteome library of HA tagged proteins enables rapid size analysis for a selected set of proteins.

Systematic Quantification of Protein Abundance Using N'-HA Strains

To demonstrate the versatility of the N'-HA library in systematic assays of the amount of proteins in cells (which we denote as protein abundance although not necessarily the native amount), we quantified protein levels. Since all proteins are under the same. constitutive *TEF1* promoter, which is one of the strongest promoters in yeast (Partow et al., 2010; Sun et al., 2012) and drives an expression that is stronger than all native promoters of tested proteins (Weill et al., 2018) our analysis identifies variations that are independent of promoter activity but rather influenced by factors such as RNA stability and protein degradation rates.

For this analysis we chose a set of proteins selected for their varying expression levels in the *Nop1*-GFP library (Weill et al., 2018) despite being regulated by the same, constitutive, promoter.

To measure their abundance, we utilized high-throughput quantitative dot blotting (Figure 3a,b). Calibrating the signal to the total amount of extracted proteins our analysis revealed clear differences in the abundance of the selected proteins, indicating that the N' HA-tagged library enables effective detection of variations in protein levels (Figure 3c). These results highlight the N'-HA library potential for reproducible and quantitative systematic assays for the analysis of cellular protein expression.

Utilization of a Genetically Encoded Affinity Assay for Visualizing Protein Localization

While FP tag size and structure may influence protein structure and function, smaller tags usually do not enable *in vivo* visualization. To combine the advantages of a small tag with the capacity to visualize protein localization systematically, we utilized a system for monitoring the localization of the N' HA-tagged proteins in live cells. To this end, we mated the HA library with a strain expressing a single-chain variable fragment that specifically binds the HA tag ($scFv_{HA}$) fused to a fluorescent protein (Tsirkas et al., 2022; Zhao et al., 2019) . The $scFv_{HA}$ was fused to a yeast-codon optimized yomScarlet-I3 fluorescent protein, which is a bright and rapidly maturing protein (Gadella et al., 2023). The scFv was expressed under the control of the inducible Z3 promoter on the background of its controlling Z3 transcription factor (Z3TF) (McIsaac et al., 2013; Ohira et al., 2017) in a BY4742 (Mat α) strain (Figure 4a). Upon addition of β-estradiol to the media, the Z3TF binds to the Z3 promoter, and induces the expression of $scFv_{HA}$-yomScarlet-I3 (from here on $scFv_{HA}$-Scarlet), thereby enabling the visualization of HA-tagged proteins. Having an inducible expression system allows the N' HA proteins to fold, assemble and function whilst only having the small tag, but be visualized, on demand, as the scFv is expressed.

Since the $scFV_{HA}$-Scarlet is expressed in the cytosol it is not possible to use it to visualize cytosolic proteins nor proteins sequestered inside organelle lumens. However, membranal proteins whose N-terminus is facing the cytosol will bind the fluorophore to the surface of their

respective organelles of residence, resulting in a localized fluorescent signal specific to the resident organelle (Figure 4b).

To calibrate the optimal conditions for induction of the $scFv_{HA}$-Scarlet, we measured its expression in the presence of different β-estradiol concentrations (0, 50, 100, and 1000 nM) at different times and chose 100nM at a time range of 3-4 hours for further analysis to allow Scarlet signal detection but prevent saturating (Supplementary figure S2a and b). To validate these conditions, we manually picked from the library strains with N'-HA proteins from different cellular compartments with known topologies of N-termini facing the cytosol [Alg7 (endoplasmic reticulum (ER)), Gem1 (mitochondria), Pst2 (cell periphery), Tpd3 (cytosol), Zrc1 (vacuole)], and mated them with the $scFv_{HA}$-Scarlet strain. We then imaged these strains at 150 and 180 minutes after addition of 100nM beta-estradiol, validating their visualization at the expected organelle (Supplementary figure S2c).

Using these optimized conditions, we then mated the entire HA library with the $scFv_{HA}$-Scarlet strain and screened the diploid library for labeled proteins that exhibited organelle-specific signals. These proteins were compared to the *NOP1*-GFP library to identify any proteins whose localization may be better visualized by our system (Figure 4c, Supplementary table S3). We focused on strains that displayed organelle-specific localization in our HA library and removed proteins with signal peptides (SP) and mitochondrial targeting sequences (MTS) since they would reside in the lumen/matrix of organelles clearly not compatible with our system. Our findings indicate that 65.7% of GFP-tagged proteins in the ER showed a similar signal when tagged with HA. Additionally, 56% of proteins in the cell periphery, 62.4% of mitochondrial proteins and 54.9% of vacuolar ones had similar localization with both tagging systems. Interestingly, over 6% of the localizations observed in the HA library were novel, suggesting unique advantages of the HA library under specific conditions compared to the GFP library. This observation was manually validated by comparing strains showing new localizations in the HA library with those in the *NOP1*-GFP library. For example, Scs22, Om14, and Cps1 exhibited unique organelle-specific localization in the HA library. Scs22 is a well characterized contact site protein, homologous to the mammalian VAP proteins, which is anchored to the ER membrane via a C' transmembrane tail anchor (Manford et al., 2012). Om14 is a validated mitochondrial

outer membrane protein (Burri et al., 2006) that could not be visualized using an N' GFP tag but is now clearly visualized in mitochondria with the HA epitope (Figure 4d and e). Cps1 is a vacuolar carboxy peptidase with an N' transmembrane domain that is first targeted to the ER membrane and then transported to the vacuolar membrane. The C' of Cps1 faces the lumen, where it is cleaved, releasing the catalytic subunit of the protein from the membrane to the vacuole lumen (Spormann et al., 1992). In the HA library, we found that the Scarlet signal of Cps1 is clearly marking the vacuolar membrane, while in the *NOP1*-GFP strain, the GFP signal localizes to the vacuolar lumen, indicating that the smaller HA tag allows for a more accurate depiction of Cps1's localization (Figure 4d and e). These results underscore the benefits of using the HA tag as an additional exploratory system.

Building on the success of the $scFv_{HA}$ system, we developed additional tools as expansion of the scFv anti-HA toolkit. For co-localization studies, we generated yeast strains that can be crossed with the HA library, harboring either a vacuolar marker (Vph1-NG) or an ER marker (Sec61-NG) along with the $scFv_{HA}$-yomScarlet-I3 system (Supplementary figure S3a). In addition, we created two strains where the $scFv_{HA}$ if fused to either the photoconvertible monomeric EOS3.1 (mEOS3.1) (Zhang et al., 2012), or the photo-switchable fast-forming Dronpa (ffDronpa) (Moeyaert et al., 2014) proteins (Supplementary figures S3b and c). mEOS.1 is translated as a green fluorescence-emitting protein, and its emission can be converted to red via illumination with a 405nm laser. ffDronpa is also translated as a green fluorescence-emitting protein, and is bleached when excited, thus after imaging, existing ffDronpa lose their fluorescence (switched off) whereas new ones are bright. Through illumination with a 405 laser, the switched-off ffDronpa are switched back on and can be imaged again. These advanced fluorescent proteins, which change their fluorescence upon light exposure, allow for temporal and spatial tracking of protein dynamics and can also serve as control for the effect of the $scFv_{HA}$ on protein turnover, significantly improving the versatility and depth of analysis possible with the library toolset.

Discussion

The optimal way to tag a protein is not uniform for all proteins. Depending on their structure, function, localization and other parameters, different proteins may prefer diverse tagging strategies. Therefore, it is important to have a variety of libraries, using different tags representing the spectrum of sizes, charges and structures, to cover the entire proteome in a functional manner. In this study, we developed an N'-HA yeast proteome-wide library, generating the first epitope tag N-terminal library. The small and unstructured HA tag offers significant advantages by reducing the risk of interfering with protein folding, stability, assembly, localization or activity, for many proteins, while still enabling effective detection and functional assays. The utilization of the SWAT strategy allowed the creation of the N' HA-tagged library, with high integration efficiency and proteome-wide coverage.

To demonstrate the versatility of the HA library, we showed its utility in the analysis of protein molecular weight and post-translational modifications rapidly and systematically. We also show the ability to quantify protein abundance enabling the discovery of factors that control protein expression beyond transcriptional regulation. Finally, the visualization of the N-HA protein by the scFv approach enables the *in vivo* characterization of the target proteins at its designated organelle.

While the N' HA-tagged protein bound to $scFv_{HA}$-Scarlet system was effective for visualizing proteins in organelle membranes with cytosolic N-termini, it is not suitable for detecting proteins that are completely cytosolic or with the opposite topology where the N-terminus is inaccessible to the $scFv_{HA}$. Two exceptions for this are proteins targeted to peroxisomes or the nucleus lumen, since their membrane import mechanisms can accommodate larger complexes (Meinecke et al., 2016; Rout and Aitchison, 2001). Indeed, by utilizing the library, we visualized luminal peroxisomal proteins, including Pex8, Pxp1, and Pcs60 and luminal nuclear proteins, such as Net1, Rsc6, and Nop10 in the correct cellular compartments.

Our reliance on a single, constitutive promoter in the HA library does not account for natural promoter-specific expression variability, which could limit its application in studying dynamic gene regulation across different conditions. However, since each library has its benefits and limitations, we foresee that this library will support a niche of assays that will benefit from this

design. For other uses it is possible to use the SWAT approach to efficiently create a “Seamless” library where the HA tag is fused at the N’ but under the natural endogenous promoter and targeting signals (Yofe et al., 2016) or a C’ tagged library (Meurer et al., 2018).

While the HA library can be used to study any protein of choice, it is probably most powerful for studying very small ones where the large FP tag is a dramatic appendage. Recent insights into the role of small open reading frames (sORFs) provides additional dimensions to consider in proteomics research. sORFs, encoding for proteins under 100 amino acids long, are often overlooked due to their size. However, they encode for small peptides that can have critical biological functions, including roles in signaling, stress responses, and translation regulation (Couso and Patraquim, 2017; Kastenmayer et al., 2006). Due to their small size, it is critical minimize the size of appendages fused to them. Therefore, the N’-HA library provides an opportunity to systematically study these small peptides, potentially uncovering new functions or regulatory mechanisms. Upon analysis, 319 out of the 365 sORFs from the original SWAT library were retained in our final library, in line with the measured survival rate (supplementary Table S1).

Overall, our findings highlight the advantages of a proteome-wide N’ HA-tagged yeast library as a valuable tool for functional genomics. The applications demonstrated in this study, such as glycosylation detection, quantification of protein abundance, and *in vivo* visualization of membrane proteins illustrate the breadth of possibilities offered by this comprehensive library. Moving forward, the N'-HA library holds promise for further discoveries in yeast biology and may serve as a model for similar libraries in other organisms.

Materials and methods

Yeast strains and plasmids

All yeast strains used in this study are on the BY4741 laboratory strain (Backer Brachmann et al., 1998) and listed in supplementary table S4. Strains were constructed using the lithium acetate-based transformation protocol (Gietz and Woods, 2002). All plasmids used are listed in

supplementary table S5, primers listed in supplementary table S6 and antibodies listed in supplementary table S7.

Yeast library generation

SWAT library generation was performed as described (Weill et al., 2018). Briefly, a RoToR array pinning robot (Singer Instruments) was used to mate the parental N' tag GFP SWAT library with the required donor strain (Supplementary table S4) and carry out the subsequent sporulation, and selection protocol to generate a haploid library selected for all the desired features. Growth of the library on YPGalactose (2% peptone, 1% yeast extract, 2% galactose) was used to induce SceI-mediated tag swapping, and subsequent growth on SD containing 5-fluoroorotic acid (5-FOA, Formedium) at 1 g/l, and required metabolic and antibiotic selections were used to select for strains, which had successfully undergone the SWAT process. The resulting library resulted in each ORF N terminally tagged with a 3xHA tag (MYPYDVPDYAGYPYDVPDYAGSYPYDVPDYA) followed by the L2 linker (GGSSGGGGATENSS).

Diploid strain generation

The N' HA library was grown on SD supplemented with NAT at 30°C overnight and the $scFv_{Anti\ HA}$-yomScarlet-I3, Z3TF donor strain (Supplementary table S3) was grown on YPD supplemented with geneticin (G418) and Hygromycin B (HYG). Both were replicated onto a YPD plate and grown overnight at room temperature (RT). The mated strains were then replicated onto SD with monosodium glutamate (MSG) plates supplemented with NAT, G418, and HYG and grown overnight at 30°C. This step was repeated once more to select diploid strains containing the combination of desired traits.

Protein extraction and SDS-PAGE for library accuracy validation

5ml of cells at $0.5OD_{600}$ were collected by centrifugation at 3,000 *g* for 3 min, washed with 1 ml of double-distilled water (DDW), resuspended in 200 µl lysis buffer containing 8 M urea, 50 mM Tris pH 7.5, and complete Protease Inhibitors (Merck), and lysed by high-speed bead beater with glass beads (Scientific Industries) at 4°C for 10 min. 25 µl of 20% Sodium Dodecyl Sulfate

(SDS) was added before incubation at 45°C for 15 min. The bottom of the microcentrifuge tubes was then pierced, loaded into 5 ml tubes, and centrifuged at 4,000 *g* for 10 min to separate the lysate from the glass beads. The flow-through collected in the 5 ml tubes was transferred to a fresh 1.5 ml microcentrifuge tube and centrifuged at 20,000 *g* for 5 min. The supernatant was collected, and 4× SDS-free sample buffer (0.25 M Tris pH 6.8, 15% glycerol, and 16% Orange G containing 100 mM DTT) was added to the lysates, and incubated at 45°C for 15 min. Protein samples were then separated by SDS–PAGE using a 12% polyacrylamide gel and then transferred onto a 0.45 µm nitrocellulose membrane (Pall Corporation) using a Trans-Blot Turbo transfer system (Bio-Rad). Membranes were blocked in bovine serum albumin Buffer (BSA) in phosphate-buffered saline (PBS) solution for 30 min at RT, incubated over-night at 4^0c with rabbit anti-Histone H3 (ab1791, 1:5,000; Abcam) and mouse anti-HA (#901502 1:1000, BioLegend) diluted in a 2% wt/vol BSA/PBS solution containing 0.01% NaN3. After washing 3 times in TBST buffer, membranes were then probed with secondary goat anti-rabbit-IRDye680RD antibody (#ab216777; Abcam) and 800CW Goat anti-mouse IgG (#ab216772; Abcam), both diluted 1:10,000 in 3% wt/vol milk/TBST solution for 1 h, at RT. Blots were washed and imaged on the LI-COR Odyssey Infrared Scanner (ODY-2064). Raw blots can be found in supplementary figure 4.

Library efficiency analysis

55 random colonies were assayed by PCR for the correct genomic integration of the HA cassette. Each colony was picked into 50µl of NaOH 20mM and boiled at 100oC for 25 minutes for DNA extraction. Extractions were centrifuged at 3200rcf for 5 minutes and 2 µl were used for PCR analysis. PCR was done using GoTaq Green Master Mix (#M712B, Promega) and primers listed as in supplementary table 6.

Library coverage analysis

Images of agar plates of the N' HA library were taken by a Canon digital camera. The images were subsequently processed by SGAtools v2.3 (Wagih et al., 2013), to measure the size and shape of each colony and established a minimum size threshold for inclusion as a valid colony.

Post-Translational Modification Analysis

Yeast strains were grown overnight in YPD media containing NAT at 30°C. The following day, the strains were back diluted to an OD_{600}= 0.2 and grown at 30°C for 4 h. Next, 2.5 OD_{600} of yeast cells were harvested, washed once in DDW, resuspended in 0.1 M NaOH, and incubated for 5 minutes at RT. The cells were then centrifuged at 3000 *g* for 3 minutes. The pellets were subsequently assayed for glycosylation by PNGase-F kit (New England Biolabs, P0704S) according to the manufacturer's protocol and resolved by SDS-PAGE. Raw blots can be found in supplementary figure 4.

High Throughputs Quantitative dot-blot

Protein extraction: Yeast strain colonies were inoculated into a 1 ml polypropylene 96 deep-well plate, filled with 400 µl of YPD medium supplemented with 200 µg/ml of NAT as a selective agent. After inoculation, the plate was sealed with a breathable cover (AeraSeal BS-25, Excel scientific) and placed in a shaker incubator set to 30°C with shaking at 650 rpm for overnight growth. The following day the 96-well plate was spun down using a swing-out rotor (Eppendorf model 5810R) at 3000 *g* for 5 minutes. The resulting pellets (roughly two OD per sample) were washed once with TE buffer and stored at -20 °C until further use. Subsequently, samples were resuspended in 220 µl of Protein Extraction Buffer (8M Urea, Tris-HCl pH 7.5). To break open the yeast cell wall, another 1 ml, deep 96-well plate was customized by drilling a 1 mm diameter hole at each of its well's bottom. Then, the punctured wells were carefully sealed with an aluminum sticker (PCR-AS-200, Axigen) before being filled with ~100 µl of acid-washed glass beads (Merck cat. G8772) and 100 µl of Urea-suspended samples. Next, the wells were sealed with a second aluminum sticker, and the plate was mounted on a vortex with a flat adapter (Scientific Industries, Part No.504-0235-00) and vortexed for 15 minutes at maximum vibration frequency (3220 rpm) in a cold room. Then the bottom aluminum sticker was peeled off just before securing it atop a new 96-well, fully skirted PCR plate with adhesive tape. The tandem plates were spun at 800 *g* for 3 minutes using a swing-out centrifuge to transfer the extracted sample into the lower PCR plate. A new PCR plate was set up for the final preparation by adding 15 µl of 4x Laemmli buffer (supplemented with DTT) to each well. Then, 45 µl of the extracted

samples were transferred to this plate, mixed by pipetting with the Laemmli buffer, sealed with a PCR sticker, and heated to 95 °C for 10 minutes.

Dot-Blotting: For dot blotting, a nitrocellulose membrane, soaked in protein transfer buffer (Bio Prep, TB192), was placed on a sheet of Whatman blotting paper (No.3) laid atop the bottom part of the Dot-blotter manifold. After soaking, the manifold's upper part was assembled and secured with clips. Then 35 µl of each sample was loaded into its designated position in the manifold using a multichannel pipette while the manifold was connected to a vacuum suction. The dotted membrane was then subjected to a Trans-Blot Turbo transfer system (Bio-Rad) to immobilize the protein samples, with a transfer program set to run for 7 minutes at 2.5A. Following immobilization, primary (anti-HA, Roche, 11867423001) and secondary (IRDye 800CW Goat anti-rat, Li-Cor, 92632219) antibodies were applied according to standard Western blotting protocols.

Image acquisition: The near-infrared fluorescence signals of the HA-tagged proteins were acquired from the dot-blot membrane using an Odyssey infrared imaging system (ODY-2064, Li-Cor Biosciences). The signal intensity was normalized by BCA-protein quantification assay (Thermo scientific, 23225). Image captured through Odyssey software (v3.0.21) with standardized scanning parameters, including a 169 µm resolution and intensity settings 5.0 for the 800 nm channel. The images were then exported in TIFF format to preserve the original pixel intensity values for subsequent analysis.

Signal enhancement: Prior to quantification, we systematically followed a quality control workflow to ensure robust and reproducible measurements. Dot-blot images were individually inspected for potential technical artifacts or poor signal quality that might compromise accurate quantification. Notwithstanding our high-quality imaging, we still implemented a two-step background correction in ImageJ/Fiji (v1.54f) to account for slightly uneven illumination: (a) a noise reduction using a Gaussian blur filter (σ = 2 pixels) and (b) a local background

estimation of the blurred image using the rolling-ball algorithm (radius = 35 pixels) which was subsequently subtracted from the original image.

Signal quantification: Our custom Python software (ht-qdotblot) enables semi-automated quantification of signal intensity across the 96-well format. The software implements a grid-based quantification approach, where users initially register three reference points corresponding to the centers of the plate corners (wells A1, A12, and H1). The software then automatically overlays a virtual grid that can be fine-tuned through adjustments of well radius, spacing, and positioning. A grid-based approach allows for the selection of consistent region-of-interest across multiple images and experimental conditions. For each well, the software returns multiple intensity-based measurements, including median, mean, standard deviation, mode, and minimum/maximum value. The data can be exported in CSV format for further analysis and visualization. Our GitHub repository contains the software source code and provides a guided tutorial for installation and usage on an example image (https://github.com/benjamin-elusers/HT-qDotblot).

Sample normalization and statistical analysis: To account for technical variations in protein loading and transfer efficiency, we employed a normalization strategy. Total protein content was quantified using the BCA assay (thermoscientific, Cat#23225), providing a normalization factor related to actual protein concentration in each well. Furthermore, we subtracted from the normalized median intensity signals, the background values of two internal controls (buffer-only and untagged yeast). The final sample integrated intensities were calculated as the mean of background-subtracted normalized median intensities across replicates, which were scattered on the plate to avoid any spatial bias in the quantification. For the 32 samples, we report the individual integrated intensities along with their mean ± SEM from three independent replicates. Statistical significance was calculated by the Wilcoxon rank-sum test.

Confocal microscopy

For high-throughput screening of the full library, cells were moved from agar plates into liquid

384-well plates using the RoToR bench-top colony arrayer (Singer Instruments). Liquid cultures were grown overnight in synthetic medium with 2% glucose (SD) in a shaking incubator (LiCONiC Instruments) at 30°C. A Tecan freedom EVO liquid handler (Tecan), which is connected to the incubator, was used to back-dilute the strains to ~ 0.25 OD_{600} in plates containing SD with 100nM β-estradiol. Plates were then transferred back to the incubator and were allowed to grow for 4 h at 30°C to reach logarithmic growth phase. The liquid handler was then used to transfer strains into glass-bottom 384-well microscope plates (Azenta Life Sciences) coated with 0.25 mg/ml Concanavalin A (Sigma-Aldrich) to allow cell adhesion. Wells were washed twice in SD to remove floating cells and reach a cell monolayer. Plates were then automatically moved by a KX-2 robotic arm (Peak Robotics) into an automated inverted spinning disk microscope system (Olympus) and imaged using a 60x air lens (UPlanFLN, NA 0.9).

For all other microscopy-based figures, images were obtained using an automated inverted fluorescence microscope system (Olympus) containing a spinning disk high-resolution module (Yokogawa CSU-W1 SoRa confocal scanner with double micro lenses and 50 µm pinholes). Several planes were recorded using a 60x oil lens (NA 1.42) and with a Hamamatsu ORCA-Flash 4.0 camera. Fluorophores were excited by a laser and images were recorded in three channels: GFP (excitation wavelength 488 nm, emission filter 525/50 nm), mCherry / mScarlet / FM™4-64 (excitation wavelength 561 nm, emission filter 617/73 nm) and MitoView™405 (excitation wavelength 405 nm, emission filter 447/60). Image acquisition was performed using scanR Olympus soft imaging solutions version 3.2. and fluorescence quantification was performed using scanR analysis 3.2. Images were transferred to ImageJ, for slight contrast and brightness adjustments to each individual panel. Images were manually inspected using Fiji-ImageJ software (Schindelin et al., 2012).

Acknowledgments

We thank Rosario Valenti and Olga Beresh for critical reading of the manuscript and helpful suggestions. We thank prof. Michael Toledano for the idea to create this library. We thank Dr. Yoav Peleg for help with plasmid generation.

This work was supported by a Chan Zuckerberg Initiative (CZI) grant (2023-331952) and by the European Union ERC CoG (OnTarget 864068) as well as by the Institute for Environmental Sustainability (IES) at the Weizmann Institute of Science. The robotic system in the Schuldiner lab was purchased through the kind support of the Blythe Brenden-Mann Foundation. MS is Incumbent of the Dr. Gilbert Omenn and Martha Darling Professorial Chair in Molecular Genetics.

Author Contributions

Conceptualization: DB, OK, IT, AA, MS, ES, BD

Data curation: DB

Formal analysis: DB, OK, YA

Funding acquisition: MS, AA

Investigation: DB, OK

Methodology: ES, BD, IT

Software: BD

Supervision: OK, AA, MS

Visualization: DB

Writing – original draft: DB, OK, MS

Writing – review & editing: All authors

Bibliography

Baker Brachmann, C., Davies, A., Cost, G.J., Caputo, E., Li, J., Hieter, P., Boeke, J.D., 1998. Designer deletion strains derived from Saccharomyces cerevisiae S288C: A useful set of strains and plasmids for PCR-mediated gene disruption and other applications. Yeast 14, 115–132. https://doi.org/10.1002/(SICI)1097-0061(19980130)14:2<115::AID-YEA204>3.0.CO;2-2

Beatty, K.E., López, C.S., 2023. Characteristics of genetic tags for correlative light and electron microscopy. Curr. Opin. Chem. Biol. 76, 102369. https://doi.org/10.1016/j.cbpa.2023.102369

Bischof, J., Björklund, M., Furger, E., Schertel, C., Taipale, J., Basler, K., 2013. A versatile platform for creating a comprehensive UAS-ORFeome library in *Drosophila*. Development 140, 2434–2442. https://doi.org/10.1242/dev.088757

Brizzard, B., 2008. Epitope Tagging. BioTechniques 44, 693–695. https://doi.org/10.2144/000112841

Burri, L., Vascotto, K., Gentle, I.E., Chan, N.C., Beilharz, T., Stapleton, D.I., Ramage, L., Lithgow, T., 2006. Integral membrane proteins in the mitochondrial outer membrane of Saccharomyces cerevisiae. FEBS J. 273, 1507–1515. https://doi.org/10.1111/j.1742-4658.2006.05171.x

Cao, L., Yu, L., Guo, Z., Shen, A., Guo, Y., Liang, X., 2014. N-Glycosylation site analysis of proteins from Saccharomyces cerevisiae by using hydrophilic interaction liquid chromatography-based enrichment, parallel deglycosylation, and mass spectrometry. J. Proteome Res. 13, 1485–1493. https://doi.org/10.1021/pr401049e

Cho, N.H., Cheveralls, K.C., Brunner, A.-D., Kim, K., Michaelis, A.C., Raghavan, P., Kobayashi, H., Savy, L., Li, J.Y., Canaj, H., Kim, J.Y.S., Stewart, E.M., Gnann, C., McCarthy, F., Cabrera, J.P., Brunetti, R.M., Chhun, B.B., Dingle, G., Hein, M.Y., Huang, B., Mehta, S.B., Weissman, J.S., Gómez-Sjöberg, R., Itzhak, D.N., Royer, L.A., Mann, M., Leonetti, M.D., 2022. OpenCell: proteome-scale endogenous tagging enables the cartography of human cellular organization. Science 375, eabi6983. https://doi.org/10.1126/science.abi6983

Cohen, N., Kahana, A., Schuldiner, M., 2022. A Similarity-Based Method for Predicting Enzymatic Functions in Yeast Uncovers a New AMP Hydrolase. J. Mol. Biol. 434, 167478. https://doi.org/10.1016/j.jmb.2022.167478

Couso, J.-P., Patraquim, P., 2017. Classification and function of small open reading frames. Nat. Rev. Mol. Cell Biol. 18, 575–589. https://doi.org/10.1038/nrm.2017.58

Eisenhaber, F., 2012. A decade after the first full human genome sequencing: when will we understand our own genome? J. Bioinform. Comput. Biol. 10, 1271001. https://doi.org/10.1142/S0219720012710011

Gadella, T.W.J., van Weeren, L., Stouthamer, J., Hink, M.A., Wolters, A.H.G., Giepmans, B.N.G., Aumonier, S., Dupuy, J., Royant, A., 2023. mScarlet3: a brilliant and fast-maturing red fluorescent protein. Nat. Methods 20, 541–545. https://doi.org/10.1038/s41592-023-01809-y

Ghaemmaghami, S., Huh, W.-K., Bower, K., Howson, R.W., Belle, A., Dephoure, N., O'Shea, E.K., Weissman, J.S., 2003. Global analysis of protein expression in yeast. Nature 425, 737–741. https://doi.org/10.1038/nature02046

Gietz, R.D., Woods, R.A., 2002. Transformation of yeast by lithium acetate/single-stranded carrier DNA/polyethylene glycol method. Methods Enzymol. 350, 87–96. https://doi.org/10.1016/s0076-6879(02)50957-5

Goffeau, A., Barrell, B.G., Bussey, H., Davis, R.W., Dujon, B., Feldmann, H., Galibert, F., Hoheisel, J.D., Jacq, C., Johnston, M., Louis, E.J., Mewes, H.W., Murakami, Y., Philippsen, P., Tettelin, H., Oliver, S.G., 1996. Life with 6000 genes. Science 274, 546, 563–567. https://doi.org/10.1126/science.274.5287.546

Huh, W.-K., Falvo, J.V., Gerke, L.C., Carroll, A.S., Howson, R.W., Weissman, J.S., O'Shea, E.K., 2003. Global analysis of protein localization in budding yeast. Nature 425, 686–691. https://doi.org/10.1038/nature02026

International Human Genome Sequencing Consortium, 2004. Finishing the euchromatic sequence of the human genome. Nature 431, 931–945. https://doi.org/10.1038/nature03001

Kastenmayer, J.P., Ni, L., Chu, A., Kitchen, L.E., Au, W.-C., Yang, H., Carter, C.D., Wheeler, D., Davis, R.W., Boeke, J.D., Snyder, M.A., Basrai, M.A., 2006. Functional genomics of genes with small open reading frames (sORFs) in S. cerevisiae. Genome Res. 16, 365–373. https://doi.org/10.1101/gr.4355406

Manford, A.G., Stefan, C.J., Yuan, H.L., MacGurn, J.A., Emr, S.D., 2012. ER-to-Plasma Membrane Tethering Proteins Regulate Cell Signaling and ER Morphology. Dev. Cell 23, 1129–1140. https://doi.org/10.1016/j.devcel.2012.11.004

McIsaac, R.S., Oakes, B.L., Wang, X., Dummit, K.A., Botstein, D., Noyes, M.B., 2013. Synthetic gene expression perturbation systems with rapid, tunable, single-gene specificity in yeast. Nucleic Acids Res. 41, e57–e57. https://doi.org/10.1093/nar/gks1313

Meinecke, M., Bartsch, P., Wagner, R., 2016. Peroxisomal protein import pores. Biochim. Biophys. Acta BBA - Mol. Cell Res., Assembly, Maintenance and Dynamics of Peroxisomes 1863, 821–827. https://doi.org/10.1016/j.bbamcr.2015.10.013

Meurer, M., Duan, Y., Sass, E., Kats, I., Herbst, K., Buchmuller, B.C., Dederer, V., Huber, F., Kirrmaier, D., Štefl, M., Van Laer, K., Dick, T.P., Lemberg, M.K., Khmelinskii, A., Levy, E.D., Knop, M., 2018. Genome-wide C-SWAT library for high-throughput yeast genome tagging. Nat. Methods 15, 598–600. https://doi.org/10.1038/s41592-018-0045-8

Moeyaert, B., Nguyen Bich, N., De Zitter, E., Rocha, S., Clays, K., Mizuno, H., van Meervelt, L., Hofkens, J., Dedecker, P., 2014. Green-to-Red Photoconvertible Dronpa Mutant for Multimodal Super-resolution Fluorescence Microscopy. ACS Nano 8, 1664–1673. https://doi.org/10.1021/nn4060144

Murakawa, T., Nakamura, T., Kawaguchi, K., Murayama, F., Zhao, N., Stasevich, T.J., Kimura, H., Fujita, N., 2022. A Drosophila toolkit for HA-tagged proteins unveils a block in autophagy flux in the last instar larval fat body. Development 149, dev200243. https://doi.org/10.1242/dev.200243

Ohira, M.J., Hendrickson, D.G., McIsaac, R.S., Rhind, N., 2017. An Estradiol-Inducible Promoter Enables Fast, Graduated Control of Gene Expression in Fission Yeast. Yeast Chichester Engl. 34, 323. https://doi.org/10.1002/yea.3235

Partow, S., Siewers, V., Bjørn, S., Nielsen, J., Maury, J., 2010. Characterization of different promoters for designing a new expression vector in Saccharomyces cerevisiae. Yeast 27, 955–964. https://doi.org/10.1002/yea.1806

Peña-Castillo, L., Hughes, T.R., 2007. Why Are There Still Over 1000 Uncharacterized Yeast Genes? Genetics 176, 7. https://doi.org/10.1534/genetics.107.074468

Reinhard, J., Starke, L., Klose, C., Haberkant, P., Hammarén, H., Stein, F., Klein, O., Berhorst, C., Stumpf, H., Sáenz, J.P., Hub, J., Schuldiner, M., Ernst, R., 2024. MemPrep, a new technology for isolating organellar membranes provides fingerprints of lipid bilayer stress. EMBO J. 43, 1653–1685. https://doi.org/10.1038/s44318-024-00063-y

Rocha, J.J., Jayaram, S.A., Stevens, T.J., Muschalik, N., Shah, R.D., Emran, S., Robles, C., Freeman, M., Munro, S., 2023. Functional unknomics: Systematic screening of conserved genes of unknown function. PLOS Biol. 21, e3002222. https://doi.org/10.1371/journal.pbio.3002222

Rout, M.P., Aitchison, J.D., 2001. The Nuclear Pore Complex as a Transport Machine *. J. Biol. Chem. 276, 16593–16596. https://doi.org/10.1074/jbc.R100015200

Schindelin, J., Arganda-Carreras, I., Frise, E., Kaynig, V., Longair, M., Pietzsch, T., Preibisch, S., Rueden, C., Saalfeld, S., Schmid, B., Tinevez, J.-Y., White, D.J., Hartenstein, V., Eliceiri, K., Tomancak, P., Cardona, A., 2012. Fiji - an Open Source platform for biological image analysis. Nat. Methods 9, 10.1038/nmeth.2019. https://doi.org/10.1038/nmeth.2019

Spormann, D.O., Heim, J., Wolf, D.H., 1992. Biogenesis of the yeast vacuole (lysosome). The precursor forms of the soluble hydrolase carboxypeptidase yscS are associated with the vacuolar membrane. J. Biol. Chem. 267, 8021–8029.

Sun, J., Shao, Z., Zhao, Hua, Nair, N., Wen, F., Xu, J.-H., Zhao, Huimin, 2012. Cloning and characterization of a panel of constitutive promoters for applications in pathway engineering in Saccharomyces cerevisiae. Biotechnol. Bioeng. 109, 2082–2092. https://doi.org/10.1002/bit.24481

Terpe, K., 2003. Overview of tag protein fusions: from molecular and biochemical fundamentals to commercial systems. Appl. Microbiol. Biotechnol. 60, 523–533. https://doi.org/10.1007/s00253-002-1158-6

Tsirkas, I., Zur, T., Dovrat, D., Cohen, A., Ravkaie, L., Aharoni, A., 2022. Protein fluorescent labeling in live yeast cells using scFv-based probes. Cell Rep. Methods 2, 100357. https://doi.org/10.1016/j.crmeth.2022.100357

Wagih, O., Usaj, M., Baryshnikova, A., VanderSluis, B., Kuzmin, E., Costanzo, M., Myers, C.L., Andrews, B.J., Boone, C.M., Parts, L., 2013. SGAtools: one-stop analysis and visualization of array-based genetic interaction screens. Nucleic Acids Res. 41, W591-596. https://doi.org/10.1093/nar/gkt400

Weill, U., Cohen, N., Fadel, A., Ben-Dor, S., Schuldiner, M., 2019. Protein Topology Prediction Algorithms Systematically Investigated in the Yeast Saccharomyces cerevisiae. BioEssays News Rev. Mol. Cell. Dev. Biol. 41, e1800252. https://doi.org/10.1002/bies.201800252

Weill, U., Yofe, I., Sass, E., Stynen, B., Davidi, D., Natarajan, J., Ben-Menachem, R., Avihou, Z., Goldman, O., Harpaz, N., Chuartzman, S., Kniazev, K., Knoblach, B., Laborenz, J., Boos, F., Kowarzyk, J., Ben-Dor, S., Zalckvar, E., Herrmann, J.M., Rachubinski, R.A., Pines, O., Rapaport, D., Michnick, S.W., Levy, E.D., Schuldiner, M., 2018. Genome-wide SWAp-Tag yeast libraries for proteome exploration. Nat. Methods 15, 617–622. https://doi.org/10.1038/s41592-018-0044-9

Wood, V., Lock, A., Harris, M.A., Rutherford, K., Bähler, J., Oliver, S.G., 2019. Hidden in plain sight: what remains to be discovered in the eukaryotic proteome? Open Biol. 9, 180241. https://doi.org/10.1098/rsob.180241

Yeo, K.Y.B., Chrysanthopoulos, P.K., Nouwens, A.S., Marcellin, E., Schulz, B.L., 2016. High-performance targeted mass spectrometry with precision data-independent acquisition reveals site-specific glycosylation macroheterogeneity. Anal. Biochem. 510, 106–113. https://doi.org/10.1016/j.ab.2016.06.009

Yofe, I., Weill, U., Meurer, M., Chuartzman, S., Zalckvar, E., Goldman, O., Ben-Dor, S., Schütze, C., Wiedemann, N., Knop, M., Khmelinskii, A., Schuldiner, M., 2016. One library to make them all: streamlining the creation of yeast libraries via a SWAp-Tag strategy. Nat. Methods 13, 371–378. https://doi.org/10.1038/nmeth.3795

Zhang, M., Chang, H., Zhang, Y., Yu, J., Wu, L., Ji, W., Chen, J., Liu, B., Lu, J., Liu, Y., Zhang, J., Xu, P., Xu, T., 2012. Rational design of true monomeric and bright photoactivatable fluorescent proteins. Nat. Methods 9, 727–729. https://doi.org/10.1038/nmeth.2021

Zhao, N., Kamijo, K., Fox, P.D., Oda, H., Morisaki, T., Sato, Y., Kimura, H., Stasevich, T.J., 2019. A genetically encoded probe for imaging nascent and mature HA-tagged proteins in vivo. Nat. Commun. 10, 2947. https://doi.org/10.1038/s41467-019-10846-1

Zhao, X., Li, G., Liang, S., 2013. Several Affinity Tags Commonly Used in Chromatographic Purification. J. Anal. Methods Chem. 2013, 581093. https://doi.org/10.1155/2013/581093

Zielinska, D.F., Gnad, F., Schropp, K., Wiśniewski, J.R., Mann, M., 2012. Mapping N-glycosylation sites across seven evolutionarily distant species reveals a divergent substrate proteome despite a common core machinery. Mol. Cell 46, 542–548. https://doi.org/10.1016/j.molcel.2012.04.031

Figures

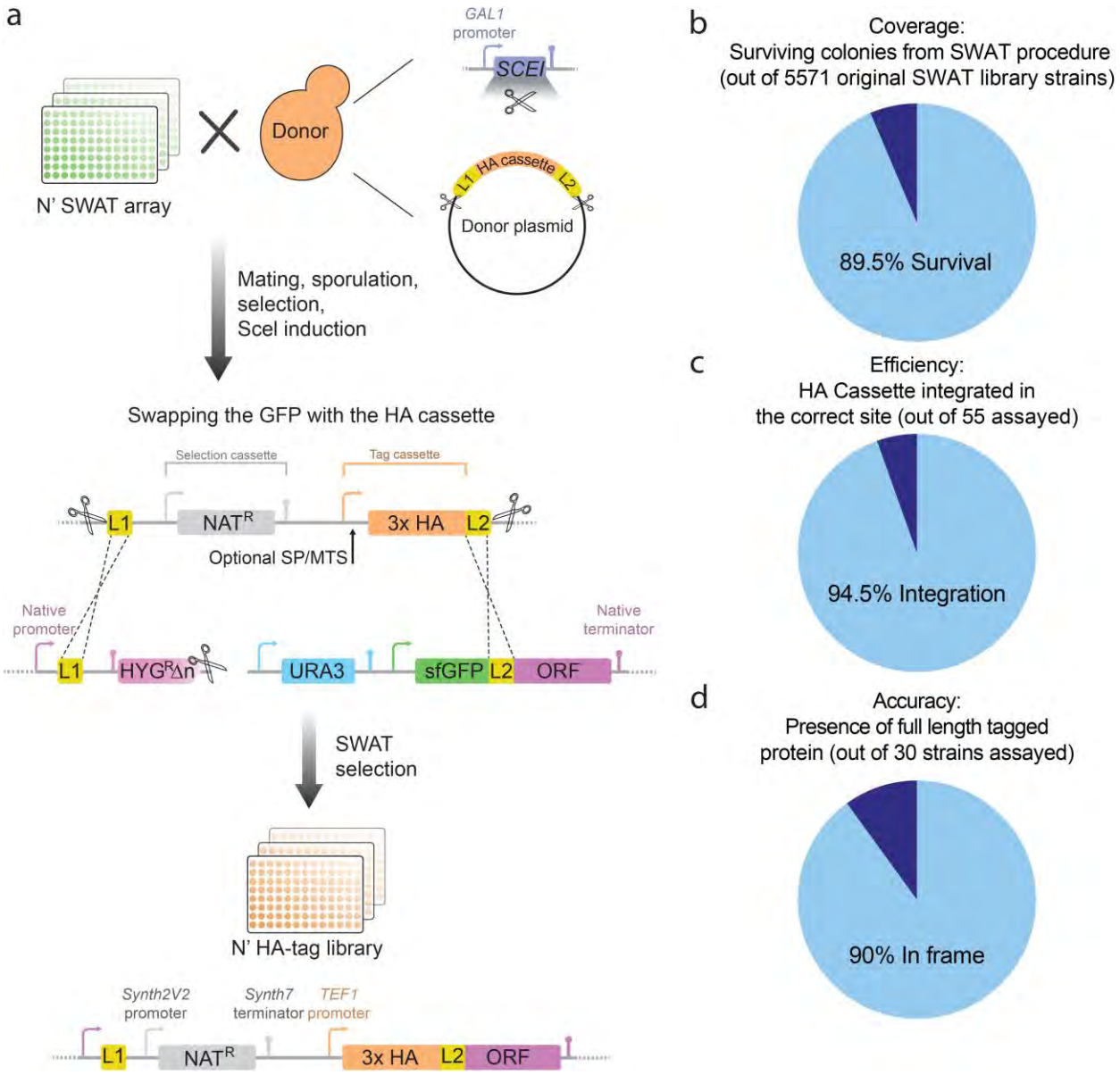


Fig. 1. Creation and validation of an HA-tag yeast library.

(a) An illustration of the HA library creation. The acceptor N'-SWAT library (harboring the SWAT module, which includes the L1 and L2 linkers, Ura3 selection and a I-SceI restriction site) was crossed with a donor strain harboring a donor plasmid (encoding for the HA tag and a Nat selection, situated between the L1 and L2 linkers and flanked by I-SceI restriction sites) and a

galactose inducible I-SceI restriction enzyme. An automated mating and selection procedure created an intermediate library carrying all traits mentioned above. Induction of I-SceI expression (by plating on galactose) resulted in double-strand breaks in both the donor plasmid and the genomic SWAT module, leading to homologous recombination between the L1 and L2 linkers, replacing the SWAT module with the HA cassette. Subsequent selection for Nat and against Ura3 resulted in the desired HA library.

(b) Assessment of the efficiency of the SWAT procedure (coverage) was performed by measuring the number of colonies that passed all the automated mating, selection, and SWAT procedures. A pie chart represents that 89.5% of yeast strains from the original library survived.

(c) Assessment of the HA cassette SWAT efficiency was performed by check PCR upstream to randomly chosen genes. The pie chart demonstrates that 94.5% of genes had a successful integration (n=55).

(d) Assessment of the efficiency of in-frame integration (accuracy) was performed by evaluating the molecular weight (Mw) of tagged proteins. `The pie chart demonstrates that, for randomly chosen soluble proteins analyzed by SDS-PAGE, 90% of proteins run at the expected MW and therefore we assume that they represent in-frame integration of the HA tag (n=30).

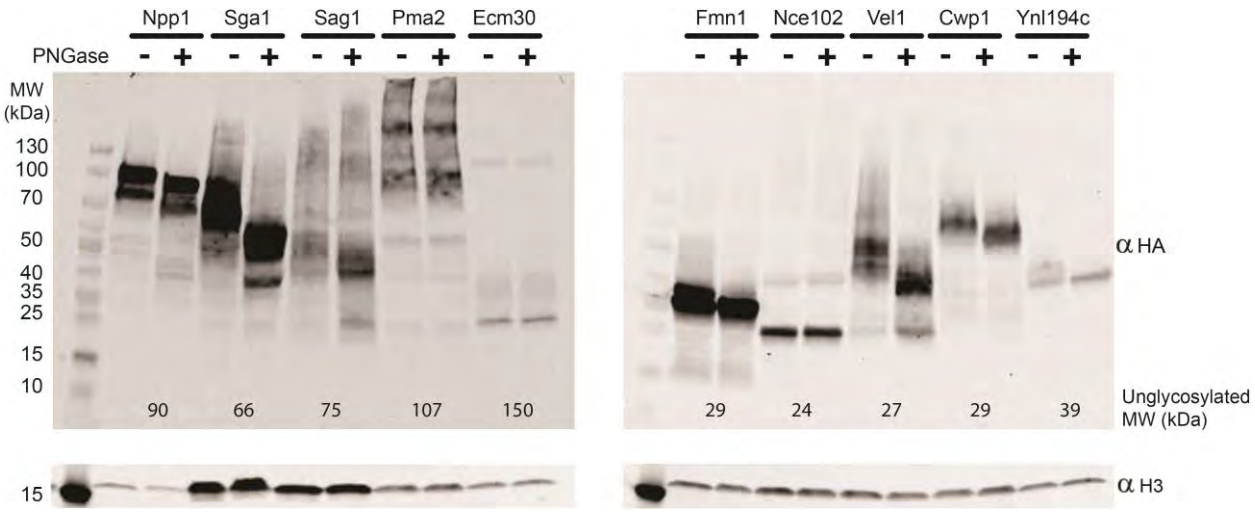


Fig. 2. Evaluation of the glycosylation state of HA-tagged proteins.

Whole cell lysates from colonies of 10 known glycoproteins were treated with the pan-glycan removing enzyme, PNGase (+), or DDW (-) as control. Their molecular weight (Mw) was subsequently resolved by western blot analysis using anti HA antibody. The calculated Mw of each protein, including the size of the 3xHA tag and L2 linker (4.9 KDa) is presented at the bottom of their respective lanes. Anti histone H3 was used as a loading control.

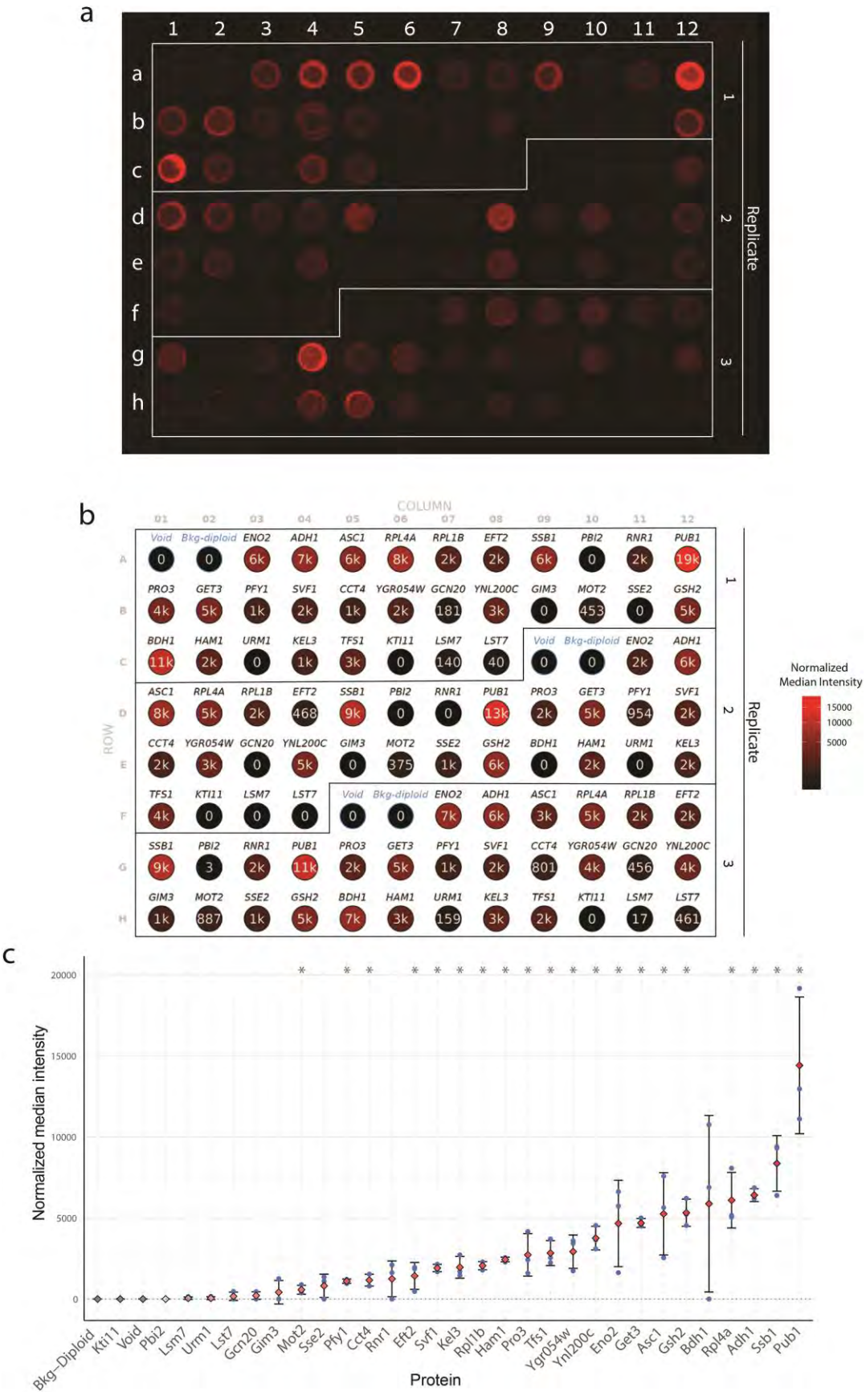
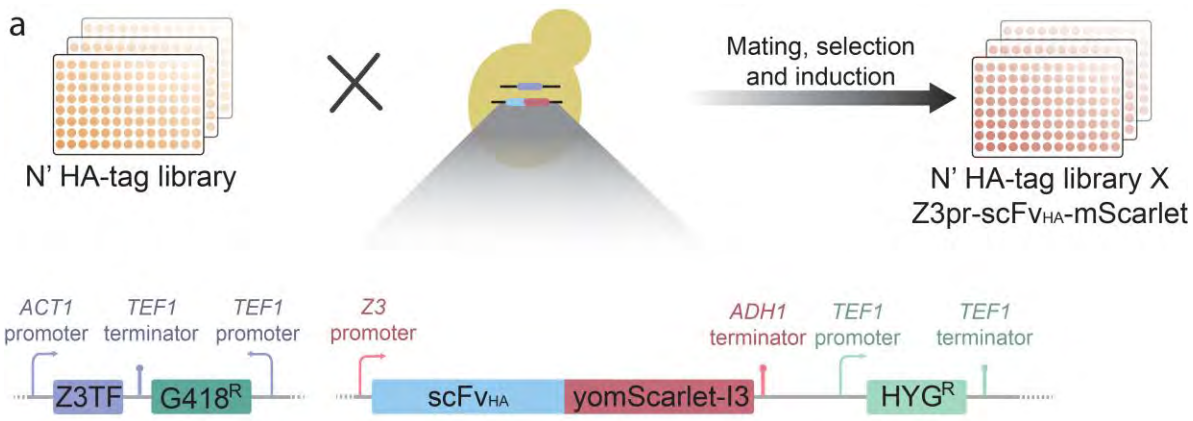


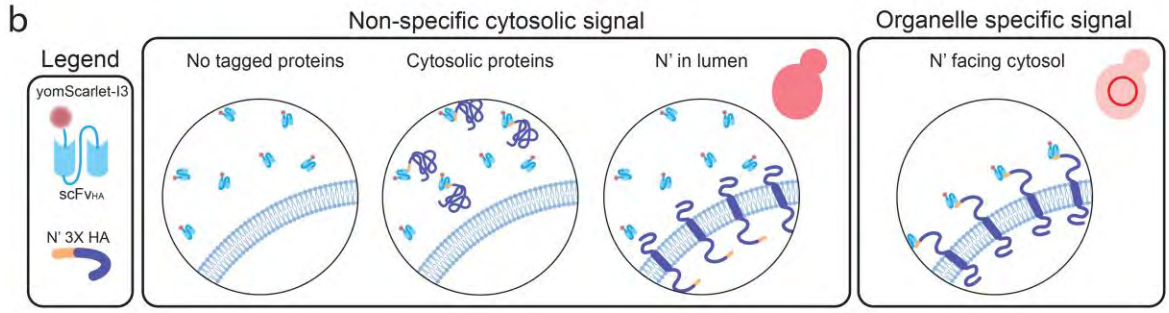
Fig. 3. Systematic quantification of protein abundance using the N' HA strains.

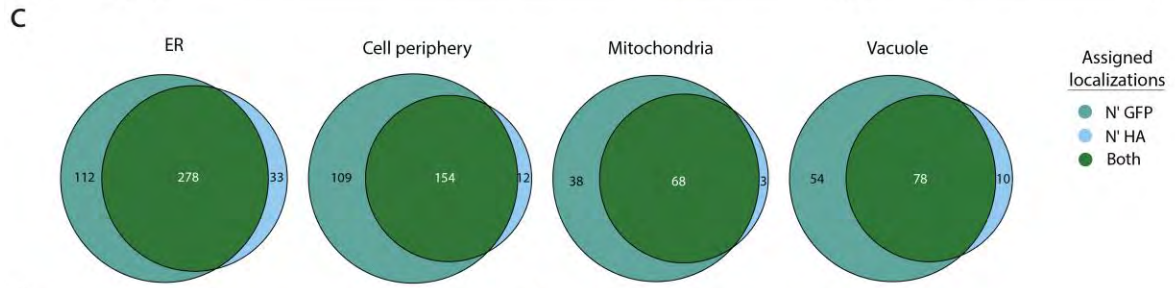
(a) Image of a 96-well dot blot with an anti-HA antibody, showing three replicates for each of 30 yeast strains and controls, one without cells and one using a strain not expressing any HA tagged protein.

(b) Well annotation with median intensity values normalized to BCA protein concentrations. Circle color intensity represents the normalized median intensity for each well position.

(c) A scatter plot displaying the average median intensity values over three replicates ranked in ascending order, with normalized median intensity for each strain and corresponding standard deviation (SD) as error bars. Asterisks represent pValue <0.05 (Wilcoxon rank-sum test).







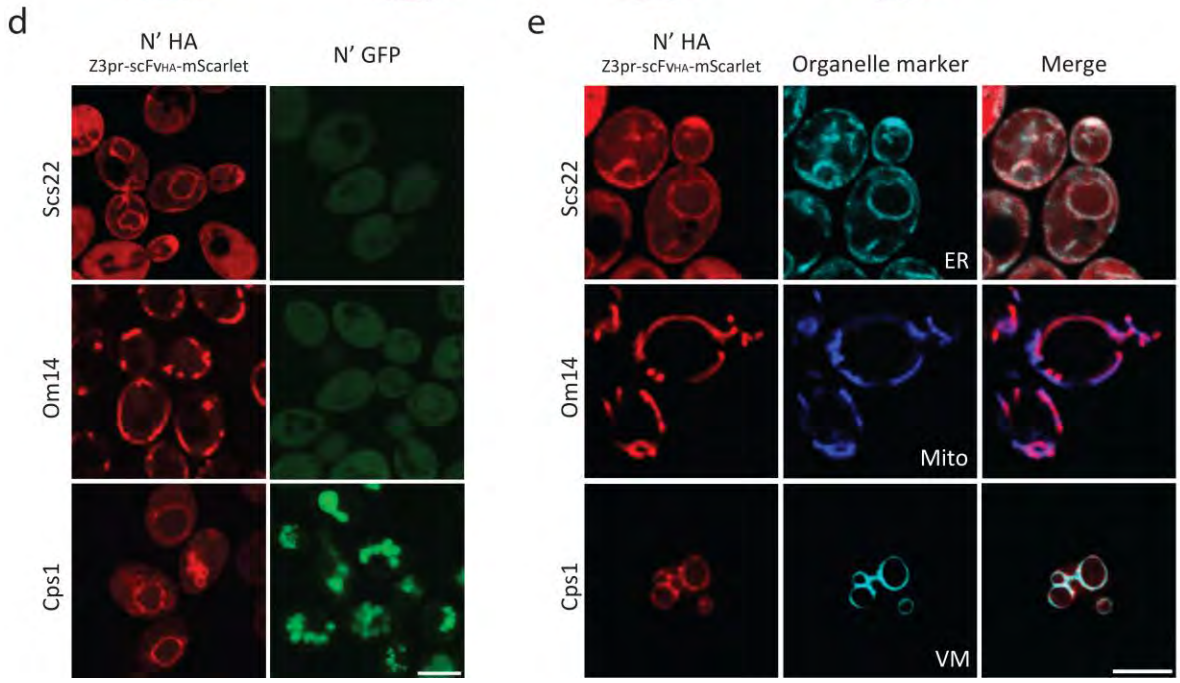


Fig. 4. Visualization of protein localization using a genetically encoded affinity assay.

(a) Schematic representation of the creation of the diploid library: The HA-tagged protein library was crossed against a strain expressing the Z3TF (transcription factor) under the ACT1 promoter and the $scFv_{HA}$-yomScarlet-I3 (mScarlet) under the inducible Z3 promoter. As a result, a diploid library was created where each protein is N-terminally tagged with the 3xHA and constitutively expressed along side the constitutive expression of the Z3TF. Upon exposure to β-estradiol, the Z3TF is activated, driving the expression of the $scFv_{HA}$-mScarlet. The diploid library was subsequently imaged by confocal microscopy to detect localized mScarlet fluorescent signal.

(b) Illustration of expected phenotypes for different N' localization of HA-tagged proteins using the $scFv_{HA}$-mScarlet, Z3TF system. Untagged proteins, cytosolic proteins, and proteins with N' facing lumens of organelle should show a cytosolic signal as the $scFv_{HA}$-mScarlet is dispersed throughout the cytosol. Membrane proteins with cytosolic N'-HA will interact with the $scFv_{HA}$-mScarlet and therefore present as a localized fluorescent signal of an organelle-specific nature.

(c) Venn diagram of proteins exhibiting organelle specific signal in the *NOP1*-GFP and the HA x sc-Fv_{HA} libraries were analyzed for discrepancies in their localization. 65.7% of the GFP-tagged proteins that are localized to the Endoplasmic Reticulum (ER) also show a similar signal when tagged with HA. Whilst 56% correlate between GFP and HA for the cell periphery, 62.4% for mitochondria and 54.9% for the vacuole/vacuole membrane.

(d) Confocal microscopy images of representative strains that exhibited clear localizations to various organelles in the HA x sc-FV_{HA} library (red) despite not being clearly localized when tagged with GFP (green): Scs22 has a clear ER localization, Om14 a mitochondrial one, and Cps1 vacuolar membrane. Diploid strains of both backgrounds were induced with β-estradiol and imaged after 3 hours alongside their counterparts in the *NOP1-GFP* library. Scale bar = 5µm.

(e) Confocal microscopy images of the representative strains expressing organellar markers (cyan) show full colocalization of the HA x sc-FV_{HA} strains (red) with the respective fluorescently labeled organelles. Sec63-mNeonGreen was used as a marker for the ER, MitoView405 was used as a mitochondrial marker and Vph1-mNeonGreen was used as a vacuole membrane (VM) marker. Scale bar = 5µm.

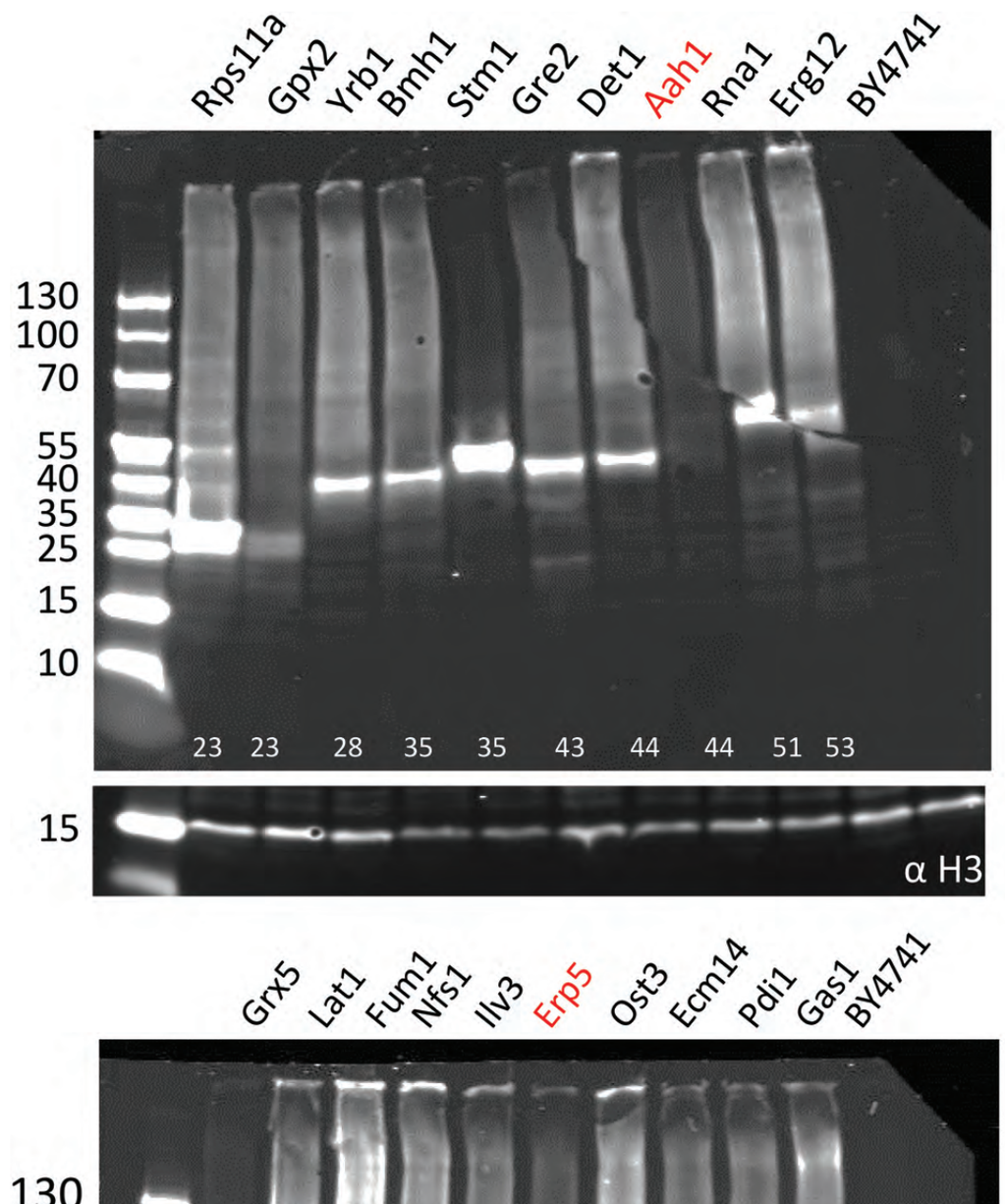
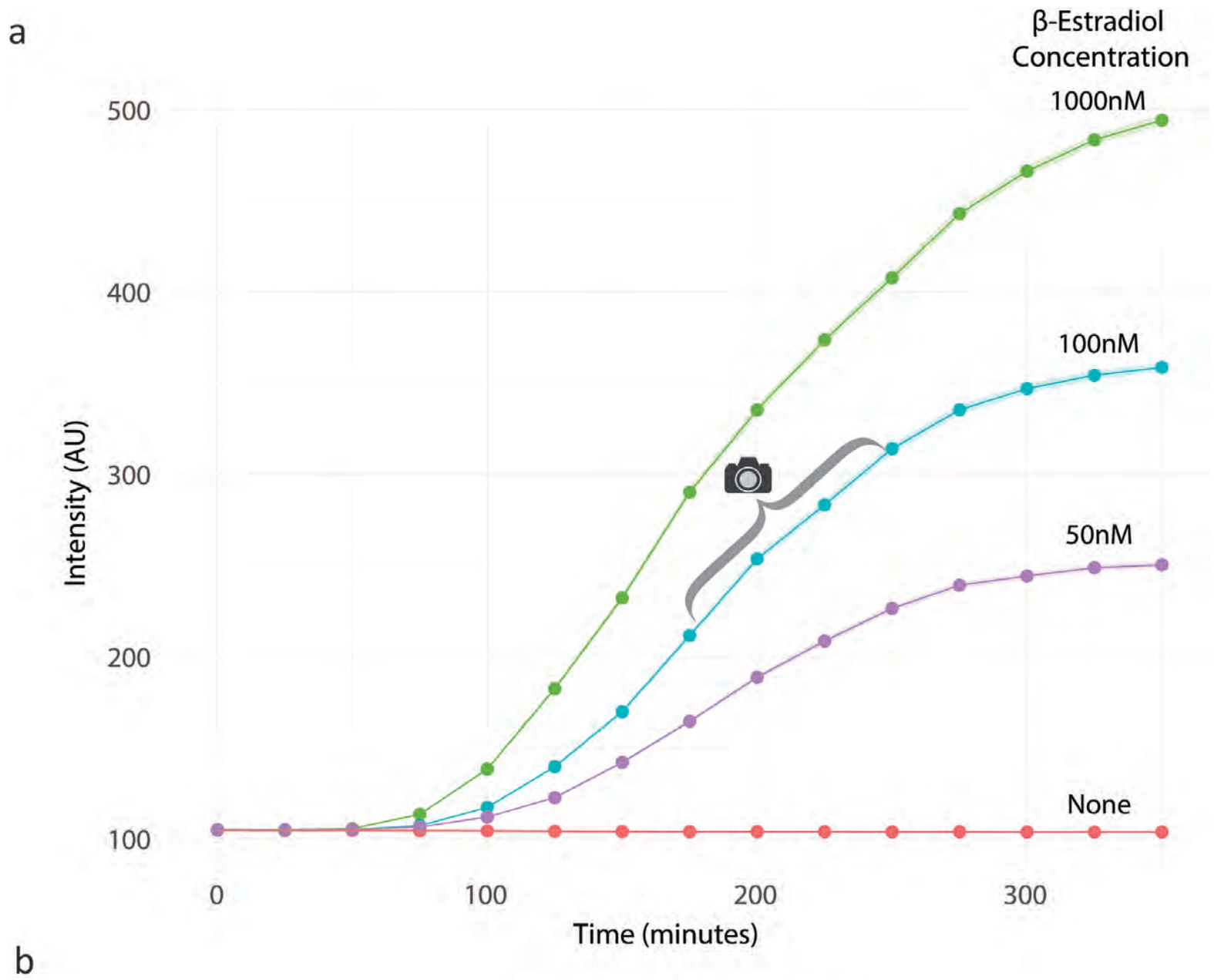
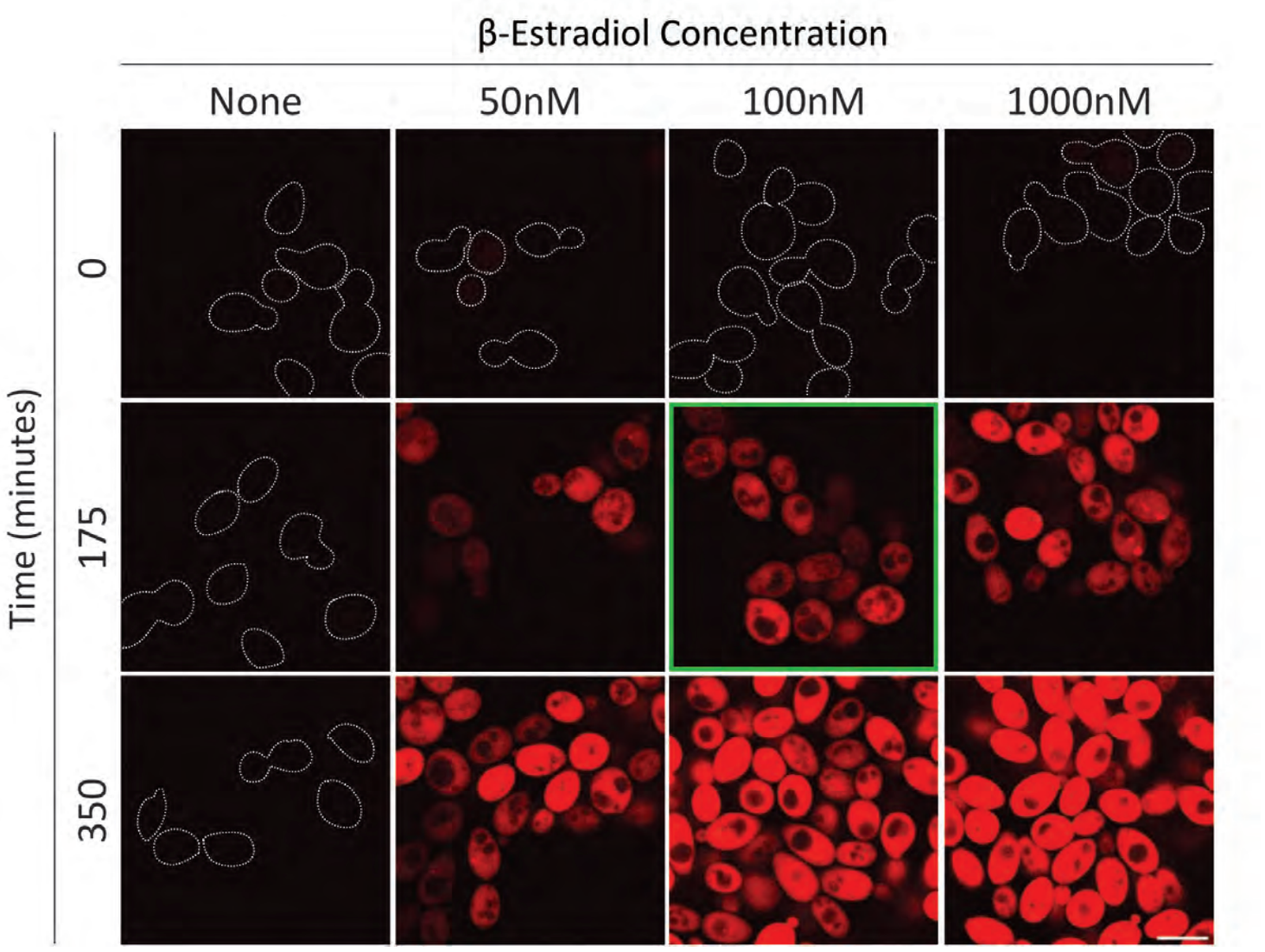


Fig. S1. Verification of the N' HA-tagged yeast library using Western blot analysis.
Western blots of selected HA-tagged yeast strains to verify successful, in frame, integration of the HA tag. Each lane represents a different HA-tagged protein from the library, with anti-HA antibodies used to detect the presence and correct size of the tagged proteins. Control lanes include a non-HA-tagged yeast strain as a negative control (BY4741) to confirm specificity of the anti-HA antibody. Molecular weight (MW) markers indicate size ranges for each HA-tagged protein. The calculated Mw of each protein, including the size of the 3xHA tag and L2 linker (4.9 KDa) is presented at the bottom of their respective lanes. Bands at expected sizes confirm that most proteins are correctly tagged and expressed. Anti histone H3 was used as a loading control. Protein names in red indicate lack of a clear band.


a
β-Estradiol Concentration
1000nM
100nM
50nM
None
Intensity (AU)
500
400
300
200
100
0
100
200
300
Time (minutes)


b
β-Estradiol Concentration
None
50nM
100nM
1000nM
Time (minutes)
0
175
350

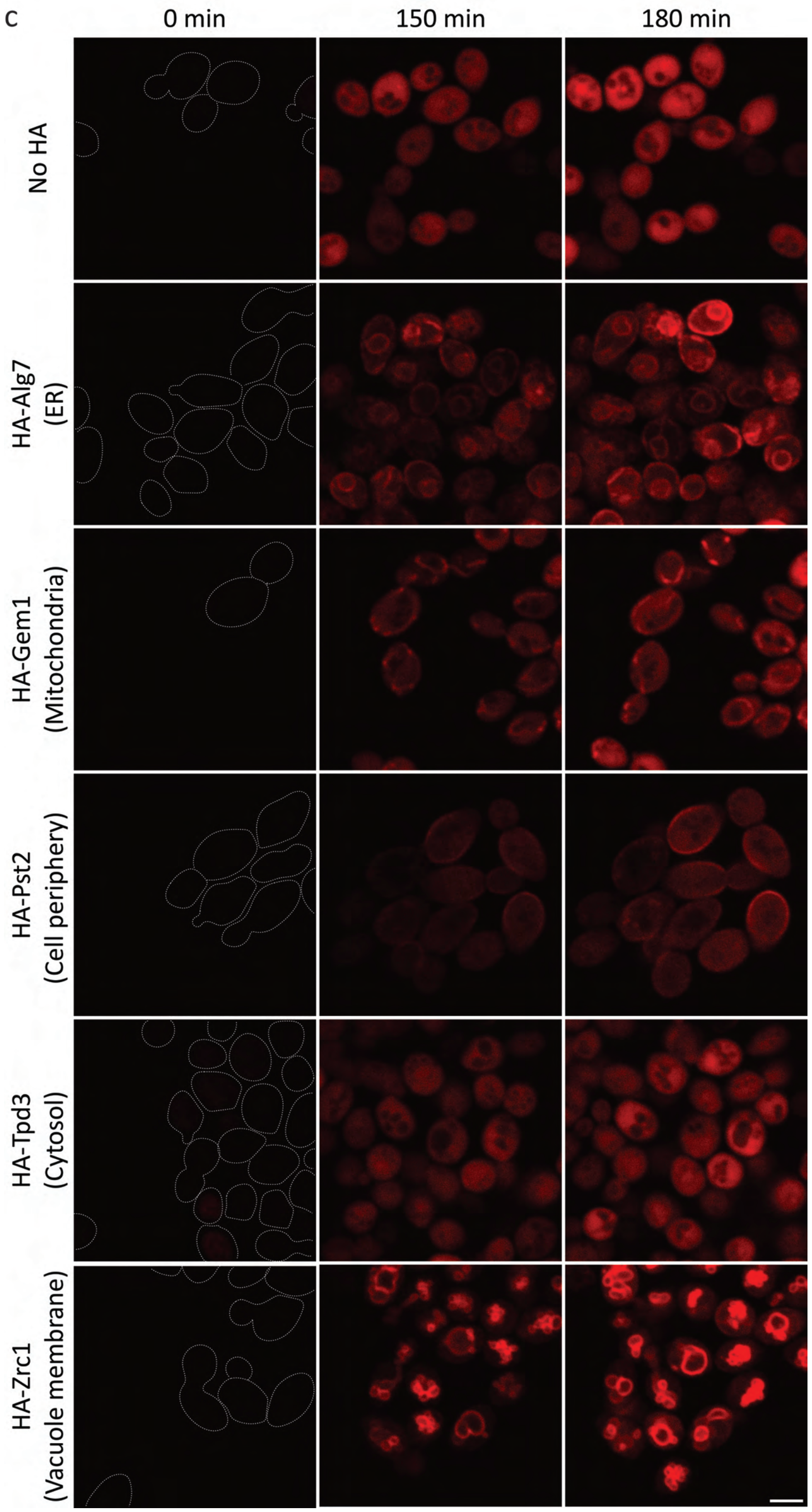


Fig. S2. Calibration and optimization of the scFv anti-HA system for imaging.

(a) Plot of intensity (arbitrary units, AU) over time (minutes) in yeast strains containing the $scFv_{HA}$-Scarlet system induced with β-estradiol at concentrations of 50nM, 100nM, and 1000nM. A strain without β-estradiol was used as a control (none). The plot highlights the optimal time and β-estradiol concentration (indicated with brackets and a camera icon) for achieving a coherent visualized signal (100nM, ~180-250min).

(b) Representative confocal images of yeast strains with the $scFv_{HA}$-mScarlet system at various time points and β-estradiol concentrations from (a). Images demonstrate increasing fluorescence intensity with higher concentrations and longer induction times. Scale bar = 5 μm.

(c) Representative confocal images of diploid yeast strains (N'-HA + $scFv_{HA}$-mScarlet) with HA-tagged proteins localized to various organelle membranes: Alg7 to the endoplasmic reticulum (ER), Gem1 to mitochondria, Pst2 to the cell periphery, Tpd3 in the cytosol, and Zrc1 to the vacuole membrane. Images were taken at 0, 150, and 180 minutes after β-estradiol induction to monitor changes in signal intensity. The fluorescent signals confirm the accurate localization of HA-tagged proteins across these compartments. Scale bar = 5 μm.

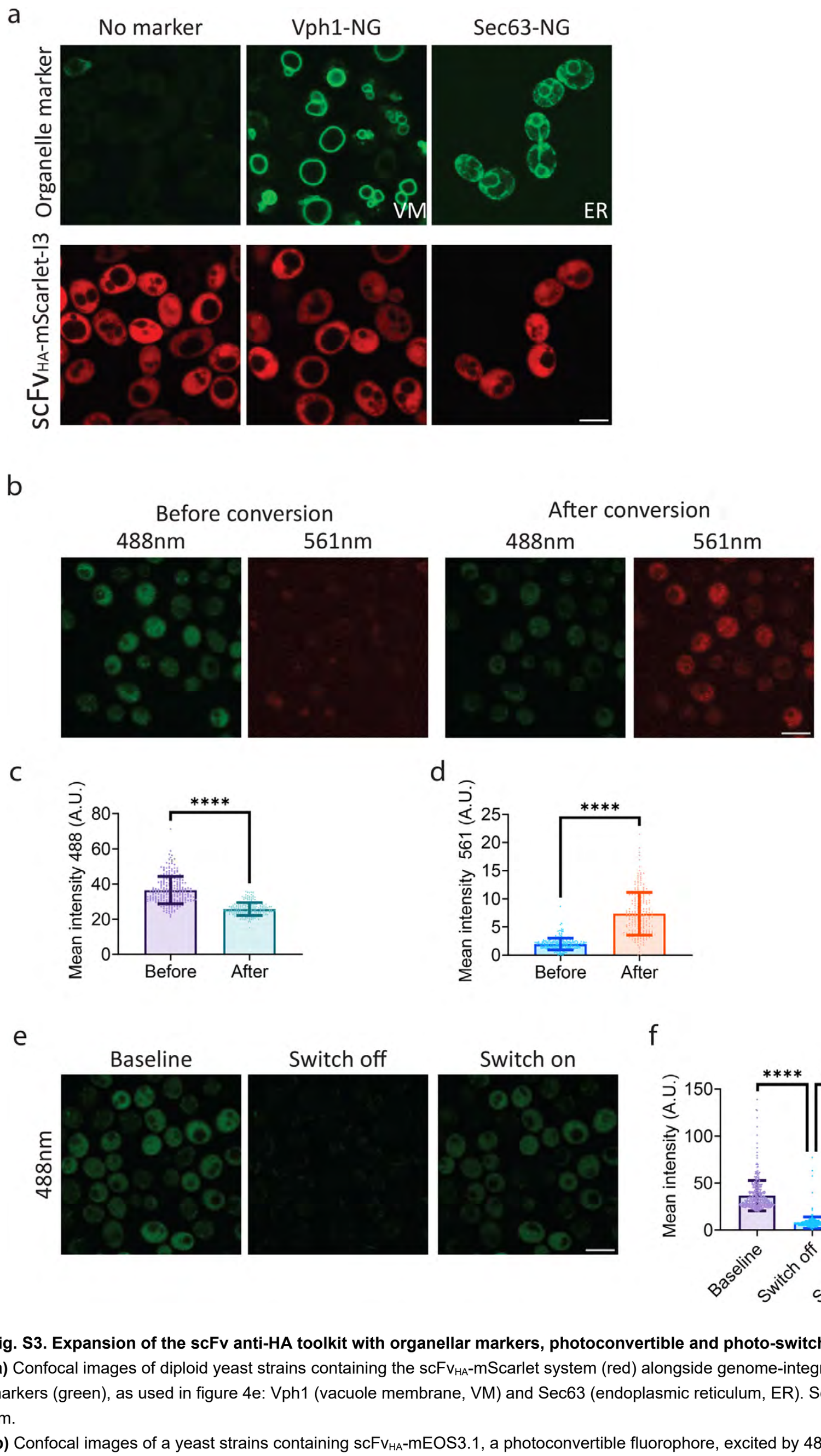
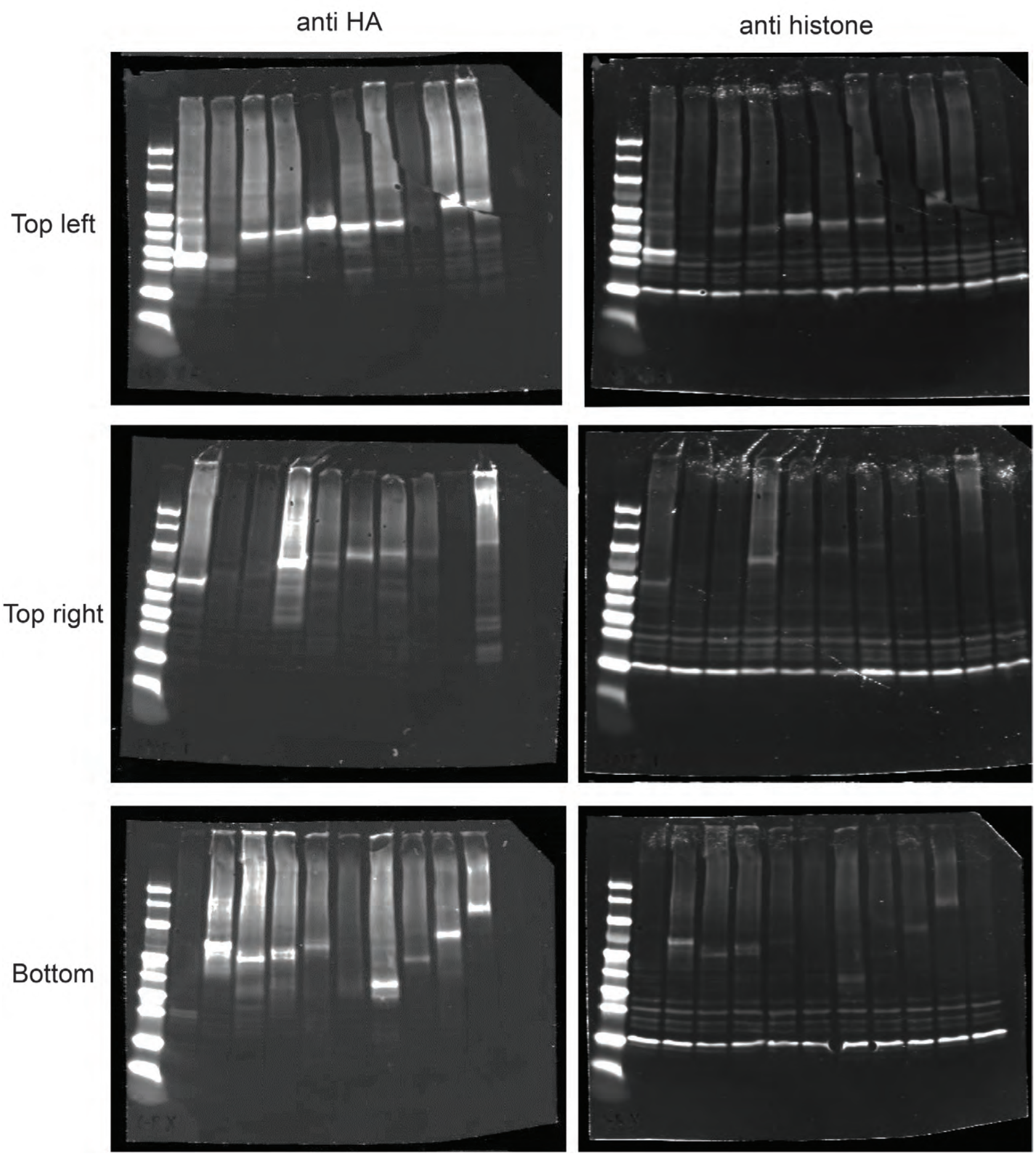


Fig. S3. Expansion of the scFv anti-HA toolkit with organellar markers, photoconvertible and photo-switchable proteins.
(a) Confocal images of diploid yeast strains containing the $scFv_{HA}$-mScarlet system (red) alongside genome-integrated organelle markers (green), as used in figure 4e: Vph1 (vacuole membrane, VM) and Sec63 (endoplasmic reticulum, ER). Scale bar = 5 µm.
(b) Confocal images of a yeast strains containing $scFv_{HA}$-mEOS3.1, a photoconvertible fluorophore, excited by 488 nm and 561 nm lasers. Photoconversion from green to red, after illumination by a 405nm laser, demonstrating the expansion of the toolkit's versatility for dynamic protein tracking. Scale bar = 5 µm.
(c) Quantification of mean intensity of cells excited at 488 nm from (b). n=2 fields. 256 and 225 individual cells were quantified before and after conversion, respectively, and analyzed by unpaired t-test. pv<0.0001. Bars = mean ± SD.
(d) Quantification of mean intensity of cells excited at 561 nm from (b). n=2 fields. 256 and 225 individual cells were quantified before and after conversion, respectively, and analyzed by unpaired t-test. pv<0.0001. Bars = mean ± SD.
(e) Confocal images of a yeast strain containing $scFv_{HA}$-ffDronpa, a photo-switchable fluorophore, imaged at 488 nm for the first time (baseline), after bleaching (switch off), and after subsequent excitation at 405 nm (switch off). These images demonstrate that $scFv_{HA}$-ffDronpa can be efficiently toggled between fluorescent states, allowing controlled imaging in live cells. Scale bar = 5 µm.
(f) Quantification of mean intensity of cells excited at 488 nm from (e). n=2 fields. 376 cells were quantified and analyzed by paired t-test. pv<0.0001. Bars = mean ± SD.

a



b

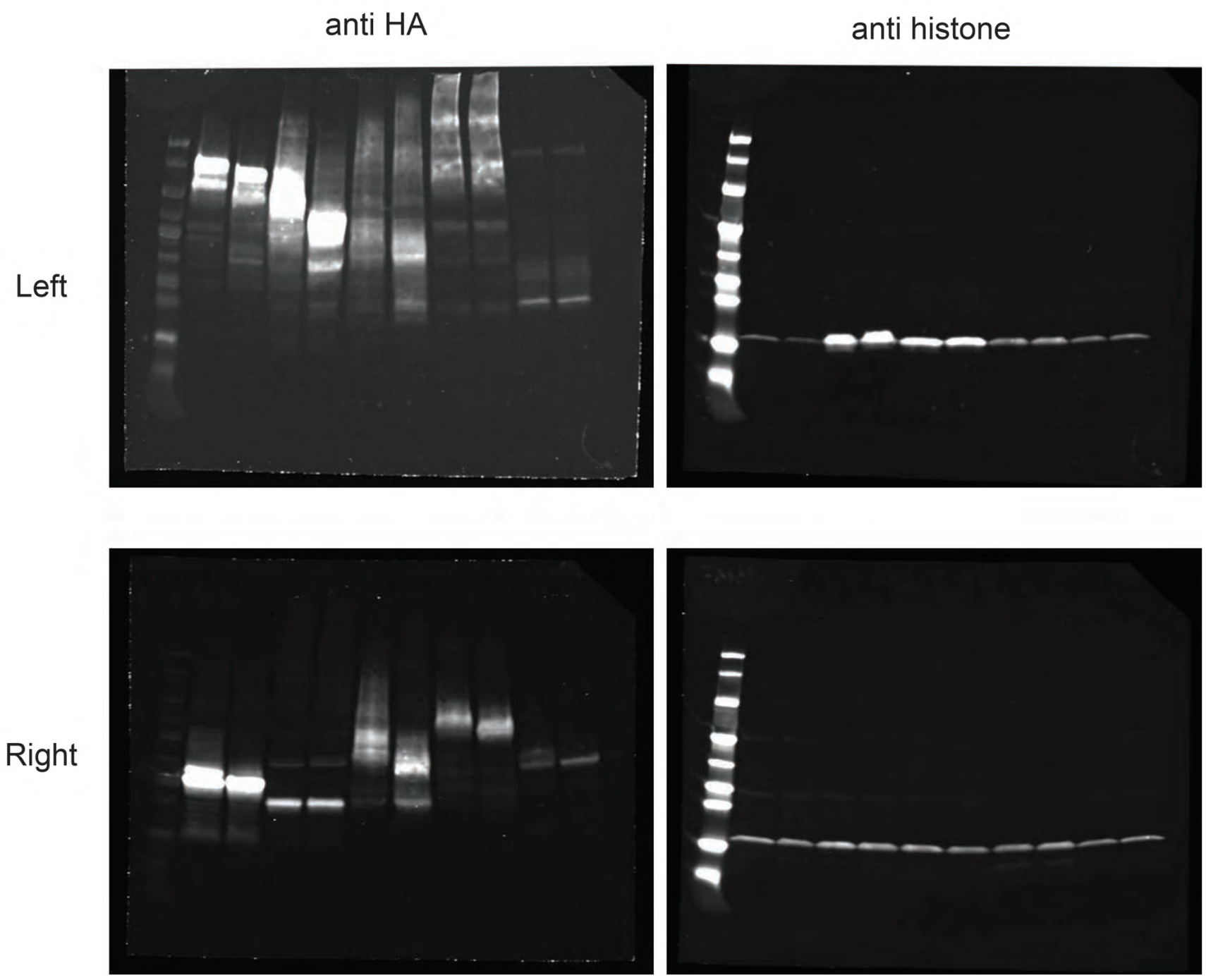


Fig. S4. Western blot transparency.
Original western blot data. **(a)** Blots of Fig. S1. Text on the left indicates their position in the correlating figure.**(b)** Blots of figure 2. Text on the left indicates their position in the correlating figure.

Table S1. surviving colonies from SWAT procedure present in the final HA library

ORF	Small ORF?	Gene
YAL002W		*VPS8*
YAL005C		*SSA1*
YBR161W		*CSH1*
YAL008W		*FUN14*
YBR162W-A	*Yes*	*YSY6*
YAL009W		*SPO7*
YBR164C		*ARL1*
YAL014C		*SYN8*
YBR168W		*PEX32*
YAL018C		*LDS1*
YBR170C		*NPL4*
YAL022C		*FUN26*
YBR171W		*SEC66*
YAL023C		*PMT2*
YBR172C		*SMY2*
YAL026C		*DRS2*
YBR183W		*YPC1*
YAL028W		*FRT2*
YBR199W		*KTR4*
YAL030W		*SNC1*
YBR201C-A	*Yes*	*MIN7*
YAL035W		*FUN12*
YBR201W		*DER1*
YDL027C		*MRX9*
YDL035C		*GPR1*
YDL052C		*SLC1*
YDL054C		*MCH1*
YDR177W		*UBC1*
YDL058W		*USO1*
YDR182W		*CDC1*
YDL065C		*PEX19*
YDR189W		*SLY1*
YDL072C		*YET3*
YDR196C		*CAB5*
YDL077C		*VAM6*
YDR200C		*VPS64*
YDL078C		*MDH3*
YDR205W		*MSC2*
YDL089W		*NUR1*
YDR211W		*GCD6*
YDL091C		*UBX3*

YDR216W		*ADR1*
YDL093W		*PMT5*
YDR218C		*SPR28*
YAL042W		*ERV46*
YBR205W		*KTR3*
YNL064C		*YDJ1*
YBR207W		*FTH1*
YAL010C		*MDM10*
YBR210W		*ERV15*
YAL064W-B		*YAL064W-B*
YBR214W		*SDS24*
YAL065C		*YAL065C*
YBR217W		*ATG12*
YAL067C		*SEO1*
YBR219C		*YBR219C*
YAR027W		*UIP3*
YBR220C		*YBR220C*
YAR028W		*KTD1*
YAR031W		*PRM9*
YAR033W		*MST28*
YBR222C		*PCS60*
YAR042W		*SWH1*
YBR235W		*VHC1*
YDL095W		*PMT1*
YDR229W		*IVY1*
YDL099W		*BUG1*
YDR233C		*RTN1*
YDL100C		*GET3*
YDL113C		*ATG20*
YDR238C		*SEC26*
YDL121C		*EXP1*
YDR244W		*PEX5*
YDR245W		*MNN10*
YDR246W		*TRS23*
YDL122W		*UBP1*
YDR255C		*RMD5*
YDL123W		*SNA4*
YDR256C		*CTA1*
YMR313C		*TGL3*
YDL128W		*VCX1*
YDR265W		*PEX10*
YDL133W		*SRF1*
YDR270W		*CCC2*
YAL048C		*GEM1*
YBR241C		*VVS1*
YBL001C	*Yes*	*ECM15*
YBR243C		*ALG7*

YBR254C		TRS20
YBL007C		SLA1
YBR255C-A		RCF3
YBL010C		LAA2
YBR255W		MTC4
YBL011W		SCT1
YBR264C		YPT10
YBL020W		RFT1
YBR265W		TSC10
YBL037W		APL3
YBR273C		UBX7
YBL039W-B	Yes	MIN6
YBR283C		SSH1
YBL041W		PRE7
YBL042C		FUI1
YBR287W		YBR287W
YBL047C		EDE1
YBR288C		APM3
YDL135C		RDI1
YDR275W		TLD1
YDL137W		ARF2
YDR276C	Yes	PMP3
YDL138W		RGT2
YDR281C	Yes	PHM6
YDL142C		CRD1
YDR284C		DPP1
YDL145C		COP1
YDR292C		SRP101
YDL146W		LDB17
YDR294C		DPL1
YDL149W		ATG9
YDL161W		ENT1
YDR302W		GPI11
YDL180W		AIT1
YDR307W		PMT7
YDR319C		YFT2
YDL193W		NUS1
YDR320C		SWA2
YDL194W		SNF3
YDR323C		PEP7
YBL050W		SEC17
YBR290W		BSD2
YBL058W		SHP1
YBR293W		VBA2
YBL059W		IAI11
YBL061C		SKT5
YBL069W		AST1

YBL078C		ATG8
YBR294W		SUL1
YBL082C		ALG3
YKL176C		LST4
YBL089W		AVT5
YBR296C		PHO89
YBL091C-A		SCS22
YBR298C		MAL31
YBR301W		PAU24
YBL101C		ECM21
YBR302C		COS2
YBL102W		SFT2
YCL001W		RER1
YDL195W		SEC31
YDR326C		YSP2
YDL199C		YDL199C
YDR329C		PEX3
YDL204W		RTN2
YDR338C		YDR338C
YDL206W		YCX1
YDR342C		HXT7
YDR343C		HXT6
YDL211C		YDL211C
YDR345C		HXT3
YDL212W		SHR3
YDR351W		SBE2
YDL222C		FMP45
YGL169W		SUA5
YDL225W		SHS1
YDR356W		SPC110
YDL226C		GCS1
YDR358W		GGA1
YDL231C		BRE4
YDR366C		MOR1
YDR367W		KEI1
YBL105C		PKC1
YCL002C		YCL002C
YBL106C		SRO77
YBR002C		RER2
YBR004C		GPI18
YCL008C		STP22
YBR005W		RCR1
YCL025C		AGP1
YBR008C		FLR1
YCL027W		FUS1
YBR021W		FUR4
YCL034W		LSB5

YCL038C		ATG22
YBR023C		CHS3
YGL219C		MDM34
YBR029C		CDS1
YCL052C		PBN1
YBR036C		CSG2
YCL055W		KAR4
YDL234C		GYP7
YDR371W		CTS2
YDL241W		YDL241W
YDL241W		YDL241W
YDL245C		HXT15
YDR373W		FRQ1
YDL247W		MPH2
YDR380W		ARO10
YDL248W		COS7
YDR384C		ATO3
YDR003W		RCR2
YNL026W		SAM50
YDR011W		SNQ2
YDR387C		CIN10
YDR018C		MLG1
YDR388W		RVS167
YDR022C		ATG31
YDR406W		PDR15
YDR027C		VPS54
YDR407C		TRS120
YDR033W		MRH1
YDR410C		STE14
YDR034C-A	Yes	YDR034C-A
YDR411C		DFM1
YBR038W		CHS2
YCL056C		PEX34
YBR040W		FIG1
YCL058C		FYV5
YBR041W		FAT1
YCL063W		VAC17
YBR042C		CST26
YCL069W		VBA3
YBR043C		QDR3
YCL073C		GEX1
YBR054W		YRO2
YCR002C		CDC10
YBR056W		MRX18
YCR004C		YCP4
YBR058C-A	Yes	TSC3
YCR005C		CIT2
YBR059C		AKL1

YCR007C		*DFP3*
YNL055c		*POR1*
YCR009C		*RVS161*
YBR068C		*BAP2*
YCR010C		*ADY2*
YBR069C		*TAT1*
YCR017C		*CWH43*
YDR034W-B	*Yes*	*CPP3*
YGL010W		*MPO1*
YDR038C		*ENA5*
YDR424C	*Yes*	*DYN2*
YDR434W		*GPI17*
YDR039C		*ENA2*
YDR437W		*GPI19*
YDR040C		*ENA1*
YDR046C		*BAP3*
YBR180W		*DTR1*
YBR179c		*FZO1*
YDR438W		*THI74*
YDR062W		*LCB2*
YDR452W		*PPN1*
YDR069C		*DOA4*
YDR456W		*NHX1*
YDR072C		*IPT1*
YDR458C		*HEH2*
YDR080W		*VPS41*
YDR459C		*PFA5*
YBR070C		*ALG14*
YCR021C		*HSP30*
YBR074W		*PFF1*
YBR077C		*SLM4*
YCL021W-A		*YCL021W-A*
YGR049W		*SCM4*
YCR024C-B	*Yes*	*YCR024C-B*
YBR080C		*SEC18*
YCR026C		*NPP1*
YBR090C		*YBR090C*
YCR027C		*RHB1*
YBR230C		*OM14*
YCR028C		*FEN2*
YBR096W		*YBR096W*
YBR097W		*VPS15*
YCR037C		*PHO87*
YBR102C		*EXO84*
YCR043C		*YCR043C*
YBR105C		*VID24*
YCR048W		*ARE1*

YBR106W		*SND3*
YCR067C		*SED4*
YDR084C		*TVP23*
YDR461W	*Yes*	*MFA1*
YDR086C	*Yes*	*SSS1*
YDR468C		*TLG1*
YDR089W		*VTC5*
YDR472W		*TRS31*
YDR090C		*ILT1*
YDR476C		*YDR476C*
YDR093W		*DNF2*
YDR479C		*PEX29*
YDR100W		*TVP15*
YDR481C		*PHO8*
YDR105C		*TMS1*
YDR483W		*KRE2*
YDR108W		*TRS85*
YDR484W		*VPS52*
YDR490C		*PKH1*
YDR492W		*IZH1*
YDR495C		*VPS3*
YDR497C		*ITR1*
YBR109C		*CMD1*
YCR068W		*ATG15*
YCR075C		*ERS1*
YGR217W		*CCH1*
YBR110W		*ALG1*
YCR094W		*CDC50*
YBR126W-A	*Yes*	*MEO1*
YCR098C		*GIT1*
YBR127C		*VMA2*
YDL001W		*RMD1*
YBR128C		*ATG14*
YDL009C	*Yes*	*YDL009C*
YBR131W		*CCZ1*
YDL012C	*Yes*	*YDL012C*
YBR132C		*AGP2*
YDL015C		*TSC13*
YBR147W		*RTC2*
YDL019C		*OSH2*
YBR150C		*TBS1*
YDL022C-A	*Yes*	*YDL022C-A*
YDR119W		*VBA4*
YDR498C		*SEC20*
YDR126W		*SWF1*
YDR503C		*LPP1*
YDR135C		*YCF1*

YDR504C		*SPG3*
YDR137W		*RGP1*
YDR508C		*GNP1*
YDR141C		*DOP1*
YDR513W		*GRX2*
YDR142C		*PEX7*
YDR522C		*SPS2*
YDR153C		*ENT5*
YDR524C		*AGE1*
YDR160W		*SSY1*
YDR525W-A	*Yes*	*SNA2*
YDR164C		*SEC1*
YDR536W		*STL1*
YDR166C		*SEC5*
YEL013W		*VAC8*
YDR170C		*SEC7*
YEL016C		*NPP2*
YEL017C-A	*Yes*	*PMP2*
YEL017W		*GTT3*
YGL037C		*PNC1*
YEL020C		*PXP1*
YGL038C		*OCH1*
YEL022W		*GEA2*
YGL041C-B	*Yes*	*YGL041C-B*
YEL025C		*YEL025C*
YGL045W		*RIM8*
YEL027W		*VMA3*
YGL047W		*ALG13*
YEL031W		*SPF1*
YGL051W		*MST27*
YEL033W		*MTC7*
YGL053W		*PRM8*
YEL036C		*ANP1*
YGL054C		*ERV14*
YEL048C		*TCA17*
YGL055W		*OLE1*
YGL065C		*ALG2*
YGL067W		*NPY1*
YGL075C		*MPS2*
YGR149W		*GPC1*
YGR152C		*RSR1*
YGR154C		*GTO1*
YHR175W		*CTR2*
YGR157W		*CHO2*
YHR175W-A	*Yes*	*YHR175W-A*
YGR163W		*GTR2*
YHR176W		*FMO1*

YGR166W		*TRS65*
YHR181W		*SVP26*
YGR167W		*CLC1*
YHR186C		*KOG1*
YGR168C		*PEX35*
YHR190W		*ERG9*
YHR192W		*LNP1*
YGR175C		*ERG1*
YGR177C		*ATF2*
YHR213W-A	*Yes*	*YHR213W-A*
YGL077C		*HNM1*
YEL069C		*HXT13*
YGL082W		*YGL082W*
YER001W		*MNN1*
YGL083W		*SCY1*
YGL084C		*GUP1*
YER006W		*NUG1*
YGL095C		*VPS45*
YER008C		*SEC3*
YGL098W		*USE1*
YER014W		*HEM14*
YGL099W		*LSG1*
YER015W		*FAA2*
YGL104C		*VPS73*
YOR180C		*DCI1*
YER019W		*ISC1*
YER020W		*GPA2*
YGL108C		*YGL108C*
YER025W		*GCD11*
YGL114W		*YGL114W*
YGR192C		*TDH3*
YHR214C-D	*Yes*	*YHR214C-D*
YGR197C		*SNG1*
YHR214C-E	*Yes*	*YHR214C-E*
YGR198W		*YPP1*
YIL004C		*BET1*
YGR199W		*PMT6*
YIL009C-A		*EST3*
YGR202C		*PCT1*
YIL013C		*PDR11*
YIL016W		*SNL1*
YIL023C		*YKE4*
YIL029C		*EMA17*
YGR213C		*RTA1*
YIL030C		*SSM4*
YGR216C		*GPI1*
YIL037C		*PRM2*

YGR221C		*TOS2*
YIL039W		*TED1*
YGR223C		*HSV2*
YIL040W		*APQ12*
YGL115W		*SNF4*
YER031C		*YPT31*
YNL130C		*CPT1*
YER039C		*HVG1*
YGL137W		*SEC27*
YER039C-A	*Yes*	*YER039C-A*
YGL140C		*YGL140C*
YER044C		*ERG28*
YGL142C		*GPI10*
YER053C-A	*Yes*	*YER053C-A*
YGL145W		*TIP20*
YER056C		*FCY2*
YGL146C		*RRT6*
YER060W		*FCY21*
YGL153W		*PEX14*
YER060W-A		*FCY22*
YER072W		*VTC1*
YGL160W		*AIM14*
YOR165W		*SEY1*
YGL161C		*YIP5*
YGR224W		*AZR1*
YIL041W		*GVP36*
YGR227W		*DIE2*
YIL043C		*CBR1*
YGR233C		*PHO81*
YIL044C		*AGE2*
YGR236C	*Yes*	*SPG1*
YIL046W-A	*Yes*	*YIL046W-A*
YGR239C		*PEX21*
YIL047C		*SYG1*
YGR241C		*YAP1802*
YIL048W		*NEO1*
YGR247W		*CPD1*
YIL049W		*DFG10*
YGR254W		*ENO1*
YIL067C		*YIL067C*
YGR260W		*TNA1*
YIL068C		*SEC6*
YGR261C		*APL6*
YIL076W		*SEC28*
YGR263C		*SAY1*
YIL085C		*KTR7*
YGR270W		*YTA7*

YIL088C		*AVT7*
YER083C		*GET2*
YGL167C		*PMR1*
YER087C-B	*Yes*	*SBH1*
YGL168W		*HUR1*
YER093C		*TSC11*
YER093C-A		*AIM11*
YER094C		*PUP3*
YER100W		*UBC6*
YGL180W		*ATG1*
YER118C		*SHO1*
YGL184C		*STR3*
YER119C		*AVT6*
YGL186C		*TPN1*
YER120W		*SCS2*
YGL194C-A	*Yes*	*YGL194C-A*
YER122C		*GLO3*
YGL198W		*YIP4*
YER123W		*YCK3*
YGL204C	*Yes*	*YGL204C*
YER125W		*RSP5*
YGL205W		*POX1*
YGR281W		*YOR1*
YIL089W		*YIL089W*
YGR284C		*ERV29*
YIL090W		*ICE2*
YGR289C		*MAL11*
YIL095W		*PRK1*
YNL070W	*Yes*	*TOM7*
YIL102C-A	*Yes*	*YIL102C-A*
YGR295C		*COS6*
YIL105C		*SLM1*
YHL002W		*HSE1*
YIL109C		*SEC24*
YHL003C		*LAG1*
YIL117C		*PRM5*
YHL008C		*YHL008C*
YIL120W		*QDR1*
YHL016C		*DUR3*
YHL019C		*APM2*
YIL124W		*AYR1*
YHL020C		*OPI1*
YIL134C-A	*Yes*	*YIL134C-A*
YHL026C		*YHL026C*
YIL134W		*FLX1*
YER129W		*SAK1*
YGL206C		*CHC1*

Journal of Cell Science • Supplementary information

YER140W		*EMP65*
YGL210W		*YPT32*
YER145C		*FTR1*
YGL212W		*VAM7*
YER151C		*UBP3*
YGL223C		*COG1*
YER157W		*COG3*
YGL225W		*VRG4*
YER166W		*DNF1*
YER184C		*TOG1*
YGL230C		*YGL230C*
YGL231C		*EMC4*
YGL233W		*SEC15*
YER185W		*PUG1*
YGL247W		*BRR6*
YFL004W		*VTC2*
YGL255W		*ZRT1*
YFL005W		*SEC4*
YGL257C		*MNT2*
YHL031C		*GOS1*
YIL147C		*SLN1*
YHL035C		*VMR1*
YIL158W		*AIM20*
YHL036W		*MUP3*
YIL160C		*POT1*
YIL166C		*SOA1*
YHL043W		*ECM34*
YIR004W		*DJP1*
YHL044W		*DFP4*
YHL047C		*ARN2*
YIR006C		*PAN1*
YHL048W		*COS8*
YIR007W		*EGH1*
YHR001W		*OSH7*
YIR014W		*VLD1*
YHR004C		*NEM1*
YIR020C	*Yes*	*YIR020C*
YHR007C		*ERG11*
YIR028W		*DAL4*
YHR007C-A	*Yes*	*YHR007C-A*
YIR031C		*DAL7*
YFL011W		*HXT10*
YGL263W		*COS12*
YFL025C		*BST1*
YGR004W		*PEX31*
YFL026W		*STE2*
YGR009C		*SEC9*

YFL030W		*AGX1*
YGR016W		*YGR016W*
YFL034W		*MIL1*
YFL037W		*TUB2*
YGR026W		*YGR026W*
YFL038C		*YPT1*
YGR031C-A		*NAG1*
YNL044W		*YIP3*
YGR032W		*GSC2*
YFL040W		*YFL040W*
YGR036C		*CAX4*
YFL042C		*LAM5*
YGR037C	*Yes*	*ACB1*
YGR038W		*ORM1*
YFL050C		*ALR2*
YGR041W		*BUD9*
YHR016C		*YSC84*
YIR032C		*DAL3*
YHR021W-A		*ECM12*
YIR033W		*MGA2*
YIR034C		*LYS1*
YHR028C		*DAP2*
YIR037W		*HYR1*
YHR030C		*SLT2*
YHR032W		*ERC1*
YHR036W		*BRL1*
YNL058C		*YNL058C*
YHR039C		*MSC7*
YIR038C		*GTT1*
YHR039C-A		*VMA10*
YJR117W		*STE24*
YHR048W		*YHK8*
YJL005W		*CYR1*
YJL012C		*VTC4*
YHR053C	*Yes*	*CUP1-1*
YFL054C		*AQY3*
YGR048W		*UFD1*
YFL055W		*AGP3*
YGR055W		*MUP1*
YFL062W		*COS4*
YGR057C		*LST7*
YFL066C		*YFL066C*
YGR058W		*PEF1*
YFL068W		*YFL068W*
YGR059W		*SPR3*
YOR103C		*OST2*
YFR006W		*YFR006W*

YGR065C		*VHT1*
YFR008W		*FAR7*
YGR068C		*ART5*
YML123C		*PHO84*
YGR077C		*PEX8*
YFR021W		*ATG18*
YGR083C		*GCD2*
YFR022W		*ROG3*
YGR086C		*PIL1*
YFR032C-B	*Yes*	*MIN10*
YGR089W		*NNF2*
YHR055C	*Yes*	*CUP1-2*
YJL024C		*APS3*
YHR060W		*VMA22*
YJL028W		*YJL028W*
YHR072W		*ERG7*
YJL029C		*VPS53*
YHR073W		*OSH3*
YJL031C		*BET4*
YHR092C		*HXT4*
YJL036W		*SNX4*
YHR094C		*HXT1*
YJL038C		*LOH1*
YHR096C		*HXT5*
YJL044C		*GYP6*
YHR107C		*CDC12*
YJL052W		*TDH1*
YJL058C		*BIT61*
YJL059W		*YHC3*
YHR108W		*GGA2*
YJL077C		*ICS3*
YFR035C		*YFR035C*
YGR105W	*Yes*	*VMA21*
YGR120C		*COG2*
YGR125W		*VSB1*
YFR042W		*KEG1*
YGL008C		*PMA1*
YFR048W		*RMD8*
YGR131W		*FHN1*
YFR051C		*RET2*
YGR133W		*PEX4*
YGL001C		*ERG26*
YGR134W		*CAF130*
YGL005C		*COG7*
YGR138C		*TPO2*
YGL006W		*PMC1*
YGR141W		*VPS62*

Journal of Cell Science • Supplementary information

YGL012W		*ERG4*
YGR143W		*SKN1*
YGL022W		*STT3*
YGR144W		*THI4*
YHR114W		*BZZ1*
YJL080C		*SCP160*
YHR123W		*EPT1*
YJL084C		*ALY2*
YHR131C		*YHR131C*
YJL085W		*EXO70*
YHR133C		*NSG1*
YJL093C		*TOK1*
YHR135C		*YCK1*
YJL094C		*KHA1*
YHR142W		*CHS7*
YJL095W		*BCK1*
YHR149C		*SKG6*
YJL097W		*PHS1*
YHR150W		*PEX28*
YJL099W		*CHS6*
YHR155W		*LAM1*
YJL100W		*LSB6*
YHR160C		*PEX18*
YJL108C		*PRM10*
YHR161C		*YAP1801*
YJL112W		*MDV1*
YHR171W		*ATG7*
YJL117W		*PHO86*
YJL123C		*MTC1*
YKL146W		*AVT3*
YJL127C-B	*Yes*	*MCO6*
YKL157W		*APE2*
YJL129C		*TRK1*
YKL165C		*MCD4*
YKL173W		*SNU114*
YJL139C		*YUR1*
YKL174C		*TPO5*
YJL145W		*SFH5*
YKL175W		*ZRT3*
YJL091C		*GWT1*
YKL178C		*STE3*
YNL131w		*TOM22*
YKL179C		*COY1*
YJL163C		*YJL163C*
YKL183C-A	*Yes*	*YKL183C-A*
YBR086C		*IST2*
YKL187C		*FAT3*

YJL170C		*ASG7*
YKL188C		*PXA2*
YJL172W		*CPS1*
YKL196C		*YKT6*
YLR081W		*GAL2*
YLR088W		*GAA1*
YLR092W		*SUL2*
YML047C		*PRM6*
YLR093C		*NYV1*
YML048W		*GSF2*
YLR100W		*ERG27*
YML052W		*SUR7*
YLR109W		*AHP1*
YML054C		*CYB2*
YLR114C		*AVL9*
YML055W		*SPC2*
YLR119W		*SRN2*
YML059C		*NTE1*
YOL009C		*MDM12*
YML064C		*TEM1*
YLR130C		*ZRT2*
YLR138W		*NHA1*
YML067C		*ERV41*
YJL183W		*MNN11*
YJL185C		*ATG36*
YMR134W		*ERG29*
YJL193W		*YJL193W*
YDR517W		*GRH1*
YJL194W		*CDC6*
YMR029C		*FAR8*
YJL196C		*ELO1*
YKL209C		*STE6*
YJL198W		*PHO90*
YJL204C		*RCY1*
YKL217W		*JEN1*
YJL205C	*Yes*	*NCE101*
YKL219W		*COS9*
YJL207C		*LAA1*
YJL210W		*PEX2*
YJL212C		*OPT1*
YKL221W		*MCH2*
YJL214W		*HXT8*
YKR001C		*VPS1*
YLR145W		*RMP1*
YML071C		*COG8*
YLR148W		*PEP3*
YJL001W		*PRE3*

YLR151C		*PCD1*
YML075C		*HMG1*
YLR152C		*YLR152C*
YML077W		*BET5*
YLR154C-G	*Yes*	*YLR154C-G*
YML081W		*TDA9*
YML085C		*TUB1*
YML087C		*AIM33*
YLR166C		*SEC10*
YML097C		*VPS9*
YLR170C		*APS1*
YML101C		*CUE4*
YLR173W		*TAG1*
YML104C		*MDM1*
YLR191W		*PEX13*
YML115C		*VAN1*
YLR206W		*ENT2*
YML116W		*ATR1*
YJL219W		*HXT9*
YKR007W		*MEH1*
YOL026c		*MIM1*
YKR009C		*FOX2*
YKR014C		*YPT52*
YJR001W		*AVT1*
YKR020W		*VPS51*
YJR005W		*APL1*
YKR021W		*ALY1*
YJR009C		*TDH2*
YKR022C		*NTR2*
YJR010C-A	*Yes*	*SPC1*
YKR026C		*GCN3*
YJR013W		*GPI14*
YKR027W		*BCH2*
YJR015W		*YJR015W*
YKR030W		*GMH1*
YJR019C		*TES1*
YJR031C		*GEA1*
YKR036C		*CAF4*
YJR040W		*GEF1*
YKR039W		*GAP1*
YLR208W		*SEC13*
YLR212C		*TUB4*
YML121W		*GTR1*
YLR220W		*CCC1*
YML124C		*TUB3*
YLR229C		*CDC42*
YML125C		*PGA3*

YLR237W		*THI7*
YML131W		*YML131W*
YLR238W		*FAR10*
YML132W		*COS3*
YLR240W		*VPS34*
YMR010W		*ANY1*
YLR241W		*CSC1*
YMR011W		*HXT2*
YLR242C		*ARV1*
YMR013C		*SEC59*
YMR015C		*ERG5*
YLR251W		*SYM1*
YMR018W		*PEX9*
YLR260W		*LCB5*
YMR019W		*STB4*
YKR046C		*PLN1*
YJR044C		*VPS55*
YKR050W		*TRK2*
YJR054W		*KCH1*
YJR058C		*APS2*
YJR066W		*TOR1*
YJR072C		*NPA3*
YKR051W		*HFL1*
YJR073C		*OPI3*
YKR053C		*YSR3*
YJR076C		*CDC11*
YKR055W		*RHO4*
YJR086W		*STE18*
YKR067W		*GPT2*
YJR088C		*EMC2*
YKR068C		*BET3*
YJR102C		*VPS25*
YKR084C		*HBS1*
YJR106W		*ECM27*
YKR088C		*TVP38*
YLR262C		*YPT6*
YMR022W		*UBC7*
YLR265C		*NEJ1*
YMR023C		*MSS1*
YLR268W		*SEC22*
YMR026C		*PEX12*
YLR284C		*ECI1*
YMR030W-A	*Yes*	*YMR030W-A*
YLR099W-A	*Yes*	*MIM2*
YMR031C		*EIS1*
YLR289W		*GUF1*
YMR034C		*RCH1*

YLR291C		*GCD7*
YMR040W		*YET2*
YLR292C		*SEC72*
YMR042W		*ARG80*
YLR297W		*YLR297W*
YMR052W		*FAR3*
YLR299W		*ECM38*
YMR054W		*STV1*
YLR301W		*HRI1*
YMR063W		*RIM9*
YHR027C		*RPN1*
YKR089C		*TGL4*
YJR112W-A	*Yes*	*YJR112W-A*
YKR093W		*PTR2*
YJR116W		*TDA4*
YHL030W		*ECM29*
YJR124C		*YJR124C*
YKR103W		*NFT1*
YJR125C		*ENT3*
YKR105C		*VBA5*
YJR126C		*VPS70*
YKR106W		*GEX2*
YFR050C		*PRE4*
YLL001W		*DNM1*
YLL005C		*SPO75*
YLL006W		*MMM1*
YJR134C		*SGM1*
YLL006W-A	*Yes*	*YLL006W-A*
YJR143C		*PMT4*
YLL010C		*PSR1*
YJR152W		*DAL5*
YLL012W		*YEH1*
YLR309C		*IMH1*
YMR065W		*KAR5*
YLR314C		*CDC3*
YMR068W		*AVO2*
YLR324W		*PEX30*
YMR071C		*TVP18*
YLR326W		*YLR326W*
YLR330W		*CHS5*
YMR079W		*SEC14*
YLR337C		*VRP1*
YLR342W		*FKS1*
YMR086W		*SEG1*
YLR342W-A	*Yes*	*YLR342W-A*
YMR088C		*VBA1*
YLR353W		*BUD8*

YMR101C		*SRT1*
YLR356W		*ATG33*
YMR109W		*MYO5*
YLR360W		*VPS38*
YMR110C		*HFD1*
YIL065c		*FIS1*
YLL014W	*Yes*	*EMC6*
YJR158W		*HXT16*
YLL015W		*BPT1*
YJR160C		*MPH3*
YLL023C		*POM33*
YKL002W		*DID4*
YKL004W		*AUR1*
YLL028W		*TPO1*
YKL006C-A	*Yes*	*SFT1*
YLL031C		*GPI13*
YKL008C		*LAC1*
YLL038C		*ENT4*
YKL015W		*PUT3*
YLL042C		*ATG10*
YKL020C		*SPT23*
YLL043W		*FPS1*
YOR322C		*LDB19*
YLL048C		*YBT1*
YKL026C		*GPX1*
YLL052C		*AQY2*
YLL055W		*YCT1*
YLR361C		*DCR2*
YMR118C		*SHH3*
YLR368W		*MDM30*
YMR119W		*ASI1*
YMR123W		*PKR1*
YLR371W		*ROM2*
YMR129W		*POM152*
YLR372W		*ELO3*
YLR376C		*PSY3*
YLR378C		*SEC61*
YCR032W		*BPH1*
YLR380W		*CSR1*
YMR148W		*LDO16*
YLR389C		*STE23*
YMR152W		*YIM1*
YOR045w	*Yes*	*TOM6*
YMR155W		*YMR155W*
YLR396C		*VPS33*
YAL040C		*CLN3*
YGL181W		*GTS1*

YMR159C		*ATG16*
YKL041W		*VPS24*
YLL061W		*MMP1*
YKL044W	*Yes*	*MMO1*
YLR004C		*THI73*
YKL047W		*ANR2*
YLR018C		*POM34*
YLR019W		*PSR2*
YKL063C		*YKL063C*
YLR020C		*YEH2*
YKL064W		*MNR2*
YLR023C		*IZH3*
YKL065C		*YET1*
YKL065W-A	*Yes*	*DPC7*
YLR026C		*SED5*
YKL069W		*YKL069W*
YLR027C		*AAT2*
YKL080W		*VMA5*
YLR034C		*SMF3*
YKL094W		*YJU3*
YJL039C		*NUP192*
YKL096C-B	*Yes*	*YKL096C-B*
YLR039C		*RIC1*
YLR411W		*CTR3*
YLR417W		*VPS36*
YMR162C		*DNF3*
YLR423C		*ATG17*
YMR163C		*INP2*
YLR426W		*TDA5*
YMR165C		*PAH1*
YLR440C		*SEC39*
YMR173W		*DDR48*
YLR443W		*ECM7*
YMR183C		*SSO2*
YLR447C		*VMA6*
YMR187C		*YMR187C*
YLR450W		*HMG2*
YMR192W		*GYL1*
YMR197C		*VTI1*
YMR198W		*CIK1*
YMR202W		*ERG2*
YMR204C		*INP1*
YOR228C		*MCP1*
YLR043C	*Yes*	*TRX1*
YLR046C		*YLR046C*
YLR047C		*FRE8*
YMR017W		*SPO20*

YLR050C		*EMA19*
YKL105C		*SEG2*
YLR056W		*ERG3*
YKL119C		*VPH2*
YLR057W		*MNL2*
YKL124W		*SSH4*
YLR064W		*PER33*
YKL129C		*MYO3*
YLR065C		*SND2*
YKL130C		*SHE2*
YLR066W		*SPC3*
YKL133C		*RCI50*
YLR072W		*LAM6*
YKL135C		*APL2*
YLR078C		*BOS1*
YLR080W		*EMP46*
YML001W		*YPT7*
YMR208W		*ERG12*
YML006C		*GIS4*
YMR212C		*EFR3*
YML008C		*ERG6*
YDL192W		*ARF1*
YML013W		*UBX2*
YMR221C		*FMP42*
YML018C		*YML018C*
YMR231W		*PEP5*
YML019W		*OST6*
YMR232W		*FUS2*
YML028W		*TSA1*
YMR237W		*BCH1*
YML029W		*USA1*
YMR243C		*ZRC1*
YML031W		*NDC1*
YMR246W		*FAA4*
YML034W		*SRC1*
YMR253C		*YMR253C*
YML037C		*LFT1*
YMR256C	*Yes*	*COX7*
YML042W		*CAT2*
YMR258C		*ROY1*
YMR264W		*CUE1*
YNL321W		*VNX1*
YMR266W		*RSN1*
YNL323W		*LEM3*
YMR272C		*SCS7*
YNL326C		*PFA3*
YMR274C		*RCE1*

YNL329C		PEX6
YMR279C		ATR2
YNL336W		COS1
YMR281W		GPI12
YNR002C		ATO2
YMR292W		GOT1
YNR006W		VPS27
YMR296C		LCB1
YNR007C		ATG3
YMR298W		LIP1
YNR008W		LRO1
YMR304W		UBP15
YIL114C		POR2
YNR019W		ARE2
YOR084W		LPX1
YOR086C		TCB1
YOR087W		YVC1
YOR089C		VPS21
YPL098C		MGR2
YOR092W		ECM3
YPL099C		INA17
YOR093C		CMR2
YPL100W		ATG21
YOR094W		ARF3
YPL112C		PEX25
YPL117C		IDI1
YOR099W		KTR1
YPL119C-A	Yes	YPL119C-A
YOR101W		RAS1
YPL120W		VPS30
YOR104W		PIN2
YPL123C		RNY1
YOR106W		VAM3
YPL137C		GIP3
YMR306W		FKS3
YNR021W		YNR021W
YMR319C		FET4
YNR026C		SEC12
YNL006W		LST8
YNR030W		ALG12
YNL008C		ASI3
YNL009W		IDP3
YNR039C		ZRG17
YNL015W	Yes	PBI2
YNR048W		YNR048W
YNL020C		ARK1
YNR049C		MSO1

YMR060C		*SAM37*
YNR051C		*BRE5*
YNL029C		*KTR5*
YNL032W		*SIW14*
YNL038W		*GPI15*
YNL041C		*COG6*
YOR115C		*TRS33*
YPL140C		*MKK2*
YOR149C		*SMP3*
YPL145C		*KES1*
YOR153W		*PDR5*
YPL147W		*PXA1*
YOR157C		*PUP1*
YPL149W		*ATG5*
YOR161C		*PNS1*
YPL156C		*PRM4*
YPL162C		*YPL162C*
YPR133W-A	*Yes*	*TOM5*
YOR161C-C	*Yes*	*YOR161C-C*
YPL166W		*ATG29*
YOR171C		*LCB4*
YPL175W		*SPT14*
YOR175C		*ALE1*
YPL176C		*TRE1*
YOR178C		*GAC1*
YPL180W		*TCO89*
YOR183W		*FYV12*
YPL186C		*UIP4*
YNL046W		*YNL046W*
YNL047C		*SLM2*
YNR062C		*PUL3*
YNR065C		*YNR065C*
YNL048W		*ALG11*
YNR070W		*PDR18*
YNL049C		*SFB2*
YNR072W		*HXT17*
YNL051W		*COG5*
YNR075W		*COS10*
YNL054W		*VAC7*
YOL002C		*IZH2*
YNL065W		*AQR1*
YOL003C		*PFA4*
YNL074C		*MLF3*
YNL080C		*EOS1*
YNL084C		*END3*
YOL018C		*TLG2*
YNL087W		*TCB2*

YOL019W		*TOS7*
YOR185C		*GSP2*
YPL191C		*MIY2*
YOR186W		*YOR186W*
YPL192C		*PRM3*
YPL195W		*APL5*
YOR192C		*THI72*
YPL199C		*YPL199C*
YOR193W		*PEX27*
YOR216C		*RUD3*
YPL204W		*HRR25*
YOR219C		*STE13*
YOR223W		*DSC3*
YPL227C		*ALG5*
YOR237W		*HES1*
YPL231W		*FAS2*
YOR241W		*MET7*
YPL232W		*SSO1*
YOR242C		*SSP2*
YPL236C		*ENV7*
YNL090W		*RHO2*
YOL020W		*TAT2*
YNL093W		*YPT53*
YNL095C		*YNL095C*
YNL098C		*RAS2*
YNL111C		*CYB5*
YOL044W		*PEX15*
YNL115C		*YNL115C*
YOL047C		*LDS2*
YNL117W		*MLS1*
YOL048C		*RRT8*
YNL125C		*ESBP6*
YOL053W		*AIM39*
YOL060C		*MAM3*
YNL142W		*MEP2*
YOL062C		*APM4*
YNL143C		*YNL143C*
YOL065C		*INP54*
YOR245C		*DGA1*
YPL244C		*HUT1*
YOR246C		*ENV9*
YPL246C		*RBD2*
YPL249C		*GYP5*
YOR260W		*GCD1*
YPL259C		*APM1*
YOR268C		*YOR268C*
YPL264C		*YPL264C*

YOR270C		VPH1
YPL265W		DIP5
YOR271C		FSF1
YPL274W		SAM3
YOR273C		TPO4
YPL279C		FEX2
YPR003C		YPR003C
YOR291W		YPK9
YPR010C-A	Yes	MRA1
YOR292C		YOR292C
YOR298W		MUM3
YPR026W		ATH1
YOL073C		DSC2
YNL144C		YNL144C
YOL075C		YOL075C
YNL145W	Yes	MFA2
YOL078W		AVO1
YNL146W	Yes	YNL146W
YOL081W		IRA2
YOL082W		ATG19
YNL154C		YCK2
YOL083W		ATG34
YNL156C		NSG2
YOL084W		PHM7
YOL092W		YPQ1
YOL100W		PKH2
YNL159C		ASI2
YOL101C		IZH4
YHR174W		ENO2
YOL103W		ITR2
YNL163C		RIA1
YOL107W		YOL107W
YOR299W		BUD7
YPR028W		YOP1
YOR301W		RAX1
YPR029C		APL4
YOR133W		EFT1
YPR030W		CSR2
YOR307C		SLY41
YPR032W		SRO7
YOR311C		DGK1
YPR036W		VMA13
YOR316C		COT1
YOR317W		FAA1
YPR037C		ERV2
YDR385W		EFT2
YPR049C		ATG11

YOR321W		*PMT3*
YOR324C		*FRT1*
YPR063C		*YPR063C*
YPR071W		*YPR071W*
YOR327C		*SNC2*
YPR075C		*OPY2*
YNL176C		*TDA7*
YOL110W		*SHR5*
YNL180C		*RHO5*
YOL119C		*MCH4*
YNL181W		*PBR1*
YOL122C		*SMF1*
YNL183C		*NPR1*
YOL126C		*MDH2*
YNL188W		*KAR1*
YHR005C		*GPA1*
YNL192W		*CHS1*
YOL130W		*ALR1*
YNL194C		*YNL194C*
YOL138C		*RTC1*
YNL202W		*SPS19*
YOL147C		*PEX11*
YNL214W		*PEX17*
YOL152W		*FRE7*
YNL217W		*PPN2*
YOL156W		*HXT11*
YOL158C		*ENB1*
YNL227C		*JJJ1*
YOL162W		*YOL162W*
YOR328W		*PDR10*
YPR079W		*MRL1*
YOR329C		*SCD5*
YPR088C		*SRP54*
YPR091C		*NVJ2*
YOR332W		*VMA4*
YPR095C		*SYT1*
YOR348C		*PUT4*
YOR357C		*SNX3*
YOR370C		*MRS6*
YHR083W		*SAM35*
YOR377W		*ATF1*
YPR103W		*PRE2*
YOR378W		*AMF1*
YPR105C		*COG4*
YOR390W		*FEX1*
YPR109W		*GLD1*
YOR394W		*PAU21*

YPR113W		*PIS1*
YOL137W		*BSC6*
YPR114W		*YPR114W*
YNL231C		*PDR16*
YNL234W		*YNL234W*
YOL164W-A	*Yes*	*YOL164W-A*
YNL242W		*ATG2*
YNR056C		*BIO5*
YNL243W		*SLA2*
YOR002W		*ALG6*
YNL257C		*SIP3*
YGR191W		*HIP1*
YNL258C		*DSL1*
YOR011W		*AUS1*
YNL263C		*YIF1*
YOR018W		*ROD1*
YOR030W		*DFG16*
YNL268W		*LYP1*
YOR032W-A	*Yes*	*YOR032W-A*
YOR034C		*AKR2*
YNL272C		*SEC2*
YOR036W		*PEP12*
YOR043W		*WHI2*
YPL004C		*LSP1*
YPR117W		*HOB2*
YPL010W		*RET3*
YPL019C		*VTC3*
YPR128C		*ANT1*
YPL032C		*SVL3*
YPR138C		*MEP3*
YPL036W		*PMA2*
YPR139C		*LOA1*
YPL041C		*MRX11*
YPR140W		*TAZ1*
YPL045W		*VPS16*
YPR141C		*KAR3*
YPL050C		*MNN9*
YPR147C		*YPR147C*
YPR149W		*NCE102*
YPR153W		*MAY24*
YPR156C		*TPO3*
YPL051W		*ARL3*
YPR159C-A	*Yes*	*YPR159C-A*
YNL279W		*PRM1*
YOR044W		*IRC23*
YOR049C		*RSB1*
YOR059C		*LPL1*

YNL280C		ERG24
YOR060C		SLD7
YNL287W		SEC21
YOR067C		ALG8
YNL293W		MSB3
YOR068C		VAM10
YNL294C		RIM21
YOR070C		GYP1
YPL234C		VMA11
YOR034C-A	Yes	YOR034C-A
YOR075W		UFE1
YNL304W		YPT11
YOR076C		SKI7
YNL305C		BXI1
YOR079C		ATX2
YNL318C		HXT14
YOR081C		TGL5
YPL053C		KTR6
YPR159W		KRE6
YPL057C		SUR1
YPR165W		RHO1
YPL058C		PDR12
YPR170W-B	Yes	YPR170W-B
YPL065W		VPS28
YPR173C		VPS4
YPL070W		MUK1
YPR176C		BET2
YPL076W		GPI2
YPR181C		SEC23
YPL084W		BRO1
YPR183W		DPM1
YPL085W		SEC16
YPR185W		ATG13
YPL087W		YDC1
YPR192W		AQY1
YPL092W		SSU1
YPR194C		OPT2
YPL094C		SEC62
YPR198W		SGE1
YPL096C-A	Yes	ERI1
YPR201W		ARR3
YJR098C		YJR098C
YFL034C-A		RPL22B
YLR453C		RIF2
YKL183W		LOT5
YDL048C		STP4
YBR034C		HMT1

YPR074C		*TKL1*
YKL151C		*NNR2*
YDL197C		*ASF2*
YPL228W		*CET1*
YOL051W		*GAL11*
YMR265C		*YMR265C*
YEL041W		*YEF1*
YBL104C		*SEA4*
YKL112W		*ABF1*
YDL005C		*MED2*
YBL035C		*POL12*
YFL017W-A	*Yes*	*SMX2*
YNL086W	*Yes*	*SNN1*
YGL262W		*YGL262W*
YLR412W		*BER1*
YBR225W		*YBR225W*
YLR451W		*LEU3*
YNL097C		*PHO23*
YFL041W-A	*Yes*	*YFL041W-A*
YFL021W		*GAT1*
YBL049W		*MOH1*
YGL166W		*CUP2*
YOR131C		*YOR131C*
YFL034C-B		*MOB2*
YPL024W		*RMI1*
YJR136C		*TTI2*
YLL046C		*RNP1*
YDR068W		*DOS2*
YAL064C-A		*TDA8*
YDR132C		*MRX16*
YCR020C		*PET18*
YKR025W		*RPC37*
YNL157W		*IGO1*
YGL252C		*RTG2*
YER096W		*SHC1*
YJR017C		*ESS1*
YNL173C		*MDG1*
YPL256C		*CLN2*
YPR008W		*HAA1*
YGR061C		*ADE6*
YBR182C-A	*Yes*	*YBR182C-A*
YDR191W		*HST4*
YLR005W		*SSL1*
YLR325C	*Yes*	*RPL38*
YDL021W		*GPM2*
YDR118W		*APC4*
YNR015W		*SMM1*

YGR146C-A	Yes	YGR146C-A
YDL230W		PTP1
YML017W		PSP2
YGR251W		NOP19
YHR002W		LEU5
YMR233W		TRI1
YKR018C		YKR018C
YOR274W		MOD5
YAL027W		SAW1
YCR093W		CDC39
YDR528W		HLR1
YIL138C		TPM2
YHR177W		ROF1
YGL213C		SKI8
YKL120W		OAC1
YNR038W		DBP6
YIL105W-A	Yes	YIL105W-A
YDR451C		YHP1
YGR278W		CWC22
YJL201W		ECM25
YDR330W		UBX5
YHR049W		FSH1
YJR155W		AAD10
YER092W		IES5
YDR478W		SNM1
YOR284W		HUA2
YLR433C		CNA1
YKL072W		STB6
YMR234W		RNH1
YMR259C		TRM732
YER029C		SMB1
YPR066W		UBA3
YNL289W		PCL1
YOL068C		HST1
YOR197W		MCA1
YLR210W		CLB4
YOR359W		VTS1
YIL038C		NOT3
YBR114W		RAD16
YIL133C		RPL16A
YBR198C		TAF5
YBR211C		AME1
YIL061C		SNP1
YMR039C		SUB1
YFR043C		IRC6
YDR283C		GCN2
YLR035C		MLH2

YMR067C		*UBX4*
YDR186C		*SND1*
YGR229C		*SMI1*
YHR178W		*STB5*
YGR266W		*YGR266W*
YOL148C		*SPT20*
YFR055W		*IRC7*
YOL016C		*CMK2*
YER114C		*BOI2*
YGL025C		*PGD1*
YLL033W		*IRC19*
YDL092W		*SRP14*
YDR190C		*RVB1*
YPR073C		*LTP1*
YMR059W		*SEN15*
YLL063C		*AYT1*
YML079W		*CFF1*
YPL269W		*KAR9*
YBL016W		*FUS3*
YCL040W		*GLK1*
YOL128C		*YGK3*
YOR206W		*NOC2*
YDR466W		*PKH3*
YER051W		*JHD1*
YNL166C		*BNI5*
YFL047W		*RGD2*
YKR062W		*TFA2*
YPR072W		*NOT5*
YIL020C		*HIS6*
YBR017C		*KAP104*
YLR228C		*ECM22*
YPL038W		*MET31*
YKL033W-A		*YKL033W-A*
YMR143W		*RPS16A*
YLR045C		*STU2*
YBL009W		*ALK2*
YHL034C		*SBP1*
YDR515W		*SLF1*
YDR313C		*PIB1*
YLR015W		*BRE2*
YHR069C		*RRP4*
YJR082C		*EAF6*
YMR056C		*AAC1*
YDR104C		*SPO71*
YLR381W		*CTF3*
YGL061C		*DUO1*
YGR044C		*RME1*

YOL055C		*THI20*
YDR386W		*MUS81*
YMR138W		*CIN4*
YHR056C		*RSC30*
YIR018C-A	*Yes*	*YIR018C-A*
YLR030W		*YLR030W*
YBL005W		*PDR3*
YBR234C		*ARC40*
YHR046C		*INM1*
YOR281C		*PLP2*
YMR140W		*SIP5*
YBR056W-A	*Yes*	*MNC1*
YGL209W		*MIG2*
YNL139C		*THO2*
YDR312W		*SSF2*
YNL175C		*NOP13*
YHR099W		*TRA1*
YDL020C		*RPN4*
YNL097C-B	*Yes*	*PLS1*
YOL159C-A	*Yes*	*YOL159C-A*
YML113W		*DAT1*
YNL248C		*RPA49*
YDR364C		*CDC40*
YER104W		*RTT105*
YER170W		*ADK2*
YJR109C		*CPA2*
YKL106C-A	*Yes*	*YKL106C-A*
YHR109W		*CTM1*
YJL083W		*TAX4*
YOL019W-A	*Yes*	*YOL019W-A*
YPL115C		*BEM3*
YNL155W		*CUZ1*
YDL085C-A	*Yes*	*YDL085C-A*
YLR319C		*BUD6*
YNL232W		*CSL4*
YJR030C		*RBH2*
YBR062C		*YBR062C*
YPL193W		*RSA1*
YNL146C-A	*Yes*	*YNL146C-A*
YDR020C		*DAS2*
YML068W		*ITT1*
YPR131C		*NAT3*
YER026C		*CHO1*
YLR052W		*IES3*
YPR023C		*EAF3*
YER091C		*MET6*
YGL048C		*RPT6*

YBR154C		*RPB5*
YGR071C		*ENV11*
YLR147C	*Yes*	*SMD3*
YOR184W		*SER1*
YDR103W		*STE5*
YDR179W-A		*NVJ3*
YHR121W		*LSM12*
YDR034C		*LYS14*
YHR201C		*PPX1*
YER057C		*HMF1*
YHR097C		*PAL2*
YHL029C		*OCA5*
YPL141C		*FRK1*
YER016W		*BIM1*
YER190W		*YRF1-2*
YPL243W		*SRP68*
YBR130C		*SHE3*
YGR146C		*ECL1*
YJR005C-A	*Yes*	*LSO1*
YCL031C		*RRP7*
YLR421C		*RPN13*
YDR309C		*GIC2*
YBR129C		*OPY1*
YER174C		*GRX4*
YLR094C		*GIS3*
YAL012W		*CYS3*
YOL004W		*SIN3*
YJL042W		*MHP1*
YMR091C		*NPL6*
YOL045W		*PSK2*
YOR005C		*DNL4*
YLR431C		*ATG23*
YGL100W		*SEH1*
YCR033W		*SNT1*
YDL170W		*UGA3*
YOR296W		*YOR296W*
YOR042W		*CUE5*
YJL118W		*YJL118W*
YKL218C		*SRY1*
YCL016C		*DCC1*
YNL116W		*DMA2*
YAL001C		*TFC3*
YML004C		*GLO1*
YDR076W		*RAD55*
YJR047C		*ANB1*
YDR427W		*RPN9*
YER115C		*SPR6*

YGL208W		*SIP2*
YGL127C		*SOH1*
YDR111C		*ALT2*
YIL161W		*SMU2*
YGL105W		*ARC1*
YJL050W		*MTR4*
YIR008C		*PRI1*
YCR075W-A	*Yes*	*EGO2*
YDR243C		*PRP28*
YBR082C		*UBC4*
YBL096C	*Yes*	*YBL096C*
YBR197C		*YBR197C*
YJR063W		*RPA12*
YHR105W		*YPT35*
YMR081C		*ISF1*
YPR009W		*SUT2*
YFR019W		*FAB1*
YNL292W		*PUS4*
YNL077W		*APJ1*
YBR223C		*TDP1*
YGR006W		*PRP18*
YPL167C		*REV3*
YIR012W		*SQT1*
YPL015C		*HST2*
YLR223C		*IFH1*
YDR087C		*RRP1*
YFR005C		*SAD1*
YCR020C-A	*Yes*	*MAK31*
YLR097C		*HRT3*
YML058W-A	*Yes*	*HUG1*
YPL177C		*CUP9*
YPR112C		*MRD1*
YDR016C	*Yes*	*DAD1*
YDR500C	*Yes*	*RPL37B*
YJR022W	*Yes*	*LSM8*
YBR196C		*PGI1*
YGR256W		*GND2*
YKL189W		*HYM1*
YGL246C		*RAI1*
YNL110C		*NOP15*
YCR052W		*RSC6*
YLR272C		*YCS4*
YNL204C		*SPS18*
YDL159W-A	*Yes*	*YDL159W-A*
YDR075W		*PPH3*
YOR181W		*LAS17*
YDL045W-A	*Yes*	*MRP10*

YMR131C		*RRB1*
YGL015C		*BIL2*
YHR089C		*GAR1*
YHR140W		*YHR140W*
YDR228C		*PCF11*
YDL059C		*RAD59*
YDR501W		*PLM2*
YPL067C		*HTC1*
YHL045W		*PXP3*
YDL237W		*AIM6*
YHR047C		*AAP1*
YLR086W		*SMC4*
YMR041C		*ARA2*
YGL071W		*AFT1*
YMR028W		*TAP42*
YMR005W		*TAF4*
YGR066C		*GID10*
YHR169W		*DBP8*
YJL006C		*CTK2*
YPL066W		*RGL1*
YPL254W		*HFI1*
YCR020W-B	*Yes*	*HTL1*
YKL161C		*KDX1*
YGL080W		*MPC1*
YFL033C		*RIM15*
YMR290C		*HAS1*
YDR147W		*EKI1*
YOR069W		*VPS5*
YGL174W		*BUD13*
YGR129W		*SYF2*
YPR102C		*RPL11A*
YDR370C		*DXO1*
YER078W-A	*Yes*	*YER078W-A*
YHR052W		*CIC1*
YCL010C		*SGF29*
YJL088W		*ARG3*
YOR124C		*UBP2*
YHR132W-A		*IGO2*
YDR021W		*FAL1*
YOR204W		*DED1*
YGR211W		*ZPR1*
YLR448W		*RPL6B*
YOR283W		*YOR283W*
YCR019W		*MAK32*
YMR111C		*EUC1*
YIL129C		*TAO3*
YOR353C		*SOG2*

YDR487C		*RIB3*
YLR277C		*YSH1*
YOR323C		*PRO2*
YFL010W-A	*Yes*	*AUA1*
YJL025W		*RRN7*
YKL213C		*DOA1*
YKL045W		*PRI2*
YNL261W		*ORC5*
YLR199C		*PBA1*
YCL001W-A		*YCL001W-A*
YHR128W		*FUR1*
YOR337W		*TEA1*
YPR089W		*YPR089W*
YMR263W		*SAP30*
YDR092W		*UBC13*
YDL116W		*NUP84*
YCL014W		*BUD3*
YOR039W		*CKB2*
YIL057C		*RGI2*
YLR154W-C		*TAR1*
YIL143C		*SSL2*
YLL054C		*YLL054C*
YOR164C		*GET4*
YDR235W		*PRP42*
YFL003C		*MSH4*
YMR316W		*DIA1*
YNR004W		*SWM2*
YDR328C		*SKP1*
YLR367W		*RPS22B*
YER030W		*CHZ1*
YDR485C		*VPS72*
YOR221C		*MCT1*
YMR085W		*YMR085W*
YMR309C		*NIP1*
YEL053C		*MAK10*
YHR019C		*DED81*
YEL018W		*EAF5*
YJL053W		*PEP8*
YPL250C		*ATG41*
YML058W	*Yes*	*SML1*
YBR215W		*HPC2*
YNL196C		*SLZ1*
YCL039W		*GID7*
YDR335W		*MSN5*
YDR005C		*MAF1*
YBR076W		*ECM8*
YJL076W		*NET1*

YDR047W		HEM12
YNL011C		YNL011C
YDR097C		MSH6
YJL089W		SIP4
YGL227W		VID30
YDR527W		RBA50
YGL036W		VIR1
YNL241C		ZWF1
YEL062W		NPR2
YHR159W		TDA11
YDR101C		ARX1
YGR155W		CYS4
YDL150W		RPC53
YIL054W	Yes	YIL054W
YLR106C		REA1
YIR017C		MET28
YLR224W		UCC1
YOL036W		YOL036W
YMR181C		YMR181C
YDL008W		APC11
YKL082C		RRP14
YOL131W	Yes	YOL131W
YDR098C		GRX3
YMR185W		RTP1
YCL051W		LRE1
YLR394W		CST9
YOR380W		RDR1
YPR005C		HAL1
YMR114C		YMR114C
YDR454C		GUK1
YDR213W		UPC2
YIR042C		YIR042C
YOR373W		NUD1
YBR261C		TAE1
YLR345W		YLR345W
YNL240C		NAR1
YER132C		PMD1
YDR381C-A		COI1
YML098W		TAF13
YPL152W		RRD2
YGL245W		GUS1
YLR457C		NBP1
YDR400W		URH1
YPL267W		ACM1
YGL232W		TAN1
YIL003W		CFD1
YGL134W		PCL10

YGL091C		NBP35
YDR346C		SVF1
YAL013W		DEP1
YNR012W		URK1
YGR040W		KSS1
YJR148W		BAT2
YDL177C		YDL177C
YHR184W		SSP1
YPR086W		SUA7
YER034W		YER034W
YBR151W		APD1
YPR119W		CLB2
YML063W		RPS1B
YGL128C		CWC23
YKR095W		MLP1
YIL150C		MCM10
YLR384C		IKI3
YOL025W		LAG2
YOR208W		PTP2
YGL157W		ARI1
YOR375C		GDH1
YIL092W		YIL092W
YKL211C		TRP3
YJR149W		YJR149W
YIL036W		CST6
YDL219W		DTD1
YFR015C		GSY1
YHR196W		UTP9
YOR308C		SNU66
YLR361C-A	Yes	YLR361C-A
YOL072W		THP1
YBR272C		HSM3
YLR127C		APC2
YNL278W		CAF120
YBR297W		MAL33
YCR106W		RDS1
YMR174C	Yes	PAI3
YCL044C		MGR1
YNL138W		SRV2
YBR112C		CYC8
YDR325W		YCG1
YGR204W		ADE3
YML114C		TAF8
YDR403W		DIT1
YLR449W		FPR4
YOR358W		HAP5
YOR179C		SYC1

YOL124C		*TRM11*
YOR162C		*YRR1*
YAL064W	*Yes*	*YAL064W*
YLR354C		*TAL1*
YLL032C		*YLL032C*
YLR460C		*YLR460C*
YGR178C		*PBP1*
YHL007C		*STE20*
YHR054C		*YHR054C*
YDL238C		*GUD1*
YMR048W		*CSM3*
YMR239C		*RNT1*
YOR091W		*TMA46*
YDL103C		*QRI1*
YOR310C		*NOP58*
YDL125C		*HNT1*
YHR065C		*RRP3*
YER064C		*VHR2*
YKR092C		*SRP40*
YBR260C		*RGD1*
YNL053W		*MSG5*
YBR186W		*PCH2*
YKL052C		*ASK1*
YLR197W		*NOP56*
YGR126W		*YGR126W*
YMR038C		*CCS1*
YBR135W		*CKS1*
YOR108C-A	*Yes*	*YOR108C-A*
YNL003C		*PET8*
YPL219W		*PCL8*
YHR082C		*KSP1*
YMR206W		*YMR206W*
YOR220W		*RCN2*
YOL077W-A	*Yes*	*ATP19*
YBR175W		*SWD3*
YGL220W		*BOL2*
YDR168W		*CDC37*
YBL071C-B	*Yes*	*YBL071C-B*
YDR383C		*NKP1*
YDR362C		*TFC6*
YDR317W		*HIM1*
YGR128C		*UTP8*
YNL113W		*RPC19*
YER084W		*YER084W*
YLR218C		*COA4*
YMR136W		*GAT2*
YDR404C		*RPB7*

YGR159C		*NSR1*
YKR038C		*KAE1*
YOR275C		*RIM20*
YOL013W-A	*Yes*	*YOL013W-A*
YLR010C		*TEN1*
YMR116C		*ASC1*
YGL172W		*NUP49*
YBR153W		*RIB7*
YEL066W		*HPA3*
YNR046W		*TRM112*
YDR439W		*LRS4*
YIR016W		*YIR016W*
YLR320W		*MMS22*
YOL067C		*RTG1*
YMR223W		*UBP8*
YDR145W		*TAF12*
YBL068W		*PRS4*
YDR389W		*SAC7*
YJR127C		*RSF2*
YCR038C		*BUD5*
YKR057W	*Yes*	*RPS21A*
YML069W		*POB3*
YER127W		*LCP5*
YJR132W		*NMD5*
YBL024W		*NCL1*
YMR132C		*JLP2*
YBR245C		*ISW1*
YKR072C		*SIS2*
YDR260C		*SWM1*
YJR091C		*JSN1*
YML092C		*PRE8*
YOR006C		*TSR3*
YML062C		*MFT1*
YGL238W		*CSE1*
YGR005C		*TFG2*
YLR456W		*YLR456W*
YCR035C		*RRP43*
YGL043W		*DST1*
YKL043W		*PHD1*
YLR263W		*RED1*
YJR141W		*IPA1*
YBL060W		*YEL1*
YEL023C		*YEL023C*
YMR027W		*YMR027W*
YGR095C		*RRP46*
YMR220W		*ERG8*
YIL024C		*ATG45*

YMR049C		*ERB1*
YFR036W		*CDC26*
YGR145W		*ENP2*
YDR505C		*PSP1*
YPL178W		*CBC2*
YOR156C		*NFI1*
YBL097W		*BRN1*
YIL132C		*CSM2*
YDR253C		*MET32*
YOL165C		*AAD15*
YHR146W		*CRP1*
YCR015C		*CTO1*
YDL110C		*TMA17*
YER010C		*YER010C*
YMR318C		*ADH6*
YHR189W		*PTH1*
YCR053W		*THR4*
YBR025C		*OLA1*
YBR155W		*CNS1*
YMR012W		*CLU1*
YLR234W		*TOP3*
YNL161W		*CBK1*
YJR099W		*YUH1*
YOR118W		*RTC5*
YGL096W		*TOS8*
YBL021C		*HAP3*
YJR074W		*MOG1*
YPL237W		*SUI3*
YBR138C		*YBR138C*
YER128W		*VFA1*
YNR031C		*SSK2*
YPR054W		*SMK1*
YLR129W		*DIP2*
YKL190W		*CNB1*
YCR100C		*EMA35*
YNL002C		*RLP7*
YKL075C		*AAN1*
YPL049C		*DIG1*
YDR412W		*RRP17*
YBR166C		*TYR1*
YDR363W-A	*Yes*	*SEM1*
YKL010C		*UFD4*
YNL141W		*AAH1*
YOR168W		*GLN4*
YOL022C		*TSR4*
YLL008W		*DRS1*
YLL018C		*DPS1*

YGR200C		*ELP2*
YJR039W		*MLO127*
YKL186C		*MTR2*
YBR011C		*IPP1*
YOR261C		*RPN8*
YBR001C		*NTH2*
YDR449C		*UTP6*
YMR080C		*NAM7*
YNL123W		*NMA111*
YJR070C		*LIA1*
YHR072W-A	*Yes*	*NOP10*
YIR030C		*DCG1*
YKL024C		*URA6*
YGL086W		*MAD1*
YLR370C		*ARC18*
YDR071C		*PAA1*
YLR377C		*FBP1*
YIL127C		*RRT14*
YHR112C		*YHR112C*
YDR469W		*SDC1*
YEL012W		*UBC8*
YBL051C		*PIN4*
YOL141W		*PPM2*
YDR194W-A	*Yes*	*YDR194W-A*
YGL063W		*PUS2*
YOR155C		*ISN1*
YPL198W		*RPL7B*
YJR002W		*MPP10*
YML035C		*AMD1*
YMR120C		*ADE17*
YBR208C		*DUR12*
YDR320C-A	*Yes*	*DAD4*
YBR094W		*PBY1*
YOL086W-A	*Yes*	*MHF1*
YPL075W		*GCR1*
YDR379W		*RGA2*
YIL002W-A	*Yes*	*CMI7*
YIL144W		*NDC80*
YGR123C		*PPT1*
YOR319W		*HSH49*
YNL197C		*WHI3*
YPL229W		*YPL229W*
YBR107C		*IML3*
YML103C		*NUP188*
YOR145C		*PNO1*
YBR200W		*BEM1*
YJL020C		*BBC1*

YJL136W-A	*Yes*	*YJL136W-A*
YKL125W		*RRN3*
YLR276C		*DBP9*
YOL029C		*YOL029C*
YDR003W-A	*Yes*	*YDR003W-A*
YOR298C-A		*MBF1*
YCL047C		*POF1*
YIL145C		*PAN6*
YEL029C		*BUD16*
YPL170W		*DAP1*
YAL043C		*PTA1*
YPL037C		*EGD1*
YLR003C		*CMS1*
YNL140C		*YNL140C*
YGR122W		*YGR122W*
YER136W		*GDI1*
YGL251C		*HFM1*
YDL208W		*NHP2*
YDR123C		*INO2*
YML100W-A	*Yes*	*YML100W-A*
YHR025W		*THR1*
YMR153W		*NUP53*
YOL090W		*MSH2*
YOR064C		*YNG1*
YOL143C		*RIB4*
YOR111W		*YOR111W*
YNL061W		*NOP2*
YDL111C		*RRP42*
YDL213C		*NOP6*
YBR060C		*ORC2*
YPR062W		*FCY1*
YGL094C		*PAN2*
YCR051W		*YCR051W*
YLR352W		*LUG1*
YIL113W		*SDP1*
YER007W		*PAC2*
YOR143C		*THI80*
YMR016C		*SOK2*
YHL006C		*SHU1*
YIL116W		*HIS5*
YKL013C		*ARC19*
YKL018W		*SWD2*
YLR209C		*PNP1*
YFL023W		*BUD27*
YBR156C		*SLI15*
YMR210W		*MGL2*
YOR376W-A	*Yes*	*YOR376W-A*

YLR254C		*NDL1*
YNR040W		*MRX15*
YDR321W		*ASP1*
YJR139C		*HOM6*
YKL122C		*SRP21*
YGR248W		*SOL4*
YNL035C		*YNL035C*
YML127W		*RSC9*
YMR125W		*STO1*
YGR238C		*KEL2*
YJL030W		*MAD2*
YNR027W		*BUD17*
YER133W		*GLC7*
YIL108W		*YIL108W*
YJR118C		*ILM1*
YJL069C		*UTP18*
YBL046W		*PSY4*
YPL260W		*CUB1*
YBR123C		*TFC1*
YBL093C		*ROX3*
YJR133W		*XPT1*
YKR042W		*UTH1*
YLL053C		*YLL053C*
YHR163W		*SOL3*
YHR061C		*GIC1*
YHR104W		*GRE3*
YER065C		*ICL1*
YLR392C		*ART10*
YJR142W		*YJR142W*
YBR137W		*YBR137W*
YML005W		*TRM12*
YPL263C		*KEL3*
YDR091C		*RLI1*
YJR094C		*IME1*
YJL157C		*FAR1*
YBL019W		*APN2*
YBR216C		*YBP1*
YPL093W		*NOG1*
YER144C		*UBP5*
YGL039W		*YGL039W*
YKL214C		*YRA2*
YHL033C		*RPL8A*
YLR346C	*Yes*	*CIS1*
YKL215C		*OXP1*
YBL033C		*RIB1*
YDR171W		*HSP42*
YFR009W		*GCN20*

YDL236W		*PHO13*
YOL049W		*GSH2*
YJL156C		*SSY5*
YBL071W-A	*Yes*	*KTI11*
YJR023C		*YJR023C*
YNL088W		*TOP2*
YOL121C		*RPS19A*
YJL072C		*PSF2*
YKL139W		*CTK1*
YOL087C		*DUF1*
YKR056W		*TRM2*
YER059W		*PCL6*
YDR183W		*PLP1*
YOR191W		*ULS1*
YPL127C		*HHO1*
YCL030C		*HIS4*
YOL097W-A	*Yes*	*YOL097W-A*
YMR179W		*SPT21*
YOR388C		*FDH1*
YMR025W		*CSI1*
YER052C		*HOM3*
YER067W		*RGI1*
YNL312W		*RFA2*
YOR259C		*RPT4*
YML099C		*ARG81*
YHR118C		*ORC6*
YGR169C		*PUS6*
YDL007W		*RPT2*
YDR201W		*SPC19*
YLR002C		*NOC3*
YDL141W		*BPL1*
YER139C		*RTR1*
YOL066C		*RIB2*
YDR475C		*JIP4*
YLR221C		*RSA3*
YMR107W		*SPG4*
YHR077C		*NMD2*
YLR362W		*STE11*
YMR230W	*Yes*	*RPS10B*
YMR278W		*PRM15*
YEL015W		*EDC3*
YDR359C		*EAF1*
YPL042C		*SSN3*
YBL107C		*MIX23*
YMR044W		*IOC4*
YIR029W		*DAL2*
YGR074W		*SMD1*

YGR185C		*TYS1*
YCL057W		*PRD1*
YJL074C		*SMC3*
YJL035C		*TAD2*
YDR179C		*CSN9*
YLR144C		*ACF2*
YDL028C		*MPS1*
YJR025C		*BNA1*
YOL115W		*PAP2*
YDL039C		*PRM7*
YLL058W		*HSU1*
YMR271C		*URA10*
YAL017W		*PSK1*
YGR179C		*OKP1*
YNL251C		*NRD1*
YKL022C		*CDC16*
YBR014C		*GRX7*
YDR363W		*ESC2*
YGL056C		*SDS23*
YOR258W		*HNT3*
YNR068C		*YNR068C*
YAL024C		*LTE1*
YNL062C		*GCD10*
YGL085W		*LCL3*
YKL103C		*APE1*
YLR271W		*CMG1*
YER177W		*BMH1*
YLR358C		*YLR358C*
YLR288C		*MEC3*
YER002W		*NOP16*
YDL179W		*PCL9*
YLR278C		*YLR278C*
YBR167C		*POP7*
YOR346W		*REV1*
YAR029W	*Yes*	*DFP2*
YBR212W		*NGR1*
YGR132C		*PHB1*
YNL246W		*VPS75*
YOR367W		*SCP1*
YGR035C		*YGR035C*
YHL018W		*MCO14*
YER159C		*BUR6*
YBR028C		*YPK3*
YDR463W		*STP1*
YHR187W		*IKI1*
YBR079C		*RPG1*
YFR053C		*HXK1*

YNL314W		*DAL82*
YHR144C		*DCD1*
YDR219C		*MFB1*
YPR058W		*YMC1*
YER018C		*SPC25*
YGR274C		*TAF1*
YHL027W		*RIM101*
YGL049C		*TIF4632*
YKL181W		*PRS1*
YHL011C		*PRS3*
YJR111C		*PXP2*
YER038W-A		*FMP49*
YBR231C		*SWC5*
YDR322C-A	*Yes*	*TIM11*
YKL092C		*BUD2*
YLR165C		*PUS5*
YGL035C		*MIG1*
YNL290W		*RFC3*
YOR249C		*APC5*
YMR325W		*PAU19*
YLR287C		*YLR287C*
YMR178W		*FPY1*
YGR271C-A		*EFG1*
YKL025C		*PAN3*
YMR216C		*SKY1*
YMR308C		*PSE1*
YOR362C		*PRE10*
YMR139W		*RIM11*
YCR063W		*BUD31*
YJR096W		*YJR096W*
YOL133W		*HRT1*
YDR333C		*RQC1*
YJR135C		*MCM22*
YKR101W		*SIR1*
YKL035W		*UGP1*
YHR182W		*RGD3*
YER035W		*EDC2*
YLR102C		*APC9*
YGL081W		*YGL081W*
YPR127W		*YPR127W*
YCR073C		*SSK22*
YDR165W		*TRM82*
YGL242C		*ANK1*
YGL243W		*TAD1*
YMR247C		*RKR1*
YLR318W		*EST2*
YGR056W		*RSC1*

YGL197W		*MDS3*
YMR261C		*TPS3*
YGR111W		*YGR111W*
YNL218W		*MGS1*
YNL042W		*BOP3*
YNR043W		*MVD1*
YIL074C		*SER33*
YER041W		*YEN1*
YNL229C		*URE2*
YML108W	*Yes*	*YML108W*
YLR178C		*TFS1*
YOR011W-A	*Yes*	*YOR011W-A*
YDL112W		*TRM3*
YFL007W		*BLM10*
YBL075C		*SSA3*
YJR057W		*CDC8*
YDR465C		*RMT2*
YGL021W		*ALK1*
YKL061W		*BLI1*
YIL079C		*AIR1*
YOR012W		*YOR012W*
YNL267W		*PIK1*
YDL154W		*MSH5*
YGL235W		*YGL235W*
YMR270C		*RRN9*
YGR018C	*Yes*	*YGR018C*
YIL097W		*FYV10*
YML082W		*YML082W*
YPL241C		*CIN2*
YDR391C		*YDR391C*
YLR452C		*SST2*
YLR401C		*DUS3*
YKL095W		*YJU2*
YDR050C		*TPI1*
YGL202W		*ARO8*
YNL162W	*Yes*	*RPL42A*
YBL052C		*SAS3*
YEL072W		*RMD6*
YGL185C		*YGL185C*
YOR368W		*RAD17*
YMR160W		*CVM1*
YNL042W-B	*Yes*	*YNL042W-B*
YEL071W		*DLD3*
YPL083C		*SEN54*
YDL165W		*CDC36*
YML036W		*CGI121*
YGL179C		*TOS3*

YML105C		SEC65
YIL165C		YIL165C
YLR149C		GID11
YGR240C		PFK1
YIL006W		YIA6
YDL102W		POL3
YGR113W		DAM1
YPL213W		LEA1
YHR088W		RPF1
YGL131C		SNT2
YGR024C		THG1
YLR290C		COQ11
YPL174C		NIP100
YDR239C		YDR239C
YIR025W		MND2
YOR344C		TYE7
YBR284W		YBR284W
YNL067W		RPL9B
YKL185W		ASH1
YLR264W	Yes	RPS28B
YML032C		RAD52
YBR278W		DPB3
YHR143W-A	Yes	RPC10
YDL139C		SCM3
YKL117W		SBA1
YIL017C		VID28
YJR108W		ABM1
YLR244C		MAP1
YDR151C		CTH1
YNR034W		SOL1
YGL130W		CEG1
YML011C		RAD33
YBR274W		CHK1
YGR013W		SNU71
YDR263C		DIN7
YGL147C		RPL9A
YLR435W		TSR2
YDR486C		VPS60
YBR126C		TPS1
YDR150W		NUM1
YHR193C		EGD2
YDR378C	Yes	LSM6
YOL015W		IRC10
YDR533C		HSP31
YEL026W		SNU13
YPL125W		KAP120
YLR313C		SPH1

YJL033W		*HCA4*
YPL018W		*CTF19*
YPL171C		*OYE3*
YHL010C		*ETP1*
YJR129C		*EFM3*
YLR445W		*GMC2*
YBR271W		*EFM2*
YNL022C		*RCM1*
YLR031W		*YLR031W*
YAL041W		*CDC24*
YPR111W		*DBF20*
YPL026C		*SKS1*
YDR251W		*PAM1*
YNL091W		*NST1*
YOL146W		*PSF3*
YGL078C		*DBP3*
YAL063C-A	*Yes*	*YAL063C-A*
YLR196W		*PWP1*
YER054C		*GIP2*
YNL206C		*RTT106*
YLR408C		*BLS1*
YDR306C		*PFU1*
YLR200W		*YKE2*
YPL153C		*RAD53*
YIR003W		*AIM21*
YJR140C		*HIR3*
YDR158W		*HOM2*
YHR156C		*LIN1*
YDL134C		*PPH21*
YCR102C		*YCR102C*
YMR219W		*ESC1*
YOR173W		*DCS2*
YDR267C		*CIA1*
YBR087W		*RFC5*
YGR267C		*FOL2*
YGR017W		*YGR017W*
YOR207C		*RET1*
YIL064W		*EFM4*
YJL101C		*GSH1*
YKL142W		*MRP8*
YGL164C		*YRB30*
YKL017C		*HCS1*
YKL159C		*RCN1*
YER121W		*YER121W*
YMR032W		*HOF1*
YOR243C		*PUS7*
YNL108C		*YNL108C*

YPL181W		*CTI6*
YER098W		*UBP9*
YLR216C		*CPR6*
YER186C		*YER186C*
YBL006C		*LDB7*
YHR111W		*UBA4*
YNL249C		*MPA43*
YNL277W-A	*Yes*	*YNL277W-A*
YGR262C		*BUD32*
YPL017C		*IRC15*
YGL050W		*TYW3*
YJL107C		*YJL107C*
YJR135W-A	*Yes*	*TIM8*
YDR423C		*CAD1*
YDR397C		*NCB2*
YNL201C		*PSY2*
YDL040C		*NAT1*
YJL140W		*RPB4*
YNL083W		*SAL1*
YBR200W-A	*Yes*	*YBR200W-A*
YAL049C		*AIM2*
YGR264C		*MES1*
YBR259W		*YBR259W*
YBL004W		*UTP20*
YIL131C		*FKH1*
YAR019C		*CDC15*
YKL206C		*ADD66*
YOR213C		*SAS5*
YER143W		*DDI1*
YDR081C		*PDC2*
YHR207C		*SET5*
YOL151W		*GRE2*
YBR184W		*YBR184W*
YKL007W		*CAP1*
YER112W		*LSM4*
YNR017W		*TIM23*
YDR099W		*BMH2*
YOR313C		*SPS4*
YOR019W		*YOR019W*
YBR046C		*ZTA1*
YGR019W		*UGA1*
YEL006W		*YEA6*
YGR072W		*UPF3*
YJL103C		*GSM1*
YER137C		*YER137C*
YER070W		*RNR1*
YMR154C		*RIM13*

YER134C		*YER134C*
YKR029C		*SET3*
YGR099W		*TEL2*
YLR432W		*IMD3*
YDR173C		*ARG82*
YBL044W		*YBL044W*
YDR143C		*SAN1*
YMR121C		*RPL15B*
YGR035W-A	*Yes*	*YGR035W-A*
YNL034W		*YNL034W*
YGL192W		*IME4*
YLL021W		*SPA2*
YLR233C		*EST1*
YHR064C		*SSZ1*
YGR230W		*BNS1*
YMR156C		*TPP1*
YHR090C		*YNG2*
YBR165W		*UBS1*
YOR236W		*DFR1*
YDR131C		*YDR131C*
YDR361C		*BCP1*
YLR189C		*ATG26*
YHR033W		*YHR033W*
YHL048C-A	*Yes*	*YHL048C-A*
YHR165C		*PRP8*
YMR168C		*CEP3*
YKR097W		*PCK1*
YDR507C		*GIN4*
YMR201C		*RAD14*
YGR288W		*MAL13*
YOR107W		*RGS2*
YNL102W		*POL1*
YOL012C		*HTZ1*
YMR053C		*STB2*
YNL167C		*SKO1*
YGL211W		*NCS6*
YIL084C		*SDS3*
YPL023C		*MET12*
YBL081W		*YBL081W*
YNL018C		*YNL018C*
YIL019W		*FAF1*
YGR161C		*RTS3*
YGL113W		*SLD3*
YNL031C		*HHT2*
YOR027W		*STI1*
YJR154W		*YJR154W*
YJL173C		*RFA3*

YCR086W		*CSM1*
YIL154C		*IMP21*
YKL145W		*RPT1*
YDL045C		*FAD1*
YPL008W		*CHL1*
YEL042W		*GDA1*
YNL001W		*DOM34*
YOR148C		*SPP2*
YBR101C		*FES1*
YLR298C		*YHC1*
YOR161W-B	*Yes*	*YOR161W-B*
YJR032W		*CPR7*
YOR253W		*NAT5*
YOR073W		*SGO1*
YCL068C		*YCL068C*
YJR090C		*GRR1*
YPL161C		*BEM4*
YDR174W		*HMO1*
YDR496C		*PUF6*
YIL033C		*BCY1*
YLR222C		*UTP13*
YEL004W		*YEA4*
YML083C		*YML083C*
YGR097W		*ASK10*
YMR164C		*MSS11*
YJR120W		*DMO1*
YDL013W		*SLX5*
YER042W		*MXR1*
YFR007W		*YFH7*
YGL017W		*ATE1*
YKL019W		*RAM2*
YOL095C		*HMI1*
YDR127W		*ARO1*
YGR252W		*GCN5*
YOR272W		*YTM1*
YDL147W		*RPN5*
YBL036C		*YBL036C*
YKR054C		*DYN1*
YMR268C		*PRP24*
YBR065C		*ECM2*
YCR095C		*OCA4*
YER048C		*CAJ1*
YOR372C		*NDD1*
YPL144W		*POC4*
YDL175C		*AIR2*
YGL090W		*LIF1*
YDL105W		*NSE4*

YER089C		*PTC2*
YDL057W		*YDL057W*
YMR217W		*GUA1*
YLR007W		*NSE1*
YDL082W		*RPL13A*
YML117W		*NAB6*
YHR015W		*MIP6*
YKL033W		*TTI1*
YGR047C		*TFC4*
YER142C		*MAG1*
YMR180C		*CTL1*
YIR018W		*YAP5*
YMR014W		*BUD22*
YOR198C		*BFR1*
YEL054C		*RPL12A*
YKL205W		*LOS1*
YPL001W		*HAT1*
YLR099C		*ICT1*
YMR312W		*ELP6*
YDR291W		*HRQ1*
YJR068W		*RFC2*
YOL080C		*REX4*
YHR185C		*PFS1*
YIL126W		*STH1*
YJL055W		*LOG1*
YMR102C		*LAF1*
YJL010C		*NOP9*
YKL204W		*EAP1*
YKR034W		*DAL80*
YMR273C		*ZDS1*
YBR117C		*TKL2*
YCL037C		*SRO9*
YFR030W		*MET10*
YMR105W-A	*Yes*	*YMR105W-A*
YNL212W		*VID27*
YKL012W		*PRP40*
YDL239C		*ADY3*
YJR041C		*URB2*
YPL126W		*NAN1*
YDL131W		*LYS21*
YGR246C		*BRF1*
YDR210W	*Yes*	*CPP2*
YLR364W	*Yes*	*GRX8*
YER028C		*MIG3*
YLR054C		*OSW2*
YDL043C		*PRP11*
YJL197W		*UBP12*

YNL096C		*RPS7B*
YLR446W		*NGK1*
YER079W		*YER079W*
YOR251C		*TUM1*
YJR146W		*YJR146W*
YDR031W		*MIX14*
YNL254C		*RTC4*
YBR285W		*HAB1*
YDR198C		*RKM2*
YKR028W		*SAP190*
YOL091W		*SPO21*
YLL013C		*PUF3*
YGR275W		*RTT102*
YNL307C		*MCK1*
YFR046C		*CNN1*
YHR199C-A	*Yes*	*NBL1*
YML054C-A	*Yes*	*YML054C-A*
YGR285C		*ZUO1*
YNL079C		*TPM1*
YPL169C		*MEX67*
YEL073C	*Yes*	*YEL073C*
YMR075W		*RCO1*
YDR471W		*RPL27B*
YDR222W		*YDR222W*
YFR023W		*PES4*
YGR184C		*UBR1*
YOR231C-A	*Yes*	*YOR231C-A*
YOL064C		*MET22*
YJR147W		*HMS2*
YLR436C		*ECM30*
YGL175C		*SAE2*
YDR195W		*REF2*
YCL028W		*RNQ1*
YNL244C	*Yes*	*SUI1*
YOR078W		*BUD21*
YGL111W		*NSA1*
YNL250W		*RAD50*
YKL001C		*MET14*
YOR160W		*MTR10*
YJL087C		*TRL1*
YDR060W		*MAK21*
YKR035W-A		*DID2*
YHR086W		*NAM8*
YBR088C		*POL30*
YEL007W		*MIT1*
YER081W		*SER3*
YHR044C		*DOG1*

YNL056W		OCA2
YDR512C		EMI1
YNL245C		CWC25
YDR357C		CNL1
YFL027C		GYP8
YBR296C-A	Yes	TYC1
YGR253C		PUP2
YBR073W		RDH54
YPR051W		MAK3
YGR030C		POP6
YJL057C		IKS1
YNR063W		PUL4
YPR129W		SCD6
YOL094C		RFC4
YLR262C-A	Yes	TMA7
YNL255C		GIS2
YLR168C		UPS2
YIR035C		NRE1
YBR053C		YBR053C
YLR172C		DPH5
YLR405W		DUS4
YAL025C		MAK16
YDR334W		SWR1
YEL055C		POL5
YDL160C-A	Yes	MHF2
YBL066C		SEF1
YGL070C		RPB9
YML038C		YMD8
YOR134W		BAG7
YGR104C		SRB5
YGR054W		YGR054W
YER085C		YER085C
YPR120C		CLB5
YDR129C		SAC6
YDR185C		UPS3
YDR480W		DIG2
YLR363C		NMD4
YGR108W		CLB1
YLR013W		GAT3
YPR060C		ARO7
YOR265W	Yes	RBL2
YJR085C	Yes	TMH11
YLR424W		SPP382
YKR010C		TOF2
YJR011C		CAL4
YMR299C		DYN3
YNL023C		FAP1

YHR020W		*YHR020W*
YGL215W		*CLG1*
YHR080C		*LAM4*
YKL121W		*DGR2*
YOL070C		*NBA1*
YKL038W		*RGT1*
YJR049C		*UTR1*
YGR080W		*TWF1*
YLR068W		*FYV7*
YAR008W		*SEN34*
YNL130C-A	*Yes*	*DGR1*
YLL026W		*HSP104*
YAL003W		*EFB1*
YHR043C		*DOG2*
YIL010W		*DOT5*
YJL218W		*YJL218W*
YOR349W		*CIN1*
YGL222C		*EDC1*
YJL125C		*GCD14*
YGR169C-A	*Yes*	*LSO2*
YDL108W		*KIN28*
YLR024C		*UBR2*
YDR017C		*KCS1*
YPL150W		*YPL150W*
YER038C		*KRE29*
YFR037C		*RSC8*
YPR098C		*TMH18*
YFL022C		*FRS2*
YJL203W		*PRP21*
YIL062C		*ARC15*
YML060W		*OGG1*
YPL277C		*YPL277C*
YER068W		*MOT2*
YDL182W		*LYS20*
YHR158C		*KEL1*
YBL048W	*Yes*	*RRT1*
YGL159W		*YGL159W*
YLR438W		*CAR2*
YIL009W		*FAA3*
YNL186W		*UBP10*
YCR079W		*PTC6*
YCR105W		*ADH7*
YMR043W		*MCM1*
YBR072C-A	*Yes*	*YBR072C-A*
YDL188C		*PPH22*
YKL058W		*TOA2*
YOR113W		*AZF1*

YPL047W	*Yes*	*SGF11*
YAL031C		*GIP4*
YKR031C		*SPO14*
YCL058W-A		*ADF1*
YFR057W		*YFR057W*
YGR121W-A	*Yes*	*YGR121W-A*
YBL023C		*MCM2*
YFR011C		*MIC19*
YGR091W		*PRP31*
YDL006W		*PTC1*
YPR078C		*YPR078C*
YFL052W		*ZNF1*
YNL211C	*Yes*	*MRX7*
YLR176C		*RFX1*
YOR112W		*CEX1*
YNR014W		*YNR014W*
YML080W		*DUS1*
YNL092W		*YNL092W*
YIL122W		*POG1*
YER044C-A		*MEI4*
YDR073W		*SNF11*
YDL076C		*RXT3*
YHR152W		*SPO12*
YHR009C		*TDA3*
YHR164C		*DNA2*
YNL172W		*APC1*
YKR043C		*SHB17*
YDR288W		*NSE3*
YNL193W		*YNL193W*
YJL043W		*YJL043W*
YHR087W		*RTC3*
YCR081W		*SRB8*
YDL017W		*CDC7*
YER107C		*GLE2*
YBR125C		*PTC4*
YMR250W		*GAD1*
YCL036W		*GFD2*
YBL103C		*RTG3*
YDL155W		*CLB3*
YJL013C		*MAD3*
YJR043C		*POL32*
YMR222C		*FSH2*
YNL325C		*FIG4*
YJR036C		*HUL4*
YDL037C		*BSC1*
YGR212W		*SLI1*
YMR175W	*Yes*	*SIP18*

YPL064C		CWC27
YDR399W		HPT1
YER082C		UTP7
YJL184W		GON7
YKR064W		OAF3
YNL309W		STB1
YDR365C		ESF1
YOL089C		HAL9
YDR226W		ADK1
YDR311W		TFB1
YOR194C		TOA1
YEL056W		HAT2
YDL173W		PAR32
YPL111W		CAR1
YCL024W		KCC4
YDR030C		RAD28
YDR140W		MTQ2
YMR285C		NGL2
YEL046C		GLY1
YGR173W		RBG2
YIL164C		NIT1
YLR021W		IRC25
YPL135C-A	Yes	YPL135C-A
YPL268W		PLC1
YHR124W		NDT80
YBR149W		ARA1
YKL184W		SPE1
YBR050C		REG2
YPL158C		AIM44
YFL029C		CAK1
YCR047C		BUD23
YDR110W		FOB1
YNL068C		FKH2
YBR233W-A	Yes	DAD3
YDR448W		ADA2
YHR197W		RIX1
YGR063C	Yes	SPT4
YOR046C		DBP5
YPL208W		RKM1
YDR435C		PPM1
YNL288W		CAF40
YDR044W		HEM13
YDL056W		MBP1
YDR425W		SNX41
YDR523C		SPS1
YJL077W-A	Yes	YJL077W-A
YCL026C-A		FRM2

YGR258C		*RAD2*
YDL156W		*CMR1*
YDR217C		*RAD9*
YPL020C		*ULP1*
YBR194W		*AIM4*
YPR081C		*GRS2*
YER187W		*YER187W*
YDL129W		*YDL129W*
YDR314C		*RAD34*
YOR189W		*IES4*
YNL119W		*NCS2*
YLR016C		*PML1*
YLR108C		*YLR108C*
YJL216C		*IMA5*
YNL004W		*HRB1*
YMR303C		*ADH2*
YLL049W		*LDB18*
YDR446W		*ECM11*
YNL027W		*CRZ1*
YPL225W		*CHP1*
YDL074C		*BRE1*
YBR157C		*ICS2*
YDR176W		*NGG1*
YDR259C		*YAP6*
YHR153C		*SPO16*
YJL176C		*SWI3*
YDR167W		*TAF10*
YNL016W		*PUB1*
YKL101W		*HSL1*
YDR300C		*PRO1*
YDR464W		*SPP41*
YOR051C		*ETT1*
YOL097C		*WRS1*
YOR058C		*ASE1*
YJL146W		*IDS2*
YHR022C-A	*Yes*	*YHR022C-A*
YBR248C		*HIS7*
YOR339C		*UBC11*
YPL272C		*PBI1*
YOR172W		*YRM1*
YGL241W		*KAP114*
YGR180C		*RNR4*
YKL162C		*YKL162C*
YCR073W-A		*SOL2*
YJR007W		*SUI2*
YPR031W		*NTO1*
YJR130C		*STR2*

YBR275C		*RIF1*
YJL154C		*VPS35*
YIL137C		*TMA108*
YJR050W		*ISY1*
YFR027W		*ECO1*
YMR084W		*YMR084W*
YGL156W		*AMS1*
YGL248W		*PDE1*
YOR020W-A	*Yes*	*MCO10*
YER045C		*ACA1*
YLR175W		*CBF5*
YOL006C		*TOP1*
YPL096W		*PNG1*
YPL194W		*DDC1*
YJL191W		*RPS14B*
YER075C		*PTP3*
YKR083C		*DAD2*
YDR368W		*YPR1*
YFR014C		*CMK1*
YML010W		*SPT5*
YBR276C		*PPS1*
YGR276C		*RNH70*
YDR461C-A	*Yes*	*CMI8*
YKL023W		*SKA1*
YPR041W		*TIF5*
YBR035C		*PDX3*
YDL240W		*LRG1*
YGL195W		*GCN1*
YJR093C		*FIP1*
YLR146W-A	*Yes*	*YLR146W-A*
YAR014C		*BUD14*
YDL101C		*DUN1*
YJL056C		*ZAP1*
YBL056W		*PTC3*
YPL134C		*ODC1*
YPL046C	*Yes*	*ELC1*
YJL047C		*RTT101*
YLR438C-A	*Yes*	*LSM3*
YHR068W		*DYS1*
YPL207W		*TYW1*
YPL146C		*NOP53*
YEL003W		*GIM4*
YMR289W		*ABZ2*
YDL160C		*DHH1*
YOR264W		*DSE3*
YGR170W		*PSD2*
YCL042W		*YCL042W*

YHR022C		*YHR022C*
YMR061W		*RNA14*
YLR073C		*RFU1*
YOR355W		*GDS1*
YMR224C		*MRE11*
YER066W		*RRT13*
YHR074W		*QNS1*
YPL242C		*IQG1*
YNR074C		*AIF1*
YJR115W		*YJR115W*
YIL026C		*IRR1*
YOR238W		*YOR238W*
YAR023C		*DFP1*
YDR162C		*NBP2*
YGL154C		*LYS5*
YJL149W		*DAS1*
YDR214W		*AHA1*
YOL123W		*HRP1*
YDR353W		*TRR1*
YBR267W		*REI1*
YDR043C		*NRG1*
YDR254W		*CHL4*
YDR035W		*ARO3*
YGL101W		*YGK1*
YLR014C		*PPR1*
YOR083W		*WHI5*
YML100W		*TSL1*
YDR074W		*TPS2*
YPL012W		*RRP12*
YDR428C		*BNA7*
YOL043C		*NTG2*
YER175W-A	*Yes*	*YER175W-A*
YER180C		*ISC10*
YIL146C		*ATG32*
YCR099C		*YCR099C*
YDL087C		*LUC7*
YNL078W		*NIS1*
YDR293C		*SSD1*
YMR255W		*GFD1*
YNL308C		*KRI1*
YPR016C		*TIF6*
YBR250W		*SPO23*
YEL044W		*IES6*
YGR135W		*PRE9*
YLR363W-A	*Yes*	*YLR363W-A*
YOL005C		*RPB11*
YGL019W		*CKB1*

YOL069W		*NUF2*
YGR090W		*UTP22*
YPL255W		*BBP1*
YER099C		*PRS2*
YER040W		*GLN3*
YMR229C		*RRP5*
YGR287C		*IMA1*
YFR045W		*MRX20*
YOR381W-A	*Yes*	*YOR381W-A*
YIL153W		*RRD1*
YLR117C		*CLF1*
YDR273W		*DON1*
YNL265C		*IST1*
YLR174W		*IDP2*
YIL135C		*VHS2*
YMR321C	*Yes*	*YMR321C*
YDR499W		*LCD1*
YDL051W		*LHP1*
YDL167C		*NRP1*
YMR190C		*SGS1*
YDR419W		*RAD30*
YDR051C		*DET1*
YNL282W		*POP3*
YBR030W		*RKM3*
YOR224C		*RPB8*
YJL047C-A	*Yes*	*YJL047C-A*
YKL053C-A	*Yes*	*MDM35*
YML106W		*URA5*
YJL070C		*YJL070C*
YPL119C		*DBP1*
YOL145C		*CTR9*
YPR015C		*YPR015C*
YIL046W		*MET30*
YLR132C		*USB1*
YGR186W		*TFG1*
YKL081W		*TEF4*
YOR351C		*MEK1*
YNL164C		*IBD2*
YLR028C		*ADE16*
YPR083W		*MDM36*
YDR395W		*SXM1*
YIL072W		*HOP1*
YJL127C		*SPT10*
YCR087C-A		*YCR087C-A*
YEL019C		*MMS21*
YJR021C		*REC107*
YDR441C		*APT2*

YDR422C		*SIP1*
YOR363C		*PIP2*
YPL074W		*YTA6*
YHL001W		*RPL14B*
YHR001W-A	*Yes*	*QCR10*
YMR150C		*IMP1*
YOR025W		*HST3*
YBL026W	*Yes*	*LSM2*
YGR283C		*UPA1*
YHR102W		*KIC1*
YDR489W		*SLD5*
YIL050W		*PCL7*
YHL013C		*OTU2*
YIR009W		*MSL1*
YEL038W		*UTR4*
YBL057C		*PTH2*
YAL062W		*GDH3*
YDR390C		*UBA2*
YLR180W		*SAM1*
YIL083C		*CAB2*
YML026C		*RPS18B*
YGR273C		*YGR273C*
YCR088W		*ABP1*
YHR172W		*SPC97*
YLR390W		*ECM19*
YOR188W		*MSB1*
YKR017C		*HEL1*
YDR009W		*GAL3*
YDR202C		*RAV2*
YGR204C-A	*Yes*	*YGR204C-A*
YNL128W		*TEP1*
YBR119W		*MUD1*
YGR028W		*MSP1*
YIL107C		*PFK26*
YMR069W		*NAT4*
YOR129C		*AFI1*
YDR117C		*TMA64*
YIL007C		*NAS2*
YMR127C		*SAS2*
YGR210C		*YGR210C*
YOL144W		*NOP8*
YHR191C		*CTF8*
YPL071C		*YPL071C*
YDR085C		*AFR1*
YDR252W		*BTT1*
YLR011W		*LOT6*
YIR023W		*DAL81*

YNL311C		*SKP2*
YPR108W-A	*Yes*	*YPR108W-A*
YDL098C		*SNU23*
YGR003W		*CUL3*
YKR091W		*SRL3*
YMR126C		*DLT1*
YCL032W		*STE50*
YLR245C		*CDD1*
YNL200C		*NNR1*
YLR051C		*FCF2*
YLR107W		*REX3*
YML053C		*YML053C*
YPR007C		*REC8*
YDR457W		*TOM1*
YHR006W		*STP2*
YKR095W-A	*Yes*	*PCC1*
YOL142W		*RRP40*
YPR115W		*RGC1*
YDL109C		*YDL109C*
YOR038C		*HIR2*
YDR257C		*RKM4*
YAR007C		*RFA1*
YBL043W		*ECM13*
YLR386W		*VAC14*
YDL216C		*RRI1*
YIR002C		*MPH1*
YPL122C		*TFB2*
YGR098C		*ESP1*
YDR014W-A		*HED1*
YDR063W		*AIM7*
YHR205W		*SCH9*
YOL093W		*TRM10*
YOR315W		*SFG1*
YNR032C-A	*Yes*	*HUB1*
YKL126W		*YPK1*
YKL191W		*DPH2*
YLR247C		*IRC20*
YOR293C-A	*Yes*	*YOR293C-A*
YBR145W		*ADH5*
YDR473C		*PRP3*
YGR188C		*BUB1*
YNL182C		*IPI3*
YPL095C		*EEB1*
YLR409C		*UTP21*
YOL032W		*OPI10*
YGR127W		*YGR127W*
YGL256W		*ADH4*

YJL126W		*NIT2*
YGL170C		*SPO74*
YIL115C		*NUP159*
YDL117W		*CYK3*
YKL079W		*SMY1*
YGL004C		*RPN14*
YBR063C		*CNM1*
YBR142W		*MAK5*
YJL141C		*YAK1*
YOL057W		*YOL057W*
YLR153C		*ACS2*
YGL026C		*TRP5*
YDL064W		*UBC9*
YOR280C		*FSH3*
YNL328C		*MDJ2*
YJL153C		*INO1*
YOL038W		*PRE6*
YLR096W		*KIN2*
YOR141C		*ARP8*
YPL273W		*SAM4*
YNL277W		*MET2*
YOR252W		*TMA16*
YMR036C		*MIH1*
YHR136C		*SPL2*
YBR055C		*PRP6*
YHR167W		*THP2*
YLR113W		*HOG1*
YOR138C		*RUP1*
YBR192W		*RIM2*
YGR257C		*MTM1*
YDR025W		*RPS11A*
YHL012W		*YHL012W*
YIR005W		*IST3*
YDL086W		*YDL086W*
YMR158C-A	*Yes*	*YMR158C-A*
YMR269W		*TMA23*
YJL162C		*JJJ2*
YOR278W		*HEM4*
YGL009C		*LEU1*
YPL028W		*ERG10*
YDL031W		*DBP10*
YFL009W		*CDC4*
YDR540C		*IRC4*
YBR280C		*SAF1*
YGL112C		*TAF6*
YMR182C		*RGM1*
YPL116W		*HOS3*

YDL063C		SYO1
YGL066W		SGF73
YER172C		BRR2
YNR057C		BIO4
YMR195W		ICY1
YDR340W	Yes	YDR340W
YCL057C-A	Yes	MIC10
YCR097W		HMRA1
YHR042W		NCP1
YGR093W		DRN1
YAL061W		BDH2
YPL061W		ALD6
YDR182W-A	Yes	YDR182W-A
YCR008W		SAT4
YMR033W		ARP9
YHR122W		CIA2
YGL073W		HSF1
YOR144C		ELG1
YKL011C		CCE1
YER124C		DSE1
YGR142W		BTN2
YPR122W		AXL1
YER162C		RAD4
YBR240C		THI2
YNR071C		YNR071C
YDR152W		GIR2
YJL068C		YJL068C
YOL063C		CRT10
YPR052C	Yes	NHP6A
YPL052W		OAZ1
YOR385W		YOR385W
YBL079W		NUP170
YBL018C		POP8
YOR279C		RFM1
YIL021W		RPB3
YPL151C		PRP46
YER111C		SWI4
YIL008W	Yes	URM1
YNL036W		NCE103
YKR011C		FPT1
YDR272W		GLO2
YMR117C		SPC24
YNL224C		SQS1
YCR060W		TAH1
YNL152W		INN1
YOL041C		NOP12
YDR078C		SHU2

YDR369C		XRS2
YPL222C-A	Yes	YPL222C-A
YNR023W		SNF12
YGR187C		HGH1
YDR315C		IPK1
YGL144C		ROG1
YOR290C		SNF2
YPR045C		THP3
YMR169C		ALD3
YFL017C		GNA1
YAL060W		BDH1
YNL225C		CNM67
YBR133C		HSL7
YKL070W		YKL070W
YBL085W		BOI1
YHR209W		CRG1
YKR090W		PXL1
YFL008W		SMC1
YLR437C		DIF1
YMR128W		ECM16
YDR516C		EMI2
YIL104C		SHQ1
YER101C		AST2
YJL136C	Yes	RPS21B
YJL124C		LSM1
YKR037C		SPC34
YIR036C		IRC24
YLR131C		ACE2
YJL206C		YJL206C
YNL151C		RPC31
YDL030W		PRP9
YDR138W		HPR1
YDL207W		GLE1
YGL064C		MRH4
YDL176W		GID12
YDR429C		TIF35
YFR002W		NIC96
YHL023C		NPR3
YLR430W		SEN1
YJR035W		RAD26
YFL049W		SWP82
YBR136W		MEC1
YOR127W		RGA1
YPL110C		GDE1
YMR106C		YKU80
YJR024C		MDE1
YNL112W		DBP2

YJR089W		*BIR1*
YOR389W		*YOR389W*
YNL199C		*GCR2*
YPL027W		*SMA1*
YBR085W		*AAC3*
YDL007C-A	*Yes*	*YDL007C-A*
YLL057C		*JLP1*
YDR139C	*Yes*	*RUB1*
YHL024W		*RIM4*
YCR031C		*RPS14A*
YBL025W		*RRN10*
YDR106W		*ARP10*
YOR095C		*RKI1*
YPL165C		*SET6*
YBR022W		*POA1*
YOR297C		*TIM18*
YMR170C		*ALD2*
YOR294W		*RRS1*
YBL084C		*CDC27*
YIL112W		*HOS4*
YPR018W		*RLF2*
YLR270W		*DCS1*
YOL098C		*SDD3*
YDR052C		*DBF4*
YHR085W		*IPI1*
YOR316C-A	*Yes*	*YOR316C-A*
YFR047C		*BNA6*
YJR083C		*ACF4*
YMR262W		*YMR262W*
YOR057W		*SGT1*
YNL094W		*APP1*
YDL189W		*RBS1*
YDR502C		*SAM2*
YNL230C		*ELA1*
YOL054W		*PSH1*
YOR001W		*RRP6*
YMR227C		*TAF7*
YDR295C		*HDA2*
YDL186W		*YDL186W*
YPR084W		*YPR084W*
YER027C		*GAL83*
YPL054W		*LEE1*
YDR531W		*CAB1*
YNL286W		*CUS2*
YOR167C	*Yes*	*RPS28A*
YFR052W		*RPN12*
YGR232W		*NAS6*

YBR289W		SNF5
YPL124W		SPC29
YBR066C		NRG2
YJL148W		RPA34
YJR046W		TAH11
YJL179W	Yes	PFD1
YCL061C		MRC1
YNL220W		ADE12
YNL316C		PHA2
YLR141W		RRN5
YOR056C		NOB1
YJR119C		JHD2
YPL105C		SYH1
YKL032C		IXR1
YDR096W		GIS1
YDL106C		PHO2
YDL190C		UFD2
YHR137W		ARO9
YML074C		FPR3
YLR347C		KAP95
YOR342C		YOR342C
YBR140C		IRA1
YLR215C		CDC123
YGL253W		HXK2
YJL066C		MPM1
YGL258W-A	Yes	YGL258W-A
YKR008W		RSC4
YOR066W		MSA1
YIR001C		SGN1
YOR007C		SGT2
YOR014W		RTS1
YDR444W		YDR444W
YKL005C		BYE1
YJL137C		GLG2
YLR074C		BUD20
YNL059C		ARP5
YLR425W		TUS1
YOR304W		ISW2
YPR048W		TAH18
YPL039W		YPL039W
YGL176C		YGL176C
YIL034C		CAP2
YLR071C		RGR1
YLL060C		GTT2
YMR104C		YPK2
YFL028C		CAF16
YDL115C		IWR1

YGL062W		*PYC1*
YPR097W		*LEC1*
YBR169C		*SSE2*
YDR004W		*RAD57*
YOR177C		*MPC54*
YBR253W		*SRB6*
YKR099W		*BAS1*
YGR195W		*SKI6*
YLR427W		*MAG2*
YDL114W		*YDL114W*
YPL030W		*TRM44*
YPL086C		*ELP3*
YBR033W		*EDS1*
YIL078W		*THS1*
YJR095W		*SFC1*
YGL171W		*ROK1*
YLL002W		*RTT109*
YJL208C		*NUC1*
YOR110W		*TFC7*
YIL130W		*ASG1*
YBR007C		*DSF2*
YGL196W		*DSD1*
YJR062C		*NTA1*
YMR235C		*RNA1*
YGL087C		*MMS2*
YKL050C		*LPX2*
YMR135C		*GID8*
YER110C		*KAP123*
YDL243C		*AAD4*
YBL091C		*MAP2*
YKR081C		*RPF2*
YOR126C		*IAH1*
YDL168W		*SFA1*
YGL120C		*PRP43*
YMR094W		*CTF13*
YGL013C		*PDR1*
YNR009W		*NRM1*
YOR304C-A	*Yes*	*BIL1*
YCR050C	*Yes*	*YCR050C*
YDL083C		*RPS16B*
YNL153C		*GIM3*
YOL108C		*INO4*
YPR116W		*RRG8*
YOL125W		*TRM13*
YDL153C		*SAS10*
YER149C		*PEA2*
YLR186W		*EMG1*

YML086C		ALO1
YNL072W		RNH201
YBR257W		POP4
YKL048C		ELM1
YER179W		DMC1
YNR010W		CSE2
YBR291C		CTP1
YOR123C		LEO1
YAR003W		SWD1
YHR058C		MED6
YDR206W		EBS1
YER043C		SAH1
YMR001C		CDC5
YPR106W		ISR1
YCR077C		PAT1
YOR340C		RPA43
YLR267W		BOP2
YKR002W		PAP1
YLR012C	Yes	YLR012C
YMR112C		MED11
YNR052C		POP2
YLR454W		FMP27
YMR076C		PDS5
YPL183C		RTT10
YDR440W		DOT1
YDR532C		KRE28
YDL220C		CDC13
YAL037W		YAL037W
YOL001W		PHO80
YJL115W		ASF1
YIL056W		VHR1
YDR488C		PAC11
YOR250C		CLP1
YDR242W		AMD2
YOL139C		CDC33
YPR046W		MCM16
YPL190C		NAB3
YFR031C		SMC2
YPL055C		LGE1
YBL034C		STU1
YLR225C		YLR225C
YAL056W		GPB2
YML022W		APT1
YER037W		PHM8
YKL009W		MRT4
YNR047W		FPK1
YDL218W		YDL218W

YER023W		*PRO3*
YMR294W		*JNM1*
YKR080W		*MTD1*
YOR195W		*SLK19*
YCL011C		*GBP2*
YLR418C		*CDC73*
YHR018C		*ARG4*
YIR027C		*DAL1*
YNL313C		*EMW1*
YLR351C		*NIT3*
YLR348C		*DIC1*
YLR315W		*NKP2*
YPL011C		*TAF3*
YML014W		*TRM9*
YML076C		*WAR1*
YBL029C-A	*Yes*	*YBL029C-A*
YGR181W	*Yes*	*TIM13*
YML023C		*NSE5*
YER003C		*PMI40*
YFR040W		*SAP155*
YGL237C		*HAP2*
YKR060W		*UTP30*
YNR064C		*YNR064C*
YLR410W		*VIP1*
YOR163W		*DDP1*
YDL132W		*CDC53*
YLR420W		*URA4*
YER164W		*CHD1*
YPL106C		*SSE1*
YMR092C		*AIP1*
YOR052C		*TMC1*
YOR033C		*EXO1*
YDR416W		*SYF1*
YLR116W		*MSL5*
YDL205C		*HEM3*
YEL037C		*RAD23*
YKR098C		*UBP11*
YGL207W		*SPT16*
YJR055W		*HIT1*
YCR072C		*RSA4*
YDL227C		*HO*
YPL022W		*RAD1*
YGL158W		*RCK1*
YMR099C		*YMR099C*
YLL045C		*RPL8B*
YPL248C		*GAL4*
YOR080W		*DIA2*

YEL005C		VAB2
YKL108W		SLD2
YFR010W		UBP6
YDL124W		YDL124W
YML116W-A	Yes	YML116W-A
YPL007C		TFC8
YML065W		ORC1
YIL151C		ESL1
YIL103W		DPH1
YPL113C		YPL113C
YML002W		VRL1
YPL214C		THI6
YLR006C		SSK1
YNL147W		LSM7
YPL138C		SPP1
YDR042C		YDR042C
YPR133C		SPN1
YML094W		GIM5
YDL215C		GDH2
YNL253W		TEX1
YBL029W		YBL029W
YDL224C		WHI4
YFR034C		PHO4
YKL014C		URB1
YML093W		UTP14
YBR221W-A	Yes	YBR221W-A
YGL249W		ZIP2
YLR407W		GAG1
YAL036C		RBG1
YDR266C		HEL2
YNL014W		HEF3
YPL152W-A	Yes	YPL152W-A
YJR069C		HAM1
YCR066W		RAD18
YGL033W		HOP2
YIL077C		RCI37
YDR066C		RTR2
YGL151W		NUT1
YLL034C		RIX7
YLR103C		CDC45
YER013W		PRP22
YNR003C		RPC34
YGR271W		SLH1
YOR159C	Yes	SME1
YER032W		FIR1
YKR024C		DBP7
YOR166C		SWT1

YGR196C		*FYV8*
YPR093C		*ASR1*
YOR174W		*MED4*
YGR249W		*MGA1*
YJR010W		*MET3*
YDR510W	*Yes*	*SMT3*
YMR113W		*FOL3*
YBR061C		*TRM7*
YNL236W		*SIN4*
YBR228W		*SLX1*
YBR083W		*TEC1*
YGR205W		*TDA10*
YKR082W		*NUP133*
YER105C		*NUP157*
YPR068C		*HOS1*
YBR098W		*MMS4*
YGR008C	*Yes*	*STF2*
YMR288W		*HSH155*
YAR015W		*ADE1*
YEL032W		*MCM3*
YIL128W		*MET18*
YBL074C		*AAR2*
YDR280W		*RRP45*
YJL190C		*RPS22A*
YNL122C		*MRP35*
YBL008W		*HIR1*
YNL050C		*YNL050C*
YDL140C		*RPO21*
YGR268C		*HUA1*
YJR033C		*RAV1*
YNL195C		*YNL195C*
YDR460W		*TFB3*
YLR455W		*PDP3*
YNL259C	*Yes*	*ATX1*
YDR192C		*NUP42*
YHR115C		*DMA1*
YDL209C		*CWC2*
YGL234W		*ADE57*
YGR136W		*LSB1*
YJL121C		*RPE1*
YJR078W		*BNA2*
YIL035C		*CKA1*
YFL010C		*WWM1*
YPR070W		*MED1*
YER175C		*TMT1*
YLR192C		*HCR1*
YPL258C		*THI21*

YBR058C		*UBP14*
YLR085C		*ARP6*
YDR161W		*ACL4*
YIR026C		*YVH1*
YML088W		*UFO1*
YKL193C		*SDS22*
YKR071C		*DRE2*
YER049W		*TPA1*
YDR236C		*FMN1*
YLR373C		*VID22*
YGL110C		*CUE3*
YKR052C		*MRS4*
YOL102C		*TPT1*
YGL224C		*SDT1*
YFR032C		*RRT5*
YDR392W		*SPT3*
YDR303C		*RSC3*
YOR109W		*INP53*
YLR231C		*BNA5*
YKR104W		*YKR104W*
YKR078W		*VPS501*
YMR199W		*CLN1*
YOL149W		*DCP1*
YPR101W		*SNT309*
YOR140W		*SFL1*
YGR117C		*YGR117C*
YHR157W		*REC104*
YEL011W		*GLC3*
YIL063C		*YRB2*
YML003W		*YML003W*
YER152C		*YER152C*
YGR277C		*CAB4*
YKL091C		*YKL091C*
YER165W		*PAB1*
YAR020C	*Yes*	*PAU7*
YGR012W		*MCY1*
YML112W		*CTK3*
YHL009C		*YAP3*
YER103W		*SSA4*
YOR132W		*VPS17*
YMR096W		*SNZ1*
YGR245C		*SDA1*
YPL230W		*USV1*
YHR210C		*YHR210C*
YNL099C		*OCA1*
YMR130W		*DPI35*
YGR042W		*MTE1*

YPR036W-A	*Yes*	*SPO24*
YMR251W		*GTO3*
YMR078C		*CTF18*
YER046W		*SPO73*
YIL159W		*BNR1*
YBR242W		*YBR242W*
YNR058W		*BIO3*
YGR203W		*YCH1*
YOL109W		*ZEO1*
YBR195C		*MSI1*
YDR180W		*SCC2*
YHR129C		*ARP1*
YLR422W		*DCK1*
YPR108W		*RPN7*
YKL113C		*RAD27*
YOR062C		*YOR062C*
YOR269W		*PAC1*
YOR130C		*ORT1*
YGL194C		*HOS2*
YNL133C		*FYV6*
YGR079W		*YGR079W*
YAL034W-A		*MTW1*
YBR239C		*ERT1*
YOR295W		*UAF30*
YJL098W		*SAP185*
YAL059W		*ECM1*
YPL196W		*OXR1*
YBR104W		*YMC2*
YGL057C		*GEP7*
YBL113C		*YBL113C*
YCL035C		*GRX1*
YFR033C		*QCR6*
YPR196W		*YPR196W*
YNR020C		*ATP23*
YGL221C		*NIF3*
YPL155C		*KIP2*
YGR250C		*RIE1*
YLR335W		*NUP2*
YNL274C		*GOR1*
YLR429W		*CRN1*
YBR238C		*YBR238C*
YDR514C		*YDR514C*
YMR021C		*MAC1*
YGR043C		*NQM1*
YAR018C		*KIN3*
YPL226W		*NEW1*
YDL025C		*RTK1*

YCR091W		*KIN82*
YML051W		*GAL80*
YGL059W		*PKP2*
YPR200C		*ARR2*
YBR045C		*GIP1*
YPL091W		*GLR1*
YBL032W		*HEK2*
YOR151C		*RPB2*
YNL339W-A		*YNL339W-A*
YGR158C		*MTR3*
YPR021C		*AGC1*
YPR158W		*CUR1*
YOR114W		*CIM1*
YIL098C		*FMC1*
YPR189W		*SKI3*
YER167W		*BCK2*
YKR077W		*MSA2*
YHR216W		*IMD2*
YLR150W		*STM1*
YLR079W		*SIC1*
YIL152W		*VPR1*
YKL099C		*UTP11*
YIL096C		*BMT5*
YGL040C		*HEM2*
YGL058W		*RAD6*
YBR266C		*SLM6*
YEL039C		*CYC7*
YOL164W		*BDS1*
YER056C-A		*RPL34A*
YKR045C		*YKR045C*
YNL039W		*BDP1*
YIL042C		*PKP1*
YKL208W		*CBT1*
YPL247C		*YPL247C*
YDR067C		*OCA6*
YLR095C		*IOC2*
YKR063C		*LAS1*
YMR137C		*PSO2*
YJL016W		*TPH3*
YPR025C		*CCL1*
YJR104C		*SOD1*
YNL121C		*TOM70*
YML043C		*RRN11*
YJL138C		*TIF2*
YBL063W		*KIP1*
YPR034W		*ARP7*
YDL184C	*Yes*	*RPL41A*

YKL054C		*DEF1*
YJL061W		*NUP82*
YLR185W	*Yes*	*RPL37A*
YBL088C		*TEL1*
YLR049C		*MLO50*
YPL088W		*YPL088W*
YDL157C		*DMO2*
YKL068W		*NUP100*
YMR240C		*CUS1*
YKR048C		*NAP1*
YBR298C-A	*Yes*	*YBR298C-A*
YOR234C	*Yes*	*RPL33B*
YOR396C-A		*YOR396C-A*
YBL054W		*TOD6*
YPR188C		*MLC2*
YLR134W		*PDC5*
YMR317W		*YMR317W*
YKR049C		*FMP46*
YAL032C		*PRP45*
YGL261C		*PAU11*
YGR225W		*AMA1*
YGL229C		*SAP4*
YDR109C		*YDR109C*
YOR267C		*HRK1*
YHR183W		*GND1*
YDL148C		*NOP14*
YKL152C		*GPM1*
YPR144C		*NOC4*
YDR285W		*ZIP1*
YOL038C-A	*Yes*	*YOL038C-A*
YGR052W		*FMP48*
YKL021C		*MAK11*
YLR441C		*RPS1A*
YPL253C		*VIK1*
YHR162W		*MPC2*
YAL016W		*TPD3*
YBR299W		*MAL32*
YHR117W		*TOM71*
YMR322C		*SNO4*
YCR018C-A	*Yes*	*YCR018C-A*
YPL108W		*YPL108W*
YIL149C		*MLP2*
YML030W		*RCF1*
YDR482C		*CWC21*
YAL067W-A	*Yes*	*YAL067W-A*
YEL075C		*YEL075C*
YMR047C		*NUP116*

YPL107W		*DPC25*
YDR341C		*YDR341C*
YKL056C		*TMA19*
YOL127W		*RPL25*
YDR006C		*SOK1*
YHL025W		*SNF6*
YOR229W		*WTM2*
YOR137C		*SIA1*
YBR249C		*ARO4*
YIL031W		*ULP2*
YER158C		*YER158C*
YPL179W		*PPQ1*
YER188C-A	*Yes*	*YER188C-A*
YFL001W		*DEG1*
YLR257W		*YLR257W*
YMR205C		*PFK2*
YGL135W		*RPL1B*
YGR034W		*RPL26B*
YHR003C		*TCD1*
YPL245W		*YPL245W*
YGR015C		*EAT1*
YDL088C		*ASM4*
YMR186W		*HSC82*
YHL022C		*SPO11*
YKR074W		*AIM29*
YOR233W		*KIN4*
YGL155W		*CDC43*
YEL030W		*ECM10*
YEL049W		*PAU2*
YGR156W		*PTI1*
YLR419W		*YLR419W*
YNL221C		*POP1*
YPR148C		*YPR148C*
YOR061W		*CKA2*
YLR305C		*STT4*
YLR154C-H	*Yes*	*YLR154C-H*
YBR181C		*RPS6B*
YDR002W		*YRB1*
YCR042C		*TAF2*
YGR235C		*MIC26*
YEL070W		*DSF1*
YNR029C		*ZNG1*
YPR162C		*ORC4*
YCR014C		*POL4*
YNL239W		*LAP3*
YPR154W		*PIN3*
YHR100C		*GEP4*

YKL143W		*LTV1*
YLL019C		*KNS1*
YPL283W-B		*YPL283W-B*
YGR050C		*YGR050C*
YER161C		*SPT2*
YGL125W		*MET13*
YER148W		*SPT15*
YAL044W-A	*Yes*	*BOL1*
YKL171W		*NNK1*
YML119W		*YML119W*
YDR156W		*RPA14*
YAR035W		*YAT1*
YLR388W	*Yes*	*RPS29A*
YGR292W		*MAL12*
YBR270C		*BIT2*
YBL055C		*YBL055C*
YNL335W		*DDI2*
YKR070W		*YKR070W*
YNR073C		*MAN2*
YNL334C		*SNO2*
YDR324C		*UTP4*
YIL172C		*IMA3*
YPR184W		*GDB1*
YOR230W		*WTM1*
YFL061W		*DDI3*
YGR081C		*SLX9*
YJR138W		*IML1*
YLR162W		*YLR162W*
YJL071W		*ARG2*
YDR277C		*MTH1*
YDL079C		*MRK1*
YMR093W		*UTP15*
YPR160W		*GPH1*
YKL109W		*HAP4*
YDR450W		*RPS18A*
YNL030W	*Yes*	*HHF2*
YOR347C		*PYK2*
YPR182W	*Yes*	*SMX3*
YBL015W		*ACH1*
YKL198C		*PTK1*
YGR118W		*RPS23A*
YER053C		*PIC2*
YFL012W		*YFL012W*
YKL071W		*OSI1*
YJL144W	*Yes*	*ROQ1*
YBR158W		*AMN1*
YBR262C	*Yes*	*MIC12*

YLL029W		*FRA1*
YOR047C		*STD1*
YPR002W		*PDH1*
YML111W		*BUL2*
YNL222W		*SSU72*
YFL058W		*THI5*
YNL256W		*FOL1*
YPR024W		*YME1*
YLR273C		*PIG1*
YDR155C		*CPR1*
YNL107W		*YAF9*
YFL014W	*Yes*	*HSP12*
YDL203C		*ACK1*
YHR066W		*SSF1*
YDR061W		*YDR061W*
YAR064W	*Yes*	*YAR064W*
YCR030C		*SYP1*
YHR113W		*APE4*
YPR179C		*HDA3*
YDR223W		*CRF1*
YGR201C		*YGR201C*
YOR023C		*AHC1*
YDR037W		*KRS1*
YLR226W		*BUR2*
YML021C		*UNG1*
YNR022C		*MRPL50*
YPR172W		*YPR172W*
YNL063W		*MTQ1*
YPR152C		*URN1*
YBR233W		*PBP2*
YER106W		*MAM1*
YPR134W		*MSS18*
YDR477W		*SNF1*
YDL229W		*SSB1*
YCR104W		*PAU3*
YDL061C	*Yes*	*RPS29B*
YNL302C		*RPS19B*
YDR310C		*SUM1*
YPR011C		*MRX21*
YOL157C		*IMA2*
YLR256W		*HAP1*
YOR227W		*HER1*
YFR001W		*LOC1*
YJR014W		*TMA22*
YLR155C		*ASP3-1*
YBL002W		*HTB2*
YOR017W		*PET127*

YPL082C		MOT1
YHR014W		SPO13
YER047C		SAP1
YPR145W		ASN1
YLR157W-D	Yes	YLR157W-D
YBL028C	Yes	YBL028C
YPR175W		DPB2
YER033C		ZRG8
YLR328W		NMA1
YNL301C		RPL18B
YPR178W		PRP4
YPR161C		SGV1
YPR193C		HPA2
YLR193C		UPS1
YGL162W		SUT1
YPR040W		TIP41
YPR163C		TIF3
YML020W		YML020W
YLR397C		AFG2
YPR160C-A	Yes	YPR160C-A
YOL114C		PTH4
YPR204C-A		YPR204C-A
YOR098C		NUP1
YAL054C		ACS1
YIL055C		YIL055C
YKR096W		ESL2
YDR014W		RAD61
YER173W		RAD24
YDL002C		NHP10
YDL171C		GLT1
YNL021W		HDA1
YGR001C		EFM5
YGR214W		RPS0A
YEL067C		YEL067C
YLL036C		PRP19
YEL008W		YEL008W
YMR315W		YMR315W
YMR280C		CAT8
YPL031C		PHO85
YNL339W-B		YNL339W-B
YDL246C		SOR2
YCL033C		MXR2
YLR133W		CKI1
YGL044C		RNA15
YPL003W		ULA1
YPR145C-A	Yes	YPR145C-A
YPL209C		IPL1

YDR169C		*STB3*
YIL091C		*UTP25*
YDL214C		*PRR2*
YJL026W		*RNR2*
YNL025C		*SSN8*
YLR307C-A	*Yes*	*DPA10*
YNL106C		*INP52*
YKL049C		*CSE4*
YMR073C		*IRC21*
YGR085C		*RPL11B*
YGR027C	*Yes*	*RPS25A*
YPR143W		*RRP15*
YKR094C		*RPL40B*
YDR125C		*ECM18*
YKL078W		*DHR2*
YPR190C		*RPC82*
YNR018W		*RCF2*
YNL165W		*YNL165W*
YPR174C		*CSA1*
YOR255W		*OSW1*
YKL168C		*KKQ8*
YPR132W		*RPS23B*
YHR116W		*COX23*
YAR002W		*NUP60*
YML049C		*RSE1*
YNL132W		*KRE33*
YGR234W		*YHB1*
YJR112W		*NNF1*
YMR004W		*MVP1*
YHR031C		*RRM3*
YPL157W		*TGS1*
YDR130C		*FIN1*
YPL203W		*TPK2*
YPR171W		*BSP1*
YGR150C		*CCM1*
YPR085C		*ASA1*
YJL122W		*ALB1*
YJR110W		*YMR1*
YNL209W		*SSB2*
YBR230W-A	*Yes*	*COQ21*
YLR466W		*YRF1-4*
YHR070W		*TRM5*
YFL060C		*SNO3*
YKR059W		*TIF1*
YOL021C		*DIS3*
YBR203W		*COS111*
YHL014C		*YLF2*

YOR054C		*VHS3*
YBR071W		*YBR071W*
YLR017W		*MEU1*
YOR297C		*TIM18*
YNL330C		*RPD3*
YLR333C	*Yes*	*RPS25B*
YER036C		*ARB1*
YOR276W		*CAF20*
YNL273W		*TOF1*
YNL124W		*NAF1*
YHR075C		*PPE1*
YDL081C	*Yes*	*RPP1A*
YLR219W		*MSC3*
YPL212C		*PUS1*
YFL024C		*EPL1*
YDL084W		*SUB2*
YMR242W-A	*Yes*	*YMR242W-A*
YML015C		*TAF11*
YGR067C		*YGR067C*
YCR092C		*MSH3*
YPR107C		*YTH1*
YJL105W		*SET4*
YCL059C		*KRR1*
YPL081W		*RPS9A*
YGL244W		*RTF1*
YLR008C		*PAM18*
YOL136C		*PFK27*
YBR258C		*SHG1*
YBR244W		*GPX2*
YKL172W		*EBP2*
YBR281C		*DUG2*
YLR136C		*TIS11*
YML118W		*NGL3*
YGR070W		*ROM1*
YOR028C		*CIN5*
YKR086W		*PRP16*
YBR052C		*RFS1*
YLR135W		*SLX4*
YOL135C		*MED7*
YLL035W		*GRC3*
YGL150C		*INO80*
YGL106W		*MLC1*
YKL127W		*PGM1*
YJR052W		*RAD7*
YLR387C		*REH1*
YGR218W		*CRM1*
YBR081C		*SPT7*

YAL021C		*CCR4*
YHR079C-A	*Yes*	*SAE3*
YPR074W-A	*Yes*	*YPR074W-A*
YDR227W		*SIR4*
YGL093W		*SPC105*
YGR194C		*XKS1*
YDR520C		*URC2*
YMR176W		*ECM5*
YKL128C		*PMU1*
YPL223C		*GRE1*
YPL202C		*AFT2*
YNL298W		*CLA4*
YOR266W		*PNT1*
YMR277W		*FCP1*
YCR090C		*YCR090C*
YMR074C		*SDD2*
YNR024W		*MPP6*
YPR110C		*RPC40*
YDR398W		*UTP5*
YGR096W		*TPC1*
YPL239W		*YAR1*
YKL027W		*TCD2*
YOL024W		*YOL024W*
YMR244C-A	*Yes*	*COA6*
YER102W		*RPS8B*
YJR097W		*JJJ3*
YLR182W		*SWI6*
YER116C		*SLX8*
YJL130C		*URA2*
YMR196W		*YMR196W*
YGL016W		*KAP122*
YLL062C		*MHT1*
YDR181C		*SAS4*
YHL039W		*EFM1*
YGR148C		*RPL24B*
YDL073W		*AHK1*
YCR107W		*AAD3*
YLR053C	*Yes*	*NRS1*
YLR125W		*YLR125W*
YLR336C		*SGD1*
YER169W		*RPH1*
YKL138C-A	*Yes*	*HSK3*
YGR010W		*NMA2*
YHR013C		*ARD1*
YIL053W		*GPP1*
YNL010W		*PYP1*
YDR013W		*PSF1*

YER062C		*GPP2*
YMR194C-B	*Yes*	*CMC4*
YMR105C		*PGM2*
YAL037C-A	*Yes*	*YAL037C-A*
YJL048C		*UBX6*
YIL101C		*XBP1*
YOL111C		*MDY2*
YPL009C		*RQC2*
YGR007W		*ECT1*
YLR312C		*ATG39*
YOL112W		*MSB4*
YPL056C	*Yes*	*LCL1*
YLR316C		*TAD3*
YHR023W		*MYO1*
YJR056C		*YJR056C*
YKR015C		*YKR015C*
YLR187W		*SKG3*
YBR182C		*SMP1*
YPL033C		*SRL4*
YER176W		*ECM32*
YPL139C		*UME1*
YBR089C-A	*Yes*	*NHP6B*
YLR177W		*YLR177W*
YPL201C		*YIG1*
YDR436W		*PPZ2*
YNL103W		*MET4*
YMR037C		*MSN2*
YJR084W		*YJR084W*
YGL029W		*CGR1*
YLR115W		*CFT2*
YCR076C		*FUB1*
YLR412C-A	*Yes*	*YLR412C-A*
YPR010C		*RPA135*
YPR056W		*TFB4*
YMR194W	*Yes*	*RPL36A*
YLL039C		*UBI4*
YCR054C		*CTR86*
YOR244W		*ESA1*
YMR146C		*TIF34*
YBR246W		*RRT2*
YDR354W		*TRP4*
YGR153W		*YGR153W*
YKL137W		*CMC1*
YOR222W		*ODC2*
YOL076W		*MDM20*
YDR121W		*DPB4*
YFR013W		*IOC3*

YER022W		*SRB4*
YOL113W		*SKM1*
YOR021C		*SFM1*
YER071C		*TDA2*
YER147C		*SCC4*
YHR017W		*YSC83*
YOR186C-A	*Yes*	*YOR186C-A*
YJL065C		*DLS1*
YER024W		*YAT2*
YER063W		*THO1*
YHR012W		*VPS29*
YJL187C		*SWE1*
YPL233W		*NSL1*
YLR082C		*SRL2*
YDR058C		*TGL2*
YDR122W		*KIN1*
YFR024C-A		*LSB3*
YKR004C		*ECM9*
YPL129W		*TAF14*
YJR059W		*PTK2*
YDR305C		*HNT2*
YPR022C		*SDD4*
YDR207C		*UME6*
YBR279W		*PAF1*
YLL040C		*VPS13*
YDR128W		*MTC5*
YML070W		*DAK1*
YNL187W		*SWT21*
YOR394C-A	*Yes*	*YOR394C-A*
YLR058C		*SHM2*
YPR118W		*MRI1*
YDR453C		*TSA2*
YEL061C		*CIN8*
YIL045W		*PIG2*
YBL076C		*ILS1*
YBR010W		*HHT1*
YDL166C		*FAP7*
YNL210W		*MER1*
YDR083W		*RRP8*
YLR146C		*SPE4*
YBR006W		*UGA2*
YKL210W		*UBA1*
YPL164C		*MLH3*
YMR276W		*DSK2*
YGR109C		*CLB6*
YJL011C		*RPC17*
YJL090C		*DPB11*

YGL254W		*FZF1*
YNL007C		*SIS1*
YKR041W		*YKR041W*
YNR069C		*BSC5*
YHR134W		*WSS1*
YFR003C		*YPI1*
YDR146C		*SWI5*
YOL052C		*SPE2*
YKL068W-A	*Yes*	*YKL068W-A*
YIL110W		*HPM1*
YGL023C		*PIB2*
YHR041C		*SRB2*
YFR016C		*AIP5*
YDR032C		*PST2*
YDR374W-A	*Yes*	*WIP1*
YBR111W-A	*Yes*	*SUS1*
YOR100C		*CRC1*
YJL049W		*CHM7*
YHR166C		*CDC23*
YNL331C		*AAD14*
YJL023C		*PET130*
YKL088W		*CAB3*
YLR044C		*PDC1*
YPR167C		*MET16*
YIL136W		*OM45*
YDR308C		*SRB7*
YJL092W		*SRS2*
YKL222C		*YKL222C*
YLL009C	*Yes*	*COX17*
YOR096W		*RPS7A*
YML007W		*YAP1*
YMR100W		*MUB1*
YGR002C		*SWC4*
YCR057C		*PWP2*
YHL038C		*CBP2*
YJL109C		*UTP10*
YGL216W		*KIP3*
YNL184C	*Yes*	*YNL184C*
YIL066C		*RNR3*
YKL062W		*MSN4*
YAL047C		*SPC72*
YHR029C		*YHI9*
YOR120W		*GCY1*
YKL090W		*CUE2*
YDR225W		*HTA1*
YNL045W		*LAP2*
YNR054C		*ESF2*

YDR289C		*RTT103*
YLR264C-A	*Yes*	*YLR264C-A*
YDR529C		*QCR7*
YLR327C	*Yes*	*TMA10*
YHR119W		*SET1*
YOL086C		*ADH1*
YPL211W		*NIP7*
YDL047W		*SIT4*
YMR070W		*MOT3*
YKL167C		*MRP49*
YPR169W		*JIP5*
YGR231C		*PHB2*
YPL048W		*CAM1*
YOL010W		*RCL1*
YLR249W		*YEF3*
YMR090W		*YMR090W*
YDR116C		*MRPL1*
YJR048W	*Yes*	*CYC1*
YIL052C		*RPL34B*
YMR295C		*GSR1*
YIR013C		*GAT4*
YMR311C		*GLC8*
YGL076C		*RPL7A*
YMR275C		*BUL1*
YMR003W		*AIM34*
YPL013C		*MRPS16*
YJR008W		*MHO1*
YBL030C		*PET9*
YER130C		*COM2*
YML016C		*PPZ1*
YIL142W		*CCT2*
YDL159W		*STE7*
YGR076C		*MRPL25*
YOL117W		*RRI2*
YOR161W-A	*Yes*	*YOR161W-A*
YCR016W		*RBP95*
YPL160W		*CDC60*
YPL077C		*YPL077C*
YGR100W		*MDR1*
YKL149C		*DBR1*
YGR078C		*PAC10*
YER090W		*TRP2*
YPL216W		*YPL216W*
YBR108W		*AIM3*
YPR096C	*Yes*	*YPR096C*
YOR262W		*GPN2*
YLR406C		*RPL31B*

YML095C		*RAD10*
YMR184W		*ADD37*
YAL020C		*ATS1*
YIL087C		*AIM19*
YGL031C		*RPL24A*
YLR258W		*GSY2*
YLR375W		*STP3*
YHR170W		*NMD3*
YBL067C		*UBP13*
YER088C		*DOT6*
YDL127W		*PCL2*
YMR166C		*MME1*
YGR116W		*SPT6*
YGR208W		*SER2*
YNL317W		*PFS2*
YDR299W		*BFR2*
YKL084W		*HOT13*
YNL215W		*IES2*
YOR116C		*RPO31*
YMR175W-A	*Yes*	*YMR175W-A*
YIL071C		*PCI8*
YDR247W		*VHS1*
YFL013C		*IES1*
YHR034C		*PIH1*
YFR017C		*IGD1*
YOL155W-A	*Yes*	*YOL155W-A*
YNL082W		*PMS1*
YCR036W		*RBK1*
YOR035C		*SHE4*
YNL299W		*TRF5*
YER180C-A	*Yes*	*SLO1*
YLR055C		*SPT8*
YML096W		*YML096W*
YGR237C		*YGR237C*
YKL107W		*YKL107W*
YGR174W-A	*Yes*	*YGR174W-A*
YOL061W		*PRS5*
YLR248W		*RCK2*
YDR443C		*SSN2*
YFR012W-A	*Yes*	*YFR012W-A*
YOR072W-B	*Yes*	*YOR072W-B*
YDR409W		*SIZ1*
YLR399C		*BDF1*
YJL155C		*FBP26*
YKL086W		*SRX1*
YLR211C		*ATG38*
YML057W		*CMP2*

YIL119C		*RPI1*
YBR148W		*YSW1*
YBR173C		*UMP1*
YJR067C		*YAE1*
YKL216W		*URA1*
YOR287C		*RRP36*
YIL075C		*RPN2*
YNR034W-A	*Yes*	*EGO4*
YOR239W		*ABP140*
YHR071W		*PCL5*
YOR122C		*PFY1*
YGL190C		*CDC55*
YPL210C		*SRP72*
YDL235C		*YPD1*
YDR026C		*NSI1*
YNL067W-B	*Yes*	*YNL067W-B*
YLR154C		*RNH203*
YBR218C		*PYC2*
YNR011C		*PRP2*
YGR088W		*CTT1*
YOL034W		*SMC5*
YDL143W		*CCT4*
YMR284W		*YKU70*
YCR082W		*AHC2*
YPR199C		*ARR1*
YNL168C		*FMP41*
YPL090C		*RPS6A*
YDR012W		*RPL4B*
YDR336W		*MRX8*
YML107C		*PML39*
YDR421W		*ARO80*
YDR163W		*CWC15*
YPL005W		*AEP3*
YDL133C-A	*Yes*	*RPL41B*
YIL106W		*MOB1*
YOR217W		*RFC1*
YPL014W		*CIP1*
YPR186C		*PZF1*
YLR344W		*RPL26A*
YHR203C		*RPS4B*
YLR383W		*SMC6*
YKL132C		*RMA1*
YPL079W		*RPL21B*
YNL069C		*RPL16B*
YGR162W		*TIF4631*
YDR208W		*MSS4*
YMR286W	*Yes*	*MRPL33*

YNL134C		*YNL134C*
YFL059W		*SNZ3*
YGL193C	*Yes*	*YGL193C*
YPR020W		*ATP20*
YJL046W		*AIM22*
YPL068C		*YPL068C*
YPL148C		*PPT2*
YPL220W		*RPL1A*
YGL133W		*ITC1*
YHR127W		*YHR127W*
YDR028C		*REG1*
YML041C		*VPS71*
YNL281W		*HCH1*
YOR077W		*RTS2*
YGL122C		*NAB2*
YBR115C		*LYS2*
YJL181W		*RBH1*
YDR418W		*RPL12B*
YOR026W		*BUB3*
YLR033W		*RSC58*
YPL235W		*RVB2*
YER163C		*GCG1*
YOL056W		*GPM3*
YPL043W		*NOP4*
YML056C		*IMD4*
YLR137W		*RKM5*
YLL022C		*HIF1*
YJL217W		*REE1*
YPL069C		*BTS1*
YOL104C		*NDJ1*
YDR188W		*CCT6*
YPR069C		*SPE3*
YIR015W		*RPR2*
YER171W		*RAD3*
YEL008C-A	*Yes*	*YEL008C-A*
YGL060W		*YBP2*
YCR065W		*HCM1*
YNR075C-A	*Yes*	*YNR075C-A*
YOR293W	*Yes*	*RPS10A*
YKL116C		*PRR1*
YJR060W		*CBF1*
YNL189W		*SRP1*
YJL110C		*GZF3*
YGL240W		*DOC1*
YCR084C		*TUP1*
YEL058W		*PCM1*
YOR303W		*CPA1*

YPR082C		*DIB1*
YFL045C		*SEC53*
YER095W		*RAD51*
YPR019W		*MCM4*
YCL001W-B	*Yes*	*YCL001W-B*
YIL001W		*YIL001W*
YNL162W-A	*Yes*	*YNL162W-A*
YER146W	*Yes*	*LSM5*
YMR087W		*PDL32*
YLR098C		*CHA4*
YLR266C		*PDR8*
YDR530C		*APA2*
YMR291W		*TDA1*
YBR247C		*ENP1*
YML102W		*CAC2*
YLR183C		*TOS4*
YEL030C-A	*Yes*	*YEL030C-A*
YHR148W		*IMP3*
YDL053C		*PBP4*
YKL093W		*MBR1*
YIL073C		*SPO22*
YMR213W		*CEF1*
YIL014C-A	*Yes*	*YIL014C-A*
YPR065W		*ROX1*
YDL233W		*MFG1*
YMR142C		*RPL13B*
YGL116W		*CDC20*
YKL067W		*YNK1*
YJR077C		*MIR1*
YCR095W-A	*Yes*	*YCR095W-A*
YDL119C		*HEM25*
YNL135C		*FPR1*
YLR341W		*SPO77*
YBR095C		*RXT2*
YPR180W		*AOS1*
YOL017W		*ESC8*
YBR191W		*RPL21A*
YBL087C		*RPL23A*
YPL101W		*ELP4*
YBL003C		*HTA2*
YKL114C		*APN1*
YGL003C		*CDH1*
YKL100W-A	*Yes*	*YKL100W-A*
YGR280C		*PXR1*
YBR031W		*RPL4A*
YPL143W	*Yes*	*RPL33A*
YBR141C		*BMT2*

YBR009C	*Yes*	*HHF1*
YDR079C-A	*Yes*	*TFB5*
YER155C		*BEM2*
YGL006W-A	*Yes*	*YGL006W-A*
YKL057C		*NUP120*
YJL081C		*ARP4*
YDR539W		*FDC1*
YPR168W		*NUT2*
YDL090C		*RAM1*
YMR191W		*SPG5*
YER183C		*FAU1*
YOR074C		*CDC21*
YPL016W		*SWI1*
YKL059C		*MPE1*
YGL163C		*RAD54*
YCL067C		*HMLALPHA2*
YGR240C-A	*Yes*	*YGR240C-A*
YKR019C		*IRS4*
YOL028C		*YAP7*
YBR256C		*RIB5*
YIL060W		*YIL060W*
YDR318W		*MCM21*
YCL066W		*HMLALPHA1*
YMR124W		*EPO1*
YDL055C		*PSA1*
YLR253W		*CQD2*
YNL126W		*SPC98*
YAL015C		*NTG1*
YBL022C		*PIM1*
YBL038W		*MRPL16*
YBL064C		*PRX1*
YBL080C		*PET112*
YBL090W		*MRP21*
YBL099W		*ATP1*
YAL044C		*GCV3*
YBR003W		*COQ1*
YBR047W		*FMP23*
YBR084W		*MIS1*
YBR111C		*YSA1*
YBR146W		*MRPS9*
YBR176W		*ECM31*
YBR024W		*SCO2*
YBR037C		*SCO1*
YBR268W	*Yes*	*MRPL37*
YBR269C		*SDH8*
YCL004W		*PGS1*
YBR185C		*MBA1*

YBR221C		*PDB1*
YBR227C		*MCX1*
YBR251W		*MRPS5*
YBR263W		*SHM1*
YCR003W		*MRPL32*
YCR083W		*TRX3*
YDL004W		*ATP16*
YDL033C		*SLM3*
YDL044C		*MTF2*
YDL066W		*IDP1*
YCR024C		*SLM5*
YCR046C		*IMG1*
YCR071C		*IMG2*
YDL085W		*NDE2*
YDL164C		*CDC9*
YDL174C		*DLD1*
YDL178W		*DLD2*
YDL181W	*Yes*	*INH1*
YDL183C		*MRX19*
YDL202W		*MRPL11*
YDR019C		*GCV1*
YDL104C		*QRI7*
YDL107W		*MSS2*
YDL120W		*YFH1*
YDL130W-A	*Yes*	*STF1*
YDR036C		*EHD3*
YDR119W-A	*Yes*	*COX26*
YDR120C		*TRM1*
YDR194C		*MSS116*
YDR204W		*COQ4*
YDR041W		*RSM10*
YDR070C	*Yes*	*FMP16*
YDR115W	*Yes*	*MRX14*
YDR232W		*HEM1*
YDR298C		*ATP5*
YDR316W		*OMS1*
YDR322W		*MRPL35*
YDR332W		*IRC3*
YDR337W		*MRPS28*
YDR237W		*MRPL7*
YDR258C		*HSP78*
YDR350C		*ATP22*
YDR405W		*MRP20*
YDR462W		*MRPL28*
YDR493W		*MZM1*
YDR494W		*RSM28*
YDR376W		*ARH1*

YDR377W	*Yes*	*ATP17*
YDR379C-A	*Yes*	*SDH6*
YDR393W		*SHE9*
YER073W		*ALD5*
YER078C		*ICP55*
YER080W		*AIM9*
YER087W		*AIM10*
YEL052W		*AFG1*
YER154W		*OXA1*
YFL018C		*LPD1*
YGL018C		*JAC1*
YGL041W-A		*DPC13*
YGL068W		*MNP1*
YGL107C		*RMD9*
YER178W		*PDA1*
YER182W		*FMP10*
YGL119W		*COQ8*
YGL187C		*COX4*
YGL191W		*COX13*
YGL226W		*MTC3*
YGR021W		*DPC29*
YGR029W		*ERV1*
YGR033C		*TIM21*
YGL129C		*RSM23*
YGL136C		*MRM2*
YGL141W		*HUL5*
YGL143C		*MRF1*
YGR046W		*TAM41*
YGR094W		*VAS1*
YGR102C		*GTF1*
YGR103W		*NOP7*
YGR053C		*MCO32*
YHL032C		*GUT1*
YHR011W		*DIA4*
YHR037W		*PUT2*
YGR220C		*MRPL9*
YGR244C		*LSC2*
YGR286C		*BIO2*
YHR106W		*TRR2*
YHR120W		*MSH1*
YHR147C		*MRPL6*
YHR199C		*AIM46*
YHR208W		*BAT1*
YHR051W		*COX6*
YHR059W		*FYV4*
YHR091C		*MSR1*
YIL002C		*INP51*

YIL125W		*KGD1*
YIL157C		*COA1*
YIR024C		*INA22*
YIL022W		*TIM44*
YIL051C		*MMF1*
YIL094C		*LYS12*
YJL177W		*RPL17B*
YJL200C		*ACO2*
YJL209W		*CBP1*
YJL131C		*AIM23*
YJL161W		*FMP33*
YJR034W	*Yes*	*PET191*
YJR100C		*AIM25*
YJR101W		*RSM26*
YJR113C		*RSM7*
YJR121W		*ATP2*
YJR144W		*MGM101*
YKL018C-A	*Yes*	*MCO12*
YJR045C		*SSC1*
YJR051W		*OSM1*
YJR061W		*MNN14*
YJR080C		*AIM24*
YKL029C		*MAE1*
YKL138C		*MRPL31*
YKL148C		*SDH1*
YKL150W		*MCR1*
YKL155C		*RSM22*
YKL192C		*ACP1*
YKL040C		*NFU1*
YKL085W		*MDH1*
YKL134C		*OCT1*
YKL194C		*MST1*
YKR066C		*CCP1*
YKR085C		*MRPL20*
YKR087C		*OMA1*
YLL027W		*ISA1*
YLL030C		*RRT7*
YLL041C		*SDH2*
YKL195W		*MIA40*
YKR006C		*MRPL13*
YKR016W		*MIC60*
YKR065C		*PAM17*
YLR063W		*BMT6*
YLR142W		*PUT1*
YLR163C		*MAS1*
YLR164W		*SHH4*
YLR188W		*MDL1*

YLR201C		*COQ9*
YLR203C		*MSS51*
YLR204W		*QRI5*
YLR067C		*PET309*
YLR077W		*FMP25*
YLR089C		*ALT1*
YLR139C		*SLS1*
YLR239C		*LIP2*
YLR312W-A		*MRPL15*
YLR355C		*ILV5*
YLR382C		*NAM2*
YLR393W		*ATP10*
YLR395C	*Yes*	*COX8*
YLR415C		*YLR415C*
YLR439W		*MRPL4*
YLR281C		*RSO55*
YLR295C		*ATP14*
YLR304C		*ACO1*
YML007C-A	*Yes*	*MIN4*
YML091C		*RPM2*
YMR002W		*MIX17*
YMR024W		*MRPL3*
YMR035W		*IMP2*
YMR066W		*SOV1*
YMR072W		*ABF2*
YML009C	*Yes*	*MRPL39*
YML050W		*AIM32*
YML078W		*CPR3*
YMR145C		*NDE1*
YMR157C		*AIM36*
YMR177W		*MMT1*
YMR193W		*MRPL24*
YMR252C		*MLO1*
YMR257C		*PET111*
YMR089C		*YTA12*
YMR098C		*ATP25*
YMR108W		*ILV2*
YMR115W		*MGR3*
YOR205C		*GEP3*
YOR334W		*MRS2*
YPL059W		*GRX5*
YPL132W		*COX11*
YNL137C		*NAM9*
YFL065C	*Yes*	*YFL065C*
YNL252C		*MRPL17*
YNR037C	*Yes*	*RSM19*
YOL096C		*COQ3*

YOR108W		*LEU9*
YNL169C		*PSD1*
YOR215C		*AIM41*
YOR350C		*MNE1*
YPL135W		*ISU1*
YPL224C		*MMT2*
YPR047W		*MSF1*
YNL260C		*LTO1*
YNR041C		*COQ2*
YOL140W		*ARG8*
YNL177C		*MRPL22*
YOR226C		*ISU2*
YPL063W		*TIM50*
YPL159C		*PET20*
YPL252C		*YAH1*
YPR067W		*ISA2*
YNL295W		*MRX6*
YNR045W		*PET494*
YOR022C		*DDL1*
YOR136W		*IDH2*
YOR232W		*MGE1*
YOR356W		*CIR2*
YPL078C		*ATP4*
YPL168W		*MRX4*
YNL185C		*MRPL19*
YPR125W		*YLH47*
YNL306W		*MRPS18*
YOR037W		*CYC2*
YNL191W		*DUG3*
YOR286W		*RDL2*
YOR374W		*ALD4*
YPL097W		*MSY1*
YPL172C		*COX10*
YPR151C		*SUE1*
YNL310C		*ZIM17*
YOL027C		*MDM38*
YOR040W		*GLO4*
YOR147W		*MDM32*
YOR386W		*PHR1*
YPL103C		*FMP30*
YNL315C		*ATP11*
YOL042W		*NGL1*
YOR065W		*CYT1*
YOR176W		*HEM15*
YNL213C		*RRG9*
YOR305W		*RRG7*
YPL029W		*SUV3*

YPL104W		*MSD1*
YPL188W		*POS5*
YPR004C		*AIM45*
YPR166C		*MRP2*
YNR001C		*CIT1*
YOL059W		*GPD2*
YOR090C		*PTC5*
YOR196C		*LIP5*
YNL247W		*CRS1*
YOR330C		*MIP1*
YPL040C		*ISM1*
YPL109C		*CQD1*
YPL215W		*CBP3*
YPR006C		*ICL2*
YPR191W		*QCR2*
YOL071W		*SDH5*
YOR105W	*Yes*	*YOR105W*
YOR201C		*MRM1*
YGR171C		*MSM1*
YNL005C		*MRP7*
YCR028C-A		*RIM1*
YBR122C		*MRPL36*
YDR538W		*PAD1*
YGR084C		*MRP13*
YJL180C		*ATP12*
YAL046C		*BOL3*
YHR024C		*MAS2*
YMR267W		*PPA2*
YEL024W		*RIP1*
YGR255C		*COQ6*
YFR049W		*KGD4*
YJL060W		*BNA3*
YNL052W		*COX5A*
YBR039W		*ATP3*
YDR178W		*SDH4*
YHR038W		*RRF1*
YDR079W		*PET100*
YJR003C		*MRX12*
YMR282C		*AEP2*
YBR163W		*EXO5*
YJL104W		*PAM16*
YJL147C		*SMT1*
YER113C		*TMN3*
YMR287C		*DSS1*
YNL071W		*LAT1*
YCL017C		*NFS1*
YEL050C		*RML2*

YER069W		*ARG56*
YGR165W		*MRPS35*
YBR044C		*TCM62*
YGR174C		*CBP4*
YMR301C		*ATM1*
YKL180W		*RPL17A*
YDR511W		*SDH7*
YGR101W		*PCP1*
YJL045W		*SDH9*
YDR430C		*CYM1*
YJL096W		*MRPL49*
YCL026C-B		*HBN1*
YJL133C-A	*Yes*	*DPI8*
YHL004W		*MRP4*
YJL213W		*YJL213W*
YDR148C		*KGD2*
YJR016C		*ILV3*
YMR310C		*UPA2*
YNL104C		*LEU4*
YER017C		*AFG3*
YIL155C		*GUT2*
YNR036C		*MRPS12*
YOL008W		*COQ10*
YDR286C		*MGP12*
YBR282W		*MRPL27*
YMR188C		*MRPS17*
YDR246W-A	*Yes*	*YDR246W-A*
YER141W		*COX15*
YPR155C		*NCA2*
YLR259C		*HSP60*
YDL036C		*PUS9*
YAL007C		*ERP2*
YFR041C		*ERJ5*
YAL063C		*FLO9*
YGL002W		*ERP6*
YAR050W		*FLO1*
YGL020C		*GET1*
YAL053W		*FLC2*
YGL027C		*CWH41*
YAL058W		*CNE1*
YGL028C		*SCW11*
YAR002C-A		*ERP1*
YGL032C	*Yes*	*AGA2*
YAR066W		*YAR066W*
YGL089C		*MF(ALPHA)2*
YAR071W		*PHO11*
YGL138C		*YGL138C*

YBL017C		*PEP1*
YGL139W		*FLC3*
YBL039C		*URA7*
YGL200C		*EMP24*
YBL095W		*MRX3*
YGL203C		*KEX1*
YBL108C-A	*Yes*	*PAU9*
YCL048W		*SPS22*
YJL186W		*MNN5*
YJL192C		*SOP4*
YJL222W		*VTH2*
YJR004C		*SAG1*
YMR251W-A	*Yes*	*HOR7*
YJR075W		*HOC1*
YMR272W-B	*Yes*	*YMR272W-B*
YMR297W		*PRC1*
YJR137C		*MET5*
YMR307W		*GAS1*
YJR150C		*DAN1*
YMR316C-A	*Yes*	*YMR316C-A*
YJR151C		*DAN4*
YNL012W		*SPO1*
YKL034W		*TUL1*
YNL019C		*YNL019C*
YKL039W		*PTM1*
YBR067C		*TIP1*
YKL046C		*DCW1*
YNL066W		*SUN4*
YBR013C		*YBR013C*
YGL228W		*SHE10*
YGL236C		*MTO1*
YGL258W		*VEL1*
YBR139W		*ATG42*
YGL259W		*YPS5*
YBR162C		*TOS1*
YGR014W		*MSB2*
YDR055W		*PST1*
YBR187W		*GDT1*
YBR078W		*ECM33*
YBR229C		*ROT2*
YGR106C		*VOA1*
YBR092C		*PHO3*
YBR286W		*APE3*
YCL012C		*YCL012C*
YGR189C		*CRH1*
YCL043C		*PDI1*
YCR089W		*FIG2*

YKL073W		*LHS1*
YGR294W		*PAU12*
YKL077W		*PSG1*
YNL129W		*NRK1*
YKL096W		*CWP1*
YJL159W		*HSP150*
YKL163W		*PIR3*
YNL158W		*PGA1*
YKL164C		*PIR1*
YNL190W		*YNL190W*
YNL219C		*ALG9*
YNL237W		*YTP1*
YKL220C		*FRE2*
YNL238W		*KEX2*
YKL224C		*PAU16*
YKR005C		*YKR005C*
YNL291C		*MID1*
YKR013W		*PRY2*
YNL320W		*YNL320W*
YKR044W		*UIP5*
YNL322C		*KRE1*
YCL048W-A	*Yes*	*YCL048W-A*
YGR282C		*BGL2*
YHL017W		*YHL017W*
YCL049C		*YCL049C*
YCR011C		*ADP1*
YHL042W		*YHL042W*
YHL046C		*PAU13*
YCR069W		*CPR4*
YHR045W		*DDE1*
YCR101C		*YCR101C*
YHR057C		*CPR2*
YHR063C		*PAN5*
YDL018C		*ERP3*
YHR079C		*IRE1*
YDL036C		*PUS9*
YHR086W-A	*Yes*	*YHR086W-A*
YKR058W		*GLG1*
YNL327W		*EGT2*
YNR028W		*CPR8*
YKR069W		*MET1*
YNR044W		*AGA1*
YKR102W		*FLO10*
YNR050C		*LYS9*
YLL025W		*PAU17*
YNR059W		*MNT4*
YNR060W		*FRE4*

YLL056C		*YLL056C*
YNR066C		*YNR066C*
YLR001C		*YLR001C*
YNR067C		*DSE4*
YLR037C		*PAU23*
YNR076W		*PAU6*
YLR040C		*AFB1*
YOL007C		*CSI2*
YLR042C		*NFG1*
YLR083C		*EMP70*
YOL011W		*PLB3*
YDL046W		*NPC2*
YHR098C		*SFB3*
YDL049C		*KNH1*
YDL070W		*BDF2*
YDL130W	*Yes*	*RPP1B*
YDL144C		*YDL144C*
YDR056C		*EMC10*
YHR110W		*ERP5*
YDR057W		*YOS9*
YDR077W		*SED1*
YHR132C		*ECM14*
YHR139C		*SPS100*
YDR144C		*MKC7*
YHR143W		*DSE2*
YDR221W		*GTB1*
YHR151C		*MTC6*
YDR248C		*YDR248C*
YLR084C		*RAX2*
YJL223C		*PAU1*
YLR286C		*CTS1*
YOL030W		*GAS5*
YLR104W		*LCL2*
YOL031C		*SIL1*
YLR110C		*CCW12*
YOL052C-A	*Yes*	*DDR2*
YLR121C		*YPS3*
YOL088C		*MPD2*
YOL105C		*WSC3*
YOL132W		*GAS4*
YLR207W		*HRD3*
YOL154W		*ZPS1*
YLR213C		*CRR1*
YOL155C		*HPF1*
YOL161C		*PAU20*
YLR250W		*SSP120*
YOR008C		*SLG1*

YHR173C		*YHR173C*
YDR262W		*YDR262W*
YDR304C		*CPR5*
YHR202W		*SMN1*
YDR331W		*GPI8*
YHR204W		*MNL1*
YHR211W		*FLO5*
YDR382W		*RPP2B*
YDR402C		*DIT2*

Table S2. Effcicency check -

ORF	PCR result
CCC1	*positive*
CSR1	*positive*
ERI1	*negative*
NPL4	*positive*
OSH3	*positive*
TBS1	*negative*
VBA3	*positive*
VTC2	*positive*
ATP19	*positive*
CDC13	*positive*
CDC40	*positive*
CLN1	*positive*
ETP1	*positive*
FYV8	*positive*
GUS1	*positive*
IES5	*positive*
IMA5	*positive*
NUP42	*positive*
PDR1	*positive*
PUS7	*positive*
RPL11A	*positive*
RPS16B	*positive*
RPT1	*positive*
RTG3	*positive*
SEN15	*positive*
TRI1	*positive*
ZAP1	*positive*
AIM17	*positive*
ATG27	*positive*
BAR1	*positive*
CDC9	*positive*
CMC4	*positive*
COA1	*positive*
DDR2	*positive*
DFG5	*positive*
ESC8	*positive*
ESF2	*positive*
FPR2	*positive*
FRE3	*positive*
GCV2	*positive*
HHF1	*positive*
ICL2	*positive*
ILS1	*positive*
KNH1	*positive*

MRPS16	*positive*
NMD3	*positive*
PAU13	*positive*
PUT1	*positive*
RPS4B	*positive*
TMN3	*positive*
VTH2	*positive*
XKS1	*positive*
YME2	*positive*
YNL260C	*positive*
YPI1	*positive*

Journal of Cell Science • Supplementary information

Table S3. Assigned localizations for HA tagged proteins

ORF	Gene	HA library localizations	GFP library localizations
YAL002W	*VPS8*	punctate	punctate
YAL005C	*SSA1*	cytosol	cytosol
YBR161W	*CSH1*	vacuole,punctate	#N/A
YAL008W	*FUN14*	ER	ER
YBR162W-A	*YSY6*	ER	ER
YAL009W	*SPO7*	ER	ER
YBR164C	*ARL1*	cytosol	cytosol
YAL014C	*SYN8*	punctate	punctate
YBR168W	*PEX32*	ER	punctate
YAL018C	*LDS1*	punctate	punctate
YBR170C	*NPL4*	nucleus	cytosol,nucleus
YAL022C	*FUN26*	vacuole,punctate	punctate,vacuole membrane
YBR171W	*SEC66*	punctate	ER,punctate
YAL023C	*PMT2*	ER	ER
YBR172C	*SMY2*	cytosol	cytosol
YAL026C	*DRS2*	ER	ER,punctate
YBR183W	*YPC1*	ER	ER
YAL028W	*FRT2*	ER	ER
YBR199W	*KTR4*	vacuole,punctate	punctate,vacuole membrane
YAL030W	*SNC1*	punctate	punctate,bud
YBR201C-A	*MIN7*	cytosol	#N/A
YAL035W	*FUN12*	cytosol	cytosol
YBR201W	*DER1*	cytosol	#N/A
YDL035C	*GPR1*	cytosol	punctate
YDL052C	*SLC1*	ER	ER
YDL054C	*MCH1*	vacuole membrane	vacuole membrane
YDR177W	*UBC1*	cytosol	cytosol
YDL058W	*USO1*	cytosol	punctate
YDR182W	*CDC1*	vacuole,punctate	punctate
YDL065C	*PEX19*	cytosol	cytosol,punctate
YDR189W	*SLY1*	cytosol	cytosol,punctate
YDL072C	*YET3*	ER	ER
YDR196C	*CAB5*	cytosol	cytosol
YDL077C	*VAM6*	vacuole membrane	vacuole membrane
YDR200C	*VPS64*	ER	ER
YDL078C	*MDH3*	punctate	punctate
YDR205W	*MSC2*	ER	ER
YDL089W	*NUR1*	ER,punctate	punctate,nuclear periphery
YDR211W	*GCD6*	cytosol	cytosol
YDL091C	*UBX3*	ER,punctate	ER,punctate
YDR216W	*ADR1*	cytosol	cytosol
YDL093W	*PMT5*	ER	ER
YDR218C	*SPR28*	cytosol	cytosol
YBR204C	*LDH1*	ER,punctate	ER

YAL042W	*ERV46*	ER	ER
YBR205W	*KTR3*	punctate	punctate,vacuole
YNL064C	*YDJ1*	cytosol	cytosol
YBR207W	*FTH1*	cytosol	ER
YAL010C	*MDM10*	mitochondria	mitochondria
YBR210W	*ERV15*	vacuole	ER
YAL064W-B	*YAL064W-B*	cytosol	ER
YBR214W	*SDS24*	cytosol	cytosol
YAL065C	*YAL065C*	cytosol	cytosol
YBR217W	*ATG12*	cytosol	cytosol
YAL067C	*SEO1*	cell periphery	cell periphery
YBR219C	*YBR219C*	cytosol	#N/A
YAR027W	*UIP3*	ER,punctate	punctate,vacuole membrane
YBR220C	*YBR220C*	punctate	punctate
YAR028W	*KTD1*	vacuole membrane,punctate	punctate,vacuole membrane
YAR031W	*PRM9*	ER,punctate	ER,punctate
YAR033W	*MST28*	ER	ER
YBR222C	*PCS60*	punctate	punctate
YAR042W	*SWH1*	ER,punctate	punctate
YBR235W	*VHC1*	vacuole membrane	vacuole membrane
YDL095W	*PMT1*	nucleus	ER
YDR229W	*IVY1*	vacuole membrane	punctate,vacuole membrane
YDL099W	*BUG1*	punctate	punctate
YDR233C	*RTN1*	cell periphery,bud,ER	cell periphery,ER,bud
YDL100C	*GET3*	cytosol	cytosol
YDL113C	*ATG20*	cytosol	punctate
YDR238C	*SEC26*	punctate	punctate
YDL121C	*EXP1*	cytosol	ER,punctate
YDR244W	*PEX5*	cytosol	punctate
YDR245W	*MNN10*	ER,punctate	ER,punctate
YDR246W	*TRS23*	cytosol	punctate
YDL122W	*UBP1*	cytosol	ER
YDR255C	*RMD5*	nucleus	nucleus
YDR256C	*CTA1*	punctate	punctate
YMR313C	*TGL3*	punctate	punctate
YDL128W	*VCX1*	vacuole membrane	vacuole membrane
YDR265W	*PEX10*	punctate	punctate
YDL133W	*SRF1*	cell periphery	cell periphery,vacuole
YDR270W	*CCC2*	vacuole,punctate	punctate
YBR241C	*VVS1*	vacuole membrane	vacuole membrane
YBL001C	*ECM15*	cytosol	cytosol
YBR243C	*ALG7*	ER	ER
YBR254C	*TRS20*	cytosol	cytosol,punctate
YBL007C	*SLA1*	bud neck,bud	punctate,bud neck
YBR255C-A	*RCF3*	cytosol	#N/A
YBL010C	*LAA2*	punctate	punctate
YBR255W	*MTC4*	punctate	punctate

YBL011W	*SCT1*	ER	ER
YBL020W	*RFT1*	vacuole,punctate	ER,punctate
YBR265W	*TSC10*	ER,punctate	ER,punctate
YBL037W	*APL3*	bud neck	punctate,bud neck
YBR273C	*UBX7*	ER,punctate	ER,punctate
YBL039W-B	*MIN6*	punctate	punctate
YBR283C	*SSH1*	ER	ER
YBL041W	*PRE7*	cytosol	cytosol,nucleus
YBR287W	*YBR287W*	ER	ER
YDL135C	*RDI1*	cytosol	cytosol
YDR275W	*TLD1*	punctate	punctate
YDL137W	*ARF2*	cytosol	cytosol
YDL138W	*RGT2*	cell periphery	cell periphery
YDR281C	*PHM6*	vacuole	vacuole
YDL142C	*CRD1*	cytosol	mitochondria
YDR284C	*DPP1*	vacuole membrane	vacuole membrane
YDL145C	*COP1*	cytosol	punctate
YDL146W	*LDB17*	cytosol	punctate,bud neck
YDR294C	*DPL1*	cytosol	punctate
YDL149W	*ATG9*	punctate	punctate
YDL161W	*ENT1*	cytosol	punctate,bud neck
YDR302W	*GPI11*	ER	ER
YDL180W	*AIT1*	vacuole membrane	vacuole membrane
YDR307W	*PMT7*	ER	ER
YDR319C	*YFT2*	vacuole,punctate	punctate
YDL193W	*NUS1*	punctate	punctate
YDR320C	*SWA2*	cytosol	cytosol
YDL194W	*SNF3*	cell periphery	cell periphery
YDR323C	*PEP7*	punctate	punctate
YBL050W	*SEC17*	cytosol	punctate
YBR290W	*BSD2*	punctate	punctate,vacuole
YBL058W	*SHP1*	cytosol	cytosol,nucleus
YBR293W	*VBA2*	ER	ER
YBL059W	*IAI11*	cytosol	mitochondria
YBL061C	*SKT5*	bud neck,bud	bud neck
YBL069W	*AST1*	cytosol	punctate
YBL078C	*ATG8*	punctate	cytosol,punctate
YBR294W	*SUL1*	vacuole	ER
YBL082C	*ALG3*	ER	ER
YKL176C	*LST4*	cytosol	cytosol
YBL089W	*AVT5*	punctate	punctate
YBR296C	*PHO89*	ER	ER
YBL091C-A	*SCS22*	ER	cytosol
YBR298C	*MAL31*	cell periphery,ER,vacuole	cell periphery,ER
YBR301W	*PAU24*	cytosol	cytosol,nucleus
YBL101C	*ECM21*	cytosol	cytosol
YBR302C	*COS2*	vacuole	vacuole

YCL001W	*RER1*	punctate	punctate
YDL195W	*SEC31*	punctate	punctate
YDR326C	*YSP2*	cell periphery,punctate	cell periphery,punctate
YDL199C	*YDL199C*	vacuole membrane	vacuole membrane
YDR329C	*PEX3*	punctate	punctate
YDL204W	*RTN2*	cell periphery	cell periphery
YDR338C	*YDR338C*	vacuole membrane	vacuole membrane
YDL206W	*YCX1*	vacuole membrane	vacuole membrane
YDR342C	*HXT7*	cell periphery	cell periphery
YDR343C	*HXT6*	cell periphery,Vacuole	cell periphery
YDL211C	*YDL211C*	cytosol	cytosol
YDR345C	*HXT3*	cell periphery	cell periphery
YDL212W	*SHR3*	ER	ER
YDR351W	*SBE2*	punctate	punctate
YDL222C	*FMP45*	vacuole	cell periphery,punctate
YGL169W	*SUA5*	cytosol	cytosol
YDL225W	*SHS1*	bud neck	bud neck
YDR356W	*SPC110*	nucleus	punctate,nucleus
YDL226C	*GCS1*	cytosol	cytosol,punctate
YDR358W	*GGA1*	cytosol	#N/A
YDL231C	*BRE4*	ER	cell periphery,ER
YDR366C	*MOR1*	cytosol	#N/A
YBL105C	*PKC1*	bud neck	bud neck
YCL002C	*YCL002C*	cytosol	cytosol,nucleus
YBL106C	*SRO77*	bud	punctate,bud neck
YBR002C	*RER2*	ER,punctate	ER,punctate
YBR004C	*GPI18*	ER	ER
YCL008C	*STP22*	cytosol	cytosol,punctate
YBR005W	*RCR1*	cytosol	ER
YCL025C	*AGP1*	ER	ER
YBR008C	*FLR1*	cell periphery	cell periphery
YCL027W	*FUS1*	cytosol	ER
YBR021W	*FUR4*	vacuole	cell periphery,vacuole
YCL029C	*BIK1*	punctate	punctate
YCL034W	*LSB5*	cytosol	cytosol
YCL038C	*ATG22*	vacuole membrane	vacuole membrane
YBR023C	*CHS3*	ER	ER
YBR029C	*CDS1*	ER	ER
YCL052C	*PBN1*	cytosol	ER,punctate
YCL055W	*KAR4*	cytosol	cytosol
YDL234C	*GYP7*	cytosol	cytosol,punctate
YDR371W	*CTS2*	vacuole membrane	cytosol
YDL241W	*YDL241W*	cytosol	cytosol
YDR372C	*VPS74*	cytosol	punctate
YDL245C	*HXT15*	cell periphery	cell periphery
YDL247W	*MPH2*	cell periphery,punctate	cell periphery,punctate
YDR380W	*ARO10*	cytosol	cytosol

YDL248W	*COS7*	cytosol	vacuole
YDR384C	*ATO3*	cell periphery,vacuole,bud	cell periphery,punctate
YDR003W	*RCR2*	vacuole membrane	vacuole membrane
YNL026W	*SAM50*	mitochondria	mitochondria
YDR011W	*SNQ2*	cell periphery	cell periphery
YDR387C	*CIN10*	vacuole membrane	vacuole membrane
YDR018C	*MLG1*	ER	ER
YDR022C	*ATG31*	cytosol	cytosol,punctate
YDR406W	*PDR15*	cell periphery	cell periphery
YDR027C	*VPS54*	punctate	punctate
YDR407C	*TRS120*	punctate	punctate
YDR410C	*STE14*	ER,punctate	ER,punctate
YDR034C-A	*YDR034C-A*	cytosol	#N/A
YDR411C	*DFM1*	ER	ER
YBR038W	*CHS2*	ER,punctate	punctate,vacuole
YCL056C	*PEX34*	punctate,bud	punctate
YBR040W	*FIG1*	vacuole	vacuole
YCL058C	*FYV5*	cytosol	Blank
YBR041W	*FAT1*	punctate,vacuole	cell periphery,ER,punctate
YCL063W	*VAC17*	cytosol	cytosol,punctate
YBR042C	*CST26*	ER	ER
YCL069W	*VBA3*	ER	ER
YBR043C	*QDR3*	cell periphery,vacuole	cell periphery
YCL073C	*GEX1*	cell periphery,vacuole	cell periphery
YBR054W	*YRO2*	ER	ER
YCR002C	*CDC10*	bud neck	bud neck
YBR056W	*MRX18*	cytosol	cytosol
YCR004C	*YCP4*	cell periphery,punctate	cell periphery
YBR058C-A	*TSC3*	ER	ER
YCR005C	*CIT2*	punctate	punctate
YBR059C	*AKL1*	cytosol	cytosol,punctate,bud neck
YCR007C	*DFP3*	vacuole,punctate	cell periphery,vacuole
YNL055c	*POR1*	mitochondria	cytosol,punctate
YCR009C	*RVS161*	cytosol	cytosol,punctate
YCR010C	*ADY2*	vacuole	cell periphery,vacuole
YCR017C	*CWH43*	ER	ER
YDR034W-B	*CPP3*	cell periphery	cell periphery
YGL010W	*MPO1*	ER	ER
YDR038C	*ENA5*	cell periphery,vacuole	cell periphery,vacuole
YDR424C	*DYN2*	ER	punctate,nuclear periphery
YDR434W	*GPI17*	ER	ER
YDR039C	*ENA2*	cell periphery,vacuole	cell periphery,vacuole
YDR437W	*GPI19*	cytosol	ER
YDR040C	*ENA1*	cytosol	cell periphery,vacuole
YDR046C	*BAP3*	ER,vacuole	ER
YBR180W	*DTR1*	cell periphery	cell periphery
YBR179c	*FZO1*	mitochondria	mitochondria

YDR438W	*THI74*	ER,vacuole	vacuole
YDR062W	*LCB2*	ER,punctate	ER
YDR452W	*PPN1*	vacuole	vacuole
YDR069C	*DOA4*	cytosol	punctate
YDR456W	*NHX1*	ER	ER
YDR458C	*HEH2*	nuclear periphery	nuclear periphery
YDR459C	*PFA5*	cell periphery	cell periphery
YBR070C	*ALG14*	punctate	punctate
YCR021C	*HSP30*	cytosol	ER
YBR074W	*PFF1*	punctate	punctate,vacuole membrane
YBR077C	*SLM4*	cytosol	vacuole membrane
YCL021W-A	*YCL021W-A*	vacuole	vacuole
YGR049W	*SCM4*	mitochondria	mitochondria
YCR024C-B	*YCR024C-B*	cytosol	#N/A
YBR080C	*SEC18*	cytosol	cytosol,punctate
YCR026C	*NPP1*	punctate	punctate
YBR090C	*YBR090C*	cytosol	punctate
YCR027C	*RHB1*	cytosol	cytosol
YBR230C	*OM14*	mitochondria	cytosol
YCR028C	*FEN2*	vacuole	cell periphery,vacuole
YBR096W	*YBR096W*	punctate	punctate
YBR097W	*VPS15*	cytosol	punctate,vacuole membrane
YCR037C	*PHO87*	cell periphery,bud	cell periphery
YBR102C	*EXO84*	bud neck,nucleus	bud neck,nucleus
YCR043C	*YCR043C*	cytosol	cytosol
YCR048W	*ARE1*	ER	ER
YBR106W	*SND3*	ER	ER
YCR067C	*SED4*	ER,punctate	ER,punctate
YDR084C	*TVP23*	punctate	punctate
YDR461W	*MFA1*	cytosol	ER
YDR086C	*SSS1*	ER	ER
YDR468C	*TLG1*	punctate	punctate
YDR089W	*VTC5*	vacuole membrane	vacuole membrane
YDR472W	*TRS31*	cytosol	cytosol,punctate
YDR090C	*ILT1*	cytosol	ER
YDR476C	*YDR476C*	ER	ER
YDR093W	*DNF2*	cell periphery,bud	cell periphery,ER,bud neck
YDR479C	*PEX29*	punctate,bud	ER
YDR100W	*TVP15*	punctate	punctate
YDR481C	*PHO8*	vacuole membrane	vacuole membrane
YDR483W	*KRE2*	vacuole	punctate,vacuole membrane
YDR108W	*TRS85*	cytosol	cytosol
YDR484W	*VPS52*	cytosol	cytosol,punctate
YDR490C	*PKH1*	cytosol	cytosol,punctate
YDR492W	*IZH1*	ER	ER
YDR495C	*VPS3*	cytosol	punctate
YBR109C	*CMD1*	bud neck,bud	bud,bud neck

YCR068W	*ATG15*	punctate	ER
YCR075C	*ERS1*	cytosol	#N/A
YGR217W	*CCH1*	cytosol	ER
YBR110W	*ALG1*	punctate	punctate
YCR094W	*CDC50*	ER	ER,punctate
YBR126W-A	*MEO1*	ER	ER
YCR098C	*GIT1*	cell periphery,ER	cell periphery,vacuole
YBR127C	*VMA2*	vacuole membrane	punctate,vacuole membrane
YDL001W	*RMD1*	vacuole membrane	vacuole membrane
YBR128C	*ATG14*	cytosol	vacuole membrane
YDL009C	*YDL009C*	cytosol	cytosol
YBR131W	*CCZ1*	cytosol	cytosol,punctate
YDL012C	*YDL012C*	cell periphery,bud	cell periphery,bud
YBR132C	*AGP2*	ER	ER
YDL015C	*TSC13*	ER	ER,punctate
YBR147W	*RTC2*	cytosol	#N/A
YDL019C	*OSH2*	cell periphery,bud neck	cell periphery,punctate,bud
YBR150C	*TBS1*	cytosol	nucleus
YDL022C-A	*YDL022C-A*	cytosol	cytosol
YDR119W	*VBA4*	vacuole membrane	vacuole membrane
YDR498C	*SEC20*	ER	ER
YDR126W	*SWF1*	cytosol	ER
YDR503C	*LPP1*	vacuole,punctate	punctate
YDR135C	*YCF1*	cytosol	punctate
YDR504C	*SPG3*	ER	ER
YDR137W	*RGP1*	cytosol	punctate
YDR508C	*GNP1*	vacuole,punctate	ER
YDR141C	*DOP1*	cytosol	cytosol,punctate
YDR513W	*GRX2*	cytosol	punctate,nucleus
YDR142C	*PEX7*	punctate	punctate
YDR522C	*SPS2*	cytosol	cytosol
YDR153C	*ENT5*	cytosol	punctate
YDR524C	*AGE1*	cytosol	punctate
YDR160W	*SSY1*	ER	ER
YDR525W-A	*SNA2*	vacuole membrane	vacuole membrane
YDR164C	*SEC1*	cytosol	cytosol,bud neck
YDR536W	*STL1*	cell periphery	cell periphery,vacuole
YDR166C	*SEC5*	bud	cytosol,bud
YEL013W	*VAC8*	cytosol	cytosol,vacuole membrane
YDR170C	*SEC7*	punctate	punctate
YEL016C	*NPP2*	ER	ER
YEL017C-A	*PMP2*	vacuole,punctate	punctate,vacuole membrane
YGL037C	*PNC1*	punctate	punctate
YEL020C	*PXP1*	punctate	punctate
YGL038C	*OCH1*	punctate	punctate
YEL022W	*GEA2*	cytosol	punctate
YGL041C-B	*YGL041C-B*	cytosol	ER

YEL025C	*YEL025C*	nucleus	nucleus
YGL045W	*RIM8*	cytosol	cytosol
YEL027W	*VMA3*	vacuole membrane	cell periphery
YGL047W	*ALG13*	cytosol	cytosol
YEL031W	*SPF1*	ER	ER
YGL051W	*MST27*	ER	ER,punctate
YEL033W	*MTC7*	cytosol	#N/A
YGL053W	*PRM8*	ER	ER,punctate
YEL036C	*ANP1*	punctate,ER	punctate
YGL054C	*ERV14*	ER	cell periphery,ER,punctate
YEL048C	*TCA17*	cytosol	cytosol,punctate
YGL055W	*OLE1*	ER	ER
YGL065C	*ALG2*	ER	ER
YGL067W	*NPY1*	cytosol	cytosol,punctate
YGL075C	*MPS2*	ER,punctate	ER
YGR149W	*GPC1*	ER,cell periphery,punctate	ER,cell periphery,bud
YGR152C	*RSR1*	ER,cell periphery	cell periphery,ER
YGR154C	*GTO1*	nucleus	cytosol,punctate
YHR175W	*CTR2*	ER	ER
YGR157W	*CHO2*	ER,bud	ER,bud
YHR175W-A	*YHR175W-A*	cytosol	#N/A
YGR163W	*GTR2*	cytosol	vacuole membrane
YHR176W	*FMO1*	cytosol	cytosol
YGR166W	*TRS65*	nucleus	punctate
YHR181W	*SVP26*	cytosol	ER,punctate
YGR167W	*CLC1*	punctate	punctate
YHR186C	*KOG1*	cytosol	cytosol,punctate,vacuole membrane
YGR168C	*PEX35*	punctate	punctate
YHR190W	*ERG9*	ER	ER
YHR192W	*LNP1*	ER	ER
YGR175C	*ERG1*	ER,punctate	ER,punctate
YGR177C	*ATF2*	ER	ER
YHR213W-A	*YHR213W-A*	cytosol	#N/A
YEL065W	*SIT1*	punctate	vacuole
YGL077C	*HNM1*	cell periphery	ER,vacuole
YEL069C	*HXT13*	ER	ER
YGL082W	*YGL082W*	cell periphery	cell periphery
YER001W	*MNN1*	punctate	ER,punctate
YGL083W	*SCY1*	cytosol	cytosol
YGL084C	*GUP1*	ER,punctate	ER
YER006W	*NUG1*	nucleus	nucleus
YGL095C	*VPS45*	cytosol	cytosol,punctate
YER008C	*SEC3*	bud,bud neck	cytosol,bud
YGL098W	*USE1*	ER	ER
YER014W	*HEM14*	mitochondria,punctate	mitochondria
YGL099W	*LSG1*	cytosol	cytosol
YER015W	*FAA2*	punctate	punctate

YGL104C	*VPS73*	punctate	punctate,vacuole membrane
YOR180C	*DCI1*	punctate	punctate
YER019W	*ISC1*	ER,cell periphery	cell periphery,ER
YER020W	*GPA2*	cytosol	cytosol
YGL108C	*YGL108C*	cytosol	cytosol
YER025W	*GCD11*	cytosol	cytosol
YGL114W	*YGL114W*	vacuole membrane	ER,vacuole membrane
YHR214C-D	*YHR214C-D*	cytosol	nucleus
YGR197C	*SNG1*	cell periphery	cell periphery,punctate
YHR214C-E	*YHR214C-E*	cytosol	#N/A
YGR198W	*YPP1*	nucleus	cytosol,nucleus
YIL004C	*BET1*	punctate	punctate
YGR199W	*PMT6*	ER	ER
YIL009C-A	*EST3*	cytosol	cytosol
YGR202C	*PCT1*	nuclear periphery	nuclear periphery
YIL013C	*PDR11*	cell periphery	cell periphery
YIL016W	*SNL1*	cytosol	punctate
YIL023C	*YKE4*	ER	ER
YGR213C	*RTA1*	ER	ER
YGR216C	*GPI1*	cytosol	ER
YIL037C	*PRM2*	vacuole membrane,punctate,bud	punctate,bud neck
YGR221C	*TOS2*	bud	cytosol,bud
YIL039W	*TED1*	ER	ER
YGR223C	*HSV2*	cytosol	punctate,vacuole membrane
YIL040W	*APQ12*	ER	ER
YGL115W	*SNF4*	cytosol	cytosol
YER031C	*YPT31*	bud,punctate	punctate,bud
YNL130C	*CPT1*	vacuole,ER	ER
YER039C	*HVG1*	cytosol	ER
YGL137W	*SEC27*	punctate	punctate
YER039C-A	*YER039C-A*	cytosol	#N/A
YGL140C	*YGL140C*	ER	cell periphery,ER
YER044C	*ERG28*	cytosol	ER
YGL142C	*GPI10*	ER	ER
YER053C-A	*YER053C-A*	cytosol	vacuole
YGL145W	*TIP20*	cytosol	cytosol
YGL146C	*RRT6*	cytosol	#N/A
YER060W	*FCY21*	cell periphery	cell periphery
YGL153W	*PEX14*	punctate	punctate
YER060W-A	*FCY22*	cell periphery	cell periphery,vacuole
YER072W	*VTC1*	vacuole membrane	vacuole membrane
YGL160W	*AIM14*	ER	ER
YOR165W	*SEY1*	cell periphery,ER,bud	cytosol,ER,bud
YGL161C	*YIP5*	punctate	punctate
YIL041W	*GVP36*	cytosol	cytosol
YGR227W	*DIE2*	ER	cell periphery,ER
YIL043C	*CBR1*	cytosol	cytosol,nucleus

YGR233C	*PHO81*	cytosol	cytosol
YIL044C	*AGE2*	cytosol	cytosol,punctate
YGR236C	*SPG1*	ER	ER,punctate
YGR239C	*PEX21*	cytosol	cytosol,nucleus
YIL047C	*SYG1*	vacuole membrane	vacuole membrane
YGR241C	*YAP1802*	nucleus	punctate,bud
YIL048W	*NEO1*	punctate	punctate
YGR247W	*CPD1*	cytosol	punctate
YIL049W	*DFG10*	cytosol	vacuole
YGR254W	*ENO1*	cytosol	cytosol
YIL067C	*YIL067C*	punctate	punctate
YGR260W	*TNA1*	cell periphery	cell periphery,vacuole
YIL068C	*SEC6*	Bud neck	bud neck
YGR261C	*APL6*	cytosol	cytosol,punctate
YIL076W	*SEC28*	punctate	punctate
YGR263C	*SAY1*	cell periphery,punctate,ER	cell periphery,ER,punctate
YIL085C	*KTR7*	punctate,ER	ER,punctate
YGR270W	*YTA7*	nucleus	nucleus
YIL088C	*AVT7*	vacuole membrane	vacuole membrane
YER083C	*GET2*	cell periphery,ER	ER
YGL167C	*PMR1*	punctate	punctate
YER087C-B	*SBH1*	ER	ER
YGL168W	*HUR1*	cytosol	#N/A
YER093C	*TSC11*	cytosol	cytosol
YER093C-A	*AIM11*	punctate	punctate,mitochondria
YER094C	*PUP3*	cytosol	nucleus
YER100W	*UBC6*	ER	ER
YGL180W	*ATG1*	cytosol	cytosol
YER118C	*SHO1*	cell periphery,bud,ER	cell periphery,ER,bud neck
YGL184C	*STR3*	punctate	punctate
YER119C	*AVT6*	vacuole membrane	vacuole membrane
YGL186C	*TPN1*	vacuole	vacuole
YER120W	*SCS2*	ER	ER
YGL194C-A	*YGL194C-A*	ER	ER,punctate
YGL198W	*YIP4*	punctate,ER	punctate
YER123W	*YCK3*	vacuole membrane	vacuole membrane
YGL204C	*YGL204C*	cytosol	ER
YER125W	*RSP5*	punctate	cytosol,punctate
YGL205W	*POX1*	punctate	punctate
YGR281W	*YOR1*	cell periphery	cell periphery
YIL089W	*YIL089W*	punctate	punctate,vacuole
YGR284C	*ERV29*	punctate,ER	ER,punctate
YIL090W	*ICE2*	ER	ER
YGR289C	*MAL11*	punctate	cell periphery,vacuole
YIL095W	*PRK1*	cytosol	punctate,bud neck
YNL070W	*TOM7*	mitochondria	mitochondria
YIL102C-A	*YIL102C-A*	ER	ER

YGR295C	*COS6*	cytosol	vacuole
YIL105C	*SLM1*	cell periphery,punctate	cell periphery,punctate
YHL002W	*HSE1*	cytosol	cytosol,punctate
YIL109C	*SEC24*	cytosol	punctate
YHL003C	*LAG1*	ER	cell periphery,ER,punctate
YIL117C	*PRM5*	cytosol	Blank
YHL008C	*YHL008C*	cytosol	punctate
YIL120W	*QDR1*	cell periphery,ER	cell periphery,ER
YHL016C	*DUR3*	ER	cell periphery,ER
YHL020C	*OPI1*	nuclear periphery	nuclear periphery
YIL134C-A	*YIL134C-A*	cytosol	#N/A
YHL026C	*YHL026C*	cell periphery	cell periphery
YIL134W	*FLX1*	mitochondria	mitochondria
YER129W	*SAK1*	cytosol	cytosol
YGL206C	*CHC1*	punctate	punctate
YER140W	*EMP65*	ER	ER
YGL210W	*YPT32*	punctate,bud	punctate,bud neck
YER145C	*FTR1*	cytosol	ER
YGL212W	*VAM7*	cytosol	vacuole membrane
YER151C	*UBP3*	cytosol	cytosol
YGL223C	*COG1*	cytosol	cytosol
YER157W	*COG3*	cytosol	cytosol,punctate
YGL225W	*VRG4*	punctate	punctate
YER166W	*DNF1*	ER,bud	ER,punctate,bud
YER184C	*TOG1*	nucleus	nucleus
YGL230C	*YGL230C*	ER	cytosol,ER
YGL233W	*SEC15*	bud	bud neck
YER185W	*PUG1*	ER	ER
YGL247W	*BRR6*	ER	cell periphery,ER,punctate
YFL004W	*VTC2*	vacuole membrane,ER	vacuole membrane
YGL255W	*ZRT1*	ER	ER,nuclear periphery
YFL005W	*SEC4*	bud	punctate,bud neck
YGL257C	*MNT2*	vacuole membrane	vacuole mambrane
YHL031C	*GOS1*	punctate	punctate
YIL147C	*SLN1*	cell periphery	cell periphery
YHL035C	*VMR1*	cytosol	#N/A
YIL158W	*AIM20*	cytosol	punctate
YHL036W	*MUP3*	cytosol	vacuole
YIL160C	*POT1*	punctate	punctate
YIL166C	*SOA1*	cell periphery,punctate	cell periphery,vacuole
YHL043W	*ECM34*	cytosol	cytosol
YIR004W	*DJP1*	bud	vacuole membrane,bud neck
YHL044W	*DFP4*	punctate	#N/A
YHL047C	*ARN2*	cytosol	vacuole
YIR006C	*PAN1*	cytosol	punctate,bud neck
YHL048W	*COS8*	vacuole	vacuole
YIR007W	*EGH1*	cytosol	cytosol,bud neck

YHR001W	*OSH7*	cytosol	cytosol
YIR014W	*VLD1*	cytosol	ER
YHR004C	*NEM1*	punctate	punctate
YIR020C	*YIR020C*	cytosol	#N/A
YHR007C	*ERG11*	ER	ER
YIR028W	*DAL4*	vacuole	vacuole
YHR007C-A	*YHR007C-A*	cytosol	Blank
YIR031C	*DAL7*	cytosol	cytosol
YFL011W	*HXT10*	cell periphery,punctate	cell periphery,vacuole
YGL263W	*COS12*	vacuole	punctate,vacuole
YFL025C	*BST1*	cytosol	ER
YGR004W	*PEX31*	cell periphery,ER	cell periphery,ER,punctate
YFL026W	*STE2*	cytosol	#N/A
YGR009C	*SEC9*	cytosol	cytosol,bud neck
YFL030W	*AGX1*	cytosol	cytosol
YGR016W	*YGR016W*	ER	ER
YFL034W	*MIL1*	punctate	cytosol,punctate
YGR020C	*VMA7*	cytosol	vacuole membrane
YFL037W	*TUB2*	punctate	punctate
YGR026W	*YGR026W*	cell periphery,ER,bud	cell periphery,ER
YFL038C	*YPT1*	punctate	punctate
YGR031C-A	*NAG1*	cytosol	mitochondria
YNL044W	*YIP3*	punctate	punctate
YFL040W	*YFL040W*	cytosol	vacuole
YGR036C	*CAX4*	ER	ER
YFL042C	*LAM5*	punctate,ER,bud	ER,punctate
YFL046W	*FMP32*	cytosol	punctate,mitochondria
YGR038W	*ORM1*	ER	ER
YFL050C	*ALR2*	cell periphery	cell periphery,punctate
YGR041W	*BUD9*	bud	bud neck
YHR016C	*YSC84*	cytosol	cytosol
YIR032C	*DAL3*	cytosol	cytosol
YHR021W-A	*ECM12*	cytosol	#N/A
YIR033W	*MGA2*	ER	ER
YIR034C	*LYS1*	punctate	punctate
YHR028C	*DAP2*	vacuole membrane	vacuole membrane
YIR037W	*HYR1*	cytosol	cytosol
YHR030C	*SLT2*	cytosol	cytosol,nucleus
YHR032W	*ERC1*	cytosol	#N/A
YHR036W	*BRL1*	ER	ER
YHR039C	*MSC7*	cytosol	ER,punctate,bud neck
YHR039C-A	*VMA10*	vacuole membrane	vacuole membrane
YJR117W	*STE24*	ER	ER
YHR048W	*YHK8*	cell periphery	cell periphery
YJL005W	*CYR1*	cytosol	cytosol
YJL012C	*VTC4*	vacuole membrane	cell periphery,vacuole membrane
YHR053C	*CUP1-1*	cytosol	cytosol

YJL019W	*MPS3*	nuclear periphery	punctate,nuclear periphery
YFL054C	*AQY3*	cell periphery	cell periphery,punctate
YGR048W	*UFD1*	nucleus	cytosol,nucleus
YFL055W	*AGP3*	cytosol	ER
YGR055W	*MUP1*	cytosol	cell periphery,vacuole
YFL062W	*COS4*	vacuole	punctate,vacuole
YGR057C	*LST7*	cytosol	cytosol
YFL066C	*YFL066C*	nucleus	punctate,nucleus
YGR058W	*PEF1*	nucleus,punctate	punctate,nucleus
YFL068W	*YFL068W*	cytosol	cytosol
YGR059W	*SPR3*	cytosol	cytosol
YOR103C	*OST2*	ER	ER
YFR006W	*YFR006W*	cytosol	punctate
YGR065C	*VHT1*	cell periphery	cell periphery
YFR008W	*FAR7*	cytosol	cytosol
YGR068C	*ART5*	cytosol	cytosol
YML123C	*PHO84*	ER	ER
YGR077C	*PEX8*	punctate	punctate
YFR021W	*ATG18*	cytosol	punctate,vacuole membrane
YFR022W	*ROG3*	cytosol	cytosol
YFR032C-B	*MIN10*	cytosol	#N/A
YHR055C	*CUP1-2*	cytosol	cytosol
YJL024C	*APS3*	cytosol	cytosol,punctate
YHR060W	*VMA22*	nucleus	cytosol,nucleus
YJL028W	*YJL028W*	punctate	punctate
YHR072W	*ERG7*	punctate	punctate
YJL029C	*VPS53*	punctate	cytosol,punctate
YHR073W	*OSH3*	cytosol	cytosol
YJL031C	*BET4*	nucleus	cytosol
YHR092C	*HXT4*	cell periphery,punctate	cell periphery
YJL036W	*SNX4*	cytosol	cytosol,punctate
YHR094C	*HXT1*	cell periphery	cell periphery
YJL038C	*LOH1*	cytosol	cytosol
YHR096C	*HXT5*	cell periphery	cell periphery
YJL044C	*GYP6*	punctate	cytosol,punctate
YJL052W	*TDH1*	cytosol	cytosol
YJL058C	*BIT61*	nucleus	cytosol,cell periphery
YJL059W	*YHC3*	cytosol	punctate
YHR108W	*GGA2*	cytosol	punctate
YFR035C	*YFR035C*	cytosol	#N/A
YGR105W	*VMA21*	ER	ER
YGR120C	*COG2*	cytosol	cytosol
YGR125W	*VSB1*	vacuole membrane	vacuole membrane
YFR042W	*KEG1*	ER	ER
YGL008C	*PMA1*	cytosol	cytosol
YFR048W	*RMD8*	cytosol	vacuole membrane
YGR131W	*FHN1*	cell periphery,bud	cell periphery,punctate

YFR051C	*RET2*	punctate	punctate
YGR133W	*PEX4*	punctate	punctate
YGL001C	*ERG26*	ER	ER
YGR134W	*CAF130*	cytosol	cytosol
YGL005C	*COG7*	cytosol	cytosol
YGR138C	*TPO2*	cell periphery	cell periphery
YGL006W	*PMC1*	vacuole membrane	vacuole membrane
YGR141W	*VPS62*	cytosol	ER
YGL012W	*ERG4*	ER	ER
YGR143W	*SKN1*	cytosol	punctate
YGL022W	*STT3*	ER	ER
YGR144W	*THI4*	punctate	cytosol
YHR114W	*BZZ1*	cytosol	cytosol,punctate,bud neck
YJL080C	*SCP160*	ER	cytosol,vacuole membrane
YHR123W	*EPT1*	vacuole,punctate	ER,punctate
YJL084C	*ALY2*	cytosol	cytosol
YHR131C	*YHR131C*	cytosol	cytosol
YJL085W	*EXO70*	cytosol	cytosol,bud neck
YHR133C	*NSG1*	ER	ER
YJL093C	*TOK1*	cell periphery	cell periphery
YHR135C	*YCK1*	cell periphery	cell periphery
YJL094C	*KHA1*	cytosol	ER
YHR142W	*CHS7*	cytosol	ER
YJL095W	*BCK1*	bud neck	bud neck
YHR149C	*SKG6*	cytosol	cytosol,ER
YJL097W	*PHS1*	ER	ER
YHR150W	*PEX28*	bud	cytosol
YJL099W	*CHS6*	cytosol	cytosol,punctate
YHR155W	*LAM1*	cytosol	cytosol
YJL100W	*LSB6*	vacuole membrane	vacuole membrane
YHR160C	*PEX18*	cytosol	punctate
YJL108C	*PRM10*	ER	ER
YHR161C	*YAP1801*	cytosol	punctate,bud neck
YJL112W	*MDV1*	mitochondria,punctate	punctate,mitochondria
YHR171W	*ATG7*	cytosol	cytosol
YJL117W	*PHO86*	ER	ER
YJL123C	*MTC1*	punctate	punctate
YKL146W	*AVT3*	vacuole membrane	vacuole membrane
YJL127C-B	*MCO6*	punctate	punctate,mitochondria
YKL157W	*APE2*	nucleus	Blank
YJL129C	*TRK1*	cell periphery	cell periphery,punctate
YKL165C	*MCD4*	ER	ER
YKL173W	*SNU114*	cytosol	cytosol,nucleus
YJL139C	*YUR1*	cytosol	ER
YKL174C	*TPO5*	ER,punctate	ER
YJL145W	*SFH5*	cytosol	cell periphery,punctate
YKL175W	*ZRT3*	ER	ER

YJL091C	*GWT1*	ER	ER
YKL178C	*STE3*	cytosol	ER
YNL131w	*TOM22*	mitochondria	mitochondria
YKL179C	*COY1*	punctate	punctate
YJL163C	*YJL163C*	vacuole membrane	vacuole membrane
YKL183C-A	*YKL183C-A*	cytosol	#N/A
YBR086C	*IST2*	cell periphery	cell periphery,punctate
YKL187C	*FAT3*	cell periphery	cell periphery
YJL170C	*ASG7*	vacuole	punctate,vacuole
YKL188C	*PXA2*	punctate	punctate
YJL172W	*CPS1*	vacuole membrane	vacuole
YKL196C	*YKT6*	cytosol	cytosol
YLR081W	*GAL2*	cell periphery	cell periphery
YLR088W	*GAA1*	ER	ER
YLR092W	*SUL2*	cytosol	#N/A
YML047C	*PRM6*	vacuole	vacuole
YLR093C	*NYV1*	vacuole membrane	vacuole membrane
YML048W	*GSF2*	ER	ER
YLR100W	*ERG27*	ER,punctate	ER,punctate
YML052W	*SUR7*	cell periphery,punctate	cell periphery,punctate
YLR109W	*AHP1*	cytosol	cytosol
YML054C	*CYB2*	nucleus	cytosol,nucleus
YLR114C	*AVL9*	bud	punctate,bud neck
YML055W	*SPC2*	ER	ER
YLR119W	*SRN2*	nucleus	nucleus
YML059C	*NTE1*	bud,punctate	punctate,bud
YOL009C	*MDM12*	cytosol	cytosol,punctate
YML064C	*TEM1*	punctate	cytosol,punctate
YLR130C	*ZRT2*	ER	ER
YLR138W	*NHA1*	ER	ER
YML067C	*ERV41*	ER,punctate	cytosol,punctate
YJL183W	*MNN11*	vacuole	ER,punctate
YKL197C	*PEX1*	cytosol	cytosol
YJL185C	*ATG36*	cytosol	punctate
YMR134W	*ERG29*	ER	ER
YJL193W	*YJL193W*	vacuole	punctate
YDR517W	*GRH1*	cytosol	cytosol
YJL194W	*CDC6*	nucleus	nucleus
YMR029C	*FAR8*	cytosol	Blank
YJL196C	*ELO1*	ER	ER
YKL209C	*STE6*	vacuole	vacuole
YJL198W	*PHO90*	cytosol	cell periphery,punctate
YKL212W	*SAC1*	ER	ER
YJL204C	*RCY1*	bud	punctate,bud
YKL217W	*JEN1*	vacuole	cell periphery,vacuole
YJL205C	*NCE101*	cytosol	cytosol,nucleus
YKL219W	*COS9*	vacuole	ER

YJL207C	*LAA1*	punctate	punctate
YJL210W	*PEX2*	cytosol	cytosol,punctate
YJL212C	*OPT1*	cell periphery	cell periphery,punctate
YKL221W	*MCH2*	cell periphery	cell periphery
YJL214W	*HXT8*	cell periphery	cell periphery,vacuole membrane
YKR001C	*VPS1*	cytosol	cytosol,punctate
YLR145W	*RMP1*	nucleus	nucleus
YML071C	*COG8*	cytosol	cytosol,punctate
YLR148W	*PEP3*	punctate	punctate
YJL001W	*PRE3*	nucleus	cytosol
YLR151C	*PCD1*	cytosol	cytosol
YML075C	*HMG1*	ER	ER,nuclear periphery
YLR152C	*YLR152C*	ER	ER
YML077W	*BET5*	punctate	cytosol,punctate
YLR154C-G	*YLR154C-G*	cytosol	#N/A
YML081W	*TDA9*	nucleus	nucleus
YML085C	*TUB1*	punctate	punctate
YML087C	*AIM33*	cytosol	#N/A
YLR166C	*SEC10*	bud	cytosol,bud
YML097C	*VPS9*	cytosol	cytosol,punctate
YLR170C	*APS1*	cytosol	punctate
YML101C	*CUE4*	cytosol	nucleus
YLR173W	*TAG1*	vacuole membrane	vacuole membrane
YML104C	*MDM1*	ER	cell periphery,punctate
YLR191W	*PEX13*	punctate	punctate
YML115C	*VAN1*	vacuole	punctate
YLR206W	*ENT2*	cytosol	punctate
YML116W	*ATR1*	cell periphery	cell periphery
YJL219W	*HXT9*	cell periphery	cell periphery,ER
YKR007W	*MEH1*	cytosol	cytosol
YOL026c	*MIM1*	mitochondria	mitochondria
YKR009C	*FOX2*	punctate	punctate
YKR014C	*YPT52*	punctate	punctate,vacuole membrane
YJR001W	*AVT1*	vacuole membrane	vacuole membrane
YKR020W	*VPS51*	punctate	cytosol,punctate
YJR005W	*APL1*	nucleus	punctate,bud neck,nucleus
YKR021W	*ALY1*	cytosol	cytosol
YJR009C	*TDH2*	nucleus	cytosol,nucleus
YKR022C	*NTR2*	cytosol	cytosol
YJR010C-A	*SPC1*	ER	ER
YKR026C	*GCN3*	cytosol	cytosol
YJR013W	*GPI14*	ER	ER
YKR027W	*BCH2*	cytosol	punctate
YJR015W	*YJR015W*	ER	ER
YKR030W	*GMH1*	punctate	punctate
YJR019C	*TES1*	punctate	punctate
YJR031C	*GEA1*	punctate	punctate

YKR036C	*CAF4*	mitochondria,punctate	mitochondria
YJR040W	*GEF1*	punctate	punctate
YKR039W	*GAP1*	ER	ER
YLR208W	*SEC13*	punctate	ER,punctate
YLR212C	*TUB4*	nucleus,punctate	punctate
YML121W	*GTR1*	cytosol	cytosol,vacuole membrane
YLR220W	*CCC1*	vacuole membrane	vacuole membrane
YML124C	*TUB3*	punctate	punctate
YLR229C	*CDC42*	ER	cell periphery,vacuole membrane
YML125C	*PGA3*	ER	ER
YLR237W	*THI7*	cytosol	cell periphery,ER
YML131W	*YML131W*	cytosol	cytosol
YLR238W	*FAR10*	ER	ER,punctate
YML132W	*COS3*	vacuole	vacuole
YLR240W	*VPS34*	cytosol	cytosol,punctate
YMR010W	*ANY1*	ER	ER
YLR241W	*CSC1*	ER	ER
YMR011W	*HXT2*	cell periphery,vacuole	cell periphery,vacuole
YLR242C	*ARV1*	ER	ER
YMR013C	*SEC59*	ER	ER
YMR015C	*ERG5*	ER	ER
YLR251W	*SYM1*	punctate	mitochondria
YMR018W	*PEX9*	cytosol	cytosol,punctate
YLR260W	*LCB5*	cytosol	Blank
YMR019W	*STB4*	cytosol	#N/A
YKR046C	*PLN1*	punctate	punctate
YJR044C	*VPS55*	vacuole	punctate,vacuole membrane
YKR050W	*TRK2*	cell periphery	cell periphery
YJR054W	*KCH1*	vacuole	punctate
YJR058C	*APS2*	nucleus	punctate,bud neck,nucleus
YJR066W	*TOR1*	punctate	cytosol,punctate,vacuole membrane
YKR051W	*HFL1*	cytosol	#N/A
YJR073C	*OPI3*	cytosol	ER,punctate
YKR053C	*YSR3*	vacuole	punctate
YJR076C	*CDC11*	bud neck	bud neck
YKR055W	*RHO4*	nucleus	cell periphery,ER,bud neck
YJR086W	*STE18*	cell periphery	cell periphery,punctate
YKR067W	*GPT2*	ER	ER
YJR088C	*EMC2*	nucleus	ER
YKR068C	*BET3*	cytosol	cytosol,punctate
YJR102C	*VPS25*	cytosol	cytosol
YKR084C	*HBS1*	cytosol	cytosol
YJR106W	*ECM27*	ER	ER
YKR088C	*TVP38*	punctate	punctate
YLR262C	*YPT6*	punctate	punctate
YMR022W	*UBC7*	cytosol	cytosol,ER
YLR265C	*NEJ1*	nucleus	nucleus

YMR023C	*MSS1*	cytosol	Blank
YLR268W	*SEC22*	ER	ER
YMR026C	*PEX12*	punctate	punctate
YLR284C	*ECI1*	punctate	punctate
YMR030W-A	*YMR030W-A*	cytosol	#N/A
YLR099W-A	*MIM2*	mitochondria	mitochondria
YMR031C	*EIS1*	cytosol	cell periphery,punctate
YLR289W	*GUF1*	nucleus	Blank
YMR034C	*RCH1*	cell periphery	cell periphery
YLR291C	*GCD7*	cytosol	cytosol
YMR040W	*YET2*	cytosol	ER,punctate
YLR292C	*SEC72*	cytosol	ER
YMR042W	*ARG80*	nucleus	missing
YLR297W	*YLR297W*	cytosol	cytosol
YMR052W	*FAR3*	cytosol	cell periphery,punctate
YLR299W	*ECM38*	cytosol	#N/A
YMR054W	*STV1*	punctate	punctate
YLR301W	*HRI1*	cytosol	cytosol
YKR089C	*TGL4*	punctate	punctate
YJR112W-A	*YJR112W-A*	ER,bud	ER,punctate
YKR093W	*PTR2*	cell periphery,vacuole	cell periphery,vacuole
YJR116W	*TDA4*	ER	ER
YHL030W	*ECM29*	cytosol	cytosol,nucleus
YJR124C	*YJR124C*	vacuole membrane	vacuole membrane
YKR103W	*NFT1*	cytosol	#N/A
YJR125C	*ENT3*	cytosol	cytosol,punctate
YKR105C	*VBA5*	cytosol	cell periphery
YJR126C	*VPS70*	cytosol	ER
YKR106W	*GEX2*	cell periphery	cell periphery
YFR050C	*PRE4*	cytosol	cytosol,nucleus
YLL001W	*DNM1*	cell periphery,punctate	punctate
YLL005C	*SPO75*	bud	#N/A
YLL006W	*MMM1*	punctate	ER,punctate
YJR134C	*SGM1*	punctate	cytosol,punctate
YLL006W-A	*YLL006W-A*	cytosol	#N/A
YJR143C	*PMT4*	ER	ER
YLL010C	*PSR1*	cell periphery	cytosol
YJR152W	*DAL5*	cell periphery,vacuole	cell periphery,vacuole
YLL012W	*YEH1*	nucleus	punctate
YLR309C	*IMH1*	punctate	punctate
YMR065W	*KAR5*	cytosol	#N/A
YLR314C	*CDC3*	bud neck	bud neck
YMR068W	*AVO2*	nucleus	cytosol
YLR324W	*PEX30*	cell periphery,bud,ER	cell periphery,ER,bud
YMR071C	*TVP18*	punctate	punctate
YLR326W	*YLR326W*	cell periphery	cell periphery
YLR330W	*CHS5*	punctate	cytosol,punctate

YMR079W	*SEC14*	cytosol	cytosol
YLR337C	*VRP1*	cytosol	cytosol,punctate
YLR342W	*FKS1*	cell periphery,bud	cell periphery,punctate,bud
YMR086W	*SEG1*	cell periphery,punctate	cell periphery,punctate
YLR342W-A	*YLR342W-A*	cytosol	#N/A
YMR088C	*VBA1*	cytosol	vacuole membrane
YLR353W	*BUD8*	cytosol	bud neck
YMR101C	*SRT1*	punctate	punctate
YLR356W	*ATG33*	mitochondria	mitochondria
YMR109W	*MYO5*	cytosol	cell periphery,punctate,bud neck
YLR360W	*VPS38*	cytosol	vacuole
YMR110C	*HFD1*	ER	ER
YIL065c	*FIS1*	mitochondria	mitochondria
YLL014W	*EMC6*	ER	ER
YJR158W	*HXT16*	cell periphery	cell periphery
YLL015W	*BPT1*	bud	ER,punctate
YJR160C	*MPH3*	cytosol	cell periphery,vacuole
YLL023C	*POM33*	bud,ER	ER
YKL002W	*DID4*	cytosol	cytosol,punctate
YKL004W	*AUR1*	ER	ER,punctate
YLL028W	*TPO1*	cell periphery	cell periphery
YKL006C-A	*SFT1*	punctate	cytosol,punctate
YLL031C	*GPI13*	ER	ER
YKL008C	*LAC1*	ER	ER,punctate,nuclear periphery
YLL038C	*ENT4*	cytosol	cytosol
YKL015W	*PUT3*	nucleus	nucleus
YLL042C	*ATG10*	cytosol	#N/A
YKL020C	*SPT23*	nucleus	ER
YLL043W	*FPS1*	cell periphery,ER,punctate	cell periphery,punctate,vacuole
YOR322C	*LDB19*	cytosol	cytosol,punctate
YLL048C	*YBT1*	vacuole membrane	ER
YKL026C	*GPX1*	cytosol	cytosol
YLL052C	*AQY2*	cytosol	cytosol
YLL055W	*YCT1*	cell periphery,punctate	cell periphery,punctate,vacuole
YLR361C	*DCR2*	vacuole	vacuole
YMR118C	*SHH3*	mitochondria	mitochondria
YLR368W	*MDM30*	nucleus	cytosol,nucleus
YMR119W	*ASI1*	nuclear periphery	nuclear periphery
YMR123W	*PKR1*	ER	ER
YLR371W	*ROM2*	cytosol	cytosol,nucleus
YMR129W	*POM152*	ER,punctate	cell periphery,nuclear periphery
YLR372W	*ELO3*	ER	ER
YLR376C	*PSY3*	nucleus	cytosol,nucleus
YLR378C	*SEC61*	ER	ER
YCR032W	*BPH1*	cytosol	cytosol,punctate
YLR380W	*CSR1*	cytosol	cytosol
YMR148W	*LDO16*	punctate	punctate

YLR389C	*STE23*	punctate	punctate,mitochondria
YMR152W	*YIM1*	ER	ER
YOR045w	*TOM6*	mitochondria	mitochondria
YMR155W	*YMR155W*	vacuole	vacuole
YLR396C	*VPS33*	cytosol	cytosol,punctate
YAL040C	*CLN3*	nucleus	#N/A
YGL181W	*GTS1*	cytosol	nucleus,punctate,bud neck
YMR159C	*ATG16*	cytosol	cytosol
YKL041W	*VPS24*	cytosol	cytosol,punctate
YLL061W	*MMP1*	cytosol	cell periphery,ER
YKL044W	*MMO1*	cytosol	punctate,mitochondria
YLR004C	*THI73*	cell periphery	cell periphery
YKL047W	*ANR2*	ER	ER
YLR018C	*POM34*	nuclear periphery	nuclear periphery
YLR019W	*PSR2*	cytosol	cytosol
YKL063C	*YKL063C*	punctate	punctate
YLR020C	*YEH2*	cell periphery,punctate	cell periphery,punctate
YKL064W	*MNR2*	vacuole membrane	vacuole membrane
YLR023C	*IZH3*	ER	ER
YKL065C	*YET1*	ER	ER
YKL065W-A	*DPC7*	cytosol	ER,punctate
YLR026C	*SED5*	punctate	punctate
YKL069W	*YKL069W*	cytosol	cytosol
YLR027C	*AAT2*	punctate	punctate
YKL080W	*VMA5*	cytosol	vacuole membrane
YLR034C	*SMF3*	vacuole membrane	vacuole membrane
YKL094W	*YJU3*	ER	cell periphery,ER
YJL039C	*NUP192*	nucleus	punctate,nucleus
YKL096C-B	*YKL096C-B*	cytosol	#N/A
YLR039C	*RIC1*	cytosol	cytosol
YLR411W	*CTR3*	ER,bud	ER
YMR161W	*HLJ1*	ER,bud	ER
YLR417W	*VPS36*	punctate	punctate
YMR162C	*DNF3*	ER,bud	ER
YLR423C	*ATG17*	nucleus	cytosol,nucleus
YMR163C	*INP2*	punctate	punctate
YLR426W	*TDA5*	cytosol	ER
YMR165C	*PAH1*	cytosol	cytosol
YLR440C	*SEC39*	cytosol	cytosol
YMR173W	*DDR48*	cytosol	cytosol
YLR443W	*ECM7*	vacuole	#N/A
YMR183C	*SSO2*	cell periphery	cell periphery
YLR447C	*VMA6*	cytosol	vacuole membrane
YMR187C	*YMR187C*	cytosol	#N/A
YLR450W	*HMG2*	ER	ER
YMR192W	*GYL1*	bud	cytosol,bud
YMR197C	*VTI1*	vacuole membrane,punctate	punctate,vacuole membrane

YMR198W	*CIK1*	nucleus	nucleus
YMR202W	*ERG2*	ER,punctate	ER,punctate
YMR204C	*INP1*	punctate	punctate
YOR228C	*MCP1*	mitochondria	mitochondria
YLR043C	*TRX1*	cytosol	cytosol,nucleus
YLR046C	*YLR046C*	vacuole	vacuole
YLR047C	*FRE8*	cytosol	ER
YMR017W	*SPO20*	cytosol	punctate
YLR050C	*EMA19*	ER	ER
YKL105C	*SEG2*	cell periphery,punctate	cell periphery,ER
YKL119C	*VPH2*	vacuole,ER	ER,punctate
YLR057W	*MNL2*	punctate	vacuole
YKL124W	*SSH4*	cytosol	ER
YLR064W	*PER33*	ER	ER
YKL129C	*MYO3*	cell periphery,punctate	cell periphery,ER
YLR065C	*SND2*	ER	ER
YKL130C	*SHE2*	cytosol	cytosol,bud
YLR066W	*SPC3*	ER	ER
YKL133C	*RCI50*	cytosol	mitochondria
YLR072W	*LAM6*	mitochondria,punctate	mitochondria,punctate
YKL135C	*APL2*	cytosol	cytosol,punctate
YLR078C	*BOS1*	punctate	punctate
YLR080W	*EMP46*	cytosol	#N/A
YML001W	*YPT7*	vacuole membrane	vacuole membrane
YMR208W	*ERG12*	cytosol	cytosol
YML006C	*GIS4*	cell periphery	cell periphery
YMR212C	*EFR3*	cytosol	cell periphery,punctate
YML008C	*ERG6*	punctate	punctate
YDL192W	*ARF1*	cytosol	cytosol
YML013W	*UBX2*	ER,punctate	ER
YMR221C	*FMP42*	vacuole membrane	vacuole membrane
YML018C	*YML018C*	vacuole membrane	vacuole membrane
YMR231W	*PEP5*	cytosol	punctate
YML019W	*OST6*	ER	ER
YMR232W	*FUS2*	nucleus	nucleus
YML028W	*TSA1*	nucleus	cytosol
YMR237W	*BCH1*	cytosol	punctate
YML029W	*USA1*	ER	ER
YMR243C	*ZRC1*	vacuole membrane	vacuole membrane
YML031W	*NDC1*	ER	cell periphery,punctate,nuclear periphery
YMR246W	*FAA4*	cytosol	punctate
YML034W	*SRC1*	nuclear periphery	punctate,nuclear periphery
YMR253C	*YMR253C*	punctate	punctate
YML037C	*LFT1*	punctate	punctate
YMR256C	*COX7*	mitochondria,punctate	mitochondria
YML042W	*CAT2*	punctate	punctate
YMR258C	*ROY1*	bud	ER

YMR264W	*CUE1*	cytosol	cell periphery,punctate,nucleus
YNL321W	*VNX1*	vacuole membrane	vacuole membrane
YMR266W	*RSN1*	ER,bud	cell periphery,ER
YNL323W	*LEM3*	ER	ER
YMR272C	*SCS7*	ER	ER
YNL326C	*PFA3*	vacuole	vacuole membrane
YMR274C	*RCE1*	cytosol	ER
YNL329C	*PEX6*	cytosol	cytosol,punctate
YMR279C	*ATR2*	cell periphery,ER,vacuole	cell periphery,vacuole
YNL336W	*COS1*	vacuole	vacuole
YMR281W	*GPI12*	ER	ER
YNR002C	*ATO2*	punctate	punctate,vacuole
YMR292W	*GOT1*	punctate	punctate
YNR006W	*VPS27*	cytosol	cytosol,punctate
YMR296C	*LCB1*	cytosol	ER
YNR007C	*ATG3*	cytosol	cytosol
YMR298W	*LIP1*	ER	ER
YNR008W	*LRO1*	cytosol	Blank
YNR013C	*PHO91*	cytosol	vacuole membrane
YMR304W	*UBP15*	cytosol	cytosol
YNR016C	*ACC1*	cytosol	cytosol,punctate
YIL114C	*POR2*	mitochondria	mitochondria
YNR019W	*ARE2*	ER	ER
YOR084W	*LPX1*	punctate	punctate
YOR086C	*TCB1*	ER	ER
YOR087W	*YVC1*	vacuole	vacuole membrane
YOR089C	*VPS21*	punctate	punctate
YPL098C	*MGR2*	mitochondria	mitochondria
YOR092W	*ECM3*	cytosol	ER
YPL099C	*INA17*	mitochondria,punctate	punctate,mitochondria
YOR093C	*CMR2*	cytosol	cytosol,bud
YPL100W	*ATG21*	cytosol	punctate,vacuole membrane
YOR094W	*ARF3*	cytosol	cytosol
YPL112C	*PEX25*	punctate	punctate
YPL117C	*IDI1*	cytosol	cytosol
YOR099W	*KTR1*	cytosol	punctate,vacuole membrane
YPL119C-A	*YPL119C-A*	cytosol	#N/A
YOR101W	*RAS1*	cell periphery	cell periphery
YPL120W	*VPS30*	cytosol	cytosol
YOR104W	*PIN2*	vacuole membrane	vacuole membrane
YPL123C	*RNY1*	nucleus	cytosol,punctate
YOR106W	*VAM3*	vacuole membrane	vacuole membrane
YPL137C	*GIP3*	cytosol	cytosol
YMR306W	*FKS3*	ER	ER
YNR021W	*YNR021W*	ER	ER
YMR319C	*FET4*	cell periphery	cell periphery,vacuole
YNR026C	*SEC12*	ER	ER

YNL006W	*LST8*	cytosol	cytosol,punctate
YNR030W	*ALG12*	ER	ER
YNL008C	*ASI3*	nuclear periphery	nuclear periphery
YNL009W	*IDP3*	punctate	punctate
YNR039C	*ZRG17*	ER	ER
YNL015W	*PBI2*	cytosol	cytosol
YNR048W	*YNR048W*	ER	ER
YNL020C	*ARK1*	punctate,bud neck	punctate,bud
YNR049C	*MSO1*	cytosol	cytosol,bud neck
YMR060C	*SAM37*	mitochondria	mitochondria
YNR051C	*BRE5*	cytosol	Blank
YNL029C	*KTR5*	vacuole	ER,punctate
YNL032W	*SIW14*	cytosol	cytosol
YNL038W	*GPI15*	ER	ER
YNL041C	*COG6*	punctate	cytosol,punctate
YNR055C	*HOL1*	cytosol	cell periphery
YOR115C	*TRS33*	cytosol	cytosol,punctate
YPL140C	*MKK2*	cytosol	cytosol
YOR149C	*SMP3*	ER	ER
YPL145C	*KES1*	cytosol	cytosol
YOR153W	*PDR5*	cell periphery	cell periphery
YPL147W	*PXA1*	punctate	punctate
YOR157C	*PUP1*	punctate	cytosol,nucleus
YPL149W	*ATG5*	punctate	cytosol,nucleus
YOR161C	*PNS1*	cell periphery	cell periphery
YPL156C	*PRM4*	vacuole	vacuole membrane
YPL162C	*YPL162C*	bud	nucleus
YPR133W-A	*TOM5*	mitochondria	mitochondria
YOR161C-C	*YOR161C-C*	cytosol	#N/A
YPL166W	*ATG29*	cytosol	cytosol,punctate
YOR171C	*LCB4*	cell periphery	cell periphery
YPL175W	*SPT14*	punctate	cytosol
YOR175C	*ALE1*	cytosol	ER
YPL176C	*TRE1*	punctate	punctate,vacuole
YOR178C	*GAC1*	cytosol	cytosol
YPL180W	*TCO89*	nucleus	cytosol,vacuole membrane
YOR183W	*FYV12*	cytosol	#N/A
YPL186C	*UIP4*	ER	ER
YNL046W	*YNL046W*	cell periphery,punctate,ER	punctate,nucleus
YNL047C	*SLM2*	cell periphery,punctate	cell periphery,punctate
YNR062C	*PUL3*	ER	ER
YNR065C	*YNR065C*	ER	ER
YNL048W	*ALG11*	punctate	punctate
YNR070W	*PDR18*	cytosol	#N/A
YNL049C	*SFB2*	cytosol	punctate
YNR072W	*HXT17*	cell periphery,vacuole	cell periphery,vacuole
YNL051W	*COG5*	cytosol	cytosol

YNR075W	*COS10*	vacuole membrane	vacuole membrane
YNL054W	*VAC7*	vacuole membrane	vacuole membrane
YOL002C	*IZH2*	vacuole,ER	ER,punctate
YNL065W	*AQR1*	cell periphery	cell periphery,punctate
YOL003C	*PFA4*	ER	ER
YNL074C	*MLF3*	cytosol	cytosol
YNL080C	*EOS1*	ER	ER
YNL084C	*END3*	cytosol	cell periphery,punctate
YOL018C	*TLG2*	punctate	punctate
YNL087W	*TCB2*	cell periphery,bud	cell periphery,ER
YOL019W	*TOS7*	cell periphery,bud,bud neck	cell periphery,punctate
YOR185C	*GSP2*	nucleus	nucleus
YPL191C	*MIY2*	punctate	cytosol,ER
YOR186W	*YOR186W*	cytosol	#N/A
YPL192C	*PRM3*	nuclear periphery	nuclear periphery
YPL195W	*APL5*	cytosol	punctate
YOR192C	*THI72*	cell periphery	cell periphery,ER,vacuole
YPL199C	*YPL199C*	cell periphery	cell periphery
YOR193W	*PEX27*	punctate	punctate
YPL200W	*CSM4*	cytosol	ER,punctate
YOR216C	*RUD3*	punctate	punctate
YPL204W	*HRR25*	cytosol	cytosol,bud neck
YOR219C	*STE13*	punctate	punctate
YPL206C	*PGC1*	punctate	punctate
YOR223W	*DSC3*	ER	ER
YPL217C	*BMS1*	nucleus	nucleus
YPL227C	*ALG5*	punctate	punctate
YOR237W	*HES1*	cytosol	punctate,vacuole membrane,bud
YPL231W	*FAS2*	cytosol	cytosol
YOR241W	*MET7*	ER	ER
YPL232W	*SSO1*	cell periphery,bud	cell periphery
YOR242C	*SSP2*	nucleus	punctate,nucleus
YPL236C	*ENV7*	vacuole membrane,punctate	punctate,vacuole membrane
YNL090W	*RHO2*	cytosol	cell periphery
YOL020W	*TAT2*	ER	ER
YNL093W	*YPT53*	punctate	punctate,vacuole membrane
YNL095C	*YNL095C*	ER	ER
YNL098C	*RAS2*	cell periphery	cell periphery
YNL111C	*CYB5*	ER	ER
YOL044W	*PEX15*	punctate	punctate
YNL115C	*YNL115C*	vacuole membrane	vacuole membrane
YOL047C	*LDS2*	punctate	punctate
YNL117W	*MLS1*	cytosol	cytosol,punctate
YOL048C	*RRT8*	punctate	punctate
YNL125C	*ESBP6*	cell periphery	cell periphery
YOL053W	*AIM39*	cytosol	cytosol,punctate
YOL060C	*MAM3*	cytosol	ER

YNL142W	*MEP2*	ER	ER,punctate
YOL062C	*APM4*	cytosol	cytosol
YNL143C	*YNL143C*	nucleus	#N/A
YOL065C	*INP54*	punctate	vacuole membrane
YOR245C	*DGA1*	ER,punctate	ER,punctate
YPL244C	*HUT1*	ER	ER
YOR246C	*ENV9*	cytosol	punctate
YPL246C	*RBD2*	punctate	punctate
YOR254C	*SEC63*	ER	cell periphery,ER
YPL249C	*GYP5*	bud	cytosol,bud
YOR260W	*GCD1*	cytosol	cytosol
YPL259C	*APM1*	cytosol	punctate
YOR268C	*YOR268C*	cytosol	nucleus
YPL264C	*YPL264C*	punctate	punctate
YOR270C	*VPH1*	vacuole membrane	vacuole membrane
YPL265W	*DIP5*	cell periphery,vacuole	cell periphery,vacuole
YOR271C	*FSF1*	mitochondria	mitochondria
YPL274W	*SAM3*	ER	ER
YOR273C	*TPO4*	cell periphery	cell periphery
YPL279C	*FEX2*	cytosol	cell periphery
YPR080W	*TEF1*	cytosol	cytosol
YPR003C	*YPR003C*	vacuole membrane	vacuole membrane
YOR291W	*YPK9*	vacuole membrane	vacuole membrane
YPR010C-A	*MIN8*	cytosol	cytosol
YOR292C	*YOR292C*	punctate,vacuole	punctate
YOR298W	*MUM3*	punctate	punctate
YPR026W	*ATH1*	vacuole	punctate
YOL073C	*DSC2*	ER	ER
YNL144C	*YNL144C*	cytosol	#N/A
YOL075C	*YOL075C*	cell periphery,ER	cell periphery,ER
YNL145W	*MFA2*	ER	ER
YOL078W	*AVO1*	cytosol	cytosol
YNL146W	*YNL146W*	ER	ER
YOL081W	*IRA2*	cytosol	cytosol
YOL082W	*ATG19*	cytosol	cytosol,punctate
YNL154C	*YCK2*	cell periphery	cell periphery
YOL083W	*ATG34*	cytosol	cytosol,punctate
YNL156C	*NSG2*	ER	ER
YOL084W	*PHM7*	ER	ER
YOL092W	*YPQ1*	ER,bud	ER
YOL100W	*PKH2*	punctate	punctate
YNL159C	*ASI2*	ER,punctate	ER,punctate
YOL101C	*IZH4*	vacuole	punctate,vacuole
YOL103W	*ITR2*	cell periphery,vacuole	cell periphery,vacuole
YNL163C	*RIA1*	cytosol	cytosol
YOL107W	*YOL107W*	punctate	punctate
YOR299W	*BUD7*	cytosol	punctate

YPR028W	*YOP1*	cell periphery,punctate,bud	cell periphery,ER,bud
YOR301W	*RAX1*	cytosol	vacuole,bud neck
YPR029C	*APL4*	cytosol	cytosol,punctate
YOR133W	*EFT1*	cytosol	cytosol
YPR030W	*CSR2*	cytosol	cytosol
YOR307C	*SLY41*	punctate	punctate
YPR032W	*SRO7*	punctate	cytosol
YOR311C	*DGK1*	ER	ER
YPR036W	*VMA13*	vacuole membrane	vacuole membrane
YOR316C	*COT1*	vacuole membrane	vacuole membrane
YOR317W	*FAA1*	ER	ER
YPR037C	*ERV2*	vacuole,punctate	punctate,vacuole,vacuole membrane
YDR385W	*EFT2*	cytosol	cytosol
YPR049C	*ATG11*	punctate,bud	punctate
YOR321W	*PMT3*	ER,punctate	ER,punctate
YOR324C	*FRT1*	cytosol	ER
YPR063C	*YPR063C*	ER	ER
YPR071W	*YPR071W*	ER	ER
YOR327C	*SNC2*	punctate,bud	cell periphery,punctate,bud
YPR075C	*OPY2*	cytosol	ER,punctate
YNL176C	*TDA7*	cytosol	ER
YOL110W	*SHR5*	ER	ER
YNL180C	*RHO5*	cytosol	cell periphery,vacuole membrane
YOL119C	*MCH4*	cell periphery	cell periphery
YNL181W	*PBR1*	ER,punctate	ER,punctate
YOL122C	*SMF1*	cytosol	vacuole
YNL183C	*NPR1*	cytosol	Blank
YOL126C	*MDH2*	cytosol	punctate
YNL188W	*KAR1*	cytosol	ER
YHR005C	*GPA1*	cytosol	Blank
YNL192W	*CHS1*	punctate	punctate,bud
YOL130W	*ALR1*	cell periphery	cell periphery
YNL194C	*YNL194C*	cell periphery	cell periphery,punctate
YOL138C	*RTC1*	cytosol	cytosol
YNL202W	*SPS19*	punctate	punctate
YOL147C	*PEX11*	punctate	punctate
YNL214W	*PEX17*	punctate	punctate
YOL152W	*FRE7*	ER	ER
YNL217W	*PPN2*	vacuole membrane	vacuole membrane
YOL158C	*ENB1*	cell periphery	cell periphery
YNL227C	*JJJ1*	cytosol	cytosol
YOL162W	*YOL162W*	ER	ER
YOR328W	*PDR10*	cell periphery	cell periphery,ER
YPR079W	*MRL1*	vacuole membrane	vacuole membrane
YOR329C	*SCD5*	cytosol	cytosol,punctate,bud
YPR088C	*SRP54*	cytosol	cytosol,ER,punctate
YOR332W	*VMA4*	cytosol	vacuole membrane

YPR095C	*SYT1*	cytosol	cytosol
YOR348C	*PUT4*	cytosol	ER
YOR357C	*SNX3*	vacuole membrane	vacuole membrane
YOR370C	*MRS6*	cytosol	cytosol,nucleus
YHR083W	*SAM35*	cytosol	cytosol,punctate
YOR377W	*ATF1*	ER	ER
YPR103W	*PRE2*	cytosol	cytosol,nucleus
YOR378W	*AMF1*	cell periphery	cell periphery
YPR105C	*COG4*	cytosol	cytosol,punctate
YOR390W	*FEX1*	cell periphery	cell periphery
YPR109W	*GLD1*	ER	ER
YOR394W	*PAU21*	cytosol	cytosol,punctate
YPR113W	*PIS1*	ER,punctate	ER,punctate
YOL137W	*BSC6*	punctate	punctate
YPR114W	*YPR114W*	ER	ER
YNL231C	*PDR16*	cytosol	cytosol
YOL163W	*YOL163W*	cytosol	#N/A
YNL234W	*YNL234W*	cytosol	cytosol,vacuole membrane
YOL164W-A	*YOL164W-A*	cytosol	#N/A
YNL242W	*ATG2*	cytosol	cytosol
YNR056C	*BIO5*	ER	ER
YOR002W	*ALG6*	ER	ER
YNL257C	*SIP3*	ER	ER
YGR191W	*HIP1*	ER	ER
YNL258C	*DSL1*	cytosol	cytosol
YOR011W	*AUS1*	cell periphery	cell periphery,ER
YNL263C	*YIF1*	punctate	punctate
YOR018W	*ROD1*	cytosol	cytosol
YNL264C	*PDR17*	cytosol	cytosol
YOR030W	*DFG16*	cytosol	#N/A
YOR032W-A	*YOR032W-A*	cytosol	ER
YNL270C	*ALP1*	ER	ER
YOR034C	*AKR2*	punctate	punctate,mitochondria
YNL272C	*SEC2*	bud	bud neck
YOR036W	*PEP12*	vacuole membrane,punctate	punctate,vacuole membrane
YNL275W	*BOR1*	cell periphery,ER	cell periphery,ER
YOR043W	*WHI2*	cytosol	cell periphery
YPL004C	*LSP1*	cytosol	cell periphery,punctate
YPR117W	*HOB2*	cytosol	punctate
YPL010W	*RET3*	cytosol	punctate
YPL019C	*VTC3*	vacuole membrane	vacuole membrane
YPR128C	*ANT1*	punctate	punctate
YPL032C	*SVL3*	cytosol	cell periphery,bud
YPR138C	*MEP3*	ER	ER
YPL036W	*PMA2*	cell periphery	cell periphery
YPR139C	*LOA1*	punctate,ER	ER,punctate
YPL041C	*MRX11*	ER	punctate,mitochondria

YPR140W	*TAZ1*	punctate	punctate,mitochondria
YPL045W	*VPS16*	cytosol	cytosol,punctate
YPR141C	*KAR3*	nucleus	nucleus
YPL050C	*MNN9*	ER,punctate	ER,punctate
YPR147C	*YPR147C*	punctate	punctate
YPR149W	*NCE102*	cell periphery,bud	cell periphery,punctate
YPR153W	*45413*	cytosol	#N/A
YPR156C	*TPO3*	cell periphery	cell periphery
YPL051W	*ARL3*	cytosol	cytosol
YPR159C-A	*YPR159C-A*	cytosol	cytosol
YNL279W	*PRM1*	bud neck,bud	vacuole,bud neck
YOR044W	*IRC23*	punctate	punctate
YOR049C	*RSB1*	vacuole	vacuole,bud neck
YOR059C	*LPL1*	ER,punctate	ER,punctate
YNL280C	*ERG24*	ER	ER
YOR060C	*SLD7*	nucleus	nucleus
YNL287W	*SEC21*	cytosol	punctate
YOR067C	*ALG8*	ER	ER
YNL293W	*MSB3*	bud	cell periphery,bud neck
YOR068C	*VAM10*	cytosol	nucleus
YNL294C	*RIM21*	ER	ER
YOR070C	*GYP1*	cytosol	punctate
YPL234C	*VMA11*	ER	vacuole membrane
YOR034C-A	*YOR034C-A*	cytosol	punctate
YOR075W	*UFE1*	ER	ER
YNL304W	*YPT11*	bud	ER,bud
YOR076C	*SKI7*	cytosol	cytosol
YNL305C	*BXI1*	vacuole membrane,vacuole	vacuole membrane
YOR079C	*ATX2*	cytosol	ER
YNL318C	*HXT14*	vacuole	cell periphery,vacuole
YOR081C	*TGL5*	punctate	punctate
YPL053C	*KTR6*	ER,vacuole	ER,vacuole
YPR159W	*KRE6*	ER,punctate,bud	punctate,bud neck
YPL057C	*SUR1*	cytosol	vacuole,bud neck
YPR165W	*RHO1*	cell periphery,VM	cell periphery,ER,bud
YPL058C	*PDR12*	cell periphery	cell periphery
YPR170W-B	*YPR170W-B*	ER	vacuole membrane
YPL065W	*VPS28*	cytosol	cytosol
YPR173C	*VPS4*	cytosol	punctate
YPL070W	*MUK1*	cytosol	cytosol
YPR176C	*BET2*	cytosol	cytosol,nucleus
YPL076W	*GPI2*	ER	ER
YPR181C	*SEC23*	punctate	ER,punctate
YPL084W	*BRO1*	cytosol	cytosol,punctate
YPR183W	*DPM1*	cell periphery,bud,ER	cell periphery,ER
YPL085W	*SEC16*	punctate	punctate
YPR185W	*ATG13*	cytosol	cytosol

YPL087W	*YDC1*	cytosol	ER
YPR192W	*AQY1*	ER	ER
YPL092W	*SSU1*	cytosol	cell periphery,ER
YPR194C	*OPT2*	vacuole	punctate,vacuole
YPL094C	*SEC62*	ER	ER
YPR198W	*SGE1*	ER	ER
YPL096C-A	*ERI1*	ER	ER
YPR201W	*ARR3*	punctate	punctate,vacuole
YJR098C	*YJR098C*	cytosol	cytosol
YFL034C-A	*RPL22B*	cytosol	cytosol
YLR453C	*RIF2*	nucleus	punctate,nucleus
YKL183W	*LOT5*	nucleus	nucleus
YDL048C	*STP4*	nucleus	nucleus
YBR034C	*HMT1*	nucleus	cytosol
YPR074C	*TKL1*	nucleus	nucleus
YKL151C	*NNR2*	cytosol	cytosol
YDL197C	*ASF2*	nucleus	nucleus
YPL228W	*CET1*	nucleus	nucleus
YOL051W	*GAL11*	nucleus	punctate,nucleus
YMR265C	*YMR265C*	nucleus	nucleus
YEL041W	*YEF1*	cytosol	cytosol
YBL104C	*SEA4*	cytosol	cytosol
YDL005C	*MED2*	nucleus	cytosol,nucleus
YBL035C	*POL12*	nucleus	nucleus
YFL017W-A	*SMX2*	nucleus	cytosol,nucleus
YGL262W	*YGL262W*	cytosol	#N/A
YLR412W	*BER1*	cytosol	cytosol
YBR225W	*YBR225W*	cytosol	cytosol
YLR451W	*LEU3*	nucleus	nucleus
YNL097C	*PHO23*	nucleus	nucleus
YFL041W-A	*YFL041W-A*	cytosol	#N/A
YFL021W	*GAT1*	cytosol	#N/A
YBL049W	*MOH1*	nucleus	cytosol,nucleus
YGL166W	*CUP2*	nucleus	nucleus
YOR131C	*YOR131C*	cytosol	cytosol
YFL034C-B	*MOB2*	cytosol	cytosol,bud neck
YPL024W	*RMI1*	nucleus	nucleus
YJR136C	*TTI2*	cytosol	cytosol
YLL046C	*RNP1*	cytosol	cytosol
YDR068W	*DOS2*	cytosol	cytosol,bud
YAL064C-A	*TDA8*	cytosol	cytosol,nucleus
YDR132C	*MRX16*	nucleus	nucleus
YCR020C	*PET18*	cytosol	cytosol
YKR025W	*RPC37*	nucleus	nucleus
YNL157W	*IGO1*	nucleus	cytosol,nucleus
YGL252C	*RTG2*	cytosol	cytosol
YER096W	*SHC1*	cytosol	cytosol

YJR017C	*ESS1*	nucleus	nucleus
YNL173C	*MDG1*	cell periphery	cell periphery,punctate
YPL256C	*CLN2*	cytosol	cytosol,nucleus
YPR008W	*HAA1*	cytosol	cytosol
YGR061C	*ADE6*	cytosol	cytosol
YBR182C-A	*YBR182C-A*	cytosol	#N/A
YDR191W	*HST4*	nucleus	nucleus
YLR005W	*SSL1*	nucleus	nucleus
YLR325C	*RPL38*	nucleus	cytosol,nucleus
YDL021W	*GPM2*	cytosol	cytosol
YDR118W	*APC4*	nucleus	cytosol,nucleus
YNR015W	*SMM1*	nucleus	Blank
YGR146C-A	*YGR146C-A*	cytosol	#N/A
YDL230W	*PTP1*	cytosol	cytosol
YML017W	*PSP2*	cytosol	cytosol
YGR251W	*NOP19*	nucleus	nucleus
YHR002W	*LEU5*	cytosol	mitochondria
YMR233W	*TRI1*	nucleus	cytosol,punctate
YKR018C	*YKR018C*	cytosol	cytosol
YOR274W	*MOD5*	nucleus	nucleus
YAL027W	*SAW1*	nucleus	nucleus
YCR093W	*CDC39*	cytosol	cytosol
YDR528W	*HLR1*	cytosol	#N/A
YIL138C	*TPM2*	cytosol	cytosol
YHR177W	*ROF1*	cytosol	nucleus
YGL213C	*SKI8*	cytosol	cytosol
YKL120W	*OAC1*	cytosol	mitochondria
YNR038W	*DBP6*	nucleus	nucleus
YDR451C	*YHP1*	nucleus	nucleus
YGR278W	*CWC22*	nucleus	nucleus
YJL201W	*ECM25*	cytosol	cytosol,punctate,bud
YHR049W	*FSH1*	cytosol	cytosol
YJR155W	*AAD10*	cytosol	cytosol,punctate
YER092W	*IES5*	nucleus	cytosol,nucleus
YDR478W	*SNM1*	nucleus	nucleus
YOR284W	*HUA2*	punctate	punctate
YLR433C	*CNA1*	cytosol	cytosol
YKL072W	*STB6*	cytosol	cytosol
YMR234W	*RNH1*	nucleus	nucleus
YMR259C	*TRM732*	cytosol	cytosol
YER029C	*SMB1*	nucleus	nucleus
YPR066W	*UBA3*	cytosol	cytosol
YNL289W	*PCL1*	cytosol	#N/A
YOL068C	*HST1*	nucleus	nucleus
YOR197W	*MCA1*	cytosol	cytosol
YLR210W	*CLB4*	nucleus	cytosol,punctate
YOR359W	*VTS1*	cytosol	cytosol

YIL038C	*NOT3*	cytosol	cytosol
YBR114W	*RAD16*	nucleus	nucleus
YIL133C	*RPL16A*	cytosol	cytosol
YBR198C	*TAF5*	nucleus	nucleus
YBR211C	*AME1*	punctate	punctate
YIL061C	*SNP1*	nucleus	nucleus
YMR039C	*SUB1*	nucleus	nucleus
YFR043C	*IRC6*	cytosol	cytosol
YDR283C	*GCN2*	cytosol	cytosol
YLR035C	*MLH2*	nucleus	nucleus
YMR067C	*UBX4*	nucleus	cytosol,nucleus
YDR186C	*SND1*	cytosol	cytosol
YGR229C	*SMI1*	cytosol	cytosol,punctate
YGR266W	*YGR266W*	cell periphery	cell periphery
YOL148C	*SPT20*	nucleus	nucleus
YFR055W	*IRC7*	cytosol	#N/A
YOL016C	*CMK2*	cytosol	cytosol
YER114C	*BOI2*	bud,bud neck,punctate	punctate,bud neck
YGL025C	*PGD1*	nucleus	cytosol,nucleus
YLL033W	*IRC19*	cytosol	punctate
YDL092W	*SRP14*	nucleus	cell periphery,nucleolus
YDR190C	*RVB1*	nucleus	nucleus
YPR073C	*LTP1*	cytosol	cytosol
YMR059W	*SEN15*	cytosol	cytosol,nucleus
YLL063C	*AYT1*	cytosol	cytosol,punctate
YML079W	*CFF1*	cytosol	cytosol
YPL269W	*KAR9*	cytosol	punctate
YBL016W	*FUS3*	nucleus	cytosol,nucleus
YCL040W	*GLK1*	cytosol	cytosol
YOL128C	*YGK3*	cytosol	cytosol
YOR206W	*NOC2*	nucleus	nucleolus
YER051W	*JHD1*	nucleus	nucleus
YNL166C	*BNI5*	bud neck	bud neck
YFL047W	*RGD2*	cytosol	cytosol,punctate,bud
YKR062W	*TFA2*	nucleus	nucleus
YPR072W	*NOT5*	cytosol	cytosol
YIL020C	*HIS6*	cytosol	cytosol
YBR017C	*KAP104*	nucleus	cytosol,nucleus
YPL038W	*MET31*	nucleus	nucleus
YKL033W-A	*YKL033W-A*	cytosol	cytosol
YMR143W	*RPS16A*	cytosol	cytosol
YLR045C	*STU2*	cytosol	cytosol
YBL009W	*ALK2*	cell periphery,nucleus,bud	cytosol,nucleus
YHL034C	*SBP1*	cytosol	cytosol
YDR515W	*SLF1*	cytosol	cytosol
YDR313C	*PIB1*	vacuole membrane	vacuole membrane
YLR015W	*BRE2*	nucleus	nucleus

YHR069C	*RRP4*	nucleus	nucleus
YJR082C	*EAF6*	nucleus	cytosol
YMR056C	*AAC1*	mitochondria	mitochondria
YDR104C	*SPO71*	nucleus	cytosol,punctate,nucleus
YLR381W	*CTF3*	punctate	cytosol,punctate
YGL061C	*DUO1*	nucleus	punctate,nucleus
YPL266W	*DIM1*	cytosol	cytosol
YGR044C	*RME1*	cytosol	nucleus
YOL055C	*THI20*	cytosol	cytosol
YDR386W	*MUS81*	nucleus	nucleus
YMR138W	*CIN4*	cytosol	cytosol
YHR056C	*RSC30*	nucleus	nucleus
YIR018C-A	*YIR018C-A*	cytosol	cytosol,nucleus
YLR030W	*YLR030W*	nucleus	cytosol,nucleus
YBL005W	*PDR3*	nucleus	nucleus
YBR234C	*ARC40*	punctate	cytosol,punctate,bud
YHR046C	*INM1*	cytosol	cytosol
YOR281C	*PLP2*	cytosol	cytosol
YMR140W	*SIP5*	cytosol	cytosol
YBR056W-A	*MNC1*	cell periphery,vacuole mambrane	cell periphery
YGL209W	*MIG2*	nucleus	cell periphery,nucleus
YNL139C	*THO2*	nucleus	nucleus
YDR312W	*SSF2*	nucleus	nuclear periphery
YNL175C	*NOP13*	nucleus	nuclear periphery
YHR099W	*TRA1*	nucleus	cytosol,nucleolus
YDL020C	*RPN4*	nucleus	cytosol,nucleus
YNL097C-B	*PLS1*	cytosol	cytosol,punctate
YOL159C-A	*YOL159C-A*	nucleus	cytosol
YML113W	*DAT1*	nucleus	nucleus
YNL248C	*RPA49*	nucleus	nucleolus
YDR364C	*CDC40*	nucleus	nucleus
YER104W	*RTT105*	nucleus	nucleus
YER170W	*ADK2*	cytosol	cytosol
YJR109C	*CPA2*	cytosol	cytosol
YKL106C-A	*YKL106C-A*	cytosol	#N/A
YHR109W	*CTM1*	cytosol	cytosol,nucleus
YJL083W	*TAX4*	punctate	cytosol
YOL019W-A	*YOL019W-A*	cytosol	cytosol,nucleus
YPL115C	*BEM3*	bud	bud
YNL155W	*CUZ1*	cytosol	cytosol,nucleus
YDL085C-A	*YDL085C-A*	cytosol	cytosol
YLR319C	*BUD6*	bud neck,bud	punctate,bud neck
YNL232W	*CSL4*	nucleus	cytosol,nucleus
YJR030C	*RBH2*	cytosol	punctate
YBR062C	*YBR062C*	cytosol	cytosol
YPL193W	*RSA1*	nucleus	nucleus
YNL146C-A	*YNL146C-A*	cytosol	punctate

YDR020C	*DAS2*	nucleus	cytosol,nucleus
YML068W	*ITT1*	cytosol	cytosol,punctate
YPR131C	*NAT3*	punctate	cytosol,nucleus
YER026C	*CHO1*	ER	ER,vacuole
YLR052W	*IES3*	nucleus	nucleus
YPR023C	*EAF3*	nucleus	nucleus
YER091C	*MET6*	cytosol	cytosol
YGL048C	*RPT6*	nucleus	cytosol,nucleus
YBR154C	*RPB5*	nucleus	nucleolus
YGR071C	*ENV11*	cytosol	nucleus
YLR147C	*SMD3*	nucleus	cytosol,nucleus
YOR184W	*SER1*	cytosol	cytosol
YDR103W	*STE5*	cytosol	cytosol
YDR179W-A	*NVJ3*	punctate	#N/A
YHR121W	*LSM12*	nucleus	cytosol,nucleus
YER057C	*HMF1*	cytosol	cytosol
YHR097C	*PAL2*	cytosol	cytosol
YHL029C	*OCA5*	cytosol	cytosol
YPL141C	*FRK1*	vacuole membrane	cytosol
YER016W	*BIM1*	nucleus	punctate
YER190W	*YRF1-2*	cytosol	cytosol,punctate
YPL243W	*SRP68*	nucleus	ER,nucleolus
YBR130C	*SHE3*	bud	cytosol,bud
YGR146C	*ECL1*	cytosol	cytosol
YJR005C-A	*LSO1*	nucleus	cytosol,nucleus
YCL031C	*RRP7*	nucleus	nucleolus
YLR421C	*RPN13*	nucleus	nucleolus
YDR309C	*GIC2*	cytosol	cytosol
YBR129C	*OPY1*	cytosol	cytosol
YER174C	*GRX4*	cytosol	cytosol,nucleus
YLR094C	*GIS3*	nucleus	nucleus
YAL012W	*CYS3*	cytosol	cytosol
YOL004W	*SIN3*	nucleus	nucleus
YJL042W	*MHP1*	cytosol	cytosol
YMR091C	*NPL6*	nucleus	nucleus
YOR005C	*DNL4*	nucleus	nucleus
YLR431C	*ATG23*	cytosol	cytosol
YGL100W	*SEH1*	nucleus	cytosol,nuclear periphery
YDL170W	*UGA3*	nucleus	nucleus
YOR296W	*YOR296W*	cytosol	cytosol,bud neck
YOR042W	*CUE5*	cytosol	cytosol,punctate
YJL118W	*YJL118W*	cytosol	punctate
YKL218C	*SRY1*	cytosol	cytosol
YCL016C	*DCC1*	nucleus	cytosol,nucleus
YNL116W	*DMA2*	cytosol	cytosol
YAL001C	*TFC3*	nucleus	nucleus
YML004C	*GLO1*	cytosol	cytosol

YDR076W	*RAD55*	nucleus	nucleus
YJR047C	*ANB1*	cytosol	cytosol
YDR427W	*RPN9*	nucleus	nucleolus
YER115C	*SPR6*	nucleus	punctate,nucleus
YGL208W	*SIP2*	cytosol	cytosol
YGL127C	*SOH1*	nucleus	nucleus
YDR111C	*ALT2*	nucleus	cytosol
YIL161W	*SMU2*	cytosol	cytosol
YGL105W	*ARC1*	cytosol	cytosol
YJL050W	*MTR4*	nucleus	nucleus
YIR008C	*PRI1*	nucleus	cytosol,nucleus
YCR075W-A	*EGO2*	cytosol	cytosol
YDR243C	*PRP28*	nucleus	nucleus
YBR082C	*UBC4*	cytosol	cytosol
YBL096C	*YBL096C*	cytosol	cytosol,punctate
YBR197C	*YBR197C*	nucleus	cytosol,nucleus
YJR063W	*RPA12*	nucleus	nucleolus
YHR105W	*YPT35*	vacuole membrane	vacuole membrane
YMR081C	*ISF1*	cytosol	cytosol
YPR009W	*SUT2*	nucleus	nucleus
YFR019W	*FAB1*	vacuole membrane	vacuole membrane
YNL292W	*PUS4*	nucleus	nucleus
YNL077W	*APJ1*	nucleus	punctate,nucleus
YBR223C	*TDP1*	nucleus	punctate,nucleus
YGR006W	*PRP18*	nucleus	cytosol,nucleus
YPL167C	*REV3*	nucleus	cytosol,punctate
YIR012W	*SQT1*	nucleus	cytosol
YPL015C	*HST2*	cytosol	cytosol
YLR223C	*IFH1*	nucleus	nucleus
YDR087C	*RRP1*	nucleus	nucleolus
YCR020C-A	*MAK31*	cytosol	cytosol
YLR097C	*HRT3*	cytosol	cytosol
YML058W-A	*HUG1*	cytosol	cytosol
YPL177C	*CUP9*	nucleus	nucleus
YPR112C	*MRD1*	nucleus	nucleolus
YDR016C	*DAD1*	punctate	cytosol,punctate
YDR500C	*RPL37B*	nucleus	cytosol
YJR022W	*LSM8*	cytosol	cytosol,nucleus
YBR196C	*PGI1*	cytosol	cytosol
YGR256W	*GND2*	cytosol	cytosol
YKL189W	*HYM1*	cytosol	cytosol
YGL246C	*RAI1*	nucleus	nucleus
YNL110C	*NOP15*	nucleus	nucleolus
YCR052W	*RSC6*	nucleus	nucleolus
YLR272C	*YCS4*	cytosol	cytosol,punctate
YNL204C	*SPS18*	punctate	cytosol,punctate
YDR075W	*PPH3*	nucleus	cytosol,punctate,nucleus

YOR181W	*LAS17*	punctate	punctate,bud neck
YDL045W-A	*MRP10*	nucleus	nucleolus
YMR131C	*RRB1*	nucleus	nucleolus
YGL015C	*BIL2*	cytosol	cytosol
YHR089C	*GAR1*	nucleus	nucleolus
YHR140W	*YHR140W*	ER	ER,vacuole
YDR228C	*PCF11*	nucleus	nucleus
YDL059C	*RAD59*	cytosol	cytosol
YDR082W	*STN1*	cytosol	cytosol,punctate
YDR501W	*PLM2*	nucleus	punctate,nucleus
YPL067C	*HTC1*	cytosol	cytosol
YHL045W	*PXP3*	punctate	punctate
YDL237W	*AIM6*	vacuole membrane	ER
YHR047C	*AAP1*	cytosol	cytosol
YLR086W	*SMC4*	nucleus	cytosol,nucleus
YMR041C	*ARA2*	cytosol	cytosol
YGL071W	*AFT1*	cytosol	cytosol,nucleus
YMR028W	*TAP42*	cytosol	cytosol
YMR005W	*TAF4*	nucleus	nucleolus
YGR066C	*GID10*	nucleus	missing
YHR169W	*DBP8*	nucleus	nucleus,nucleolus
YJL006C	*CTK2*	nucleus	nucleus
YPL066W	*RGL1*	cytosol	cytosol
YPL254W	*HFI1*	nucleus	missing
YCR020W-B	*HTL1*	nucleus	nucleus
YKL161C	*KDX1*	cytosol	cytosol,nucleus
YBR018C	*GAL7*	cytosol	cytosol
YGL079W	*KXD1*	cytosol	cytosol,punctate
YGL080W	*MPC1*	mitochondria	mitochondria
YFL033C	*RIM15*	cytosol	cytosol
YMR290C	*HAS1*	nucleus	nucleolus
YDR147W	*EKI1*	cytosol	cytosol
YOR069W	*VPS5*	cytosol	cytosol,punctate
YGL174W	*BUD13*	cytosol	cytosol
YGR129W	*SYF2*	nucleus	nucleus
YPR102C	*RPL11A*	cytosol	cytosol
YDR370C	*DXO1*	cytosol	cytosol
YER078W-A	*YER078W-A*	cytosol	punctate
YHR052W	*CIC1*	nucleus	nucleolus
YCL010C	*SGF29*	nucleus	nucleus
YJL088W	*ARG3*	cytosol	cytosol
YOR124C	*UBP2*	cytosol	cytosol
YHR132W-A	*IGO2*	cytosol	cytosol
YDR021W	*FAL1*	nucleus	nucleolus
YOR204W	*DED1*	cytosol	cytosol
YGR211W	*ZPR1*	nucleus	cytosol
YLR448W	*RPL6B*	cytosol	cytosol

YOR283W	*YOR283W*	cytosol	cytosol,punctate
YCR019W	*MAK32*	cytosol	cytosol
YMR111C	*EUC1*	nucleus	nucleus
YIL129C	*TAO3*	bud	cytosol,bud
YOR353C	*SOG2*	cytosol	cytosol
YLR277C	*YSH1*	nucleus	nucleolus
YOR323C	*PRO2*	cytosol	cytosol
YFL010W-A	*AUA1*	cytosol	#N/A
YJL025W	*RRN7*	nucleus	nucleus
YKL213C	*DOA1*	cytosol	cytosol,nucleus
YKL045W	*PRI2*	nucleus	nucleus
YNL261W	*ORC5*	nucleus	nucleus
YLR199C	*PBA1*	cytosol	cytosol,nucleus
YCL001W-A	*YCL001W-A*	cytosol	#N/A
YHR128W	*FUR1*	cytosol	cytosol
YOR337W	*TEA1*	nucleus	nucleus
YPR089W	*YPR089W*	punctate	punctate
YMR263W	*SAP30*	nucleus	cytosol,nucleus
YDR092W	*UBC13*	cytosol	cytosol
YDL116W	*NUP84*	nuclear periphery	nuclear periphery
YCL014W	*BUD3*	cell periphery,bud neck	bud neck
YOR039W	*CKB2*	nucleus	cytosol,nucleus
YIL057C	*RGI2*	cytosol	cytosol
YLR154W-C	*TAR1*	cytosol	#N/A
YIL143C	*SSL2*	nucleus	nucleus
YLL054C	*YLL054C*	nucleus	nucleus
YOR164C	*GET4*	cytosol	cytosol
YDR235W	*PRP42*	nucleus	nucleus
YFL003C	*MSH4*	nucleus	nucleus
YMR316W	*DIA1*	cytosol	cytosol
YNR004W	*SWM2*	cytosol	cytosol,punctate
YDR328C	*SKP1*	nucleus	cytosol,nucleus
YLR367W	*RPS22B*	nucleus	cytosol
YER030W	*CHZ1*	nucleus	nucleus
YDR485C	*VPS72*	nucleus	nucleus
YOR221C	*MCT1*	cytosol	cytosol,punctate
YMR085W	*YMR085W*	cytosol	cytosol,punctate
YMR309C	*NIP1*	cytosol	cytosol
YEL053C	*MAK10*	cytosol	cytosol
YHR019C	*DED81*	cytosol	cytosol
YEL018W	*EAF5*	nucleus	nucleus
YJL053W	*PEP8*	nucleus	cytosol,punctate
YPL250C	*ATG41*	cytosol	cytosol
YML058W	*SML1*	cytosol	cytosol
YBR215W	*HPC2*	nucleus	nucleus
YNL196C	*SLZ1*	cytosol	cytosol
YCL039W	*GID7*	cytosol	cytosol

YDR335W	*MSN5*	nucleus	nucleus
YDR005C	*MAF1*	nucleus	nucleus
YBR076W	*ECM8*	nucleus	cytosol,punctate
YJL076W	*NET1*	nucleus	nucleolus
YDR047W	*HEM12*	cytosol	cytosol
YNL011C	*YNL011C*	cytosol	cytosol
YDR097C	*MSH6*	nucleus	nucleus
YJL089W	*SIP4*	nucleus	nucleus
YGL227W	*VID30*	nucleus	cytosol,nucleus
YDR527W	*RBA50*	cytosol	cytosol
YGL036W	*VIR1*	cytosol	cytosol
YNL241C	*ZWF1*	cytosol	cytosol
YEL062W	*NPR2*	cytosol	cytosol
YHR159W	*TDA11*	bud	bud
YDR101C	*ARX1*	nucleus	nucleus
YGR155W	*CYS4*	cytosol	cytosol
YDL150W	*RPC53*	nucleus	nucleus
YLR106C	*REA1*	nucleus	punctate,nucleus
YIR017C	*MET28*	nucleus	nucleus
YLR224W	*UCC1*	cytosol	cytosol
YOL036W	*YOL036W*	cytosol	cytosol,punctate
YMR181C	*YMR181C*	cytosol	cytosol
YDL008W	*APC11*	cytosol	cytosol
YKL082C	*RRP14*	nucleus	nucleolus
YOL131W	*YOL131W*	nucleus	nucleus
YDR098C	*GRX3*	cytosol	cytosol,nucleus
YMR185W	*RTP1*	cytosol	cytosol
YCL051W	*LRE1*	cell periphery,bud	punctate,bud neck
YLR394W	*CST9*	nucleus	punctate,nucleus
YOR380W	*RDR1*	nucleus	nucleus
YPR005C	*HAL1*	nucleus	nucleus
YMR114C	*YMR114C*	nucleus	nucleus
YDR454C	*GUK1*	cytosol	cytosol
YDR213W	*UPC2*	nucleus	nucleus
YIR042C	*YIR042C*	cytosol	cytosol
YOR373W	*NUD1*	punctate	punctate
YBR261C	*TAE1*	cytosol	cytosol
YLR345W	*YLR345W*	cytosol	cytosol
YNL240C	*NAR1*	cytosol	cytosol
YER132C	*PMD1*	cytosol	cytosol
YDR381C-A	*COI1*	cytosol	cytosol
YML098W	*TAF13*	nucleus	nucleus
YPL152W	*RRD2*	cytosol	cytosol
YJL111W	*CCT7*	cytosol	cytosol
YGL134W	*PCL10*	cytosol	cytosol,punctate
YGL091C	*NBP35*	cytosol	cytosol
YDR346C	*SVF1*	cytosol	cytosol

YAL013W	*DEP1*	nucleus	punctate,nucleus
YNR012W	*URK1*	punctate	cytosol
YGR040W	*KSS1*	nucleus	cytosol,nucleus
YJR148W	*BAT2*	cytosol	cytosol
YDL177C	*YDL177C*	cytosol	cytosol
YHR184W	*SSP1*	cytosol	cytosol,bud neck
YPR086W	*SUA7*	nucleus	nucleus
YER034W	*YER034W*	cytosol	cytosol,nucleus
YBR151W	*APD1*	cytosol	cytosol
YPR119W	*CLB2*	nucleus	punctate,nucleus
YGL011C	*SCL1*	cytosol	cytosol,nucleus
YML063W	*RPS1B*	cytosol	cytosol
YGL128C	*CWC23*	cytosol	cytosol,nucleus
YIL092W	*YIL092W*	nucleus	punctate,nucleus
YKL211C	*TRP3*	cytosol	cytosol
YJR149W	*YJR149W*	cytosol	cytosol
YIL036W	*CST6*	nucleus	nucleolus
YDL219W	*DTD1*	cytosol	cytosol
YFR015C	*GSY1*	nucleus	cytosol,punctate
YHR196W	*UTP9*	nucleus	nucleolus
YOR308C	*SNU66*	nucleus	nucleus
YLR361C-A	*YLR361C-A*	cytosol	cytosol
YOL072W	*THP1*	nuclear periphery	punctate,nucleus
YBR272C	*HSM3*	cytosol	cytosol
YLR127C	*APC2*	nucleus	punctate,nucleus
YNL278W	*CAF120*	bud	bud
YML114C	*TAF8*	nucleus	nucleus
YDR403W	*DIT1*	cytosol	cytosol
YLR449W	*FPR4*	nucleus	nucleolus
YOR358W	*HAP5*	nucleus	cytosol,nucleus
YOR179C	*SYC1*	cytosol	nucleus
YOL124C	*TRM11*	cytosol	cytosol
YOR162C	*YRR1*	nucleus	nucleus
YAL064W	*YAL064W*	cytosol	punctate
YLR354C	*TAL1*	nucleus	nucleus
YLL032C	*YLL032C*	cytosol	cytosol
YLR460C	*YLR460C*	cytosol	cytosol
YGR178C	*PBP1*	cytosol	cytosol
YHL007C	*STE20*	bud	cytosol,bud
YHR065C	*RRP3*	nucleus	nucleolus
YER064C	*VHR2*	cytosol	nucleus
YKR092C	*SRP40*	nucleus	nucleolus
YBR260C	*RGD1*	punctate,bud	punctate,bud
YBR186W	*PCH2*	punctate	cytosol
YKL052C	*ASK1*	nucleus	punctate,nucleus
YLR197W	*NOP56*	nucleus	nucleolus
YGR126W	*YGR126W*	cytosol	cytosol,cell periphery,nucleus

YMR038C	*CCS1*	cytosol	cytosol
YBR135W	*CKS1*	cytosol	cytosol,nucleus
YOR108C-A	*YOR108C-A*	cytosol	#N/A
YNL003C	*PET8*	mitochondria	mitochondria
YDR168W	*CDC37*	cytosol	cytosol
YBL071C-B	*YBL071C-B*	cytosol	cytosol
YDR383C	*NKP1*	punctate	cytosol,punctate
YDR362C	*TFC6*	nucleus	nucleus
YDR317W	*HIM1*	punctate	punctate
YGR128C	*UTP8*	nucleus	nucleolus
YNL113W	*RPC19*	nucleus	nucleolus
YER084W	*YER084W*	cytosol	mitochondria
YLR218C	*COA4*	nucleus	nucleus
YMR136W	*GAT2*	cytosol	nucleus
YDR404C	*RPB7*	nucleus	nucleus
YGR159C	*NSR1*	nucleus	nucleolus
YKR038C	*KAE1*	nucleus	nucleus
YOR275C	*RIM20*	cytosol	cytosol,punctate
YOL013W-A	*YOL013W-A*	cytosol	#N/A
YOL067C	*RTG1*	cytosol	cytosol,punctate
YMR223W	*UBP8*	nucleus	cytosol,nucleus
YNL136W	*EAF7*	nucleus	nucleus
YDR145W	*TAF12*	nucleus	nucleus
YBL068W	*PRS4*	cytosol	cytosol
YDR389W	*SAC7*	cytosol	cytosol
YJR127C	*RSF2*	nucleus	nucleus
YCR038C	*BUD5*	cytosol	#N/A
YKR057W	*RPS21A*	nucleus	cytosol
YML069W	*POB3*	nucleus	nucleus
YER127W	*LCP5*	nucleus	nucleolus
YJR132W	*NMD5*	nucleus	cytosol,punctate,nucleus
YBL024W	*NCL1*	nucleus	nucleus
YML092C	*PRE8*	nucleus	punctate,nucleus
YOR006C	*TSR3*	cytosol	cytosol,punctate
YML062C	*MFT1*	nucleus	nucleus
YGL238W	*CSE1*	nucleus	punctate,nucleus
YLR456W	*YLR456W*	cytosol	cytosol
YCR035C	*RRP43*	nucleus	nucleolus
YDR375C	*BCS1*	cytosol	punctate,nuclear periphery
YGL043W	*DST1*	nucleus	nucleus
YKL043W	*PHD1*	nucleus	nucleus
YLR263W	*RED1*	cytosol	punctate,nucleus
YJR141W	*IPA1*	nucleus	cytosol,punctate
YBL060W	*YEL1*	cytosol,bud neck	cytosol,bud neck
YEL023C	*YEL023C*	mitochondria	mitochondria
YMR027W	*YMR027W*	cytosol	cytosol
YGR095C	*RRP46*	nucleus	nucleolus

YMR220W	*ERG8*	cytosol	cytosol
YIL024C	*YIL024C*	punctate	cytosol,punctate
YMR049C	*ERB1*	nucleus	nucleolus
YOR156C	*NFI1*	nucleus	punctate,nucleus
YBL097W	*BRN1*	cytosol	cytosol,punctate,nucleus
YIL132C	*CSM2*	nucleus	cytosol,nucleus
YDR253C	*MET32*	nucleus	nucleus
YOL165C	*AAD15*	cytosol	Blank
YHR146W	*CRP1*	cell periphery	cell periphery
YNL118C	*DCP2*	nucleus	cytosol,punctate
YCR015C	*CTO1*	cytosol	cytosol
YDL110C	*TMA17*	cytosol	cytosol
YER010C	*YER010C*	cytosol	cytosol
YMR318C	*ADH6*	cytosol	cytosol
YHR189W	*PTH1*	nucleus	nucleus
YCR053W	*THR4*	cytosol	cytosol
YBR025C	*OLA1*	cytosol	cytosol
YBR155W	*CNS1*	cytosol	cytosol
YMR012W	*CLU1*	cytosol	cytosol
YLR234W	*TOP3*	cytosol	cytosol
YNL161W	*CBK1*	cytosol	cytosol,bud neck
YJR099W	*YUH1*	cytosol	cytosol,punctate
YOR118W	*RTC5*	cytosol	cytosol
YGL096W	*TOS8*	nucleus	punctate,nucleus
YBL021C	*HAP3*	cytosol	cytosol,nucleus
YJR074W	*MOG1*	nucleus	cytosol,nucleus
YPL237W	*SUI3*	cytosol	cytosol
YBR138C	*YBR138C*	nucleus	nucleus
YER128W	*VFA1*	cytosol	cytosol,punctate
YNR031C	*SSK2*	cytosol	cytosol
YPR054W	*SMK1*	cytosol	cytosol
YLR129W	*DIP2*	nucleus	nucleolus
YKL190W	*CNB1*	cytosol	cytosol,nucleus
YCR100C	*EMA35*	cytosol	cytosol,nucleus
YNL002C	*RLP7*	nucleus	nucleolus
YKL075C	*AAN1*	cytosol	cytosol,nucleus
YPL049C	*DIG1*	nucleus	nucleolus
YDR412W	*RRP17*	nucleus	nucleolus
YBR166C	*TYR1*	cytosol	cytosol
YDR363W-A	*SEM1*	nucleus	punctate,nucleus
YKL010C	*UFD4*	nucleus	cytosol,nucleus
YNL141W	*AAH1*	cytosol	cytosol
YOR168W	*GLN4*	nucleus	cytosol
YOL022C	*TSR4*	cytosol	cytosol
YLL008W	*DRS1*	nucleus	nucleolus
YLL018C	*DPS1*	cytosol	cytosol
YGR200C	*ELP2*	cytosol	cytosol

YJR039W	*MLO127*	cytosol	cytosol
YKL186C	*MTR2*	cytosol	cytosol,nuclear periphery
YBR011C	*IPP1*	cytosol	cytosol
YOR261C	*RPN8*	cytosol	nucleolus
YBR001C	*NTH2*	mitochondria	cytosol,mitochondria
YDR449C	*UTP6*	nucleus	nucleolus
YMR080C	*NAM7*	cytosol	cytosol,punctate
YNL123W	*NMA111*	nucleus	nucleus
YJR070C	*LIA1*	cytosol	cytosol
YHR072W-A	*NOP10*	nucleus	nucleolus
YIR030C	*DCG1*	cytosol	cytosol
YKL024C	*URA6*	cytosol	cytosol,nucleus
YGL086W	*MAD1*	cytosol	punctate,nuclear periphery
YLR370C	*ARC18*	punctate	punctate,bud
YDR071C	*PAA1*	cytosol	cytosol
YLR377C	*FBP1*	cytosol	cytosol
YIL127C	*RRT14*	nucleus	nucleolus
YHR112C	*YHR112C*	cytosol	cytosol
YDR469W	*SDC1*	nucleus	cytosol,nucleus
YEL012W	*UBC8*	cytosol	cytosol,nucleus
YBL051C	*PIN4*	cytosol	cytosol
YOL141W	*PPM2*	cytosol	cytosol
YDR194W-A	*YDR194W-A*	cytosol	#N/A
YGL063W	*PUS2*	cytosol	cytosol,nucleus
YOR155C	*ISN1*	punctate	punctate
YPL198W	*RPL7B*	cytosol	cytosol
YJR002W	*MPP10*	nucleus	nucleolus
YML035C	*AMD1*	cytosol	cytosol
YMR120C	*ADE17*	cytosol	cytosol
YBR208C	*DUR12*	cytosol	cytosol
YDR320C-A	*DAD4*	nucleus	punctate
YOL086W-A	*MHF1*	cytosol	cytosol,nucleus
YDR379W	*RGA2*	cytosol	cytosol
YIL002W-A	*CMI7*	cytosol	cytosol
YIL144W	*NDC80*	punctate	punctate
YGR123C	*PPT1*	cytosol	cytosol,punctate
YOR319W	*HSH49*	cytosol	cytosol,nucleus
YNL197C	*WHI3*	cytosol	cytosol
YPL229W	*YPL229W*	cytosol	cytosol
YBR107C	*IML3*	nucleus	cytosol,nucleus
YML103C	*NUP188*	nucleus	punctate,nuclear periphery
YOR145C	*PNO1*	nucleus	nucleolus
YBR200W	*BEM1*	cytosol	cytosol,bud
YJL020C	*BBC1*	punctate,bud	punctate,bud
YJL136W-A	*YJL136W-A*	cytosol	#N/A
YKL125W	*RRN3*	nucleus	nucleolus
YLR276C	*DBP9*	nucleus	nucleolus

YOL029C	*YOL029C*	cytosol	cytosol
YDR003W-A	*YDR003W-A*	cytosol	cytosol,nucleus
YOR298C-A	*MBF1*	cytosol	cytosol
YCL047C	*POF1*	cytosol	cytosol
YIL145C	*PAN6*	cytosol	cytosol
YEL029C	*BUD16*	cytosol	cytosol
YPL170W	*DAP1*	cytosol	cytosol,nucleus
YAL043C	*PTA1*	nucleus	nucleolus
YPL037C	*EGD1*	cytosol	cytosol
YLR003C	*CMS1*	nucleus	nucleolus
YNL140C	*YNL140C*	nucleus	#N/A
YGR122W	*YGR122W*	cytosol	cytosol
YER136W	*GDI1*	cytosol	cytosol
YGL251C	*HFM1*	cytosol	cytosol
YDL208W	*NHP2*	nucleus	nucleolus
YDR123C	*INO2*	nucleus	nucleus
YML100W-A	*YML100W-A*	cytosol	cytosol,nucleus
YHR025W	*THR1*	cytosol	cytosol
YMR153W	*NUP53*	nuclear periphery	nuclear periphery
YOL090W	*MSH2*	nucleus	nucleus
YOR064C	*YNG1*	nucleus	nucleus
YOL143C	*RIB4*	cytosol	cytosol
YOR111W	*YOR111W*	cytosol	cytosol
YNL061W	*NOP2*	nucleus	nucleolus
YDL213C	*NOP6*	nucleus	nucleolus
YBR060C	*ORC2*	nucleus	nucleus
YPR062W	*FCY1*	cytosol	cytosol
YGL094C	*PAN2*	cytosol	cytosol
YCR051W	*YCR051W*	nucleus	nucleus
YLR352W	*LUG1*	cytosol	cytosol
YIL113W	*SDP1*	cytosol	cytosol
YER007W	*PAC2*	cytosol	cytosol
YOR143C	*THI80*	cytosol	cytosol
YMR016C	*SOK2*	nucleus	nucleolus
YHL006C	*SHU1*	nucleus	cytosol,nucleus
YIL116W	*HIS5*	cytosol	cytosol
YKL013C	*ARC19*	punctate,bud neck	punctate,bud
YKL018W	*SWD2*	nucleus	nucleus
YLR209C	*PNP1*	cytosol	cytosol
YFL023W	*BUD27*	cytosol	cytosol
YBR156C	*SLI15*	punctate	punctate
YMR210W	*MGL2*	nucleus	punctate,nucleus
YOR376W-A	*YOR376W-A*	cytosol	#N/A
YLR254C	*NDL1*	cytosol	punctate,nucleus
YNR040W	*MRX15*	cytosol	mitochondria
YDR321W	*ASP1*	punctate	cytosol,punctate
YJR139C	*HOM6*	cytosol	cytosol

YKL122C	*SRP21*	nucleus	nucleolus
YGR248W	*SOL4*	cytosol	cytosol
YNL035C	*YNL035C*	nucleus	punctate,nucleus
YML127W	*RSC9*	nucleus	nucleus
YMR125W	*STO1*	nucleus	nucleolus
YGR238C	*KEL2*	bud neck,bud	bud,bud neck
YJL030W	*MAD2*	nucleus	cytosol,nucleus
YNR027W	*BUD17*	cytosol	cytosol
YER133W	*GLC7*	nucleus	bud neck,nucleus
YIL108W	*YIL108W*	cytosol	punctate,bud
YJR118C	*ILM1*	ER	ER
YJL069C	*UTP18*	nucleus	nucleolus
YBL046W	*PSY4*	nucleus	nucleus
YPL260W	*CUB1*	cytosol	cytosol
YBR123C	*TFC1*	nucleus	cytosol,nucleus
YBL093C	*ROX3*	nucleus	nucleus
YJR133W	*XPT1*	cytosol	cytosol,nucleus
YKR042W	*UTH1*	cytosol	cytosol,nucleus
YLL053C	*YLL053C*	ER	cell periphery,nucleus
YHR163W	*SOL3*	cytosol	cytosol
YHR061C	*GIC1*	cytosol	punctate
YHR104W	*GRE3*	cytosol	cytosol
YER065C	*ICL1*	cytosol	cytosol
YLR392C	*ART10*	cytosol	cytosol,nucleus
YJR142W	*YJR142W*	cytosol	cytosol,punctate
YBR137W	*YBR137W*	cytosol	cytosol
YML005W	*TRM12*	cytosol	cytosol
YPL263C	*KEL3*	cytosol	cytosol
YDR091C	*RLI1*	cytosol	cytosol
YJR094C	*IME1*	cytosol	cytosol
YJL157C	*FAR1*	nucleus	nucleus
YBL019W	*APN2*	nucleus	nucleus
YBR216C	*YBP1*	cytosol	cytosol
YPL093W	*NOG1*	nucleus	nucleolus
YER144C	*UBP5*	cytosol	cytosol,bud neck
YGL039W	*YGL039W*	cytosol	cytosol,nucleus
YKL214C	*YRA2*	nucleus	nucleus
YHL033C	*RPL8A*	nucleus	cytosol,nucleus
YLR346C	*CIS1*	cytosol	cytosol,punctate
YKL215C	*OXP1*	cytosol	cytosol
YBL033C	*RIB1*	cytosol	cytosol,nucleus
YDR171W	*HSP42*	punctate	cytosol,punctate
YFR009W	*GCN20*	cytosol	cytosol
YDL236W	*PHO13*	cytosol	cytosol
YOL049W	*GSH2*	cytosol	cytosol
YJL156C	*SSY5*	cytosol	cytosol
YBL071W-A	*KTI11*	nucleus	cytosol

YJR023C	*YJR023C*	vacuole membrane	punctate,bud
YNL088W	*TOP2*	nucleus	nucleus
YOL121C	*RPS19A*	cytosol	cytosol
YJL072C	*PSF2*	nucleus	cytosol,nucleus
YKL139W	*CTK1*	nucleus	nucleus
YOL087C	*DUF1*	cytosol	cytosol
YKR056W	*TRM2*	nucleus	ER,punctate
YER059W	*PCL6*	cytosol	cytosol
YDL042C	*SIR2*	cytosol	missing
YDR183W	*PLP1*	cytosol	cytosol
YOR191W	*ULS1*	nucleus,punctate	punctate,nucleus
YPL127C	*HHO1*	nucleus	nucleus
YCL030C	*HIS4*	cytosol	cytosol
YOL097W-A	*YOL097W-A*	cytosol	cytosol
YMR179W	*SPT21*	nucleus	punctate,nucleus
YOR388C	*FDH1*	cytosol	cytosol
YMR025W	*CSI1*	cytosol	cytosol
YER052C	*HOM3*	cytosol	cytosol
YER067W	*RGI1*	cytosol	cytosol
YNL312W	*RFA2*	nucleus	punctate,nucleus
YOR259C	*RPT4*	nucleus	nucleolus
YML099C	*ARG81*	nucleus	punctate,nucleus
YHR118C	*ORC6*	nucleus	nucleus
YGR169C	*PUS6*	cytosol	cytosol
YDL007W	*RPT2*	cytosol	cytosol,nucleus
YDR201W	*SPC19*	punctate	punctate
YLR002C	*NOC3*	nucleus	nucleolus
YDL141W	*BPL1*	cytosol	cytosol
YER139C	*RTR1*	cytosol	cytosol
YOL066C	*RIB2*	cytosol	cytosol
YDR475C	*JIP4*	cytosol	cytosol,cell periphery
YLR221C	*RSA3*	nucleus	nucleolus
YMR107W	*SPG4*	cytosol	cytosol
YHR077C	*NMD2*	cytosol	cytosol
YLR362W	*STE11*	cytosol	cytosol
YMR230W	*RPS10B*	cytosol	cytosol
YMR278W	*PRM15*	cytosol	cytosol
YDR359C	*EAF1*	nucleus	nucleus
YPL042C	*SSN3*	nucleus	nucleus
YMR044W	*IOC4*	nucleus	nucleus
YIR029W	*DAL2*	cytosol	cytosol
YGR074W	*SMD1*	nucleus	nucleus
YGR185C	*TYS1*	cytosol	cytosol
YCL057W	*PRD1*	cytosol	cytosol
YJL074C	*SMC3*	nucleus	cytosol,nucleus
YJL035C	*TAD2*	nucleus	cytosol,nucleus
YDR179C	*CSN9*	cytosol	cytosol

YLR144C	*ACF2*	cytosol	cytosol
YDL028C	*MPS1*	nucleus	punctate,nucleus
YJR025C	*BNA1*	cytosol	cytosol
YOL115W	*PAP2*	nucleus	nucleus
YDL039C	*PRM7*	cytosol	cytosol
YLL058W	*HSU1*	cytosol	cytosol
YMR271C	*URA10*	cytosol	cytosol
YAL017W	*PSK1*	cytosol	cytosol
YGR179C	*OKP1*	nucleus	punctate,nucleus
YNL251C	*NRD1*	nucleus	nucleus
YKL022C	*CDC16*	nucleus	nucleus
YBR014C	*GRX7*	punctate	punctate,vacuole
YDR363W	*ESC2*	nucleus	nucleus
YGL056C	*SDS23*	cytosol	cytosol
YOR258W	*HNT3*	cytosol	cytosol
YNR068C	*YNR068C*	cytosol	cytosol
YAL024C	*LTE1*	bud	bud
YNL062C	*GCD10*	nucleus	nucleus
YGL085W	*LCL3*	nucleus,punctate	punctate,vacuole,mitochondria
YKL103C	*APE1*	punctate	punctate
YLR271W	*CMG1*	nucleus	nucleus
YER177W	*BMH1*	cytosol	cytosol
YLR288C	*MEC3*	nucleus	punctate,nucleus
YER002W	*NOP16*	nucleus	cytosol
YDL179W	*PCL9*	cytosol	#N/A
YLR278C	*YLR278C*	nucleus	nucleus
YBR167C	*POP7*	nucleus	nucleus
YOR346W	*REV1*	nucleus	nucleus
YAR029W	*DFP2*	cytosol	cytosol
YBR212W	*NGR1*	cytosol	cytosol
YGR132C	*PHB1*	cytosol	cytosol,punctate
YNL246W	*VPS75*	nucleus	nucleus
YOR367W	*SCP1*	punctate,bud	cytosol,punctate,bud
YGR035C	*YGR035C*	cytosol	cytosol
YHL018W	*MCO14*	cytosol	cytosol
YER159C	*BUR6*	nucleus	nucleus
YBR028C	*YPK3*	cytosol	cytosol
YDR463W	*STP1*	cytosol	#N/A
YHR187W	*IKI1*	cytosol	cytosol
YBR079C	*RPG1*	cytosol	cytosol
YFR053C	*HXK1*	cytosol	cytosol
YHR144C	*DCD1*	cytosol	cytosol
YDR219C	*MFB1*	mitochondria	mitochondria
YPR058W	*YMC1*	mitochondria	mitochondria
YGR274C	*TAF1*	nucleus	punctate,nucleus
YHL027W	*RIM101*	nucleus	cytosol
YGL049C	*TIF4632*	cytosol	cytosol

YKL181W	*PRS1*	cytosol	cytosol
YHL011C	*PRS3*	cytosol	cytosol
YJR111C	*PXP2*	punctate	punctate
YER038W-A	*FMP49*	cytosol	#N/A
YBR231C	*SWC5*	nucleus	nucleus
YDR322C-A	*TIM11*	cytosol	cytosol
YKL092C	*BUD2*	bud neck	cell periphery,bud neck
YLR165C	*PUS5*	cytosol	cytosol
YGL035C	*MIG1*	nucleus	nucleus
YNL290W	*RFC3*	nucleus	nucleus
YOR249C	*APC5*	nucleus	nucleus
YMR325W	*PAU19*	cytosol	cytosol,nucleus
YLR287C	*YLR287C*	cytosol	cytosol
YMR178W	*FPY1*	nucleus	cytosol,nucleolus
YGR271C-A	*EFG1*	nucleus	nucleolus
YKL025C	*PAN3*	cytosol	cytosol
YMR216C	*SKY1*	cytosol	cytosol
YMR308C	*PSE1*	nucleus	cytosol,punctate,vacuole membrane
YOR362C	*PRE10*	cytosol	nucleolus
YMR139W	*RIM11*	cytosol	cytosol,punctate
YCR063W	*BUD31*	nucleus	punctate,nucleus
YJR096W	*YJR096W*	cytosol	cytosol
YOL133W	*HRT1*	nucleus	cytosol,nucleus
YDR333C	*RQC1*	cytosol	cytosol
YJR135C	*MCM22*	punctate	cytosol,punctate
YKR101W	*SIR1*	nucleus	nucleus
YKL035W	*UGP1*	cytosol	cytosol
YHR182W	*RGD3*	bud	cytosol,bud neck
YER035W	*EDC2*	cytosol	cytosol
YLR102C	*APC9*	nucleus	cytosol,nucleus
YGL081W	*YGL081W*	ER	nuclear periphery
YPR127W	*YPR127W*	cytosol	cytosol
YCR073C	*SSK22*	cytosol	cytosol,punctate
YDR165W	*TRM82*	nucleus	nucleus
YGL242C	*ANK1*	cytosol	cytosol
YGL243W	*TAD1*	cytosol	cytosol
YMR247C	*RKR1*	cytosol	cytosol
YLR318W	*EST2*	nucleus	nucleolus
YGR056W	*RSC1*	nucleus	nucleus
YGL197W	*MDS3*	cytosol	cytosol
YMR261C	*TPS3*	cytosol	cytosol
YGR111W	*YGR111W*	cytosol	cytosol
YNL218W	*MGS1*	nucleus	nucleus
YNL042W	*BOP3*	nucleus	nucleolus
YNR043W	*MVD1*	vacuole membrane	cytosol
YIL074C	*SER33*	cytosol	cytosol
YER041W	*YEN1*	nucleus	cytosol,nucleus

YNL229C	*URE2*	cytosol	cytosol
YML108W	*YML108W*	nucleus	nucleus
YLR178C	*TFS1*	cytosol	cytosol
YDL112W	*TRM3*	punctate	punctate
YFL007W	*BLM10*	cytosol	cytosol,nucleus
YBL075C	*SSA3*	cytosol	cytosol
YJR057W	*CDC8*	cytosol	cytosol
YDR465C	*RMT2*	cytosol	cytosol
YGL021W	*ALK1*	cytosol	cytosol
YKL061W	*BLI1*	cytosol	cytosol
YIL079C	*AIR1*	nucleus	nucleolus
YOR012W	*YOR012W*	cytosol	cytosol
YNL267W	*PIK1*	cytosol	punctate
YDL154W	*MSH5*	cytosol	cytosol
YGL235W	*YGL235W*	nucleus	nucleus
YMR270C	*RRN9*	nucleus	nucleus
YGR018C	*YGR018C*	cytosol	cytosol,punctate
YIL097W	*FYV10*	cytosol	punctate
YML082W	*YML082W*	nucleus	cytosol,nucleus
YPL241C	*CIN2*	cytosol	cell periphery
YDR391C	*YDR391C*	cytosol	cytosol
YLR452C	*SST2*	cytosol	cytosol
YLR401C	*DUS3*	nucleus	nucleus
YKL095W	*YJU2*	nucleus	nucleus
YDR050C	*TPI1*	cytosol	cytosol
YGL202W	*ARO8*	cytosol	cytosol
YDR007W	*TRP1*	cytosol	#N/A
YNL162W	*RPL42A*	nucleus	cytosol,nucleus
YBL052C	*SAS3*	nucleus	punctate,nucleus
YEL072W	*RMD6*	cytosol	cytosol
YGL185C	*YGL185C*	cytosol	cytosol
YOR368W	*RAD17*	nucleus	nucleus
YMR160W	*CVM1*	vacuole membrane	punctate,vacuole membrane
YNL042W-B	*YNL042W-B*	cytosol	punctate
YEL071W	*DLD3*	cytosol	cytosol
YPL083C	*SEN54*	mitochondria	mitochondria
YDL165W	*CDC36*	cytosol	cytosol
YML036W	*CGI121*	nucleus	cytosol,nucleus
YGL179C	*TOS3*	cytosol	cytosol,punctate
YML105C	*SEC65*	nucleus	nucleolus
YIL165C	*YIL165C*	cytosol	cytosol,nucleus
YLR149C	*GID11*	nucleus	cytosol,nucleus
YGR240C	*PFK1*	cytosol	cytosol
YIL006W	*YIA6*	cytosol	mitochondria
YDL102W	*POL3*	nucleus	nucleus
YGR113W	*DAM1*	nucleus	punctate,nucleus
YPL213W	*LEA1*	nucleus	cytosol,nucleus

YHR088W	*RPF1*	nucleus	nucleolus
YGL131C	*SNT2*	nucleus	nucleus
YGR024C	*THG1*	cytosol	cytosol
YLR290C	*COQ11*	mitochondria	mitochondria
YPL174C	*NIP100*	cytosol	cytosol,punctate
YDR239C	*YDR239C*	cytosol	cytosol
YIR025W	*MND2*	nucleus	nucleus
YOR344C	*TYE7*	nucleus	cytosol,nucleus
YBR213W	*MET8*	bud	cytosol
YBR284W	*YBR284W*	cytosol	cytosol
YNL067W	*RPL9B*	nucleus	cytosol
YKL185W	*ASH1*	nucleus	nucleus
YLR264W	*RPS28B*	cytosol	cytosol
YML032C	*RAD52*	nucleus	punctate,nucleus
YBR278W	*DPB3*	nucleus	cytosol,nucleus
YHR143W-A	*RPC10*	nucleus	punctate,nucleus
YDL139C	*SCM3*	nucleus	nucleus
YKL117W	*SBA1*	cytosol	cytosol
YIL017C	*VID28*	nucleus	cytosol,nucleus
YJR108W	*ABM1*	cytosol	cytosol,punctate,nucleus
YLR244C	*MAP1*	punctate	cytosol
YDR151C	*CTH1*	cytosol	cytosol
YNR034W	*SOL1*	cytosol	cytosol
YGL130W	*CEG1*	nucleus	nucleus
YML011C	*RAD33*	nucleus	cytosol,nucleus
YBR274W	*CHK1*	nucleus	cytosol,nucleus
YGR013W	*SNU71*	nucleus	cytosol,nucleus
YDR263C	*DIN7*	nucleus	punctate,nucleus
YGL147C	*RPL9A*	nucleus	cytosol
YLR435W	*TSR2*	nucleus	cytosol,nucleus
YDR486C	*VPS60*	cytosol	cytosol,punctate
YBR126C	*TPS1*	cytosol	cytosol
YDR150W	*NUM1*	cell periphery,punctate	cytosol,cell periphery,punctate
YHR193C	*EGD2*	cytosol	cytosol
YDR378C	*LSM6*	cytosol	cytosol
YOL015W	*IRC10*	mitochondria	mitochondria
YDR533C	*HSP31*	cytosol	cytosol
YEL026W	*SNU13*	nucleus	nucleolus
YPL125W	*KAP120*	nucleus	nucleus
YLR313C	*SPH1*	bud	bud
YJL033W	*HCA4*	nucleus	nucleolus
YPL018W	*CTF19*	punctate	punctate,vacuole membrane
YPL171C	*OYE3*	cytosol	cytosol
YHL010C	*ETP1*	cytosol	cytosol
YJR129C	*EFM3*	cytosol	cytosol
YLR445W	*GMC2*	cytosol	cytosol
YBR271W	*EFM2*	cytosol	cytosol

YNL022C	*RCM1*	nucleus	nucleolus
YLR031W	*YLR031W*	nucleus	cytosol
YAL041W	*CDC24*	cytosol	punctate
YPR111W	*DBF20*	cytosol	cytosol,punctate
YPL026C	*SKS1*	cytosol	cytosol,punctate
YDR251W	*PAM1*	cell periphery,bud,bud neck	cell periphery,bud
YNL091W	*NST1*	cytosol	cytosol
YOL146W	*PSF3*	nucleus	cytosol,nucleus
YGL078C	*DBP3*	nucleus	nucleolus
YAL063C-A	*YAL063C-A*	cytosol	cytosol
YLR196W	*PWP1*	cytosol	cytosol
YER054C	*GIP2*	punctate	cytosol,punctate
YNL206C	*RTT106*	nucleus	nucleus
YKL087C	*CYT2*	cytosol	cytosol
YLR408C	*BLS1*	cytosol	cytosol,punctate
YDR306C	*PFU1*	cytosol	cytosol
YLR200W	*YKE2*	cytosol	cytosol
YPL153C	*RAD53*	nucleus	nucleus
YIR003W	*AIM21*	cytosol	cytosol,punctate,bud
YJR140C	*HIR3*	nucleus	nucleus
YDR158W	*HOM2*	cytosol	cytosol
YHR156C	*LIN1*	nucleus	nucleus
YDL134C	*PPH21*	cytosol	cytosol
YCR102C	*YCR102C*	cytosol	cytosol
YMR219W	*ESC1*	nuclear periphery	punctate,nuclear periphery
YOR173W	*DCS2*	cytosol	cytosol
YDR267C	*CIA1*	nucleus	cytosol,nucleus
YBR087W	*RFC5*	nucleus	nucleus
YGR267C	*FOL2*	cytosol	cytosol
YGR017W	*YGR017W*	cytosol	cytosol
YOR207C	*RET1*	nucleus	cytosol,nucleus
YIL064W	*EFM4*	cytosol	cytosol
YJL101C	*GSH1*	cytosol	cytosol
YKL142W	*MRP8*	cytosol	cytosol
YGL164C	*YRB30*	cytosol	cytosol
YKL017C	*HCS1*	cytosol	cytosol
YKL159C	*RCN1*	cytosol	cytosol
YER121W	*YER121W*	vacuole membrane	cytosol,vacuole membrane
YMR032W	*HOF1*	bud neck	bud neck
YOR243C	*PUS7*	nucleus	nucleus
YNL108C	*YNL108C*	cytosol	cytosol
YPL181W	*CTI6*	nucleus	nucleolus
YER098W	*UBP9*	cytosol	cytosol
YLR216C	*CPR6*	cytosol	cytosol
YER186C	*YER186C*	cytosol	#N/A
YDR053W	*YDR053W*	nucleus	cytosol,ER,punctate
YBL006C	*LDB7*	cytosol	nucleus

YHR111W	*UBA4*	cytosol	cytosol
YNL249C	*MPA43*	cytosol	cytosol
YNL277W-A	*YNL277W-A*	cytosol	#N/A
YGR262C	*BUD32*	nucleus	cytosol,nucleus
YPL017C	*IRC15*	cytosol	cytosol
YGL050W	*TYW3*	cytosol	cytosol
YJL107C	*YJL107C*	cytosol	cytosol
YJR135W-A	*TIM8*	cytosol	cytosol
YDR423C	*CAD1*	cytosol	cytosol
YDR397C	*NCB2*	nucleus	nucleus
YNL201C	*PSY2*	nucleus	nucleus
YDL040C	*NAT1*	nucleus	cytosol,nucleus
YJL140W	*RPB4*	nucleus	nucleolus
YNL083W	*SAL1*	mitochondria	mitochondria
YBR200W-A	*YBR200W-A*	cytosol	#N/A
YAL049C	*AIM2*	cytosol	cytosol
YGR264C	*MES1*	cytosol	cytosol
YBR259W	*YBR259W*	nucleus	cytosol,nucleus
YBL004W	*UTP20*	nucleus	nucleolus
YIL131C	*FKH1*	cytosol	punctate,nucleus
YAR019C	*CDC15*	cytosol	cytosol,punctate
YKL206C	*ADD66*	cytosol	cytosol
YOR213C	*SAS5*	nucleus	nucleus
YER143W	*DDI1*	nucleus	cytosol,nucleus
YDR081C	*PDC2*	nucleus	nucleus
YHR207C	*SET5*	cytosol	cytosol
YOL151W	*GRE2*	cytosol	cytosol
YBR184W	*YBR184W*	ER	ER,punctate
YKL007W	*CAP1*	punctate	cytosol,punctate
YER112W	*LSM4*	cytosol	cytosol
YNR017W	*TIM23*	mitochondria	mitochondria
YOR313C	*SPS4*	punctate	punctate
YBR046C	*ZTA1*	nucleus	cytosol
YGR019W	*UGA1*	cytosol	cytosol
YEL006W	*YEA6*	cytosol	Blank
YGR072W	*UPF3*	cytosol	cytosol,punctate
YJL103C	*GSM1*	nucleus	punctate,nucleus
YER137C	*YER137C*	cytosol	cytosol
YER070W	*RNR1*	cytosol	cytosol
YMR154C	*RIM13*	cytosol	cytosol
YER134C	*YER134C*	cytosol	cytosol
YKR029C	*SET3*	nucleus	nucleus
YGR099W	*TEL2*	cytosol	cytosol
YLR432W	*IMD3*	cytosol	cytosol
YDR173C	*ARG82*	nucleus	cytosol,nucleus
YBL044W	*YBL044W*	cytosol	cytosol
YDR143C	*SAN1*	nucleus	cytosol,nucleus

YGR035W-A	*YGR035W-A*	cytosol	ER
YNL034W	*YNL034W*	cytosol	punctate
YGL192W	*IME4*	cytosol	cytosol,punctate
YDL003W	*MCD1*	nucleus	missing
YLR233C	*EST1*	cytosol	nucleolus
YHR064C	*SSZ1*	cytosol	cytosol
YGR230W	*BNS1*	nucleus	nucleus
YMR156C	*TPP1*	nucleus	nucleus
YHR090C	*YNG2*	nucleus	nucleus
YBR165W	*UBS1*	nucleus	punctate,nucleus
YOR236W	*DFR1*	cytosol	cytosol
YDR131C	*YDR131C*	cytosol	cytosol
YDR361C	*BCP1*	nucleus	nucleus
YLR189C	*ATG26*	cytosol	cytosol
YHR033W	*YHR033W*	cytosol	cytosol
YHL048C-A	*YHL048C-A*	cytosol	nucleus
YHR165C	*PRP8*	nucleus	nucleus
YMR168C	*CEP3*	nucleus	punctate,nucleus
YKR097W	*PCK1*	cytosol	cytosol
YDR507C	*GIN4*	bud neck	bud neck
YMR201C	*RAD14*	nucleus	nucleus
YGR288W	*MAL13*	nucleus	cytosol,nucleus
YOR107W	*RGS2*	nucleus	nucleus
YNL102W	*POL1*	nucleus	nucleus
YOL012C	*HTZ1*	nucleus	nucleus
YMR053C	*STB2*	cytosol	cytosol
YNL167C	*SKO1*	cytosol	nucleus
YGL211W	*NCS6*	cytosol	punctate
YIL084C	*SDS3*	nucleus	nucleus
YPL023C	*MET12*	nucleus	nucleus
YBL081W	*YBL081W*	cytosol	cytosol
YNL018C	*YNL018C*	cytosol	punctate
YIL019W	*FAF1*	nucleus	nucleolus
YGR161C	*RTS3*	nucleus	cytosol,nucleus
YGL113W	*SLD3*	nucleus	nucleus
YGR087C	*PDC6*	punctate	nucleus
YNL031C	*HHT2*	nucleus	nucleus
YOR027W	*STI1*	cytosol	cytosol
YJR154W	*YJR154W*	cytosol	cytosol
YJL173C	*RFA3*	nucleus	punctate,nucleus
YCR086W	*CSM1*	nucleus,punctate	punctate,nucleus
YKL145W	*RPT1*	cytosol	nucleus
YDL045C	*FAD1*	cytosol	cytosol
YPL008W	*CHL1*	nucleus	nucleus
YEL042W	*GDA1*	punctate	punctate,vacuole
YNL001W	*DOM34*	nucleus	cytosol
YOR148C	*SPP2*	nucleus	nucleus

YBR101C	*FES1*	nucleus	cytosol
YLR298C	*YHC1*	nucleus	nucleus
YOR161W-B	*YOR161W-B*	cytosol	#N/A
YJR032W	*CPR7*	cytosol	cytosol
YOR253W	*NAT5*	cytosol	cytosol
YOR073W	*SGO1*	nucleus	punctate
YCL068C	*YCL068C*	bud	bud neck
YJR090C	*GRR1*	cytosol	cytosol,bud neck
YPL161C	*BEM4*	cytosol	cytosol
YDR174W	*HMO1*	nucleus	nucleolus
YDR496C	*PUF6*	nucleus	nucleolus
YIL033C	*BCY1*	nucleus	cytosol,nucleus
YLR222C	*UTP13*	nucleus	nucleolus
YEL004W	*YEA4*	ER	ER
YML083C	*YML083C*	nucleus	nucleus
YGR097W	*ASK10*	cytosol	cytosol
YML081C-A	*ATP18*	cytosol	ER
YMR164C	*MSS11*	cytosol	nucleus
YJR120W	*DMO1*	cytosol	#N/A
YDL013W	*SLX5*	nucleus	cytosol,nucleus
YER042W	*MXR1*	cytosol	cytosol
YFR007W	*YFH7*	cytosol	cytosol
YGL017W	*ATE1*	cytosol	cytosol,nucleus
YKL019W	*RAM2*	cytosol	cytosol,nucleus
YOL095C	*HMI1*	cytosol	mitochondria
YDR127W	*ARO1*	nucleus	cytosol
YGR252W	*GCN5*	nucleus	nucleus
YOR272W	*YTM1*	nucleus	nucleus
YFR029W	*PTR3*	cytosol	missing
YBL036C	*YBL036C*	cytosol	cytosol
YKR054C	*DYN1*	nucleus	punctate
YMR268C	*PRP24*	nucleus	nucleus
YBR065C	*ECM2*	cytosol	nucleus
YCR095C	*OCA4*	cytosol	cytosol
YER048C	*CAJ1*	cytosol	cytosol,cell periphery
YOR372C	*NDD1*	nucleus	cytosol,nucleus
YPL144W	*POC4*	cytosol	cytosol
YDL175C	*AIR2*	nucleus	nucleus
YGL090W	*LIF1*	nucleus	nucleus
YDL105W	*NSE4*	nucleus	nucleus
YER089C	*PTC2*	cytosol	cytosol
YDL057W	*YDL057W*	cytosol	cytosol,punctate
YMR217W	*GUA1*	cytosol	cytosol
YLR007W	*NSE1*	cytosol	cytosol
YDL082W	*RPL13A*	nucleus	cytosol,nucleus
YML117W	*NAB6*	cytosol	cytosol
YHR015W	*MIP6*	cytosol	cytosol

YKL033W	*TTI1*	cytosol	cytosol
YGR047C	*TFC4*	nucleus	cytosol,nucleus
YER142C	*MAG1*	nucleus	nucleus
YMR180C	*CTL1*	cytosol	cytosol
YIR018W	*YAP5*	nucleus	nucleus
YMR014W	*BUD22*	nucleus	nucleolus
YOR198C	*BFR1*	cytosol	vacuole membrane
YEL054C	*RPL12A*	cytosol	cytosol
YKL205W	*LOS1*	nuclear periphery	punctate,nuclear periphery
YPL001W	*HAT1*	nucleus	nucleus
YLR099C	*ICT1*	cytosol	cytosol
YMR312W	*ELP6*	cytosol	cytosol
YDR291W	*HRQ1*	nucleus	nucleus
YJR068W	*RFC2*	nucleus	nucleus
YOL080C	*REX4*	nucleus	nucleolus
YHR185C	*PFS1*	cytosol	cytosol,punctate
YIL126W	*STH1*	nucleus	nucleolus
YJL055W	*LOG1*	cytosol	cytosol
YMR102C	*LAF1*	nucleus	cytosol,punctate,nucleus
YJL010C	*NOP9*	nucleus	nucleolus
YKL204W	*EAP1*	cytosol	cytosol
YKR034W	*DAL80*	nucleus	nucleus
YMR273C	*ZDS1*	bud	bud neck
YBR117C	*TKL2*	nucleus	nucleus
YCL037C	*SRO9*	cytosol	cytosol
YFR030W	*MET10*	cytosol	cytosol
YMR105W-A	*YMR105W-A*	cytosol	punctate
YNL212W	*VID27*	cytosol	cytosol,punctate
YKL012W	*PRP40*	nucleus	nucleus
YDL239C	*ADY3*	punctate	punctate
YJR041C	*URB2*	nucleus	nucleolus
YPL126W	*NAN1*	nucleus	punctate,nucleolus
YDL131W	*LYS21*	nucleus	nucleus
YGR246C	*BRF1*	nucleus	nucleus
YDR210W	*CPP2*	cell periphery	cell periphery
YLR364W	*GRX8*	cytosol	cytosol
YER028C	*MIG3*	nucleus	nucleus
YLR054C	*OSW2*	punctate	cytosol,punctate
YDL043C	*PRP11*	cytosol	nucleus
YJL197W	*UBP12*	nucleus	nucleus
YNL096C	*RPS7B*	cytosol	cytosol
YLR446W	*NGK1*	cytosol	cytosol
YER079W	*YER079W*	nucleus	cytosol,nucleus
YOR251C	*TUM1*	cytosol	cytosol
YJR146W	*YJR146W*	cytosol	#N/A
YDR031W	*MIX14*	cytosol	cytosol
YNL254C	*RTC4*	nucleus	nucleus

YBR285W	*YBR285W*	cytosol	cytosol
YDR198C	*RKM2*	cytosol	cytosol,nucleus
YKR028W	*SAP190*	cytosol	cytosol
YOL091W	*SPO21*	cytosol	cytosol
YLL013C	*PUF3*	cytosol	cytosol
YGR275W	*RTT102*	nucleus	nucleus
YNL307C	*MCK1*	cytosol	cytosol
YFR046C	*CNN1*	nucleus	cytosol,punctate,nucleus
YHR199C-A	*NBL1*	punctate	cytosol,punctate,nucleus
YML054C-A	*YML054C-A*	cytosol	#N/A
YGR285C	*ZUO1*	cytosol	cytosol
YNL079C	*TPM1*	cytosol	cytosol,bud
YPL169C	*MEX67*	cytosol	punctate,nuclear periphery
YEL073C	*YEL073C*	cytosol	cytosol
YMR075W	*RCO1*	nucleus	nucleus
YDR471W	*RPL27B*	cytosol	cytosol
YDR222W	*YDR222W*	punctate	cytosol,punctate
YFR023W	*PES4*	cytosol	cytosol
YGR184C	*UBR1*	nucleus	nucleus
YOR231C-A	*YOR231C-A*	cytosol	#N/A
YOL064C	*MET22*	cytosol	cytosol
YJR147W	*HMS2*	cytosol	nucleus
YLR436C	*ECM30*	cytosol	cytosol,punctate
YGL175C	*SAE2*	nucleus	nucleus
YBL098W	*BNA4*	mitochondria,punctate	mitochondria
YDR195W	*REF2*	nucleus	nucleus
YCL028W	*RNQ1*	punctate	punctate
YNL244C	*SUI1*	cytosol	cytosol
YOR078W	*BUD21*	nucleus	nucleolus
YGL111W	*NSA1*	nucleus	punctate,nucleus
YNL250W	*RAD50*	cytosol	cytosol
YKL001C	*MET14*	cytosol	cytosol
YOR160W	*MTR10*	nucleus	cytosol
YJL087C	*TRL1*	cytosol	cytosol
YDR060W	*MAK21*	nucleus	nucleolus
YKR035W-A	*DID2*	cytosol	cytosol,punctate
YHR086W	*NAM8*	nucleus	cytosol,nucleus
YBR088C	*POL30*	nucleus	punctate,nucleus
YEL007W	*MIT1*	nucleus	punctate,nucleus
YER081W	*SER3*	cytosol	cytosol
YHR044C	*DOG1*	cytosol	cytosol
YNL056W	*OCA2*	cytosol	cytosol
YDR512C	*EMI1*	cytosol	nucleus
YNL245C	*CWC25*	nucleus	nucleus
YDR357C	*CNL1*	cytosol	punctate
YFL027C	*GYP8*	punctate,ER	punctate
YBR296C-A	*TYC1*	cytosol	#N/A

YGR253C	*PUP2*	cytosol	nucleus
YBR073W	*RDH54*	cytosol	cytosol
YGL173C	*XRN1*	cytosol	punctate
YAL051W	*OAF1*	nucleus	nucleus
YPR051W	*MAK3*	cytosol	cytosol
YGR030C	*POP6*	nucleus	nucleus
YJL057C	*IKS1*	cytosol	ER,vacuole
YNR063W	*PUL4*	nucleus	nucleus
YPR129W	*SCD6*	cytosol	cytosol,punctate
YOL094C	*RFC4*	nucleus	nucleus
YLR262C-A	*TMA7*	cytosol	cytosol
YNL255C	*GIS2*	cytosol	cytosol
YLR168C	*UPS2*	cytosol	punctate
YIR035C	*NRE1*	cytosol	cytosol
YBR053C	*YBR053C*	cytosol	cytosol
YLR172C	*DPH5*	nucleus	cytosol
YLR405W	*DUS4*	cytosol	cytosol
YAL025C	*MAK16*	nucleus	punctate,nucleus
YDR334W	*SWR1*	nucleus	nucleus
YEL055C	*POL5*	nucleus	nucleolus
YDL160C-A	*MHF2*	cytosol	cytosol,nucleus
YBL066C	*SEF1*	nucleus	nucleus
YGL070C	*RPB9*	nucleus	nucleus
YML038C	*YMD8*	punctate	punctate
YOR134W	*BAG7*	cytosol	cytosol
YGR104C	*SRB5*	nucleus	cytosol,nucleus
YGR054W	*YGR054W*	cytosol	cytosol
YER085C	*YER085C*	bud	punctate,bud
YPR120C	*CLB5*	nucleus	punctate,nucleus
YDR129C	*SAC6*	punctate,bud	punctate,bud neck
YDR185C	*UPS3*	punctate	mitochondria
YDR480W	*DIG2*	nucleus	nucleus
YLR363C	*NMD4*	cytosol	cytosol
YGR108W	*CLB1*	nucleus	cytosol,nucleus
YLR013W	*GAT3*	cytosol	Blank
YPR060C	*ARO7*	cytosol	cytosol
YOR265W	*RBL2*	cytosol	cytosol
YJR085C	*TMH11*	ER	mitochondria
YLR424W	*SPP382*	nucleus	nucleus
YKR010C	*TOF2*	nucleus	nucleolus
YJR011C	*CAL4*	cytosol	cytosol
YMR299C	*DYN3*	cytosol	cytosol
YNL023C	*FAP1*	cytosol	cytosol
YHR020W	*YHR020W*	cytosol	cytosol
YGL215W	*CLG1*	nucleus	cytosol,nucleus
YHR080C	*LAM4*	cell periphery	cell periphery,punctate
YKL121W	*DGR2*	cytosol	cytosol,punctate,bud neck

YOL070C	*NBA1*	bud neck	bud neck
YKL038W	*RGT1*	nucleus	nucleus
YJR049C	*UTR1*	cytosol	cytosol
YGR080W	*TWF1*	punctate,bud	punctate,bud neck
YLR068W	*FYV7*	nucleus	nucleolus
YAR008W	*SEN34*	cytosol	#N/A
YNL130C-A	*DGR1*	cytosol	#N/A
YLL026W	*HSP104*	cytosol	cytosol
YAL003W	*EFB1*	cytosol	cytosol
YHR043C	*DOG2*	cytosol	cytosol
YIL010W	*DOT5*	nucleus	nucleus
YJL218W	*YJL218W*	cytosol	cytosol
YOR349W	*CIN1*	cytosol	cytosol
YGL222C	*EDC1*	cytosol	cytosol
YJL125C	*GCD14*	nucleus	nucleus
YGR169C-A	*LSO2*	cytosol	cytosol
YDL108W	*KIN28*	nucleus	nucleus
YLR024C	*UBR2*	cytosol	cytosol,nucleus
YPL150W	*YPL150W*	cell periphery	cell periphery,punctate
YER038C	*KRE29*	nucleus	nucleus
YFR037C	*RSC8*	nucleus	nucleolus
YPR098C	*TMH18*	mitochondria	mitochondria
YFL022C	*FRS2*	cytosol	cytosol
YJL203W	*PRP21*	nucleus	nucleus
YIL062C	*ARC15*	cytosol	cytosol,punctate
YML060W	*OGG1*	nucleus	nucleus
YPL277C	*YPL277C*	ER	ER
YER068W	*MOT2*	cytosol	cytosol
YDL182W	*LYS20*	nucleus	nucleus
YHR158C	*KEL1*	bud	bud
YBL048W	*RRT1*	cytosol	#N/A
YGL159W	*YGL159W*	cytosol	cytosol
YLR438W	*CAR2*	cytosol	cytosol
YIL009W	*FAA3*	cell periphery	cell periphery
YNL186W	*UBP10*	nucleus	nucleolus
YCR079W	*PTC6*	cytosol	cytosol
YCR105W	*ADH7*	cytosol	cytosol
YMR043W	*MCM1*	nucleus	nucleus
YBR072C-A	*YBR072C-A*	cytosol	cytosol,punctate
YDL188C	*PPH22*	cytosol	cytosol,punctate,nucleus
YKL058W	*TOA2*	nucleus	nucleus
YPL047W	*SGF11*	nucleus	cytosol,nucleus
YEL057C	*SDD1*	cytosol	#N/A
YKR031C	*SPO14*	cytosol	cytosol
YCL058W-A	*ADF1*	nucleus	nucleus
YFR057W	*YFR057W*	cytosol	cytosol,nucleus
YGR121W-A	*YGR121W-A*	cytosol	cytosol,punctate,nucleus

YBL023C	*MCM2*	cytosol	cytosol,punctate,nucleus
YFR011C	*MIC19*	cytosol	cytosol
YGR091W	*PRP31*	nucleus	nucleus
YDL006W	*PTC1*	cytosol	cytosol
YPR078C	*YPR078C*	cell periphery	cell periphery
YFL052W	*ZNF1*	cytosol	cytosol,punctate,nucleus
YNL211C	*MRX7*	nucleus	ER
YLR176C	*RFX1*	nucleus	nucleus
YOR112W	*CEX1*	cytosol	cytosol
YNR014W	*YNR014W*	cytosol	cytosol
YML080W	*DUS1*	nucleus	nucleus
YNL092W	*YNL092W*	nucleus	cytosol,nucleus
YER044C-A	*MEI4*	cytosol	#N/A
YDR073W	*SNF11*	nucleus	nucleus
YDL076C	*RXT3*	nucleus	nucleus
YHR152W	*SPO12*	nucleus	nucleus
YHR009C	*TDA3*	cytosol	cytosol
YHR164C	*DNA2*	nucleus	nucleus
YNL172W	*APC1*	cytosol	cytosol
YKR043C	*SHB17*	cytosol	cytosol
YNL193W	*YNL193W*	cytosol	cytosol
YJL043W	*YJL043W*	cytosol	cytosol,punctate,nucleus
YHR087W	*RTC3*	cytosol	cytosol
YCR081W	*SRB8*	cytosol	cytosol
YDL017W	*CDC7*	nucleus	cytosol,nucleus
YER107C	*GLE2*	cytosol	punctate,nuclear periphery
YBR125C	*PTC4*	cytosol	cytosol
YMR250W	*GAD1*	cytosol	cytosol
YCL036W	*GFD2*	cytosol	cytosol
YBL103C	*RTG3*	nucleus	nucleus
YDL155W	*CLB3*	nucleus	cytosol,nucleus
YJL013C	*MAD3*	nucleus	nucleus
YJR043C	*POL32*	nucleus	nucleus
YMR222C	*FSH2*	cytosol	cytosol
YNL325C	*FIG4*	cytosol	cytosol
YJR036C	*HUL4*	cytosol	cytosol
YDL037C	*BSC1*	cytosol	cytosol
YGR212W	*SLI1*	cytosol	ER
YMR175W	*SIP18*	cytosol	cytosol
YPL064C	*CWC27*	nucleus	nucleus
YDR399W	*HPT1*	cytosol	cytosol
YER082C	*UTP7*	nucleus	nucleolus
YJL184W	*GON7*	nucleus	cytosol,nucleus
YKR064W	*OAF3*	nucleus	nucleus
YNL309W	*STB1*	nucleus	nucleus
YDR365C	*ESF1*	nucleus	nucleolus
YOL089C	*HAL9*	nucleus	punctate,nucleus

YDR226W	*ADK1*	cytosol	cytosol
YDR311W	*TFB1*	nucleus	nucleus
YOR194C	*TOA1*	nucleus	nucleus
YEL056W	*HAT2*	nucleus	nucleus
YDL173W	*PAR32*	cell periphery	cell periphery
YPL111W	*CAR1*	cytosol	cytosol
YCL024W	*KCC4*	bud neck	bud neck
YDR030C	*RAD28*	nucleus	nucleus
YDR140W	*MTQ2*	cytosol	cytosol
YMR285C	*NGL2*	cytosol	cytosol
YEL046C	*GLY1*	cytosol	cytosol
YGR173W	*RBG2*	cytosol	cytosol
YIL164C	*NIT1*	cytosol	cytosol
YLR021W	*IRC25*	cytosol	cytosol
YPL135C-A	*YPL135C-A*	cytosol	cytosol,nucleus
YPL268W	*PLC1*	cytosol	cytosol,nucleus
YHR124W	*NDT80*	nucleus	cytosol
YBR149W	*ARA1*	cytosol	cytosol
YKL184W	*SPE1*	cytosol	cytosol
YBR050C	*REG2*	nucleus	nucleus
YPL158C	*AIM44*	bud neck	bud neck
YFL029C	*CAK1*	cytosol	cytosol
YCR047C	*BUD23*	nucleus	nucleus
YDR110W	*FOB1*	nucleus	nucleolus
YNL068C	*FKH2*	cytosol	Blank
YBR233W-A	*DAD3*	punctate	punctate
YDR448W	*ADA2*	nucleus	punctate,nucleus
YHR197W	*RIX1*	nucleus	nucleus
YGR063C	*SPT4*	nucleus	nucleolus
YOR046C	*DBP5*	cytosol	cytosol,ER
YPL208W	*RKM1*	nucleus	nucleus
YDR435C	*PPM1*	cytosol	cytosol
YNL288W	*CAF40*	cytosol	cytosol
YDR044W	*HEM13*	cytosol	cytosol
YDL056W	*MBP1*	nucleus	nucleus
YDR425W	*SNX41*	punctate	punctate,vacuole membrane
YDR523C	*SPS1*	nucleus	nucleus
YJL077W-A	*YJL077W-A*	cytosol	cytosol
YCL026C-A	*FRM2*	cytosol	cytosol
YPR013C	*CMR3*	cytosol	nucleus
YGR258C	*RAD2*	nucleus	nucleus
YDL156W	*CMR1*	nucleus	nucleus
YDR217C	*RAD9*	nucleus	nucleolus
YPL020C	*ULP1*	nuclear periphery	nuclear periphery
YBR194W	*AIM4*	nucleus	nucleus
YPR081C	*GRS2*	cytosol	cytosol
YER187W	*YER187W*	cytosol	cytosol,nucleus

YDL129W	*YDL129W*	nucleus	nucleus
YDR314C	*RAD34*	nucleus	nucleus
YOR189W	*IES4*	nucleus	cytosol,nucleus
YNL119W	*NCS2*	cytosol	cytosol
YNR032W	*PPG1*	cytosol	missing
YLR016C	*PML1*	nucleus	nucleus
YLR108C	*YLR108C*	nucleus	nucleus
YJL216C	*IMA5*	cytosol	cytosol
YNL004W	*HRB1*	nucleus	cytosol
YMR303C	*ADH2*	cytosol	cytosol
YLL049W	*LDB18*	cytosol	#N/A
YDR446W	*ECM11*	nucleus	cytosol,nucleus
YNL027W	*CRZ1*	bud	cytosol
YPL225W	*CHP1*	cytosol	cytosol
YDL074C	*BRE1*	nucleus	nucleolus
YBR157C	*ICS2*	cytosol	cytosol
YDR176W	*NGG1*	nucleus	nucleus
YDR259C	*YAP6*	cytosol	nucleus
YHR153C	*SPO16*	nucleus	punctate,nucleus
YJL176C	*SWI3*	nucleus	nucleolus
YDR167W	*TAF10*	nucleus	nucleus
YNL016W	*PUB1*	cytosol	cytosol
YKL101W	*HSL1*	bud neck	bud neck
YDR300C	*PRO1*	cytosol	cytosol
YDR464W	*SPP41*	nucleus	nucleolus
YOR051C	*ETT1*	nucleus	nucleus
YOL097C	*WRS1*	cytosol	cytosol
YOR058C	*ASE1*	punctate	punctate
YJL146W	*IDS2*	nuclear periphery	cytosol
YHR022C-A	*YHR022C-A*	cytosol	cytosol
YBR248C	*HIS7*	cytosol	cytosol
YOR339C	*UBC11*	cytosol	cytosol
YPL272C	*PBI1*	nucleus	cytosol
YOR172W	*YRM1*	nucleus	nucleus
YGL241W	*KAP114*	nucleus	cytosol
YGR180C	*RNR4*	nucleus	missing
YKL162C	*YKL162C*	cytosol	cytosol
YCR073W-A	*SOL2*	cytosol	cytosol
YJR007W	*SUI2*	cytosol	cytosol
YPR031W	*NTO1*	nucleus	nucleus
YJR130C	*STR2*	nucleus	cytosol
YBR275C	*RIF1*	nucleus	punctate,nucleus
YJL154C	*VPS35*	cytosol	cytosol,punctate
YIL137C	*TMA108*	cytosol	cytosol
YJR050W	*ISY1*	nucleus	nucleus
YFR027W	*ECO1*	nucleus	nucleus
YMR084W	*YMR084W*	cytosol	cytosol,punctate

YGL156W	*AMS1*	cytosol	cytosol,punctate
YGL248W	*PDE1*	nuclear periphery	cytosol
YOR020W-A	*MCO10*	cytosol	cytosol
YER045C	*ACA1*	nucleus	nucleus
YLR175W	*CBF5*	nucleus	nucleolus
YOL006C	*TOP1*	nucleus	punctate,nucleus
YPL096W	*PNG1*	cytosol	cytosol,nucleus
YPL194W	*DDC1*	cytosol	nucleus
YJL191W	*RPS14B*	cytosol	cytosol
YER075C	*PTP3*	cytosol	cytosol
YKR083C	*DAD2*	punctate	punctate
YDR368W	*YPR1*	cytosol	cytosol
YDR287W	*INM2*	cytosol	cytosol
YFR014C	*CMK1*	cytosol	cytosol
YML010W	*SPT5*	nucleus	nucleus,nucleolus
YBR276C	*PPS1*	cytosol	cytosol
YGR276C	*RNH70*	nucleus	nucleus
YDR461C-A	*CMI8*	cytosol	cytosol
YKL023W	*SKA1*	cytosol	cytosol
YPR041W	*TIF5*	cytosol	cytosol
YBR035C	*PDX3*	cytosol	cytosol
YDL240W	*LRG1*	bud neck,bud	bud,bud neck
YGL195W	*GCN1*	cytosol	cytosol
YJR093C	*FIP1*	cytosol	nucleus,nucleolus
YLR146W-A	*YLR146W-A*	cytosol	cytosol,punctate
YAR014C	*BUD14*	cytosol	bud
YDL101C	*DUN1*	nucleus	nucleus
YJL056C	*ZAP1*	nucleus	nucleus
YBL056W	*PTC3*	cytosol	cytosol
YPL134C	*ODC1*	mitochondria	mitochondria
YPL046C	*ELC1*	nucleus	cytosol,nucleus
YJL047C	*RTT101*	nucleus	cytosol
YLR438C-A	*LSM3*	cytosol	cytosol,nucleus
YHR068W	*DYS1*	cytosol	cytosol
YPL207W	*TYW1*	cell periphery,ER,punctate	cell periphery,ER
YPL146C	*NOP53*	nucleus	nucleus,nucleolus
YEL003W	*GIM4*	cytosol	cytosol
YMR289W	*ABZ2*	cytosol	cytosol
YDL160C	*DHH1*	cytosol	cytosol
YOR264W	*DSE3*	bud	cytosol,bud
YGR170W	*PSD2*	cytosol	cytosol,nucleus
YCL042W	*YCL042W*	cytosol	mitochondria
YHR022C	*YHR022C*	cytosol	cytosol
YMR061W	*RNA14*	nucleus	nucleus,nucleolus
YLR073C	*RFU1*	cytosol	punctate
YOR355W	*GDS1*	cytosol	nucleus
YMR224C	*MRE11*	cytosol	cytosol

YER066W	*RRT13*	cytosol	cytosol,punctate,nucleus
YHR074W	*QNS1*	cytosol	cytosol
YPL242C	*IQG1*	bud neck	bud neck
YNR074C	*AIF1*	cytosol	ER
YJR115W	*YJR115W*	cytosol	cytosol
YOL077C	*BRX1*	nucleus	nucleolus
YIL026C	*IRR1*	nucleus	nucleus
YOR238W	*YOR238W*	cytosol	cytosol
YAR023C	*DFP1*	cytosol	#N/A
YDR162C	*NBP2*	cytosol	cytosol
YGL154C	*LYS5*	cytosol	cytosol
YJL149W	*DAS1*	cytosol	cytosol
YDR214W	*AHA1*	cytosol	cytosol
YOL123W	*HRP1*	nucleus	nucleus
YDR353W	*TRR1*	cytosol	cytosol
YBR267W	*REI1*	cytosol	cytosol
YDR043C	*NRG1*	nucleus	nucleus,nucleolus
YDR254W	*CHL4*	punctate	#N/A
YDR035W	*ARO3*	nucleus	nucleus
YGL101W	*YGK1*	cytosol	cytosol
YLR014C	*PPR1*	cytosol	cytosol,nucleus
YPL038W-A	*YPL038W-A*	cytosol	#N/A
YOR083W	*WHI5*	nucleus	cytosol,nucleus
YML100W	*TSL1*	cytosol	cytosol
YDR074W	*TPS2*	cytosol	cytosol
YPL012W	*RRP12*	nucleus	nucleolus
YDR428C	*BNA7*	cytosol	cytosol
YOL043C	*NTG2*	cytosol	nucleus
YER175W-A	*YER175W-A*	cytosol	#N/A
YER180C	*ISC10*	cytosol	cytosol,punctate
YIL146C	*ATG32*	mitochondria	mitochondria
YBR019C	*GAL10*	cytosol	cytosol
YCR099C	*YCR099C*	nucleus	cytosol,nucleus
YDL087C	*LUC7*	nucleus	cytosol,nucleus
YNL078W	*NIS1*	cytosol	cytosol,bud neck
YDR293C	*SSD1*	cytosol	cytosol
YMR255W	*GFD1*	cytosol	cytosol
YNL308C	*KRI1*	nucleus	nucleolus
YPR016C	*TIF6*	nucleus	punctate,nucleus
YBR250W	*SPO23*	cytosol	cytosol
YEL044W	*IES6*	nucleus	punctate,nucleus
YGR135W	*PRE9*	punctate	cytosol,nucleus
YLR363W-A	*YLR363W-A*	nucleus	nucleus,nucleolus
YOL005C	*RPB11*	nucleus	nucleus
YGL019W	*CKB1*	nucleus	cytosol,nucleus
YOL069W	*NUF2*	punctate	cytosol,punctate
YGR090W	*UTP22*	nucleus	nucleus,nucleolus

YPL255W	*BBP1*	punctate	punctate
YER099C	*PRS2*	cytosol	cytosol
YER040W	*GLN3*	cytosol	cytosol,nucleus
YMR229C	*RRP5*	nucleus	nucleus,nucleolus
YGR287C	*IMA1*	cytosol	cytosol
YFR045W	*MRX20*	cytosol	#N/A
YOR381W-A	*YOR381W-A*	cytosol	cytosol
YIL153W	*RRD1*	cytosol	cytosol
YLR117C	*CLF1*	nucleus	nucleus
YDR273W	*DON1*	cytosol	cytosol
YNL265C	*IST1*	cytosol	cytosol
YLR174W	*IDP2*	cytosol	cytosol
YIL135C	*VHS2*	cytosol	cytosol
YMR321C	*YMR321C*	cytosol	cytosol,nucleus
YCL054W	*SPB1*	nucleus	nucleus,nucleolus
YHR200W	*RPN10*	nucleus	cytosol
YDR499W	*LCD1*	cytosol	punctate
YDL051W	*LHP1*	nucleus	nucleus
YDL167C	*NRP1*	cytosol	cytosol
YMR190C	*SGS1*	nucleus	punctate,nucleus
YDR419W	*RAD30*	nucleus	nucleus
YDR051C	*DET1*	cytosol	cytosol
YNL282W	*POP3*	cytosol	nucleus
YBR030W	*RKM3*	nucleus	nucleus
YOR224C	*RPB8*	nucleus	nucleus,nucleolus
YJL047C-A	*YJL047C-A*	cytosol	nucleus
YKL053C-A	*MDM35*	cytosol	cytosol
YML106W	*URA5*	cytosol	missing
YJL070C	*YJL070C*	cytosol	cytosol
YPL119C	*DBP1*	cytosol	cytosol
YOL145C	*CTR9*	nucleus	nucleus,nucleolus
YPR015C	*YPR015C*	nucleus	nucleus,nucleolus
YIL046W	*MET30*	nucleus	nucleus
YLR132C	*USB1*	cytosol	cytosol,nucleus
YGR186W	*TFG1*	nucleus	nucleus
YKL081W	*TEF4*	cytosol	cytosol
YOR351C	*MEK1*	nucleus	nucleus
YNL164C	*IBD2*	cytosol	cytosol
YLR028C	*ADE16*	cytosol	cytosol
YPR083W	*MDM36*	punctate,cell periphery	punctate
YDR395W	*SXM1*	nucleus	nucleus,nuclear periphery
YIL072W	*HOP1*	nucleus	nucleus
YJL127C	*SPT10*	nucleus	nucleus
YCR087C-A	*YCR087C-A*	nucleus	nucleolus
YEL019C	*MMS21*	cytosol	cytosol
YJR021C	*REC107*	nucleus	missing
YDR441C	*APT2*	cytosol	missing

YDR422C	*SIP1*	cytosol	cytosol
YOR363C	*PIP2*	nucleus	nucleus
YPL074W	*YTA6*	cytosol	cytosol
YHL001W	*RPL14B*	cytosol	cytosol
YHR001W-A	*QCR10*	cytosol	cytosol
YMR150C	*IMP1*	nucleus	cytosol,punctate
YOR025W	*HST3*	cytosol	cytosol,nucleus
YBL026W	*LSM2*	cytosol	cytosol
YGR283C	*UPA1*	nucleus	nucleus,nucleolus
YHR102W	*KIC1*	cytosol	cytosol
YDR489W	*SLD5*	cytosol	cytosol,nucleus
YIL050W	*PCL7*	cytosol	cytosol
YHL013C	*OTU2*	cytosol	cytosol
YIR009W	*MSL1*	nucleus	nucleus
YEL038W	*UTR4*	cytosol	cytosol
YBL057C	*PTH2*	cytosol	cytosol,nucleus
YAL062W	*GDH3*	cytosol	cytosol
YDR390C	*UBA2*	nucleus	nucleus
YLR180W	*SAM1*	cytosol	cytosol
YIL083C	*CAB2*	cytosol	cytosol
YML026C	*RPS18B*	cytosol	cytosol,bud
YGR273C	*YGR273C*	punctate,bud	punctate,bud
YCR088W	*ABP1*	cytosol	Blank
YHR172W	*SPC97*	nucleus	cytosol,punctate
YLR390W	*ECM19*	cytosol	cytosol,nucleus
YOR188W	*MSB1*	bud,bud neck	bud
YKR017C	*HEL1*	cytosol	cytosol
YDR009W	*GAL3*	cytosol	cytosol
YDR202C	*RAV2*	cytosol	cytosol,punctate
YGR204C-A	*YGR204C-A*	cytosol	#N/A
YNL128W	*TEP1*	cytosol	cytosol
YBR119W	*MUD1*	nucleus	cytosol,nucleus
YGR028W	*MSP1*	cytosol	Blank
YIL107C	*PFK26*	cytosol	cytosol
YMR069W	*NAT4*	nucleus	nucleus
YOR129C	*AFI1*	cell periphery	cell periphery,nucleus
YDR117C	*TMA64*	cytosol	cytosol
YIL007C	*NAS2*	cytosol	cytosol
YMR127C	*SAS2*	nucleus	nucleus
YGR210C	*YGR210C*	cytosol	cytosol
YOL144W	*NOP8*	nucleus	nucleus,nucleolus
YHR191C	*CTF8*	cytosol	cytosol,nucleus
YPL071C	*YPL071C*	cytosol	cytosol,nucleus
YDR085C	*AFR1*	nucleus	punctate,bud neck
YDR252W	*BTT1*	nucleus	nucleus
YLR011W	*LOT6*	cytosol	cytosol
YIR023W	*DAL81*	nucleus	punctate,nucleus

YNL311C	*SKP2*	cytosol	cytosol
YPR108W-A	*YPR108W-A*	cytosol	#N/A
YDL098C	*SNU23*	nucleus	nucleus
YGR003W	*CUL3*	nucleus	cytosol,nucleus
YKR091W	*SRL3*	cytosol	cytosol,nucleus
YMR126C	*DLT1*	cytosol	ER,vacuole
YCL032W	*STE50*	cytosol	cytosol
YLR245C	*CDD1*	cytosol	cytosol
YNL200C	*NNR1*	cytosol	cytosol
YLR051C	*FCF2*	nucleus	nucleolus
YLR107W	*REX3*	nucleus	nucleus
YER117W	*RPL23B*	cytosol	cytosol
YML053C	*YML053C*	nucleus	nucleus
YPR007C	*REC8*	cytosol	punctate,nucleus
YDR457W	*TOM1*	cytosol	cytosol
YHR006W	*STP2*	cytosol	#N/A
YKR095W-A	*PCC1*	nucleus	cytosol
YOL142W	*RRP40*	nucleus	nucleus
YPR115W	*RGC1*	cytosol	cytosol
YDL109C	*YDL109C*	cytosol	cytosol
YOR038C	*HIR2*	nucleus	nucleus
YDR257C	*RKM4*	nucleus	nucleus
YAR007C	*RFA1*	nucleus	punctate,nucleus
YBL043W	*ECM13*	cytosol	cytosol
YLR386W	*VAC14*	punctate	mitochondria
YIR002C	*MPH1*	nucleus	punctate,nucleus
YPL122C	*TFB2*	nucleus	nucleus
YGR098C	*ESP1*	cytosol	cytosol,punctate
YDR014W-A	*HED1*	cytosol	cytosol
YDR063W	*AIM7*	nucleus	cytosol,punctate
YHR205W	*SCH9*	cytosol	cytosol,vacuole membrane
YOL093W	*TRM10*	nucleus	nucleus
YOR315W	*SFG1*	nucleus	#N/A
YNR032C-A	*HUB1*	cytosol	cytosol
YKL126W	*YPK1*	cytosol	cytosol
YKL191W	*DPH2*	cytosol	cytosol
YLR247C	*IRC20*	nucleus	nucleus
YOR293C-A	*YOR293C-A*	cytosol	cytosol,nucleus
YBR145W	*ADH5*	cytosol	cytosol
YDR473C	*PRP3*	nucleus	nucleus
YGR188C	*BUB1*	nucleus	punctate,nucleus
YNL182C	*IPI3*	nucleus	nucleus
YPL095C	*EEB1*	cytosol	cytosol
YLR409C	*UTP21*	nucleus	nucleolus
YOL032W	*OPI10*	cytosol	cytosol
YGR127W	*YGR127W*	cytosol	cytosol,punctate
YGL256W	*ADH4*	cytosol	cytosol

YJL126W	*NIT2*	nucleus	cytosol
YGL170C	*SPO74*	cytosol	cytosol
YIL115C	*NUP159*	nuclear periphery	cytosol,nuclear periphery
YDL117W	*CYK3*	cytosol	bud neck
YKL079W	*SMY1*	cytosol	cytosol,punctate
YGL004C	*RPN14*	cytosol	cytosol
YBR063C	*CNM1*	cytosol	#N/A
YBR142W	*MAK5*	nucleus	nucleus,nucleolus
YJL141C	*YAK1*	cytosol	cytosol,punctate
YOL057W	*YOL057W*	cytosol	cytosol
YLR153C	*ACS2*	nucleus	nucleus
YGL026C	*TRP5*	cytosol	cytosol
YDL064W	*UBC9*	nucleus	nucleus
YOR280C	*FSH3*	cytosol	cytosol,punctate
YNL328C	*MDJ2*	cytosol	#N/A
YJL153C	*INO1*	cytosol	cytosol
YOL038W	*PRE6*	cytosol	nucleus
YLR096W	*KIN2*	cytosol	cytosol
YOR141C	*ARP8*	nucleus	nucleus
YPL273W	*SAM4*	cytosol	cytosol
YNL277W	*MET2*	cytosol	cytosol
YMR036C	*MIH1*	cytosol	#N/A
YHR136C	*SPL2*	cytosol	#N/A
YBR055C	*PRP6*	nucleus	nucleus
YOR138C	*RUP1*	nucleus	cytosol
YBR192W	*RIM2*	cytosol	mitochondria
YGR257C	*MTM1*	cytosol	#N/A
YDR025W	*RPS11A*	cytosol	cytosol
YHL012W	*YHL012W*	cytosol	cytosol,punctate
YIR005W	*IST3*	cytosol	cytosol,nucleus
YDL086W	*YDL086W*	cytosol	cytosol
YMR158C-A	*YMR158C-A*	cytosol	cytosol
YMR269W	*TMA23*	nucleus	nucleolus
YJL162C	*JJJ2*	nucleus,punctate	punctate,nucleus
YOR278W	*HEM4*	cytosol	cytosol
YDL031W	*DBP10*	nucleus	nucleus,nucleolus
YFL009W	*CDC4*	nucleus	nucleus
YDR540C	*IRC4*	nucleus	nucleus
YBR280C	*SAF1*	cytosol	cytosol
YGL112C	*TAF6*	nucleus	nucleolus
YMR182C	*RGM1*	nucleus	cytosol,nucleus
YPL116W	*HOS3*	cytosol	cytosol,bud neck
YDL063C	*SYO1*	nucleus	cytosol
YGL066W	*SGF73*	nucleus	nucleus
YER172C	*BRR2*	nucleus	nucleus
YNR057C	*BIO4*	cytosol	cytosol
YMR195W	*ICY1*	cytosol	cytosol

YDR340W	*YDR340W*	cytosol	#N/A
YCL057C-A	*MIC10*	mitochondria	mitochondria
YCR097W	*HMRA1*	cytosol	cytosol,nucleus
YHR042W	*NCP1*	cytosol	cytosol
YGR093W	*DRN1*	nucleus	nucleus
YAL061W	*BDH2*	cytosol	cytosol
YPL061W	*ALD6*	cytosol	cytosol
YDR182W-A	*YDR182W-A*	cytosol	cytosol,punctate,nucleus
YCR008W	*SAT4*	cytosol	cytosol
YMR033W	*ARP9*	nucleus	nucleus
YHR122W	*CIA2*	cytosol	cytosol
YGL073W	*HSF1*	nucleus	nucleolus
YOR144C	*ELG1*	nucleus	nucleus
YKL011C	*CCE1*	cytosol	cytosol
YPR122W	*AXL1*	punctate	bud neck
YER162C	*RAD4*	nucleus	nucleus
YBR240C	*THI2*	nucleus	nucleus
YNR071C	*YNR071C*	cytosol	cytosol
YDR152W	*GIR2*	cytosol	cytosol
YJL068C	*YJL068C*	cytosol	cytosol
YOL063C	*CRT10*	cytosol	cytosol
YPR052C	*NHP6A*	cytosol	nucleus
YPL052W	*OAZ1*	cytosol	cytosol
YOR385W	*YOR385W*	nucleus	cytosol
YBL079W	*NUP170*	punctate	punctate,nuclear periphery
YBL018C	*POP8*	cytosol	cytosol,nucleus
YOR279C	*RFM1*	nucleus	nucleus
YIL021W	*RPB3*	nucleus	nucleus
YPL151C	*PRP46*	nucleus	cytosol,nucleus
YER111C	*SWI4*	nucleus	nucleus
YIL008W	*URM1*	cytosol	cytosol
YKR011C	*FPT1*	nucleus	cytosol,nucleus
YDR272W	*GLO2*	cytosol	cytosol
YMR117C	*SPC24*	punctate	punctate
YCR060W	*TAH1*	cytosol	cytosol
YNL152W	*INN1*	cytosol	cytosol,bud neck
YOL041C	*NOP12*	nucleus	nucleolus
YDR078C	*SHU2*	nucleus,punctate	#N/A
YDR369C	*XRS2*	nucleus	nucleus
YPL222C-A	*YPL222C-A*	cytosol	#N/A
YNR023W	*SNF12*	nucleus	nucleus
YGR187C	*HGH1*	cytosol	cytosol
YDR315C	*IPK1*	cytosol	cytosol
YGL144C	*ROG1*	cytosol	cytosol
YOR290C	*SNF2*	nucleus	nucleus
YPR045C	*THP3*	nucleus	cytosol,nucleus
YMR169C	*ALD3*	cytosol	cytosol

YFL017C	*GNA1*	cytosol	cytosol
YAL060W	*BDH1*	cytosol	cytosol
YBR133C	*HSL7*	bud neck	bud
YKL070W	*YKL070W*	cytosol	cytosol,punctate
YBL085W	*BOI1*	cytosol	bud neck
YKR090W	*PXL1*	bud	bud
YFL008W	*SMC1*	nucleus	cytosol,nucleus
YMR128W	*ECM16*	nucleus	nucleus,nucleolus
YDR516C	*EMI2*	cytosol	cytosol
YIL104C	*SHQ1*	nucleus	nucleus
YER101C	*AST2*	punctate	cytosol,punctate
YJL136C	*RPS21B*	cytosol	cytosol
YJL124C	*LSM1*	cytosol	cytosol
YKR037C	*SPC34*	nucleus,punctate	punctate
YIR036C	*IRC24*	cytosol	cytosol
YLR131C	*ACE2*	nucleus	cytosol,nucleus
YJL206C	*YJL206C*	nucleus	nucleus
YNL151C	*RPC31*	nucleus	nucleus
YDL030W	*PRP9*	nucleus	nucleus
YDR138W	*HPR1*	nucleus	nucleus
YDL207W	*GLE1*	cytosol	cytosol
YDL176W	*GID12*	nucleus	nucleus
YDR429C	*TIF35*	cytosol	cytosol
YFR002W	*NIC96*	nucleus	punctate,nuclear periphery
YHL023C	*NPR3*	cytosol	cytosol,punctate
YJR035W	*RAD26*	nucleus	nucleus
YFL049W	*SWP82*	nucleus	nucleus
YBR136W	*MEC1*	cytosol	cytosol
YMR106C	*YKU80*	cytosol	Blank
YJR024C	*MDE1*	cytosol	cytosol
YNL112W	*DBP2*	nucleus	nucleus
YJR089W	*BIR1*	nucleus	nucleus,nucleolus
YOR389W	*YOR389W*	cytosol	ER
YNL199C	*GCR2*	nucleus	nucleus
YPL027W	*SMA1*	nucleus	cytosol,nucleus
YBR085W	*AAC3*	mitochondria	mitochondria
YDL007C-A	*YDL007C-A*	cytosol	ER
YLL057C	*JLP1*	cytosol	Blank
YDR139C	*RUB1*	cytosol	cytosol
YHL024W	*RIM4*	cytosol	cytosol
YCR031C	*RPS14A*	cytosol	missing
YBL025W	*RRN10*	cytosol	#N/A
YDR106W	*ARP10*	cytosol	#N/A
YOR095C	*RKI1*	cytosol	cytosol
YMR170C	*ALD2*	cytosol	cytosol
YOR294W	*RRS1*	nucleus	nucleus
YBL084C	*CDC27*	nucleus	punctate,nucleus

YIL112W	*HOS4*	nucleus	cytosol,nucleus
YPR018W	*RLF2*	nucleus	nucleus
YLR270W	*DCS1*	cytosol	cytosol
YOL098C	*SDD3*	cytosol	cytosol
YDR052C	*DBF4*	nucleus	cytosol,nucleus
YHR085W	*IPI1*	nucleus	nucleus
YOR316C-A	*YOR316C-A*	nucleus	cytosol,nucleus
YFR047C	*BNA6*	cytosol	cytosol
YJR083C	*ACF4*	cytosol	cytosol,bud neck
YMR262W	*YMR262W*	cytosol	cytosol
YOR057W	*SGT1*	cytosol	cytosol
YNL094W	*APP1*	punctate,bud	punctate,bud
YDL189W	*RBS1*	punctate	cytosol,punctate
YOL054W	*PSH1*	nucleus	nucleus
YOR001W	*RRP6*	nucleus	nucleus
YMR227C	*TAF7*	nucleus	nucleus
YDR295C	*HDA2*	nucleus	nucleus
YPR084W	*YPR084W*	cytosol	cytosol
YER027C	*GAL83*	cytosol	cytosol
YPL054W	*LEE1*	cytosol	cytosol
YDR531W	*CAB1*	cytosol	cytosol
YNL286W	*CUS2*	nucleus	nucleus
YOR167C	*RPS28A*	cytosol	cytosol
YFR052W	*RPN12*	nucleus	nucleolus
YGR232W	*NAS6*	cytosol	cytosol
YBR289W	*SNF5*	nucleus	nucleolus
YPL124W	*SPC29*	punctate	punctate,nucleus
YBR066C	*NRG2*	nucleus	nucleolus
YJL148W	*RPA34*	nucleus	nucleolus
YJR046W	*TAH11*	nucleus	nucleus
YJL179W	*PFD1*	cytosol	cytosol
YCL061C	*MRC1*	nucleus	nucleus
YNL220W	*ADE12*	cytosol	cytosol
YNL316C	*PHA2*	cytosol	cytosol
YLR141W	*RRN5*	nucleus	nucleus,nucleolus
YOR056C	*NOB1*	cytosol	cytosol
YJR119C	*JHD2*	nucleus	nucleus
YPL105C	*SYH1*	cytosol	cytosol
YKL032C	*IXR1*	cytosol	nucleus
YDR096W	*GIS1*	punctate	Blank
YDL190C	*UFD2*	cytosol	cytosol
YHR137W	*ARO9*	cytosol	cytosol
YML074C	*FPR3*	nucleus	nucleolus
YLR347C	*KAP95*	nucleus	cytosol,punctate,nuclear periphery
YOR342C	*YOR342C*	cytosol	nucleus
YBR140C	*IRA1*	cytosol	cytosol,punctate
YLR215C	*CDC123*	cytosol	cytosol

YGL253W	*HXK2*	cytosol	cytosol
YJL066C	*MPM1*	cytosol	cytosol
YGL258W-A	*YGL258W-A*	cytosol	cytosol,punctate
YKR008W	*RSC4*	nucleus	nucleus,nucleolus
YOR066W	*MSA1*	nucleus	cytosol,nucleus
YIR001C	*SGN1*	cytosol	cytosol
YOR007C	*SGT2*	cytosol	cytosol
YOR014W	*RTS1*	cytosol	cytosol
YDR444W	*YDR444W*	cytosol	cytosol,punctate
YKL005C	*BYE1*	nucleus	nucleus
YJL137C	*GLG2*	cytosol	cytosol
YNL059C	*ARP5*	nucleus	nucleus
YLR425W	*TUS1*	cytosol	cytosol
YOR304W	*ISW2*	nucleus	nucleus
YPR048W	*TAH18*	cytosol	cytosol
YPL039W	*YPL039W*	cytosol	nucleus
YGL176C	*YGL176C*	nucleus	nucleus
YIL034C	*CAP2*	punctate	cytosol,punctate,bud
YLR071C	*RGR1*	nucleus,punctate	cytosol,punctate,nucleus
YLL060C	*GTT2*	cytosol	cytosol
YMR104C	*YPK2*	cytosol	cytosol
YFL028C	*CAF16*	cytosol	cytosol
YDL115C	*IWR1*	cytosol	cytosol
YGL062W	*PYC1*	cytosol	cytosol
YPR097W	*LEC1*	bud	punctate,bud
YBR169C	*SSE2*	cytosol	cytosol
YDR004W	*RAD57*	nucleus	nucleus
YOR177C	*MPC54*	cytosol	cytosol
YBR253W	*SRB6*	cytosol	cytosol,nucleus
YKR099W	*BAS1*	nucleus	nucleus
YGR195W	*SKI6*	nucleus	nucleus,nucleolus
YLR427W	*MAG2*	cytosol	cytosol
YDL114W	*YDL114W*	nucleus	#N/A
YPL030W	*TRM44*	cytosol	cytosol
YLR179C	*YLR179C*	cytosol	cytosol
YPL086C	*ELP3*	cytosol	cytosol,punctate
YBR033W	*EDS1*	nucleus	nucleus
YIL078W	*THS1*	cytosol	cytosol
YJR095W	*SFC1*	mitochondria	mitochondria
YGL171W	*ROK1*	nucleus	nucleus,nucleolus
YLL002W	*RTT109*	nucleus	nucleus
YJL208C	*NUC1*	cytosol	cytosol
YOR110W	*TFC7*	cytosol	cytosol
YIL130W	*ASG1*	nucleus	nucleus
YBR007C	*DSF2*	cytosol	cytosol
YGL196W	*DSD1*	cytosol	cytosol
YJR062C	*NTA1*	cytosol	cytosol,nucleus

YMR235C	*RNA1*	cytosol	cytosol
YGL087C	*MMS2*	cytosol	cytosol
YMR135C	*GID8*	cytosol	cytosol
YER110C	*KAP123*	nucleus	nucleus
YDL243C	*AAD4*	nucleus	cytosol,nucleus
YBL091C	*MAP2*	cytosol	cytosol
YKR081C	*RPF2*	nucleus	punctate,nucleus
YOR126C	*IAH1*	cytosol	cytosol
YDL168W	*SFA1*	cytosol	cytosol
YGL120C	*PRP43*	nucleus	nucleus,nucleolus
YMR094W	*CTF13*	nucleus	cytosol,nucleus
YGL013C	*PDR1*	cytosol	nucleus
YNR009W	*NRM1*	nucleus	nucleus
YOR304C-A	*BIL1*	cytosol	cytosol
YCR050C	*YCR050C*	cytosol	#N/A
YDL083C	*RPS16B*	cytosol	cytosol
YNL153C	*GIM3*	cytosol	cytosol
YOL108C	*INO4*	nucleus	nucleus
YPR116W	*RRG8*	cytosol	cytosol
YOL125W	*TRM13*	nucleus	nucleus
YDL153C	*SAS10*	nucleus	nucleus,nucleolus
YER149C	*PEA2*	bud	bud
YLR186W	*EMG1*	nucleus	nucleus,nucleolus
YML086C	*ALO1*	mitochondria	mitochondria
YNL072W	*RNH201*	nucleus	nucleus
YBR257W	*POP4*	nucleus	nucleus
YKL048C	*ELM1*	bud neck	bud neck
YER179W	*DMC1*	nucleus	cytosol,nucleus
YNR010W	*CSE2*	cytosol	cytosol,nucleus
YBR291C	*CTP1*	nucleus	mitochondria
YOR123C	*LEO1*	nucleus	nucleus
YAR003W	*SWD1*	nucleus	nucleus
YHR058C	*MED6*	nucleus	cytosol,nucleus
YDR206W	*EBS1*	cytosol	cytosol
YER043C	*SAH1*	cytosol	cytosol
YMR001C	*CDC5*	nucleus	punctate,nucleus
YPR106W	*ISR1*	nucleus	cytosol,nucleus
YCR077C	*PAT1*	cytosol	cytosol,nucleus
YOR340C	*RPA43*	nucleus	nucleus,nucleolus
YLR267W	*BOP2*	cytosol	cytosol
YKR002W	*PAP1*	nucleus	nucleus
YLR012C	*YLR012C*	cytosol	cytosol
YMR112C	*MED11*	cytosol	cytosol,nucleus
YLR454W	*FMP27*	punctate,bud	punctate
YMR076C	*PDS5*	nucleus	nucleus
YPL183C	*RTT10*	cytosol	cytosol
YDR440W	*DOT1*	nucleus	punctate,nucleus

YGR222W	*PET54*	nucleus	cytosol,nucleus
YDL220C	*CDC13*	nucleus	nucleus
YAL037W	*YAL037W*	nucleus	nucleus
YOL001W	*PHO80*	nucleus	nucleus
YJL115W	*ASF1*	nucleus	nucleus
YIL056W	*VHR1*	nucleus	punctate,nucleus
YDR488C	*PAC11*	cytosol	cytosol
YOR250C	*CLP1*	cytosol	cytosol,nucleus
YDR242W	*AMD2*	cytosol	cytosol
YOL139C	*CDC33*	cytosol	cytosol
YPR046W	*MCM16*	cytosol	cytosol,punctate
YPL190C	*NAB3*	nucleus	nucleus
YFR031C	*SMC2*	cytosol	cytosol,punctate
YPL055C	*LGE1*	nucleus	nucleus
YLR225C	*YLR225C*	cytosol	cytosol
YAL056W	*GPB2*	cytosol	cytosol,punctate
YML022W	*APT1*	cytosol	cytosol
YER037W	*PHM8*	cytosol	cytosol
YKL009W	*MRT4*	nucleus	nucleus,nucleolus
YNR047W	*FPK1*	cytosol	cytosol,punctate
YDL218W	*YDL218W*	cell periphery	cell periphery
YER023W	*PRO3*	cytosol	cytosol
YMR294W	*JNM1*	cytosol	cytosol
YKR080W	*MTD1*	cytosol	cytosol
YOR195W	*SLK19*	nucleus,punctate	punctate,nucleus
YCL011C	*GBP2*	nucleus	nucleus
YLR418C	*CDC73*	nucleus	nucleus,nucleolus
YHR018C	*ARG4*	cytosol	cytosol
YNL313C	*EMW1*	nucleus	cytosol,nucleus
YLR351C	*NIT3*	cytosol	cytosol
YLR348C	*DIC1*	mitochondria	mitochondria
YLR315W	*NKP2*	punctate	cytosol,punctate
YPL011C	*TAF3*	nucleus	nucleus
YML014W	*TRM9*	cytosol	#N/A
YML076C	*WAR1*	nucleus	nucleus
YBL029C-A	*YBL029C-A*	cell periphery	cell periphery
YGR181W	*TIM13*	cytosol	cytosol
YML023C	*NSE5*	cytosol	cytosol,nucleus
YER003C	*PMI40*	cytosol	cytosol
YGL237C	*HAP2*	nucleus	nucleus
YKR060W	*UTP30*	nucleus	nucleus,nucleolus
YNR064C	*YNR064C*	cytosol	cytosol
YLR410W	*VIP1*	cytosol	cytosol
YOR163W	*DDP1*	cytosol	cytosol
YDL132W	*CDC53*	nucleus	cytosol,nucleus
YLR420W	*URA4*	cytosol	cytosol
YER164W	*CHD1*	nucleus	nucleus,nucleolus

YPL106C	*SSE1*	cytosol	cytosol
YMR092C	*AIP1*	nucleus,punctate	cytosol,punctate
YOR052C	*TMC1*	nucleus	nucleus
YOR033C	*EXO1*	nucleus	nucleus
YDR416W	*SYF1*	nucleus	nucleus
YLR116W	*MSL5*	cytosol	nucleus
YDL205C	*HEM3*	cytosol	cytosol
YEL037C	*RAD23*	nucleus	cytosol,nucleolus
YKR098C	*UBP11*	mitochondria	mitochondria
YGL207W	*SPT16*	nucleus	#N/A
YJR055W	*HIT1*	nucleus	cytosol,nucleus
YCR072C	*RSA4*	nucleus	nucleus
YDL227C	*HO*	nucleus	punctate,nucleus
YPL022W	*RAD1*	nucleus	nucleus
YGL158W	*RCK1*	cytosol	cytosol
YMR099C	*YMR099C*	cytosol	cytosol
YLL045C	*RPL8B*	cytosol	cytosol
YPL248C	*GAL4*	cytosol	punctate,nucleus
YOR080W	*DIA2*	nucleus	nucleus
YEL005C	*VAB2*	vacuole membrane	vacuole membrane
YKL108W	*SLD2*	nucleus	nucleus,nucleolus
YFR010W	*UBP6*	nucleus	nucleus,nucleolus
YDL124W	*YDL124W*	cytosol	cytosol
YKL166C	*TPK3*	cytosol	cytosol,nucleus
YML116W-A	*YML116W-A*	cytosol	#N/A
YPL007C	*TFC8*	nucleus	cytosol,nucleus
YML065W	*ORC1*	cytosol	nucleus
YIL151C	*ESL1*	nucleus	punctate,nucleus
YIL103W	*DPH1*	cytosol	cytosol
YPL113C	*YPL113C*	cytosol	cytosol
YML002W	*VRL1*	cytosol	cytosol
YPL214C	*THI6*	cytosol	cytosol
YLR006C	*SSK1*	cytosol	cytosol
YNL147W	*LSM7*	cytosol	cytosol
YPL138C	*SPP1*	nucleus	nucleus
YDR042C	*YDR042C*	mitochondria	mitochondria
YPR133C	*SPN1*	nucleus	nucleus,nucleolus
YML094W	*GIM5*	cytosol	cytosol
YDL215C	*GDH2*	cytosol	cytosol
YNL253W	*TEX1*	nucleus	nucleus
YBL029W	*YBL029W*	nucleus	nucleus
YDL224C	*WHI4*	cytosol	cytosol
YFR034C	*PHO4*	cytosol	cytosol,nucleus
YKL014C	*URB1*	nucleus	nucleus,nucleolus
YML093W	*UTP14*	nucleus	nucleus,nucleolus
YBR221W-A	*YBR221W-A*	nucleus	cytosol
YGL249W	*ZIP2*	nucleus	punctate,nucleus

YLR407W	*GAG1*	nucleus	cell periphery
YAL036C	*RBG1*	cytosol	cytosol,punctate
YDR266C	*HEL2*	cytosol	cytosol
YNL014W	*HEF3*	cytosol	cytosol
YPL152W-A	*YPL152W-A*	cytosol	#N/A
YJR069C	*HAM1*	cytosol	cytosol
YCR066W	*RAD18*	nucleus	nucleus
YGL033W	*HOP2*	nucleus	cytosol
YIL077C	*RCI37*	cytosol	mitochondria
YDR066C	*RTR2*	cytosol	cytosol
YGL151W	*NUT1*	nucleus	cytosol,nucleus
YLL034C	*RIX7*	nucleus	nucleus
YLR103C	*CDC45*	nucleus	nucleus
YER013W	*PRP22*	nucleus	nucleus
YNR003C	*RPC34*	nucleus	nucleus
YGR271W	*SLH1*	cytosol	cytosol
YOR159C	*SME1*	nucleus	nucleus,nucleolus
YER032W	*FIR1*	bud,bud neck	bud neck
YKR024C	*DBP7*	nucleus	nucleolus,nuclear periphery
YOR166C	*SWT1*	cytosol	cytosol
YGR196C	*FYV8*	cytosol	cytosol,bud
YPR093C	*ASR1*	cytosol	cytosol
YOR174W	*MED4*	cytosol	cytosol,nucleus
YGR249W	*MGA1*	cytosol	cytosol,nucleus
YJR010W	*MET3*	cytosol	cytosol
YDR510W	*SMT3*	nucleus	nucleus,nucleolus
YMR113W	*FOL3*	cytosol	cytosol
YBR061C	*TRM7*	cytosol	cytosol
YNL236W	*SIN4*	nucleus	cytosol,nucleus
YBR228W	*SLX1*	nucleus	nucleus
YBR083W	*TEC1*	nucleus	cytosol,nucleus
YGR205W	*TDA10*	cytosol	cytosol
YKR082W	*NUP133*	nuclear periphery	nuclear periphery
YER105C	*NUP157*	nucleus	punctate,nuclear periphery
YPR068C	*HOS1*	nucleus	cytosol,nucleus
YBR098W	*MMS4*	nucleus	nucleus
YGR008C	*STF2*	cytosol	cytosol
YMR288W	*HSH155*	nucleus	punctate,nucleus
YAR015W	*ADE1*	cytosol	cytosol
YEL032W	*MCM3*	cytosol	cytosol,nucleus
YIL128W	*MET18*	cytosol	cytosol
YBL074C	*AAR2*	cytosol	cytosol,nucleus
YDR280W	*RRP45*	nucleus	nucleus
YJL190C	*RPS22A*	nucleus	cytosol
YEL059C-A	*SOM1*	cytosol	cytosol
YNL122C	*MRP35*	nucleus	nucleus
YBL008W	*HIR1*	nucleus	punctate,nucleus

YNL050C	*YNL050C*	cytosol	cytosol,nucleolus
YDL140C	*RPO21*	nucleus	nucleolus
YGR268C	*HUA1*	nucleus	punctate,nucleus
YJR033C	*RAV1*	cytosol	cytosol
YNL195C	*YNL195C*	cytosol	cytosol
YDR460W	*TFB3*	cytosol	nucleus
YLR455W	*PDP3*	nucleus	nucleus
YNL259C	*ATX1*	nucleus	cytosol
YDR192C	*NUP42*	nucleus,punctate	cytosol,nuclear periphery
YHR115C	*DMA1*	cytosol	cytosol
YDL209C	*CWC2*	nucleus	nucleus
YGL234W	*ADE57*	cytosol	cytosol
YGR136W	*LSB1*	cytosol	cytosol,punctate
YJL121C	*RPE1*	cytosol	cytosol
YJR078W	*BNA2*	cytosol	cytosol
YIL035C	*CKA1*	cytosol	cytosol,nucleus
YFL010C	*WWM1*	cytosol	cytosol,nucleus
YPR070W	*MED1*	nucleus	nucleus
YER175C	*TMT1*	cytosol	cytosol
YLR192C	*HCR1*	cytosol	cytosol
YPL258C	*THI21*	cytosol	cytosol
YBR058C	*UBP14*	nucleus	nucleus
YLR085C	*ARP6*	nucleus	punctate,nucleus
YDR161W	*ACL4*	nucleus	nucleus
YIR026C	*YVH1*	cytosol	cytosol
YML088W	*UFO1*	cytosol	cytosol
YKL193C	*SDS22*	cytosol	cytosol,nucleus
YKR071C	*DRE2*	cytosol	cytosol
YER049W	*TPA1*	nucleus	nucleus
YDR236C	*FMN1*	ER	ER
YGL110C	*CUE3*	cytosol	#N/A
YKR052C	*MRS4*	cytosol	mitochondria
YOL102C	*TPT1*	cytosol	cytosol
YGL224C	*SDT1*	cytosol	cytosol
YFR032C	*RRT5*	nucleus	cytosol,nucleus
YDR392W	*SPT3*	nucleus	nucleus
YDR303C	*RSC3*	nucleus	nucleus
YOR109W	*INP53*	cytosol	cytosol
YLR231C	*BNA5*	cytosol	cytosol
YKR104W	*YKR104W*	cytosol	cytosol
YKR078W	*VPS501*	cytosol	cytosol
YMR199W	*CLN1*	cytosol	cytosol
YOL149W	*DCP1*	cytosol	cytosol
YPR101W	*SNT309*	nucleus	nucleus
YOR140W	*SFL1*	nucleus	nucleus,nucleolus
YGR117C	*YGR117C*	cytosol	cytosol
YHR157W	*REC104*	nucleus	cytosol,nucleus

YEL011W	*GLC3*	cytosol	punctate,cytosol
YIL063C	*YRB2*	nucleus	nucleus
YML003W	*YML003W*	punctate	cytosol
YER152C	*YER152C*	cytosol	cytosol
YGR277C	*CAB4*	cytosol	cytosol
YKL091C	*YKL091C*	nucleus	nucleus
YER165W	*PAB1*	cytosol	cytosol
YAR020C	*PAU7*	cytosol	cytosol
YGR012W	*MCY1*	cytosol	punctate
YML112W	*CTK3*	nucleus	cytosol,nucleus
YHL009C	*YAP3*	nucleus	cytosol,nucleus
YER103W	*SSA4*	punctate	cytosol
YOR132W	*VPS17*	punctate	cytosol,punctate
YMR096W	*SNZ1*	cytosol	cytosol
YGR245C	*SDA1*	nucleus	nucleus,nucleolus
YPL230W	*USV1*	nucleus	nucleus
YHR210C	*YHR210C*	cytosol	cytosol
YNL099C	*OCA1*	cytosol	cytosol
YMR130W	*DPI35*	cytosol	cytosol
YGR042W	*MTE1*	nucleus	nucleus
YMR251W	*GTO3*	cytosol	cytosol
YMR078C	*CTF18*	nucleus	nucleus
YER046W	*SPO73*	cell periphery	cell periphery
YIL159W	*BNR1*	bud neck	punctate,bud neck
YBR242W	*YBR242W*	cytosol	cytosol
YNR058W	*BIO3*	cytosol	cytosol
YBR188C	*NTC20*	cytosol	cytosol
YGR203W	*YCH1*	cytosol	cytosol,nucleus
YOL109W	*ZEO1*	cell periphery,ER	nucleus
YBR195C	*MSI1*	nucleus	cytosol,nucleus
YDR180W	*SCC2*	nucleus	nucleus
YHR129C	*ARP1*	punctate	cytosol
YLR422W	*DCK1*	cytosol	cytosol
YPR108W	*RPN7*	nucleus	cytosol,nucleolus
YKL113C	*RAD27*	nucleus	nucleus
YOR062C	*YOR062C*	cytosol	#N/A
YOR269W	*PAC1*	cytosol	cytosol,nucleus
YOR130C	*ORT1*	cytosol	mitochondria
YGL194C	*HOS2*	nucleus	cytosol,nucleus
YNL133C	*FYV6*	nucleus	nucleus
YGR079W	*YGR079W*	nucleus	#N/A
YAL034W-A	*MTW1*	punctate	cytosol,punctate
YBR239C	*ERT1*	nucleus	punctate,nucleus
YOR295W	*UAF30*	nucleus	cytosol,nucleus
YJL098W	*SAP185*	cytosol	cytosol
YAL059W	*ECM1*	nucleus	nucleus
YPL196W	*OXR1*	cytosol	cytosol

YBR104W	*YMC2*	mitochondria	mitochondria
YGL057C	*GEP7*	cytosol	cytosol,mitochondria
YBL113C	*YBL113C*	nucleus	punctate,nucleus
YCL035C	*GRX1*	cytosol	cytosol
YFR033C	*QCR6*	cytosol	cytosol
YPR196W	*YPR196W*	nucleus	cytosol,nucleus
YNR020C	*ATP23*	cytosol	cytosol,nucleus
YGL221C	*NIF3*	cytosol	cytosol
YPL155C	*KIP2*	punctate	punctate
YGR250C	*RIE1*	cytosol	cytosol
YLR335W	*NUP2*	nucleus	punctate,nucleus
YNL274C	*GOR1*	cytosol	cytosol
YLR429W	*CRN1*	punctate	punctate
YBR238C	*YBR238C*	cytosol	cytosol
YDR514C	*YDR514C*	nucleus	cell periphery,nucleus
YMR021C	*MAC1*	nucleus	cytosol,punctate,nucleus
YGR043C	*NQM1*	nucleus	nucleus
YAR018C	*KIN3*	cytosol	cytosol,nucleus
YPL226W	*NEW1*	cytosol	cytosol
YDL025C	*RTK1*	cytosol	cytosol
YCR091W	*KIN82*	cytosol	cytosol,punctate
YML051W	*GAL80*	cytosol	cytosol
YOR289W	*YOR289W*	punctate	cytosol
YGL059W	*PKP2*	cytosol	cytosol
YPR200C	*ARR2*	cytosol	cytosol
YBR045C	*GIP1*	nucleus	nucleus
YPL091W	*GLR1*	cytosol	cytosol
YBL032W	*HEK2*	cytosol	cytosol
YOR151C	*RPB2*	nucleus	punctate,nucleus
YNL339W-A	*YNL339W-A*	cytosol	ER,vacuole
YGR158C	*MTR3*	nucleus	cytosol,nucleus
YPR021C	*AGC1*	mitochondria	mitochondria
YPR158W	*CUR1*	nucleus	nucleus
YOR114W	*CIM1*	nucleus	punctate,nucleus
YIL098C	*FMC1*	nucleus	nucleus
YPR189W	*SKI3*	cytosol	cytosol
YER167W	*BCK2*	nucleus	cytosol,nucleus
YKR077W	*MSA2*	nucleus	cytosol,nucleus
YJR145C	*RPS4A*	cytosol	cytosol
YHR216W	*IMD2*	cytosol	Blank
YLR150W	*STM1*	cytosol	cytosol
YLR079W	*SIC1*	nucleus	cytosol,nucleus
YIL152W	*VPR1*	nucleus	cytosol,nucleus
YKL099C	*UTP11*	nucleus	nucleus,nucleolus
YIL096C	*BMT5*	nucleus	nucleus,nucleolus
YGL040C	*HEM2*	cytosol	cytosol
YBR266C	*SLM6*	cytosol	#N/A

YEL039C	*CYC7*	cytosol	cytosol
YOL164W	*BDS1*	cytosol	cytosol
YER056C-A	*RPL34A*	cytosol	punctate
YKR045C	*YKR045C*	cytosol	cytosol
YNL039W	*BDP1*	nucleus	nucleus
YIL042C	*PKP1*	cytosol	cytosol
YKL208W	*CBT1*	nucleus	cytosol,nucleus
YPL247C	*YPL247C*	cytosol	cytosol,nucleus
YNL271C	*BNI1*	cytosol	Blank
YDR067C	*OCA6*	cytosol	cytosol
YLR095C	*IOC2*	cytosol	nucleus
YKR063C	*LAS1*	nucleus	nucleus
YMR137C	*PSO2*	nucleus	punctate,nucleus
YJL016W	*TPH3*	cytosol	cytosol
YPR025C	*CCL1*	nucleus	nucleus
YJR104C	*SOD1*	cytosol	cytosol
YNL121C	*TOM70*	cytosol	cytosol
YML043C	*RRN11*	nucleus	punctate,nucleus
YJL138C	*TIF2*	cytosol	cytosol
YBL063W	*KIP1*	cytosol	punctate
YPR034W	*ARP7*	nucleus	cytosol,nucleus
YDL184C	*RPL41A*	nucleus	nucleus,nucleolus
YKL054C	*DEF1*	cytosol	cytosol
YJL061W	*NUP82*	nuclear periphery	punctate,nuclear periphery
YLR185W	*RPL37A*	nucleus	cytosol,nucleus
YLR049C	*MLO50*	cytosol	cytosol
YPL088W	*YPL088W*	cytosol	cytosol
YDL157C	*DMO2*	cytosol	cytosol,punctate
YKL068W	*NUP100*	punctate	punctate,nuclear periphery
YMR240C	*CUS1*	nucleus	cytosol,nucleus
YKR048C	*NAP1*	cytosol	cytosol
YBR298C-A	*YBR298C-A*	cytosol	#N/A
YOR234C	*RPL33B*	cytosol	cytosol
YOR396C-A	*YOR396C-A*	cytosol	cytosol
YBL054W	*TOD6*	cytosol	cytosol
YPR188C	*MLC2*	cytosol	cytosol,bud neck
YLR134W	*PDC5*	nucleus	nucleus
YMR317W	*YMR317W*	cytosol	cytosol
YKR049C	*FMP46*	cytosol	cytosol
YAL032C	*PRP45*	nucleus	nucleus
YGL261C	*PAU11*	cytosol	cytosol,nucleus
YGR225W	*AMA1*	cytosol	cytosol
YGL229C	*SAP4*	cytosol	cytosol
YDR109C	*YDR109C*	cytosol	cytosol
YER077C	*MRX1*	cytosol	#N/A
YOR267C	*HRK1*	cytosol	cytosol
YHR183W	*GND1*	cytosol	cytosol

YDL148C	*NOP14*	nucleus	nucleus,nucleolus
YKL152C	*GPM1*	cytosol	Blank
YPR144C	*NOC4*	nucleus	nucleus,nucleolus
YDR285W	*ZIP1*	nucleus	punctate,nucleus
YOL038C-A	*YOL038C-A*	nucleus	cytosol,nucleus
YGR052W	*FMP48*	cytosol	cytosol,nucleus
YKL021C	*MAK11*	nucleus	nucleolus,nuclear periphery
YLR441C	*RPS1A*	cytosol	cytosol
YPL253C	*VIK1*	punctate	cytosol,punctate
YHR162W	*MPC2*	mitochondria	mitochondria
YAL016W	*TPD3*	cytosol	cytosol
YBR299W	*MAL32*	cytosol	cytosol
YHR117W	*TOM71*	cytosol	cytosol
YMR322C	*SNO4*	cytosol	cytosol
YCR018C-A	*YCR018C-A*	cytosol	cytosol
YPL108W	*YPL108W*	cytosol	cytosol
YIL149C	*MLP2*	nucleus,punctate	punctate,nucleus
YML030W	*RCF1*	mitochondria	mitochondria
YDR482C	*CWC21*	nucleus	nucleus
YAL067W-A	*YAL067W-A*	cytosol	cytosol
YEL075C	*YEL075C*	cytosol	cytosol,punctate
YMR047C	*NUP116*	nucleus,punctate	punctate,nuclear periphery
YPL107W	*DPC25*	nucleus	cytosol,nucleus
YDR341C	*YDR341C*	cytosol	cytosol
YKL056C	*TMA19*	cytosol	cytosol
YOL127W	*RPL25*	cytosol	cytosol
YDR006C	*SOK1*	nucleus	nucleus,nucleolus
YHL025W	*SNF6*	nucleus	cytosol,nucleus
YOR229W	*WTM2*	nucleus	nucleus,nucleolus
YBR026C	*ETR1*	cytosol	cytosol
YOR137C	*SIA1*	vacuole,punctate	ER
YBR249C	*ARO4*	nucleus	nucleus
YIL031W	*ULP2*	nucleus	nucleus
YER158C	*YER158C*	cell periphery,bud	cell periphery,bud
YPL179W	*PPQ1*	cytosol	cytosol
YER188C-A	*YER188C-A*	cytosol	cytosol,punctate
YFL001W	*DEG1*	cytosol	ER
YLR257W	*YLR257W*	cytosol	cytosol
YMR205C	*PFK2*	cytosol	cytosol
YGL135W	*RPL1B*	cytosol	cytosol
YGR034W	*RPL26B*	cytosol	cytosol
YHR003C	*TCD1*	cytosol	cytosol
YPL245W	*YPL245W*	nucleus	cytosol,nucleus
YGR015C	*EAT1*	cytosol	cytosol
YDL088C	*ASM4*	nuclear periphery	punctate,nuclear periphery
YMR186W	*HSC82*	cytosol	cytosol
YHL022C	*SPO11*	cytosol	cytosol

YKR074W	*AIM29*	nucleus	cytosol,nucleus
YOR233W	*KIN4*	cell periphery,bud neck	cell periphery,bud
YGL155W	*CDC43*	cytosol	cytosol
YEL030W	*ECM10*	nucleus	cytosol
YEL049W	*PAU2*	cytosol	cytosol,nucleus
YLR419W	*YLR419W*	cytosol	cytosol
YNL221C	*POP1*	nucleus	nucleus,nucleolus
YPR148C	*YPR148C*	cytosol	cytosol
YOR061W	*CKA2*	nucleus	cytosol,nucleus
YLR305C	*STT4*	cytosol	cytosol
YLR154C-H	*YLR154C-H*	cytosol	cytosol
YBR181C	*RPS6B*	nucleus	cytosol
YDR002W	*YRB1*	cytosol	cytosol
YCR042C	*TAF2*	nucleus	nucleus
YGR235C	*MIC26*	mitochondria	mitochondria
YEL070W	*DSF1*	cytosol	cytosol
YNR029C	*ZNG1*	cytosol	cytosol
YPR162C	*ORC4*	nucleus	nucleus
YCR014C	*POL4*	cytosol	cytosol
YNL239W	*LAP3*	punctate	cytosol
YPR154W	*PIN3*	punctate	cytosol
YHR100C	*GEP4*	cell periphery	Blank
YKL143W	*LTV1*	cytosol	cytosol
YPL283W-B	*YPL283W-B*	cytosol	cytosol
YGR050C	*YGR050C*	cytosol	cytosol
YER161C	*SPT2*	nucleus	nucleus
YGL125W	*MET13*	nucleus	cytosol,nucleus
YER148W	*SPT15*	nucleus	nucleus
YAL044W-A	*BOL1*	cytosol	cytosol
YKL171W	*NNK1*	cytosol	cytosol
YML119W	*YML119W*	cytosol	cytosol
YDR156W	*RPA14*	nucleus	nucleus,nucleolus
YAR035W	*YAT1*	cytosol	cytosol
YLR388W	*RPS29A*	bud neck	cytosol
YGR292W	*MAL12*	cytosol	cytosol
YBR270C	*BIT2*	nucleus	cytosol,nucleus
YBL055C	*YBL055C*	cytosol	cytosol
YNL335W	*DDI2*	cytosol	cytosol
YKR070W	*YKR070W*	cytosol	cytosol
YNR073C	*MAN2*	cytosol	cytosol
YNL334C	*SNO2*	cytosol	cytosol
YDR324C	*UTP4*	nucleus	nucleus,nucleolus
YIL172C	*IMA3*	cytosol	cytosol
YPR184W	*GDB1*	cytosol	cytosol,punctate
YOR230W	*WTM1*	nucleus	nucleus,nucleolus
YFL061W	*DDI3*	cytosol	cytosol
YGR081C	*SLX9*	nucleus	nucleus,nucleolus

YJR138W	*IML1*	vacuole membrane	vacuole membrane
YLR162W	*YLR162W*	cytosol	cytosol
YJL071W	*ARG2*	cytosol	cytosol
YDR268W	*MSW1*	cytosol	#N/A
YDR277C	*MTH1*	cytosol	cytosol
YDL079C	*MRK1*	cytosol	cytosol,nucleus
YMR093W	*UTP15*	nucleus	nucleolus
YPR160W	*GPH1*	vacuole membrane	vacuole membrane
YKL109W	*HAP4*	nucleus	cytosol
YDR450W	*RPS18A*	nucleus	cytosol
YNL030W	*HHF2*	nucleus	nucleus,nucleolus
YOR347C	*PYK2*	cytosol	cytosol
YPR182W	*SMX3*	nucleus	cytosol,nucleus
YBL015W	*ACH1*	cytosol	cytosol,punctate
YGR118W	*RPS23A*	nucleus	cytosol
YER053C	*PIC2*	mitochondria	mitochondria
YFL012W	*YFL012W*	cytosol	cytosol
YKL071W	*OSI1*	cytosol	cytosol
YJL144W	*ROQ1*	cytosol	cytosol
YBR158W	*AMN1*	nucleus	nucleus
YBR262C	*MIC12*	cytosol	mitochondria
YLL029W	*FRA1*	vacuole membrane	vacuole membrane
YOR047C	*STD1*	cytosol	cytosol,nucleus
YPR002W	*PDH1*	cytosol	cytosol
YML111W	*BUL2*	cytosol	cytosol
YNL222W	*SSU72*	nucleus	cytosol,nucleus
YFL058W	*THI5*	nucleus	cytosol
YNL256W	*FOL1*	nucleus	cytosol
YPR024W	*YME1*	nucleus	mitochondria
YLR273C	*PIG1*	cytosol	cytosol
YNL107W	*YAF9*	cytosol	cytosol,nucleus
YFL014W	*HSP12*	cytosol	cytosol
YDL203C	*ACK1*	bud	punctate,bud
YHR066W	*SSF1*	nucleus	nucleus,nucleolus
YDR061W	*YDR061W*	cytosol	missing
YAR064W	*YAR064W*	cytosol	cytosol
YCR030C	*SYP1*	cell periphery,bud neck	cell periphery,punctate,bud neck
YHR113W	*APE4*	cytosol	cytosol,punctate
YPR179C	*HDA3*	nucleus	nucleus
YDR223W	*CRF1*	nucleus	cytosol,nucleus
YGR201C	*YGR201C*	cytosol	cytosol
YOR023C	*AHC1*	nucleus	cytosol,nucleus
YLR226W	*BUR2*	nucleus	nucleus
YML021C	*UNG1*	nucleus	nucleus
YNR022C	*MRPL50*	nucleus	cytosol,nucleus
YPR172W	*YPR172W*	cytosol	cytosol
YNL063W	*MTQ1*	cytosol	cytosol,punctate,nucleus

YPR152C	*URN1*	nucleus	cytosol,nucleus
YBR233W	*PBP2*	cytosol	cytosol
YER106W	*MAM1*	nucleus	nucleus
YPR134W	*MSS18*	cytosol	cytosol
YDR477W	*SNF1*	cytosol	cytosol
YDL229W	*SSB1*	cytosol	cytosol
YCR104W	*PAU3*	cytosol	cytosol
YDL061C	*RPS29B*	cytosol	cytosol
YNL302C	*RPS19B*	cytosol	cytosol
YDR310C	*SUM1*	nucleus	nucleus
YPR011C	*MRX21*	mitochondria	mitochondria
YOL157C	*IMA2*	cytosol	cytosol
YLR256W	*HAP1*	nucleus	cytosol,nucleus
YOR227W	*HER1*	cytosol	cytosol
YFR001W	*LOC1*	nucleus	nucleus,nucleolus
YJR014W	*TMA22*	cytosol	cytosol
YLR155C	*ASP3-1*	cytosol	cytosol,nucleus
YBL002W	*HTB2*	nucleus	nucleus
YOR017W	*PET127*	nucleus	nucleus
YPL082C	*MOT1*	nucleus	nucleus,nucleolus
YHR014W	*SPO13*	nucleus	nucleus
YER047C	*SAP1*	bud	punctate,bud neck
YPR145W	*ASN1*	cytosol	cytosol
YLR157W-D	*YLR157W-D*	cytosol	cytosol
YBL028C	*YBL028C*	nucleus	nucleus
YPR175W	*DPB2*	nucleus	cytosol,nucleus
YER033C	*ZRG8*	cytosol	cytosol
YLR328W	*NMA1*	cytosol	cytosol
YNL301C	*RPL18B*	cytosol	cytosol
YPR178W	*PRP4*	nucleus	cytosol,nucleus
YPR161C	*SGV1*	nucleus	nucleus
YPR193C	*HPA2*	cytosol	cytosol
YLR193C	*UPS1*	cytosol	cytosol,punctate
YGL162W	*SUT1*	nucleus	nucleolus
YPR040W	*TIP41*	cytosol	cytosol
YPR163C	*TIF3*	cytosol	cytosol
YML020W	*YML020W*	bud	cytosol
YLR397C	*AFG2*	cytosol	cytosol
YPR160C-A	*YPR160C-A*	cytosol	#N/A
YOL114C	*PTH4*	cytosol	cytosol
YOR098C	*NUP1*	nucleus	punctate,nucleus
YAL054C	*ACS1*	nucleus	cytosol,nucleus
YIL055C	*YIL055C*	cytosol	cytosol
YKR096W	*ESL2*	cytosol	nucleus
YDR014W	*RAD61*	nucleus	nucleus
YER173W	*RAD24*	nucleus	nucleus
YDL002C	*NHP10*	nucleus	nucleus

YDL171C	*GLT1*	cytosol	cytosol
YNL021W	*HDA1*	nucleus	nucleus,nucleolus
YGR001C	*EFM5*	cytosol	cytosol
YGR214W	*RPS0A*	cytosol	cytosol
YEL067C	*YEL067C*	cytosol	cytosol,punctate
YLL036C	*PRP19*	nucleus	cytosol,nucleus
YEL008W	*YEL008W*	cytosol	#N/A
YMR315W	*YMR315W*	cytosol	cytosol
YMR280C	*CAT8*	nucleus	nucleus
YPL031C	*PHO85*	cytosol	cytosol
YNL339W-B	*YNL339W-B*	cytosol	#N/A
YDL246C	*SOR2*	cytosol	cytosol
YCL033C	*MXR2*	nucleus	cytosol
YLR133W	*CKI1*	cytosol	cytosol
YGL044C	*RNA15*	nucleus	cytosol,nucleus
YPL003W	*ULA1*	cytosol	cytosol
YPR145C-A	*YPR145C-A*	nucleus	cytosol,cell periphery,nucleus
YPL209C	*IPL1*	nucleus,punctate	punctate,nucleus
YDR169C	*STB3*	cytosol	cytosol,nucleus
YIL091C	*UTP25*	nucleus	nucleus,nucleolus
YDL214C	*PRR2*	cytosol	cytosol,vacuole membrane
YJL026W	*RNR2*	nucleus	cytosol,nucleus,nucleolus
YNL025C	*SSN8*	cytosol	cytosol,nucleus
YLR307C-A	*DPA10*	cytosol	cytosol,nucleus
YNL106C	*INP52*	punctate	cytosol,punctate
YKL049C	*CSE4*	nucleus	cytosol,punctate,nucleus
YMR073C	*IRC21*	cytosol	cytosol
YGR085C	*RPL11B*	cytosol	cytosol
YGR027C	*RPS25A*	cytosol	cytosol
YPR143W	*RRP15*	nucleus	nucleus,nucleolus
YKR094C	*RPL40B*	nucleus	cytosol,nucleus
YDR125C	*ECM18*	cytosol	mitochondria
YKL078W	*DHR2*	nucleus	nucleus,nucleolus
YPR190C	*RPC82*	nucleus	nucleus
YNR018W	*RCF2*	mitochondria	mitochondria
YNL165W	*YNL165W*	nucleus	cytosol
YOR255W	*OSW1*	nucleus	cell periphery
YKL168C	*KKQ8*	cytosol	cytosol
YPR132W	*RPS23B*	nucleus	cytosol
YHR116W	*COX23*	cytosol	cytosol
YAR002W	*NUP60*	nucleus	punctate,nuclear periphery
YML049C	*RSE1*	nucleus	nucleus
YNL132W	*KRE33*	nucleus	nucleus,nucleolus
YGR234W	*YHB1*	cytosol	cytosol
YJR112W	*NNF1*	mitochondria	mitochondria
YMR004W	*MVP1*	cytosol	punctate
YHR031C	*RRM3*	nucleus	nucleus

YPL157W	*TGS1*	nucleus	nucleus,nucleolus
YPL203W	*TPK2*	cytosol	Blank
YDR240C	*SNU56*	nucleus	cytosol,nucleus
YPR171W	*BSP1*	punctate,bud	punctate,bud
YGR150C	*CCM1*	cytosol	bud
YPR085C	*ASA1*	cytosol	cytosol
YJL122W	*ALB1*	nucleus	nucleus
YJR110W	*YMR1*	cytosol	cytosol
YNL209W	*SSB2*	cytosol	cytosol
YBR230W-A	*COQ21*	cytosol	cytosol,nucleus
YLR466W	*YRF1-4*	cytosol	cytosol
YHR070W	*TRM5*	nucleus	cytosol,nucleus
YFL060C	*SNO3*	cytosol	cytosol
YKR059W	*TIF1*	cytosol	cytosol
YOL021C	*DIS3*	nucleus	nucleus
YBR203W	*COS111*	cytosol	cytosol
YHL014C	*YLF2*	cytosol	cytosol
YOR054C	*VHS3*	cytosol	cytosol
YBR071W	*YBR071W*	cytosol	cytosol,bud
YLR017W	*MEU1*	nucleus	nucleus
YOR297C	*TIM18*	#N/A	Blank
YNL330C	*RPD3*	nucleus	cytosol,punctate,nucleus
YLR333C	*RPS25B*	cytosol	cytosol
YER036C	*ARB1*	cytosol	cytosol
YOR276W	*CAF20*	cytosol	cytosol
YNL273W	*TOF1*	nucleus	nucleus
YNL124W	*NAF1*	nucleus	nucleus
YHR075C	*PPE1*	cytosol	cytosol
YDL081C	*RPP1A*	nucleus	nucleus
YLR219W	*MSC3*	cell periphery	cell periphery,punctate
YPL212C	*PUS1*	nucleus	nucleus
YFL024C	*EPL1*	nucleus	cytosol,nucleus
YGL250W	*RMR1*	nucleus	#N/A
YDL084W	*SUB2*	nucleus	nucleus
YMR242W-A	*YMR242W-A*	cytosol	cytosol
YML015C	*TAF11*	nucleus	cytosol,nucleus
YGR067C	*YGR067C*	nucleus	cytosol,nucleus
YCR092C	*MSH3*	nucleus	nucleus
YPR107C	*YTH1*	nucleus	cytosol,nucleus
YJL105W	*SET4*	nucleus	nucleus
YCL059C	*KRR1*	nucleus	nucleus,nucleolus
YPL081W	*RPS9A*	nucleus	cytosol
YGL244W	*RTF1*	nucleus	cytosol,nucleus
YLR008C	*PAM18*	punctate	cytosol
YOL136C	*PFK27*	cytosol	cytosol
YBR258C	*SHG1*	cytosol	cytosol,nucleus
YBR244W	*GPX2*	cytosol	cytosol

YKL172W	*EBP2*	nucleus	nucleus,nucleolus
YBR281C	*DUG2*	cytosol	cytosol
YLR136C	*TIS11*	cytosol	cytosol
YML118W	*NGL3*	cytosol	cytosol
YGR070W	*ROM1*	cytosol	cytosol
YOR028C	*CIN5*	nucleus	nucleus
YKR086W	*PRP16*	nucleus	nucleus
YBR052C	*RFS1*	cell periphery	cell periphery,punctate
YLR135W	*SLX4*	nucleus	punctate,nucleus
YOL135C	*MED7*	nucleus	cytosol,nucleus
YLL035W	*GRC3*	nucleus	nucleus
YGL150C	*INO80*	nucleus	punctate,nucleus
YGL106W	*MLC1*	bud neck,bud	bud neck
YKL127W	*PGM1*	cytosol	cytosol
YJR052W	*RAD7*	nucleus	nucleus
YLR387C	*REH1*	cytosol	cytosol
YGR218W	*CRM1*	cytosol	punctate,nucleus
YBR081C	*SPT7*	nucleus	nucleus
YAL021C	*CCR4*	cytosol	cytosol
YHR079C-A	*SAE3*	cytosol	cytosol
YPR074W-A	*YPR074W-A*	cytosol	cytosol,cell periphery
YDR227W	*SIR4*	nucleus	punctate,nucleus
YGL093W	*SPC105*	nucleus,punctate	punctate,nucleus
YGR194C	*XKS1*	cytosol	cytosol
YDR520C	*URC2*	nucleus	nucleus
YMR176W	*ECM5*	nucleus	nucleus
YKL128C	*PMU1*	cytosol	cytosol,punctate
YPL223C	*GRE1*	cytosol	cytosol
YPL202C	*AFT2*	cytosol	cytosol
YNL298W	*CLA4*	bud	cytosol,bud
YOR266W	*PNT1*	mitochondria	mitochondria
YMR277W	*FCP1*	nucleus	nucleus
YCR090C	*YCR090C*	cytosol	cytosol
YMR074C	*SDD2*	cytosol	cytosol
YNR024W	*MPP6*	nucleus	nucleus
YPR110C	*RPC40*	nucleus	nucleus,nucleolus
YDR398W	*UTP5*	nucleus	nucleolus
YGR096W	*TPC1*	mitochondria	mitochondria
YPL239W	*YAR1*	cytosol	cytosol
YKL027W	*TCD2*	cytosol	cytosol
YOL024W	*YOL024W*	nucleus	cytosol,punctate
YMR244C-A	*COA6*	cytosol	cytosol
YER102W	*RPS8B*	nucleus	cytosol
YJR097W	*JJJ3*	nucleus	cytosol,nucleus
YLR182W	*SWI6*	nucleus	nucleus
YER116C	*SLX8*	nucleus	#N/A
YJL130C	*URA2*	cytosol	cytosol

YMR196W	*YMR196W*	cytosol	cytosol
YGL016W	*KAP122*	nucleus	punctate,nuclear periphery
YLL062C	*MHT1*	cytosol	cytosol
YDR181C	*SAS4*	nucleus	nucleus
YHL039W	*EFM1*	cytosol	cytosol
YGR148C	*RPL24B*	cytosol	#N/A
YDL073W	*AHK1*	cytosol	cytosol,punctate,bud
YOR032C	*HMS1*	cytosol	cytosol,nucleus
YCR107W	*AAD3*	cytosol	cytosol
YLR053C	*NRS1*	cytosol	Blank
YLR125W	*YLR125W*	cytosol	cytosol
YLR336C	*SGD1*	nucleus	nucleus
YER169W	*RPH1*	nucleus	nucleus
YKL138C-A	*HSK3*	punctate	punctate
YGR010W	*NMA2*	cytosol	cytosol
YHR013C	*ARD1*	cytosol	cytosol
YIL053W	*GPP1*	cytosol	cytosol
YNL010W	*PYP1*	cytosol	cytosol
YDR013W	*PSF1*	nucleus	cytosol,nucleus
YMR105C	*PGM2*	cytosol	cytosol
YAL037C-A	*YAL037C-A*	cytosol	#N/A
YJL048C	*UBX6*	nucleus	punctate,nuclear periphery
YIL101C	*XBP1*	nucleus	cytosol,nucleus
YOL111C	*MDY2*	cytosol	cytosol
YPL009C	*RQC2*	cytosol	cytosol
YGR007W	*ECT1*	cytosol	cytosol
YLR312C	*ATG39*	nuclear periphery,punctate	nuclear periphery
YOL112W	*MSB4*	bud	bud neck
YGR140W	*CBF2*	nucleus	punctate,nucleus
YLR316C	*TAD3*	nucleus	cytosol,punctate
YDR088C	*SLU7*	nucleus	nucleus
YHR023W	*MYO1*	bud neck	bud neck
YJR056C	*YJR056C*	nucleus	nucleus
YKR015C	*YKR015C*	cytosol	cytosol
YLR187W	*SKG3*	cytosol	cytosol,bud
YBR182C	*SMP1*	nucleus	nucleus
YPL033C	*SRL4*	cytosol	cytosol
YFL053W	*DAK2*	cytosol	missing
YGR161W-C	*YGR161W-C*	cytosol	missing
YER176W	*ECM32*	cytosol	cytosol
YPL139C	*UME1*	nucleus	cytosol,nucleus
YBR089C-A	*NHP6B*	nucleus	nucleus
YLR177W	*YLR177W*	cytosol	cytosol
YPL201C	*YIG1*	cytosol	cytosol
YDR436W	*PPZ2*	cytosol	cytosol
YNL103W	*MET4*	nucleus	nucleus
YJR084W	*YJR084W*	nucleus	nucleus

YGL029W	*CGR1*	nucleus	nucleus,nucleolus
YCR076C	*FUB1*	cytosol	cytosol
YLR412C-A	*YLR412C-A*	cytosol	nucleus,nucleolus
YPR010C	*RPA135*	nucleus	nucleolus
YPR056W	*TFB4*	nucleus	nucleus
YMR194W	*RPL36A*	cytosol	cytosol
YCR054C	*CTR86*	cytosol	cytosol,nucleus
YOR244W	*ESA1*	nucleus	cytosol,nucleus
YMR146C	*TIF34*	cytosol	cytosol
YBR246W	*RRT2*	cytosol	cytosol,punctate
YDR354W	*TRP4*	cytosol	cytosol
YGR153W	*YGR153W*	cytosol	cytosol
YKL137W	*CMC1*	cytosol	cytosol
YOR222W	*ODC2*	mitochondria	mitochondria
YOL076W	*MDM20*	cytosol	cytosol
YDR121W	*DPB4*	nucleus	cytosol,nucleus
YFR013W	*IOC3*	nucleus	nucleus
YER022W	*SRB4*	nucleus	cytosol,nucleus
YOL113W	*SKM1*	nucleus	cytosol,nucleus
YOR021C	*SFM1*	cytosol	cytosol
YER071C	*TDA2*	cytosol	cytosol,punctate
YER147C	*SCC4*	nucleus	cytosol,nucleus
YHR017W	*YSC83*	mitochondria	mitochondria
YOR186C-A	*YOR186C-A*	cytosol	cytosol
YJL065C	*DLS1*	nucleus	cytosol,nucleus
YER024W	*YAT2*	cytosol	cytosol
YER063W	*THO1*	nucleus	Blank
YHR012W	*VPS29*	cytosol	punctate
YPL233W	*NSL1*	punctate	cytosol,punctate
YLR082C	*SRL2*	nucleus	nucleus
YPR104C	*FHL1*	nucleus	punctate,nucleus
YDR058C	*TGL2*	cytosol	cytosol,punctate
YDR122W	*KIN1*	cytosol	cytosol
YFR024C-A	*LSB3*	cytosol	cytosol,punctate
YKR004C	*ECM9*	cytosol	cytosol
YPL129W	*TAF14*	nucleus	cytosol,nucleus
YDR305C	*HNT2*	cytosol	cytosol
YPR022C	*SDD4*	cytosol	cytosol,nucleus
YDR207C	*UME6*	cytosol	Blank
YBR279W	*PAF1*	nucleus	nucleus,nucleolus
YLL040C	*VPS13*	cytosol	cytosol,punctate
YDR128W	*MTC5*	cytosol	cytosol
YML070W	*DAK1*	cytosol	cytosol
YNL187W	*SWT21*	cytosol	cytosol,punctate,nucleus
YOR394C-A	*YOR394C-A*	cytosol	cytosol
YLR058C	*SHM2*	cytosol	cytosol
YPR118W	*MRI1*	nucleus	cytosol,nucleus

YDR453C	*TSA2*	cytosol	cytosol
YEL061C	*CIN8*	punctate	punctate
YIL045W	*PIG2*	punctate	cytosol,punctate
YBL076C	*ILS1*	cytosol	cytosol
YBR010W	*HHT1*	nucleus	nucleus
YDL166C	*FAP7*	nucleus	cytosol,nucleus
YNL210W	*MER1*	nucleus	cytosol,nucleus
YDR083W	*RRP8*	nucleus	nucleus,nucleolus
YLR146C	*SPE4*	cytosol	cytosol
YBR006W	*UGA2*	cytosol	cytosol
YKL210W	*UBA1*	nucleus	cytosol,nucleus
YPL164C	*MLH3*	nucleus	nucleus
YGR109C	*CLB6*	nucleus	nucleus
YJL011C	*RPC17*	nucleus	cytosol,nucleus
YJL090C	*DPB11*	nucleus	nucleus
YGL254W	*FZF1*	cytosol	cytosol
YNL007C	*SIS1*	nucleus	cytosol,nucleus
YKR041W	*YKR041W*	nucleus	nucleus
YNR069C	*BSC5*	cytosol	cytosol
YHR134W	*WSS1*	nucleus	nucleus
YFR003C	*YPI1*	nucleus	cytosol,nucleus
YDR146C	*SWI5*	nucleus	cytosol
YOL052C	*SPE2*	cytosol	cytosol
YIL110W	*HPM1*	nucleus	cytosol,nucleus
YGL023C	*PIB2*	vacuole membrane	vacuole membrane
YHR041C	*SRB2*	nucleus	cytosol,nucleus
YFR016C	*AIP5*	cytosol	cytosol,bud
YDR032C	*PST2*	cell periphery	cell periphery
YDR374W-A	*WIP1*	cytosol	cytosol
YBR111W-A	*SUS1*	nucleus	cytosol,nucleus
YOR100C	*CRC1*	mitochondria	mitochondria
YJL049W	*CHM7*	cytosol	cytosol
YHR166C	*CDC23*	nucleus	cytosol,punctate,nucleus
YNL331C	*AAD14*	cytosol	cytosol
YLL011W	*SOF1*	cytosol	nucleus
YJL023C	*PET130*	nucleus	nucleus
YKL088W	*CAB3*	cytosol	cytosol
YPR167C	*MET16*	nucleus	cytosol
YIL136W	*OM45*	mitochondria	cytosol,punctate
YJL092W	*SRS2*	cytosol	punctate,nucleus
YKL222C	*YKL222C*	nucleus	nucleus
YLL009C	*COX17*	cytosol	cytosol
YOR096W	*RPS7A*	cytosol	cytosol
YML007W	*YAP1*	cytosol	cytosol
YMR100W	*MUB1*	cytosol	cytosol
YGR002C	*SWC4*	nucleus	cytosol,nucleus
YCR057C	*PWP2*	nucleus	nucleolus

YJL109C	*UTP10*	nucleus	nucleolus
YGL216W	*KIP3*	cytosol	punctate
YIL066C	*RNR3*	cytosol	cytosol
YKL062W	*MSN4*	cytosol	cytosol
YAL047C	*SPC72*	punctate	punctate
YHR029C	*YHI9*	cytosol	cytosol
YOR120W	*GCY1*	cytosol	cytosol
YKL090W	*CUE2*	cytosol	cytosol
YDR225W	*HTA1*	nucleus	nucleus
YNL045W	*LAP2*	cytosol	Blank
YNR054C	*ESF2*	nucleus	nucleus,nucleolus
YDR289C	*RTT103*	nucleus	nucleus,nucleolus
YLR264C-A	*YLR264C-A*	cytosol	#N/A
YDR529C	*QCR7*	nucleus	nucleus,nucleolus
YLR327C	*TMA10*	cytosol	cytosol,punctate
YHR119W	*SET1*	nucleus	cytosol,nucleus
YOL086C	*ADH1*	cytosol	cytosol
YPL211W	*NIP7*	nucleus	nucleus,nucleolus
YDL047W	*SIT4*	cytosol	cytosol
YKL167C	*MRP49*	cytosol	cytosol
YPR169W	*JIP5*	nucleus	nucleus,nucleolus
YGR231C	*PHB2*	cytosol	cytosol,punctate
YPL048W	*CAM1*	cytosol	cytosol
YOL010W	*RCL1*	nucleus	nucleus,nucleolus
YLR249W	*YEF3*	cytosol	cytosol
YMR090W	*YMR090W*	cytosol	cytosol
YDR116C	*MRPL1*	nucleus	cytosol,nucleus
YJR048W	*CYC1*	cytosol	cytosol
YIL052C	*RPL34B*	nucleus	cytosol
YMR295C	*YMR295C*	bud,punctate	punctate,bud
YIR013C	*GAT4*	cytosol	cytosol
YMR311C	*GLC8*	cytosol	cytosol
YGL076C	*RPL7A*	cytosol	cytosol
YMR275C	*BUL1*	punctate	cytosol,punctate
YMR003W	*AIM34*	nucleus	nucleus
YBL030C	*PET9*	mitochondria	mitochondria
YER130C	*COM2*	cytosol	cytosol
YML016C	*PPZ1*	cytosol	cytosol
YIL142W	*CCT2*	cytosol	cytosol
YDL159W	*STE7*	cytosol	cytosol,bud
YOL117W	*RRI2*	nucleus	cytosol,nucleus
YOR161W-A	*YOR161W-A*	cytosol	cytosol
YCR016W	*RBP95*	nucleus	nucleus,nucleolus
YPL160W	*CDC60*	cytosol	cytosol
YPL077C	*YPL077C*	cytosol	cytosol
YGR100W	*MDR1*	cytosol	cytosol,punctate
YKL149C	*DBR1*	nucleus	nucleus

YER090W	*TRP2*	cytosol	cytosol
YPL216W	*YPL216W*	cytosol	cytosol,nucleus
YBR108W	*AIM3*	punctate	cytosol,punctate
YPR096C	*YPR096C*	cytosol	cytosol
YOR262W	*GPN2*	cytosol	cytosol
YLR406C	*RPL31B*	cytosol	cytosol
YML095C	*RAD10*	nucleus	Blank
YMR184W	*ADD37*	cytosol	cytosol
YAL020C	*ATS1*	cytosol	cytosol
YIL087C	*AIM19*	mitochondria	mitochondria
YGL031C	*RPL24A*	cytosol	cytosol
YLR258W	*GSY2*	nucleus,punctate	cytosol,punctate
YHR170W	*NMD3*	cytosol	cytosol
YBL067C	*UBP13*	cytosol	cytosol
YER088C	*DOT6*	cytosol	cytosol
YDL127W	*PCL2*	cytosol	#N/A
YMR166C	*MME1*	cytosol	mitochondria
YGR116W	*SPT6*	nucleus	nucleus
YGR208W	*SER2*	cytosol	cytosol
YNL317W	*PFS2*	nucleus	cytosol,nucleus
YDR299W	*BFR2*	nucleus	nucleus,nucleolus
YPR061C	*JID1*	cytosol	#N/A
YKL084W	*HOT13*	cytosol	cytosol
YNL215W	*IES2*	nucleus	nucleus
YOR116C	*RPO31*	nucleus	cytosol,nucleus
YMR175W-A	*YMR175W-A*	cytosol	#N/A
YIL071C	*PCI8*	nucleus	cytosol,nucleus
YDR247W	*VHS1*	cytosol	cytosol
YFL013C	*IES1*	nucleus	cytosol,nucleus
YHR034C	*PIH1*	nucleus	cytosol,nucleus
YFR017C	*IGD1*	cytosol	Blank
YOL155W-A	*YOL155W-A*	cytosol	#N/A
YNL082W	*PMS1*	nucleus	cytosol,nucleus
YCR036W	*RBK1*	cytosol	cytosol
YOR035C	*SHE4*	cytosol	cytosol
YNL299W	*TRF5*	nucleus	nucleus,nucleolus
YER180C-A	*SLO1*	punctate	cytosol,punctate
YLR055C	*SPT8*	nucleus	cytosol,nucleus
YML096W	*YML096W*	cytosol	cytosol
YGR237C	*YGR237C*	nucleus	cell periphery
YKL107W	*YKL107W*	cytosol	ER
YGR174W-A	*YGR174W-A*	cytosol	cytosol,nucleus
YOL061W	*PRS5*	cytosol	cytosol
YLR248W	*RCK2*	cytosol	cytosol
YDR443C	*SSN2*	nucleus	cytosol,nucleus
YFR012W-A	*YFR012W-A*	cytosol	Blank
YOR072W-B	*YOR072W-B*	cytosol	#N/A

YDR409W	*SIZ1*	nucleus	nucleus
YLR399C	*BDF1*	nucleus	nucleus
YJL155C	*FBP26*	cytosol	cytosol
YKL086W	*SRX1*	cytosol	cytosol
YLR211C	*ATG38*	cytosol	cytosol
YML057W	*CMP2*	cytosol	cytosol
YBR148W	*YSW1*	punctate	cell periphery,punctate
YBR173C	*UMP1*	nucleus	cytosol,nucleus
YJR067C	*YAE1*	cytosol	cytosol
YKL216W	*URA1*	nucleus	cytosol
YOR287C	*RRP36*	nucleus	nucleus,nucleolus
YIL075C	*RPN2*	nucleus	cytosol,nucleus
YNR034W-A	*EGO4*	cytosol	cytosol,nucleus
YOR239W	*ABP140*	cytosol	cytosol,punctate,bud
YHR071W	*PCL5*	nucleus	cytosol,nucleus
YOR122C	*PFY1*	cytosol	cytosol
YGL190C	*CDC55*	cytosol	cytosol,nucleus
YPL210C	*SRP72*	nuclear periphery	nuclear periphery
YDL235C	*YPD1*	cytosol	cytosol
YDR026C	*NSI1*	nucleus	nucleus,nucleolus
YNL067W-B	*YNL067W-B*	cytosol	#N/A
YLR154C	*RNH203*	nucleus	cytosol,nucleus
YBR218C	*PYC2*	cytosol	cytosol
YNR011C	*PRP2*	nucleus	nucleus
YGR088W	*CTT1*	cytosol	cytosol
YOL034W	*SMC5*	nucleus	nucleus
YDL143W	*CCT4*	cytosol	cytosol
YMR284W	*YKU70*	cytosol	cytosol,nucleus
YCR082W	*AHC2*	nucleus	cytosol,nucleus
YPR199C	*ARR1*	cytosol	cytosol,punctate,nucleus
YNL168C	*FMP41*	cytosol	cytosol
YPL090C	*RPS6A*	cytosol	cytosol
YDR012W	*RPL4B*	cytosol	cytosol,punctate
YDR336W	*MRX8*	nucleus	punctate,nucleus
YML107C	*PML39*	nucleus,punctate	punctate,nucleus
YDR421W	*ARO80*	nucleus	#N/A
YDR163W	*CWC15*	nucleus	cytosol,nucleus
YPL005W	*AEP3*	nucleus	#N/A
YDL133C-A	*RPL41B*	nucleus	nucleus,nucleolus
YIL106W	*MOB1*	cytosol	cytosol,punctate
YOR217W	*RFC1*	nucleus	nucleus
YPL014W	*CIP1*	cytosol	cytosol
YPR186C	*PZF1*	nucleus	nucleus
YHR203C	*RPS4B*	cytosol	Blank
YLR383W	*SMC6*	nucleus	nucleus
YKL132C	*RMA1*	cytosol	cytosol
YPL079W	*RPL21B*	cytosol	cytosol

YNL069C	*RPL16B*	cytosol	cytosol
YGR162W	*TIF4631*	cytosol	cytosol
YDR208W	*MSS4*	cell periphery	cell periphery
YGR243W	*MPC3*	mitochondria	mitochondria
YNL134C	*YNL134C*	cytosol	cytosol
YFL059W	*SNZ3*	cytosol	cytosol
YMR241W	*YHM2*	mitochondria	mitochondria
YGL193C	*YGL193C*	cytosol	#N/A
YPR020W	*ATP20*	mitochondria	mitochondria
YJL046W	*AIM22*	cytosol	mitochondria
YPL068C	*YPL068C*	nucleus	nucleus
YPL148C	*PPT2*	cytosol	cytosol,nucleus
YPL220W	*RPL1A*	cytosol	cytosol
YER050C	*RSM18*	cytosol	cytosol
YGL133W	*ITC1*	nucleus	nucleus
YHR127W	*YHR127W*	nucleus	nucleus,nucleolus
YDR028C	*REG1*	cytosol	cytosol
YML041C	*VPS71*	nucleus	punctate,nucleus
YNL281W	*HCH1*	cytosol	cytosol
YOR077W	*RTS2*	nucleus	nucleus,nucleolus
YGL122C	*NAB2*	nucleus	nucleus,nucleolus
YBR115C	*LYS2*	cytosol	cytosol
YOR026W	*BUB3*	nucleus	cytosol
YLR033W	*RSC58*	nucleus	nucleus,nucleolus
YPL235W	*RVB2*	nucleus	nucleus
YER163C	*GCG1*	cytosol	cytosol
YOL056W	*GPM3*	cytosol	cytosol
YPL043W	*NOP4*	nucleus	nucleus,nucleolus
YML056C	*IMD4*	cytosol	cytosol
YLR137W	*RKM5*	cytosol	cytosol
YLL022C	*HIF1*	nucleus	nucleus
YJL217W	*REE1*	cytosol	cytosol
YPL069C	*BTS1*	cytosol	cytosol
YDR188W	*CCT6*	cytosol	cytosol
YPR069C	*SPE3*	cytosol	cytosol
YIR015W	*RPR2*	nucleus	cytosol,nucleus
YER171W	*RAD3*	nucleus	cytosol,nucleus
YEL008C-A	*YEL008C-A*	cytosol	cytosol
YOR293W	*RPS10A*	cytosol	cytosol
YKL116C	*PRR1*	cytosol	cytosol
YJR060W	*CBF1*	nucleus	nucleus,nucleolus
YNL189W	*SRP1*	nucleus	cytosol,punctate,nuclear periphery
YJL110C	*GZF3*	cytosol	nucleus,nucleolus
YGL240W	*DOC1*	cytosol	cytosol
YCR084C	*TUP1*	nucleus	nucleus,nucleolus
YEL058W	*PCM1*	cytosol	cytosol
YLR398C	*SKI2*	cytosol	cytosol

YOR303W	*CPA1*	cytosol	cytosol
YPR082C	*DIB1*	cytosol	cytosol,nucleus
YFL045C	*SEC53*	cytosol	cytosol
YER095W	*RAD51*	nucleus	cytosol
YPR019W	*MCM4*	nucleus	cytosol,nucleus
YCL001W-B	*YCL001W-B*	nucleus	cytosol
YIL001W	*YIL001W*	cytosol	cytosol
YNL162W-A	*YNL162W-A*	cytosol	cytosol,nucleus
YLR098C	*CHA4*	punctate,nucleus	punctate,nucleus
YLR266C	*PDR8*	nucleus	punctate,nucleus
YDR530C	*APA2*	cytosol	cytosol
YMR291W	*TDA1*	cytosol	cytosol,nucleus
YBR247C	*ENP1*	cytosol	cytosol
YML102W	*CAC2*	nucleus	nucleus
YLR183C	*TOS4*	nucleus	nucleus
YEL030C-A	*YEL030C-A*	cytosol	#N/A
YHR148W	*IMP3*	nucleus	cytosol,nucleus
YDL053C	*PBP4*	cytosol	cytosol
YKL093W	*MBR1*	cytosol	cytosol
YIL073C	*SPO22*	cytosol	cytosol
YMR213W	*CEF1*	nucleus	nucleus
YIL014C-A	*YIL014C-A*	nucleus	cytosol,punctate,nucleus
YJR065C	*ARP3*	cytosol	cytosol,punctate
YDL233W	*MFG1*	nucleus	punctate,nucleus
YMR142C	*RPL13B*	nucleus	nucleus
YKL067W	*YNK1*	cytosol	cytosol,nucleus
YPL133C	*RDS2*	cytosol	#N/A
YCR095W-A	*YCR095W-A*	cytosol	mitochondria
YDL119C	*HEM25*	cytosol	mitochondria
YNL135C	*FPR1*	cytosol	cytosol
YLR341W	*SPO77*	cytosol	Blank
YBR095C	*RXT2*	nucleus	punctate,nucleus
YPR180W	*AOS1*	nucleus	cytosol,nucleus
YOL017W	*ESC8*	nucleus	nucleus
YBR191W	*RPL21A*	cytosol	#N/A
YBL087C	*RPL23A*	nucleus	cytosol,nuclear periphery
YPL101W	*ELP4*	cytosol	cytosol
YJL054W	*TIM54*	cytosol	mitochondria
YBL003C	*HTA2*	nucleus	nucleus
YKL114C	*APN1*	nucleus	nucleus,nucleolus
YGL003C	*CDH1*	nucleus	nucleus
YBR031W	*RPL4A*	cytosol	cytosol
YPL143W	*RPL33A*	cytosol	#N/A
YPL271W	*ATP15*	cytosol	cytosol
YBR009C	*HHF1*	nucleus	nucleolus
YDR079C-A	*TFB5*	cytosol	cytosol,nucleus
YER155C	*BEM2*	cytosol	cytosol,bud

YGL006W-A	*YGL006W-A*	cytosol	nucleus
YKL057C	*NUP120*	nuclear periphery	punctate,nuclear periphery
YJL081C	*ARP4*	nucleus	nucleus
YDR539W	*FDC1*	cytosol	cytosol
YPR168W	*NUT2*	cytosol	cytosol
YDL090C	*RAM1*	cytosol	cytosol
YMR191W	*SPG5*	cytosol	#N/A
YER183C	*FAU1*	cytosol	cytosol
YOR074C	*CDC21*	cytosol	cytosol
YPL016W	*SWI1*	nucleus	nucleus
YGL163C	*RAD54*	nucleus	nucleus
YCL067C	*HMLALPHA2*	cytosol	nucleus
YOL028C	*YAP7*	cytosol	cytosol,nucleus
YBR256C	*RIB5*	cytosol	#N/A
YIL060W	*YIL060W*	cytosol	#N/A
YDR318W	*MCM21*	nucleus	cytosol,punctate
YMR124W	*EPO1*	cytosol	cytosol,punctate
YDL055C	*PSA1*	cytosol	cytosol
YLR253W	*CQD2*	mitochondria	mitochondria
YNL126W	*SPC98*	punctate	punctate,nucleus
YOR020C	*HSP10*	cytosol	cytosol
YAL015C	*NTG1*	nucleus	mitochondria
YBL022C	*PIM1*	cytosol	mitochondria
YBL045C	*COR1*	cytosol	mitochondria
YBL064C	*PRX1*	nucleus	mitochondria
YBL080C	*PET112*	cytosol	mitochondria
YBL090W	*MRP21*	nucleus	mitochondria
YBL099W	*ATP1*	cytosol	mitochondria
YAL039C	*CYC3*	cytosol	mitochondria
YAL044C	*GCV3*	nucleus	mitochondria
YBR003W	*COQ1*	cytosol	mitochondria
YBR047W	*FMP23*	nucleus	mitochondria
YBR111C	*YSA1*	nucleus	mitochondria
YBR146W	*MRPS9*	cytosol	mitochondria
YBR176W	*ECM31*	cytosol	mitochondria
YBR024W	*SCO2*	cytosol	mitochondria
YBR037C	*SCO1*	cytosol	mitochondria
YBR269C	*SDH8*	nucleus	mitochondria
YCL004W	*PGS1*	cytosol	mitochondria
YBR185C	*MBA1*	cytosol	mitochondria
YBR221C	*PDB1*	nucleus	mitochondria
YBR227C	*MCX1*	cytosol	mitochondria
YBR251W	*MRPS5*	cytosol	mitochondria
YBR263W	*SHM1*	mitochondria,nucleus	mitochondria
YCR003W	*MRPL32*	nucleus	mitochondria
YCR083W	*TRX3*	nucleus	mitochondria
YDL004W	*ATP16*	nucleus	mitochondria

YDL044C	*MTF2*	nucleus	mitochondria
YDL066W	*IDP1*	mitochondria	mitochondria
YCR024C	*SLM5*	cytosol	mitochondria
YCR046C	*IMG1*	cytosol	mitochondria
YCR071C	*IMG2*	nucleus	mitochondria
YDL164C	*CDC9*	nucleus	mitochondria
YDL174C	*DLD1*	cytosol	mitochondria
YDL178W	*DLD2*	nucleus	mitochondria
YDL181W	*INH1*	nucleus	mitochondria
YDL183C	*MRX19*	cytosol	mitochondria
YDL202W	*MRPL11*	cytosol	mitochondria
YDR019C	*GCV1*	cytosol	mitochondria
YDL107W	*MSS2*	cytosol	mitochondria
YDL120W	*YFH1*	nucleus	mitochondria
YDL130W-A	*STF1*	nucleus	mitochondria
YDR036C	*EHD3*	nucleus	mitochondria
YDR119W-A	*COX26*	cytosol	mitochondria
YDR175C	*RSM24*	nucleus	mitochondria
YDR194C	*MSS116*	cytosol	mitochondria
YDR204W	*COQ4*	cytosol	mitochondria
YDR041W	*RSM10*	nucleus	mitochondria
YDR070C	*FMP16*	nucleus	mitochondria
YDR115W	*MRX14*	nucleus	mitochondria
YDR232W	*HEM1*	cytosol	mitochondria
YDR298C	*ATP5*	nucleus	mitochondria
YDR316W	*OMS1*	cytosol	mitochondria
YDR322W	*MRPL35*	nucleus	mitochondria
YDR337W	*MRPS28*	cytosol	mitochondria
YDR258C	*HSP78*	nucleus,punctate	mitochondria
YDR282C	*MRX10*	cytosol	mitochondria
YDR350C	*ATP22*	cytosol	mitochondria
YDR405W	*MRP20*	cytosol	mitochondria
YDR462W	*MRPL28*	nucleus	mitochondria
YDR493W	*MZM1*	nucleus	mitochondria
YDR494W	*RSM28*	nucleus	mitochondria
YDR376W	*ARH1*	cytosol	mitochondria
YDR377W	*ATP17*	punctate	mitochondria
YDR379C-A	*SDH6*	nucleus	mitochondria
YDR393W	*SHE9*	cytosol	mitochondria
YER073W	*ALD5*	cytosol	mitochondria
YER078C	*ICP55*	cytosol	mitochondria
YER080W	*AIM9*	punctate	mitochondria
YEL052W	*AFG1*	cytosol	mitochondria
YFL018C	*LPD1*	cytosol	mitochondria
YFL036W	*RPO41*	cytosol	mitochondria
YGL018C	*JAC1*	nucleus	mitochondria
YGL041W-A	*DPC13*	nucleus	mitochondria

YGL068W	*MNP1*	cytosol	mitochondria
YGL107C	*RMD9*	cytosol	mitochondria
YER178W	*PDA1*	mitochondria	mitochondria
YER182W	*FMP10*	cytosol	mitochondria
YGL187C	*COX4*	nucleus	mitochondria
YGL191W	*COX13*	mitochondria	mitochondria
YGL226W	*MTC3*	nucleus	Blank
YGR021W	*DPC29*	nucleus	mitochondria
YGR029W	*ERV1*	cytosol	mitochondria
YGR033C	*TIM21*	punctate	mitochondria
YGL129C	*RSM23*	cytosol	mitochondria
YGL136C	*MRM2*	nucleus	mitochondria
YGL141W	*HUL5*	cytosol	mitochondria
YGL143C	*MRF1*	nucleus	mitochondria
YGR046W	*TAM41*	cytosol	mitochondria
YGR094W	*VAS1*	nucleus	mitochondria
YGR102C	*GTF1*	cytosol	mitochondria
YGR103W	*NOP7*	cytosol	mitochondria
YGR053C	*MCO32*	cytosol	mitochondria
YGR193C	*PDX1*	nucleus	mitochondria
YHL021C	*AIM17*	nucleus	mitochondria
YHR008C	*SOD2*	nucleus	mitochondria
YHR011W	*DIA4*	nucleus	mitochondria
YHR037W	*PUT2*	cytosol	mitochondria
YGR220C	*MRPL9*	nucleus	mitochondria
YGR244C	*LSC2*	nucleus	mitochondria
YGR286C	*BIO2*	cytosol	mitochondria
YHR106W	*TRR2*	nucleus	mitochondria
YHR147C	*MRPL6*	nucleus	mitochondria
YHR194W	*MDM31*	punctate	mitochondria
YHR198C	*AIM18*	cytosol	mitochondria
YHR199C	*AIM46*	cytosol	mitochondria
YHR208W	*BAT1*	nucleus	mitochondria
YHR059W	*FYV4*	nucleus	mitochondria
YHR091C	*MSR1*	cytosol	mitochondria
YIL002C	*INP51*	cytosol	punctate,mitochondria
YIL125W	*KGD1*	cytosol	mitochondria
YIL157C	*COA1*	cytosol	mitochondria
YIR024C	*INA22*	cytosol	mitochondria
YIL051C	*MMF1*	nucleus	mitochondria
YIL070C	*MAM33*	nucleus	mitochondria
YJL177W	*RPL17B*	cytosol	mitochondria
YJL200C	*ACO2*	cytosol	mitochondria
YJL209W	*CBP1*	cytosol	mitochondria
YJL131C	*AIM23*	nucleus	mitochondria
YJL161W	*FMP33*	mitochondria	mitochondria
YJR100C	*AIM25*	cytosol	mitochondria

YJR101W	*RSM26*	nucleus	mitochondria
YJR113C	*RSM7*	cytosol	mitochondria
YJR121W	*ATP2*	mitochondria	mitochondria
YJR122W	*IBA57*	cytosol	mitochondria
YJR144W	*MGM101*	nucleus	mitochondria
YKL018C-A	*MCO12*	cytosol	mitochondria
YJR051W	*OSM1*	cytosol	mitochondria
YJR061W	*MNN14*	vacuole	mitochondria
YJR080C	*AIM24*	cytosol	mitochondria
YKL029C	*MAE1*	cytosol	mitochondria
YKL138C	*MRPL31*	nucleus	mitochondria
YKL141W	*SDH3*	mitochondria,punctate	mitochondria
YKL148C	*SDH1*	nucleus	mitochondria
YKL150W	*MCR1*	nucleus	mitochondria
YKL155C	*RSM22*	cytosol	mitochondria
YKL192C	*ACP1*	nucleus	mitochondria
YKL040C	*NFU1*	cytosol	mitochondria
YKL085W	*MDH1*	cytosol	mitochondria
YKL106W	*AAT1*	cytosol	mitochondria
YKL134C	*37165*	cytosol	mitochondria
YKL194C	*MST1*	nucleus	mitochondria
YKR066C	*CCP1*	nucleus	mitochondria
YKR085C	*MRPL20*	nucleus	mitochondria
YKR087C	*OMA1*	cytosol	mitochondria
YLL027W	*ISA1*	nucleus	mitochondria
YLL030C	*RRT7*	cytosol	mitochondria
YLL041C	*SDH2*	cytosol	mitochondria
YLR059C	*REX2*	nucleus	mitochondria
YKL195W	*MIA40*	cytosol	mitochondria
YKR006C	*MRPL13*	nucleus	mitochondria
YKR016W	*MIC60*	cytosol	mitochondria
YKR065C	*PAM17*	mitochondria	mitochondria
YLR063W	*BMT6*	cytosol	mitochondria
YLR142W	*PUT1*	cytosol	mitochondria
YLR163C	*MAS1*	cytosol	mitochondria
YLR164W	*SHH4*	cytosol	mitochondria
YLR188W	*MDL1*	mitochondria,punctate	mitochondria
YLR201C	*COQ9*	nucleus	mitochondria
YLR204W	*QRI5*	nucleus	mitochondria
YLR067C	*PET309*	cytosol	mitochondria
YLR077W	*FMP25*	cytosol	mitochondria
YLR089C	*ALT1*	nucleus	mitochondria
YLR139C	*SLS1*	cytosol	mitochondria
YLR239C	*LIP2*	cytosol	mitochondria
YLR312W-A	*MRPL15*	nucleus	mitochondria
YLR355C	*ILV5*	cytosol	mitochondria
YLR382C	*NAM2*	cytosol	mitochondria

YLR393W	*ATP10*	cytosol	mitochondria
YLR395C	*COX8*	mitochondria	mitochondria
YLR415C	*YLR415C*	mitochondria	mitochondria
YLR439W	*MRPL4*	nucleus	mitochondria
YLR281C	*RSO55*	nucleus	mitochondria
YLR295C	*ATP14*	nucleus	mitochondria
YLR304C	*ACO1*	mitochondria	mitochondria
YML091C	*RPM2*	cytosol	mitochondria
YMR002W	*MIX17*	nucleus	mitochondria
YMR024W	*MRPL3*	nucleus	mitochondria
YMR035W	*IMP2*	cytosol	mitochondria
YMR066W	*SOV1*	cytosol	mitochondria
YMR072W	*ABF2*	nucleus	mitochondria
YML009C	*MRPL39*	nucleus	mitochondria
YML050W	*AIM32*	nucleus	mitochondria
YML061C	*PIF1*	cytosol	mitochondria
YML078W	*CPR3*	nucleus	mitochondria
YMR145C	*NDE1*	cytosol	mitochondria
YMR157C	*AIM36*	nucleus	mitochondria
YMR177W	*MMT1*	cytosol	mitochondria
YMR193W	*MRPL24*	nucleus	mitochondria
YMR252C	*MLO1*	cytosol	mitochondria
YMR257C	*PET111*	cytosol	mitochondria
YMR089C	*YTA12*	cytosol	mitochondria
YMR098C	*ATP25*	nucleus	mitochondria
YMR115W	*MGR3*	cytosol	mitochondria
YOR205C	*GEP3*	cytosol	mitochondria
YPL059W	*GRX5*	nucleus	mitochondria
YPL132W	*COX11*	cytosol	mitochondria
YPL222W	*FMP40*	nucleus	mitochondria
YPR033C	*HTS1*	punctate	mitochondria
YFL065C	*YFL065C*	cytosol	mitochondria
YOL096C	*COQ3*	nucleus	mitochondria
YOR108W	*LEU9*	nucleus	mitochondria
YNL169C	*PSD1*	cytosol	mitochondria
YOR215C	*AIM41*	cytosol	mitochondria
YOR350C	*MNE1*	cytosol	mitochondria
YPL060W	*MFM1*	punctate	mitochondria
YPL135W	*ISU1*	nucleus	mitochondria
YPL224C	*MMT2*	cytosol	mitochondria
YPR047W	*MSF1*	cytosol	mitochondria
YNL260C	*LTO1*	cytosol	mitochondria
YNR041C	*COQ2*	mitochondria	mitochondria
YOL140W	*ARG8*	cytosol	mitochondria
YOR125C	*CAT5*	cytosol	mitochondria
YNL177C	*MRPL22*	nucleus	mitochondria
YOR226C	*ISU2*	cytosol	mitochondria

YPL063W	*TIM50*	punctate	mitochondria
YPL159C	*PET20*	nucleus	mitochondria
YPL252C	*YAH1*	cytosol	mitochondria
YPR067W	*ISA2*	nucleus	mitochondria
YNL295W	*MRX6*	cytosol	mitochondria
YOR022C	*DDL1*	cytosol	mitochondria
YOR136W	*IDH2*	nucleus	mitochondria
YOR232W	*MGE1*	nucleus	mitochondria
YOR356W	*CIR2*	punctate	mitochondria
YPL078C	*ATP4*	punctate	mitochondria
YPL168W	*MRX4*	cytosol	mitochondria
YPL262W	*FUM1*	nucleus	mitochondria
YPR125W	*YLH47*	cytosol	mitochondria
YOR037W	*CYC2*	cytosol	mitochondria
YNL191W	*DUG3*	cytosol	mitochondria
YOR286W	*RDL2*	nucleus	mitochondria
YOR374W	*ALD4*	cytosol	mitochondria
YPL097W	*MSY1*	cytosol	mitochondria
YPL172C	*COX10*	cytosol	mitochondria
YPR151C	*SUE1*	cytosol	mitochondria
YNL310C	*ZIM17*	nucleus	mitochondria
YOL027C	*MDM38*	cytosol	mitochondria
YOR040W	*GLO4*	cytosol	mitochondria
YOR147W	*MDM32*	cytosol	mitochondria
YOR386W	*PHR1*	cytosol	mitochondria
YPL103C	*FMP30*	nucleus	mitochondria
YPR001W	*CIT3*	cytosol	mitochondria
YNL208W	*YNL208W*	nucleus	mitochondria
YNL315C	*ATP11*	nucleus	mitochondria
YOL042W	*NGL1*	cytosol	punctate,mitochondria
YOR176W	*HEM15*	punctate	mitochondria
YNL213C	*RRG9*	nucleus	mitochondria
YOR305W	*RRG7*	punctate	mitochondria
YPL029W	*SUV3*	cytosol	mitochondria
YPL104W	*MSD1*	punctate	mitochondria
YPL188W	*POS5*	cytosol	mitochondria
YPR004C	*AIM45*	cytosol	mitochondria
YPR166C	*MRP2*	punctate	mitochondria
YNR001C	*CIT1*	nucleus	mitochondria
YOR196C	*LIP5*	nucleus	mitochondria
YPL040C	*ISM1*	cytosol	mitochondria
YPL109C	*CQD1*	cytosol	mitochondria
YPL215W	*CBP3*	nucleus	mitochondria
YPR006C	*ICL2*	cytosol	mitochondria
YOL071W	*SDH5*	nucleus	mitochondria
YOR105W	*YOR105W*	nucleus	mitochondria
YOR201C	*MRM1*	nucleus	mitochondria

YMR083W	*ADH3*	nucleus	mitochondria
YNL005C	*MRP7*	nucleus	mitochondria
YBR122C	*MRPL36*	nucleus	mitochondria
YDR538W	*PAD1*	nucleus	mitochondria
YGR084C	*MRP13*	nucleus	mitochondria
YJL180C	*ATP12*	cytosol	mitochondria
YAL046C	*BOL3*	cytosol	mitochondria
YHR024C	*MAS2*	cytosol	mitochondria
YMR267W	*PPA2*	nucleus	mitochondria
YCL009C	*ILV6*	nucleus	mitochondria
YEL024W	*RIP1*	nucleus	mitochondria
YGR255C	*COQ6*	cytosol	mitochondria
YFR049W	*KGD4*	nucleus	mitochondria
YJL060W	*BNA3*	nucleus	mitochondria
YNL052W	*COX5A*	cytosol	mitochondria
YDR178W	*SDH4*	punctate	mitochondria
YHR038W	*RRF1*	nucleus	mitochondria
YGR110W	*CLD1*	cytosol	mitochondria
YDR079W	*PET100*	nucleus	mitochondria
YJR003C	*MRX12*	nucleus	mitochondria
YMR282C	*AEP2*	cytosol	mitochondria
YBR163W	*EXO5*	cytosol	mitochondria
YER113C	*TMN3*	cytosol	punctate,mitochondria
YBL013W	*FMT1*	cytosol	mitochondria
YMR287C	*DSS1*	cytosol	mitochondria
YNL071W	*LAT1*	cytosol	mitochondria
YCL017C	*NFS1*	nucleus	mitochondria
YEL050C	*RML2*	cytosol	mitochondria
YER069W	*ARG56*	nucleus	mitochondria
YBR044C	*TCM62*	nucleus	mitochondria
YGR174C	*CBP4*	cytosol	mitochondria
YMR301C	*ATM1*	cytosol	mitochondria
YDR511W	*SDH7*	nucleus	mitochondria
YGR101W	*PCP1*	ER	mitochondria
YJL045W	*SDH9*	cytosol	mitochondria
YDR430C	*CYM1*	cytosol	mitochondria
YJL096W	*MRPL49*	nucleus	mitochondria
YMR302C	*YME2*	nucleus	Blank
YNL073W	*MSK1*	cytosol	mitochondria
YCL026C-B	*HBN1*	nucleus	mitochondria
YJL133C-A	*DPI8*	cytosol	mitochondria
YHL004W	*MRP4*	cytosol	mitochondria
YJL213W	*YJL213W*	cytosol	mitochondria
YDR148C	*KGD2*	punctate	mitochondria
YJR016C	*ILV3*	cytosol	mitochondria
YNL104C	*LEU4*	nucleus	mitochondria
YDL069C	*CBS1*	cytosol	mitochondria

YER017C	*AFG3*	cytosol	mitochondria
YIL155C	*GUT2*	cytosol	mitochondria
YNR036C	*MRPS12*	nucleus	mitochondria
YOL008W	*COQ10*	nucleus	mitochondria
YDR286C	*MGP12*	nucleus	mitochondria
YDR246W-A	*YDR246W-A*	nucleus	mitochondria
YER168C	*CCA1*	nucleus	mitochondria
YHR067W	*HTD2*	cytosol	mitochondria
YER141W	*COX15*	ER	mitochondria
YPR155C	*NCA2*	cytosol	mitochondria
YLR259C	*HSP60*	nucleus	mitochondria
YAL007C	*ERP2*	cytosol	ER,punctate
YFR041C	*ERJ5*	cytosol	ER
YAL063C	*FLO9*	cytosol	cell periphery,punctate
YGL002W	*ERP6*	cytosol	ER
YAR050W	*FLO1*	cytosol	punctate
YGL020C	*GET1*	cytosol	ER
YAL053W	*FLC2*	cytosol	ER
YGL027C	*CWH41*	cytosol	vacuole
YAL058W	*CNE1*	cytosol	ER
YGL028C	*SCW11*	cytosol	ER
YAR002C-A	*ERP1*	cytosol	ER,punctate
YGL032C	*AGA2*	cytosol	ER
YAR066W	*YAR066W*	cytosol	ER
YGL089C	*MF(ALPHA)2*	cytosol	cell periphery,vacuole
YAR071W	*PHO11*	cytosol	cell periphery,ER
YGL138C	*YGL138C*	cytosol	ER
YBL017C	*PEP1*	cytosol	punctate,vacuole
YGL139W	*FLC3*	cytosol	Blank
YGL200C	*EMP24*	cytosol	ER,punctate
YBL095W	*MRX3*	cytosol	missing
YJL192C	*SOP4*	cytosol	ER
YJL222W	*VTH2*	cytosol	ER,punctate,vacuole
YJR004C	*SAG1*	cytosol	cell periphery,vacuole
YMR251W-A	*HOR7*	cytosol	cell periphery,vacuole
YJR075W	*HOC1*	cytosol	punctate,vacuole
YMR272W-B	*YMR272W-B*	cytosol	ER,vacuole
YJR103W	*URA8*	cytosol	ER,vacuole
YMR297W	*PRC1*	cytosol	ER
YJR137C	*MET5*	cytosol	cell periphery,punctate,vacuole
YMR307W	*GAS1*	cytosol	ER
YJR150C	*DAN1*	cytosol	cell periphery,vacuole
YMR316C-A	*YMR316C-A*	cytosol	ER
YJR151C	*DAN4*	cytosol	cell periphery
YNL012W	*SPO1*	cytosol	ER,vacuole
YKL034W	*TUL1*	cytosol	punctate,vacuole
YNL019C	*YNL019C*	cytosol	vacuole

YKL046C	*DCW1*	cytosol	ER
YNL066W	*SUN4*	cytosol	ER,punctate
YBR013C	*YBR013C*	cytosol	ER
YGL228W	*SHE10*	cytosol	ER
YBR015C	*MNN2*	cytosol	ER,vacuole
YGL236C	*MTO1*	cytosol	ER
YBR093C	*PHO5*	cytosol	cell periphery,ER
YGL258W	*VEL1*	cytosol	cell periphery,ER
YBR139W	*ATG42*	cytosol	cell periphery,vacuole
YGL259W	*YPS5*	cytosol	cell periphery,punctate
YBR162C	*TOS1*	cytosol	cell periphery,ER,vacuole
YGR014W	*MSB2*	cytosol	punctate
YDR055W	*PST1*	cytosol	vacuole
YGR023W	*MTL1*	cytosol	#N/A
YBR187W	*GDT1*	cytosol	punctate
YBR078W	*ECM33*	cytosol	vacuole
YBR229C	*ROT2*	cytosol	ER
YGR106C	*VOA1*	cytosol	vacuole membrane
YBR092C	*PHO3*	cytosol	ER
YCL012C	*YCL012C*	cytosol	vacuole
YGR189C	*CRH1*	cytosol	cell periphery,vacuole
YCL043C	*PDI1*	cytosol	ER
YKL073W	*LHS1*	cytosol	ER
YGR294W	*PAU12*	cytosol	ER,vacuole
YKL077W	*PSG1*	cytosol	ER,punctate
YNL129W	*NRK1*	cytosol	ER,vacuole
YKL096W	*CWP1*	cytosol	vacuole
YJL159W	*HSP150*	cytosol	cell periphery,vacuole
YKL163W	*PIR3*	cytosol	ER
YNL158W	*PGA1*	cytosol	nuclear periphery
YKL164C	*PIR1*	cytosol	ER
YNL219C	*ALG9*	cytosol	ER
YNL238W	*KEX2*	cytosol	vacuole
YKL224C	*PAU16*	cytosol	vacuole
YNL283C	*WSC2*	nucleus	vacuole
YKR005C	*YKR005C*	cytosol	ER,punctate
YCL045C	*EMC1*	nucleus	ER
YGR279C	*SCW4*	cytosol	vacuole
YCL048W-A	*YCL048W-A*	cytosol	cell periphery,vacuole
YGR282C	*BGL2*	cytosol	ER,vacuole
YHL017W	*YHL017W*	cytosol	punctate
YCL049C	*YCL049C*	cytosol	ER,punctate
YHL028W	*WSC4*	cytosol	Blank
YCR011C	*ADP1*	cytosol	vacuole
YHL042W	*YHL042W*	cytosol	vacuole
YCR045C	*RRT12*	cytosol	ER
YCR069W	*CPR4*	cytosol	ER,punctate,vacuole

YHR045W	*DDE1*	cytosol	ER
YHR057C	*CPR2*	cytosol	ER,vacuole
YDL018C	*ERP3*	cytosol	ER
YDL024C	*DIA3*	cytosol	cell periphery,ER
YKR058W	*GLG1*	cytosol	cell periphery,punctate
YNL327W	*EGT2*	cytosol	Blank
YKR061W	*KTR2*	cytosol	ER
YNR028W	*CPR8*	cytosol	punctate,vacuole membrane
YKR069W	*MET1*	nucleus	ER
YNR044W	*AGA1*	cytosol	cell periphery,vacuole
YKR102W	*FLO10*	cytosol	cell periphery,punctate
YNR050C	*LYS9*	cytosol	cell periphery,ER
YLL025W	*PAU17*	nucleus	Blank
YNR059W	*MNT4*	cytosol	ER
YLL051C	*FRE6*	cytosol	vacuole
YNR060W	*FRE4*	cytosol	ER
YNR066C	*YNR066C*	cytosol	ER,vacuole
YLR001C	*YLR001C*	cytosol	vacuole
YLR040C	*AFB1*	cytosol	cell periphery,vacuole
YOL007C	*CSI2*	cytosol	vacuole
YLR120C	*YPS1*	cytosol	Blank
YOL011W	*PLB3*	cytosol	vacuole
YDL046W	*NPC2*	cytosol	ER,vacuole
YHR098C	*SFB3*	cytosol	cell periphery,ER,punctate
YDL049C	*KNH1*	cytosol	ER,vacuole
YHR101C	*BIG1*	cytosol	ER
YDL070W	*BDF2*	cytosol	cell periphery,ER,punctate
YDL130W	*RPP1B*	cytosol	ER,vacuole
YDL144C	*YDL144C*	cytosol	ER
YDR056C	*EMC10*	cytosol	ER
YHR110W	*ERP5*	cytosol	ER
YDR057W	*YOS9*	cytosol	ER
YHR132C	*ECM14*	cytosol	ER,punctate,vacuole
YDR107C	*TMN2*	cytosol	punctate
YDR221W	*GTB1*	nucleus	ER
YLR084C	*RAX2*	cytosol	ER,bud neck
YJL223C	*PAU1*	cytosol	vacuole
YLR286C	*CTS1*	cytosol	vacuole
YOL030W	*GAS5*	cytosol	ER
YLR104W	*LCL2*	cytosol	ER,vacuole
YOL031C	*SIL1*	cytosol	ER
YOL052C-A	*DDR2*	cytosol	vacuole
YLR121C	*YPS3*	cytosol	vacuole
YOL088C	*MPD2*	cytosol	ER
YLR160C	*ASP3-4*	cytosol	cell periphery,vacuole
YOL105C	*WSC3*	cytosol	vacuole
YLR194C	*NCW2*	cytosol	vacuole,bud neck

YOL132W	*GAS4*	cytosol	ER,vacuole
YLR207W	*HRD3*	cytosol	ER
YOL154W	*ZPS1*	cytosol	cell periphery,ER
YLR213C	*CRR1*	cytosol	vacuole
YLR243W	*GPN3*	nucleus	ER,vacuole
YOL161C	*PAU20*	nucleus	Blank
YDR261C	*EXG2*	cytosol	ER,vacuole
YHR173C	*YHR173C*	cytosol	Blank
YDR262W	*YDR262W*	cytosol	ER
YHR188C	*GPI16*	cytosol	ER
YDR304C	*CPR5*	cytosol	ER
YHR202W	*SMN1*	cytosol	vacuole
YDR331W	*GPI8*	cytosol	ER
YHR204W	*MNL1*	cytosol	ER
YDR349C	*YPS7*	cytosol	ER
YHR211W	*FLO5*	cytosol	cell periphery,punctate
YDR382W	*RPP2B*	cytosol	punctate,vacuole
YHR212W-A	*YHR212W-A*	cytosol	ER
YDR402C	*DIT2*	cytosol	ER,punctate
YIL005W	*EPS1*	cytosol	punctate
YIL011W	*TIR3*	cytosol	cell periphery,vacuole membrane
YIL014W	*MNT3*	nucleus	ER,vacuole
YIL015W	*BAR1*	nucleus	cell periphery
YIL027C	*EMC5*	cytosol	ER
YLR307W	*CDA1*	nucleus	ER
YJR153W	*PGU1*	cytosol	ER,vacuole
YLR283W	*PUT7*	cytosol	Blank
YOR008C-A	*YOR008C-A*	cytosol	ER
YLR300W	*EXG1*	cytosol	ER,vacuole
YOR009W	*TIR4*	cytosol	vacuole
YLR308W	*CDA2*	cytosol	#N/A
YOR010C	*TIR2*	cytosol	cell periphery,vacuole
YLR332W	*MID2*	cytosol	vacuole
YOR016C	*ERP4*	cytosol	ER,punctate
YLR343W	*GAS2*	cytosol	vacuole
YLR390W-A	*CCW14*	cytosol	cell periphery,vacuole
YLR385C	*SWC7*	cytosol	ER
YLR403W	*SFP1*	cytosol	nucleus
YOR154W	*SLP1*	cytosol	cell periphery,punctate
YLR461W	*PAU4*	cytosol	ER,vacuole
YIL099W	*SGA1*	cytosol	ER,vacuole
YDR506C	*GMC1*	cytosol	ER
YMR305C	*SCW10*	cytosol	cell periphery,vacuole
YDR518W	*EUG1*	cytosol	ER
YIL123W	*SIM1*	cytosol	ER,vacuole
YDR519W	*FPR2*	cytosol	vacuole
YDR524C-B	*YDR524C-B*	cytosol	ER

YIL156W-B	*ATG44*	cytosol	ER,vacuole
YDR534C	*FIT1*	cytosol	cell periphery,vacuole
YIL162W	*SUC2*	cytosol	cell periphery,vacuole
YDR541C	*YDR541C*	cytosol	ER
YIL169C	*CSS1*	cytosol	cell periphery,vacuole
YDR542W	*PAU10*	cytosol	ER,vacuole
YIL173W	*VTH1*	nucleus	ER,punctate,vacuole
YEL001C	*IRC22*	cytosol	ER
YIR019C	*FLO11*	cytosol	vacuole
YIR039C	*YPS6*	cytosol	ER
YIR041W	*PAU15*	cytosol	vacuole
YML027W	*YOX1*	cytosol	ER,punctate
YOR247W	*SRL1*	cytosol	cell periphery,vacuole
YOR288C	*MPD1*	cytosol	ER
YOR336W	*KRE5*	cytosol	ER
YML130C	*ERO1*	cytosol	ER
YOR365C	*YOR365C*	cytosol	ER
YMR006C	*PLB2*	cytosol	ER,vacuole
YMR008C	*PLB1*	cytosol	ER,punctate
YMR020W	*FMS1*	cytosol	ER
YOR381W	*FRE3*	cytosol	vacuole
YOR382W	*FIT2*	cytosol	cell periphery,vacuole
YMR147W	*LDO45*	cytosol	cell periphery,punctate
YMR149W	*SWP1*	cytosol	ER,vacuole
YER011W	*TIR1*	cytosol	cell periphery,vacuole
YJL002C	*OST1*	cytosol	ER
YER061C	*CEM1*	cytosol	ER
YJL037W	*IRC18*	cytosol	ER,punctate,vacuole
YER076C	*YER076C*	cytosol	ER
YJL052C-A	*YJL052C-A*	cytosol	#N/A
YER150W	*SPI1*	cytosol	cell periphery,vacuole
YJL062W	*LAS21*	cytosol	ER
YFL020C	*PAU5*	cytosol	vacuole
YJL073W	*JEM1*	cytosol	ER,punctate
YFL041W	*FET5*	cytosol	ER
YFL048C	*EMP47*	cytosol	punctate
YJL079C	*PRY1*	cytosol	ER
YFL051C	*YFL051C*	cytosol	cell periphery,punctate
YFL067W	*YFL067W*	cytosol	#N/A
YFR020W	*CSS2*	cytosol	ER
YJL160C	*PIR5*	cytosol	ER,vacuole
YFR026C	*ULI1*	cytosol	ER,punctate
YMR189W	*GCV2*	cytosol	Blank
YPL006W	*NCR1*	cytosol	ER
YMR200W	*ROT1*	cytosol	ER
YPL072W	*UBP16*	cytosol	cell periphery,punctate
YMR209C	*YMR209C*	cytosol	ER

YPL130W	*SPO19*	cytosol	ER,punctate,vacuole
YMR214W	*SCJ1*	cytosol	ER,punctate
YPL154C	*PEP4*	cytosol	ER,punctate
YMR215W	*GAS3*	cytosol	vacuole
YPL189W	*GUP2*	cytosol	ER
YMR226C	*ORA1*	cytosol	ER,vacuole
YMR238W	*DFG5*	cytosol	ER
YPL278C	*YPL278C*	cytosol	ER,vacuole
YMR244W	*YMR244W*	cytosol	ER,vacuole
YPL282C	*PAU22*	cytosol	ER,vacuole
YPR121W	*THI22*	cytosol	ER
YFR039C	*OSW7*	cytosol	ER
YJL174W	*KRE9*	cytosol	ER,vacuole
YJL178C	*ATG27*	cytosol	vacuole
YNL160W	*YGP1*	cytosol	ER,vacuole
YOR003W	*YSP3*	cytosol	ER,vacuole
YNL300W	*TOS6*	cytosol	cell periphery,vacuole

Table S4. A list of yeast strains used in this study.

Strain Number	Strain Name	Genotype	Comments	Mating Type	Source
YMS2085	SGA strain	*his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 can1Δ::GAL1pr-SceI::STE2pr-SpHIS5 lyp1Δ::STE3pr-LEU2*	Donor strain for SGA	@	Yofe et al., 2016
YMS7585	Z3 scFV anti HA 1 + ER marker	*his3Δ1 leu2Δ0 met15Δ0 ura3Δ0 can1Δ::STE2pr-sp_HIS5, lyp1Δ, pex3-mNG::URA, Tef2-mCherry-Ppy1::NAT*	Strain designed to mate with HA library for protein visualisation with inducible	@	This study
YMS7587	Z3 scFV anti HA 1 + Vacuolar marker	BY4742 *(his3Δ1 leu2Δ0 lys2Δ0 ura3Δ0) Z3TF::G418, Z3p-AntiHAFrankenbody-yomScarlet::Hyg, VPH1-NeonGreen::URA*	Strain designed to mate with HA library for protein visualisation with inducible signal and constant vacuole NG signal	@	This study
YMS7688	scFV anti-HA ffDronpa	BY4742 *(his3Δ1 leu2Δ0 lys2Δ0 ura3Δ0), Z3TF::G418, Z3p-AntiHAFrankenbody-ffDronpa::Hyg*	Strain designed to mate with HA library for protein visualisation with	@	This study
YMS7752	scFV anti-HA mEOS3.1	BY4742 *(his3Δ1 leu2Δ0 lys2Δ0 ura3Δ0,), Z3TF::G418, Z3p-AntiHAFrankenbody-mEOS3.1::Hyg*	Strain designed to mate with HA library for protein visualisation with	@	This study
YMS7837	scFV anti-HA	*BY4742* (his3Δ1 leu2Δ0 lys2Δ0 ura3Δ0), Z3TF::G418, Z3p-AntiHAFrankenbody-yomScarlet::Hyg	Strain designed to mate with HA library for protein visualisation with inducible signal	@	This study

Table S5. A list of plasmids used in this study.

Plasmid number	Plasmid name	Description	Reference
pMS778	Z3 transcription factor (TF)	plasmid for yeast integration with Z3 transcription factor	McIsaac et al., 2013
pMS1218	N-SWAT donor HA	N SWAT donor plasmid	This study
pMS1219	N-SWAT donor SP-HA	N SWAT donor plasmid with a signal peptide	This study
pMS1220	N-SWAT donor MTS-HA	N SWAT donor plasmid with mitochondrial targeting signal	This study
pMS1651	Z3pr-scFV anti HA-yomSCarletI3 in BACTERIAL vector	plasmid for yeast integration with Z3 promoter of anti-HA nanobody and its Z3 transcription factor in bacterial vector	This study
pMS1652	Z3pr-scFV anti HA-yomScarletI3	plasmid for yeast integration with Z3 promoter of anti-HA nanobody and its Z3 transcription factor	This study
pMS1735	Z3-scFV(Anti HA)-ffDoronpaGreen1	plasmid for yeast integration with Z3 promoter of anti-HA nanobody and its Z3 transcription factor and HO locus integration	This study
pMS1736	Z3-scFV(Anti HA)-mEOS3.1	plasmid for yeast integration with Z3 promoter of anti-HA nanobody and its Z3 transcription factor and HO locus integration	This study
pMS1190	NG pYM C tagging plasmid	C-tagging Vph1 and Sec63 with NeonGreen	This study

Table S6. A list of primers used in this study.

Name	Sequence	Primer number	Description
Z3TF in YPRCdelta15 F	cttagtgcttgtatatgctcatcccgaccttccattactcTTGAATCGCCTCTACCTTGCAG	MS9369	Primers used to integrate Z3TF into YPRCdelta15 locus-Forward
Z3TF in YPRCdelta15 R	aaatttcaaatccgaacaacagagcatagggtttcgcaaaTAGGTCGATGCCATCTTTGTACA	MS9370	Primers used to integrate Z3TF into YPRCdelta15 locus-Reverse
YPRCdelta15 CHK R	TCAAAACACTCGGTTTTACTCGA	MS9158	Primers for check PCR of Z3TF into YPRCdelta15 locus-Reverse
TEF Promoter R	CTGCAGCGAGGAGCCGTAAT	MS1590	Primers for check PCR of Z3TF into YPRCdelta15 locus-Reverse
Z3 into HO F	aaatccatatcctcataagcagcaatcaattctatctataCTGGCGACTTGTAGTATATGTAAAT	MS9832	Insert Z3pr cassete into HO locus - Forward
Z3 into HO R	aaattttacttttattacatacaacttttttaaactaatatCAGTATAGCGACCAGCATTC	MS9833	Insert Z3pr cassete into HO locus- Reverse
scFV in HO F	CATATCCTCATAAGCAGCAATCAATTCTATCTATACTTTATATGGTAAAAAATTTGCCAAACCTG	MS9727	Primers for Z3-scFV-mScarlet/ffDronpa/mEOS3.1 integration into HO locus- Forward
scFV in HO R	TTTATTACATACAACTTTTTAAACTAATATACACATTTTAGCAGTATAGCGACCAGCATTCA	MS9728	Primers for Z3-scFV-mScarlet/ffDronpa/mEOS3.1 integration into HO locus-Reverse
SEC63 C' tag pYM F	CGATACGGATACAGAAGCTGAAGATGATGAATCACCAGAAcgtacgctgcaggtcgac	MS8632	NG C-tagging Sec63 using pMS1190-Forward
SEC63 C' tag pYM R	AAGAGCTAAAATGAAAAACTATACTAATCACTTATATCTAatcgatgaattcgagctcg	MS8633	NG C-tagging Sec63 using pMS1190-Reverse
SEC63 C' tag CHK F	TTTCCCTACAAAGAGACGTG	MS3021	Check PCR NG C-tagging Sec63-Forward
NeonGreen check R	gcaagtattggtggaaaccgtaa	MS7623	Check PCR NG C-tagging -Reverse
VPH1 C' tag pYM F	GGAAGTCGCTGTTGCTAGTGCAAGCTCTTCCGCTTCAAGCcgtacgctgcaggtcgac	MS5013	NG C-tagging Vph1-Forward
VPH1 C' tag pYM R	ACTTAAATGTTTCGCTTTTTTTAAAAGTCCTCAAAATTTAatcgatgaattcgagctcg	MS5014	NG C-tagging Vph1 -Reverse
VPH1 C' tag check F	CGCTGAAGAAGAAGAAGTTG	MS3024	Check PCR NG C-tagging Vph1-Forward
sfGFP check F	acccagaccatatgaaaagg	MS3179	Check PCR to the strains of N' GFP
HA tag check F	CCTATCCATATGACGTTCCAGAT	MS9398	Check PCR to the strains of N' HA library-

CPS1 SWAT N' tag pYM check R	CTTTCTCCAATTTCAAATGC	MS9644	Check PCR CPS1-Reverse
SCS22 WT check R	ACGATCAAGAATTTGTCTCG	MS7079	Check PCR SCS22-Reverse
OM14 SWAT N tag pYM check R	GTTTCCCCTTCAAGAATCTG	MS3978	Check PCR OM14-Reverse

primers for chk PCR of library:

ORF	primer	Description
CCC1	GTAATGACCAATTTCGCATC	Reverse primer for HA cassete integration check
CSR1	AGTACAAATCGTGACCCAAC	Reverse primer for HA cassete integration check
ERI1	TACTTGCGAACATTTCACTG	Reverse primer for HA cassete integration check
NPL4	TCCTCATCTACAGCGAGTTC	Reverse primer for HA cassete integration check
OSH3	CTTGACCAAAGTGAATCCTG	Reverse primer for HA cassete integration check
TBS1	CTTAACCGACTTCCCATTTC	Reverse primer for HA cassete integration check
VBA3	GTTAGCCCCAGTAGGAAAAG	Reverse primer for HA cassete integration check
VTC2	GGAAGGCAATTCCTTTAATC	Reverse primer for HA cassete integration check
ATP19	TGAATTTTTCCTCGTCTTTG	Reverse primer for HA cassete integration check
CDC13	GCTGCTATTTGTCGATTTTG	Reverse primer for HA cassete integration check
CDC40	ATCCTCTGCCTTGATAGTCC	Reverse primer for HA cassete integration check
CLN1	GGGACCATAAAACCTACCAC	Reverse primer for HA cassete integration check
ETP1	AATTAAAACCCATTCCCTTC	Reverse primer for HA cassete integration check
FYV8	AGCCCTATTTGTATGTGGTG	Reverse primer for HA cassete integration check
GUS1	AAGTGTACCAACGAGAAACG	Reverse primer for HA cassete integration check
IES5	TAAGCATCCATTAGCTCCTC	Reverse primer for HA cassete integration check
IMA5	TTTCTCATCGTAACCCTTTG	Reverse primer for HA cassete integration check
NUP42	ACCGAACTAGAAGGGATAGC	Reverse primer for HA cassete integration check
PDR1	AACCGTTTCTATTCACATCG	Reverse primer for HA cassete integration check
PUS7	TTATTAGCCGTGCGATAAAC	Reverse primer for HA cassete integration check
RPL11A	CTCTAGCACCTGGTCTGTTC	Reverse primer for HA cassete integration check
RPS16B	AAAAGGGTGAAACAAGTGAG	Reverse primer for HA cassete integration check
RPT1	ATCTTCATCGTCTTCGTCTG	Reverse primer for HA cassete integration check
RTG3	TTCATTGCTCTATCCACAGG	Reverse primer for HA cassete integration check
SEN15	TCAATTTCTTTTCGGTTTTC	Reverse primer for HA cassete integration check

TRI1	AGCTGACAACAGAACTTTGC	Reverse primer for HA cassete integration check
ZAP1	TACCGAATGGAAATTGTTTG	Reverse primer for HA cassete integration check
AIM17	TGTAAAGGGAACTGGTGATG	Reverse primer for HA cassete integration check
ATG27	GTAAGCGCACTCTCAGTTTC	Reverse primer for HA cassete integration check
BAR1	ACTACCGTCAGCAAATGTTC	Reverse primer for HA cassete integration check
CDC9	GCCTCAATCTTGTTAAAAACC	Reverse primer for HA cassete integration check
CMC4	GTGTAAGCTTTCGCTGTTTC	Reverse primer for HA cassete integration check
COA1	TTCCAGTAACGTTTTTGTCC	Reverse primer for HA cassete integration check
DDR2	CTAAATCAAAAAGGCCAAAG	Reverse primer for HA cassete integration check
DFG5	AAAACAGCTTGTACCATTGC	Reverse primer for HA cassete integration check
ESC8	TTTGCAAAGTCAGAATATCG	Reverse primer for HA cassete integration check
ESF2	GTCTCATTTTTGCAGGTTTC	Reverse primer for HA cassete integration check
FPR2	ACCAATTCGACATCAAACAC	Reverse primer for HA cassete integration check
FRE3	ATACGTAAGATTCGCGCTAC	Reverse primer for HA cassete integration check
GCV2	TATAACCGGTGGTAAAATCG	Reverse primer for HA cassete integration check
HHF1	TTCAAAGCATAAACAACATCC	Reverse primer for HA cassete integration check
ICL2	AGCCCAACCAGATATGTAAG	Reverse primer for HA cassete integration check
ILS1	TCCAATCACTGGCATAAGTC	Reverse primer for HA cassete integration check
KNH1	AATTCTTGTTTGTGCCTCTG	Reverse primer for HA cassete integration check
MRPS16	TCACTCCAATGTTTCCATTC	Reverse primer for HA cassete integration check
NMD3	GTATTTGTCATGGCTTCTCC	Reverse primer for HA cassete integration check
PAU13	ATACCGTCCTTGGATAGAGC	Reverse primer for HA cassete integration check
PUT1	CAGAGCTGATTGTTTCCTTG	Reverse primer for HA cassete integration check
RPS4B	GAAAGACAATCAATGGCAAG	Reverse primer for HA cassete integration check
TMN3	AACGTTTCACATGGATTGTC	Reverse primer for HA cassete integration check
VTH2	GTCGCAAAAATAATTCGATG	Reverse primer for HA cassete integration check
XKS1	TCTAACAGAGATTCGGCTTG	Reverse primer for HA cassete integration check
YME2	ACAAATGTGGCAAATACACC	Reverse primer for HA cassete integration check
YNL260C	CAAAGACTTCAAATGTCACG	Reverse primer for HA cassete integration check
YPI1	CCTTTCCAATCTTCTTTGTC	Reverse primer for HA cassete integration check
HA tag Fw	CCTATCCATATGACGTTCCAGAT	Forward primer for HA cassete integration check
ACT1 Fw	TGTCACCAACTGGGACGATA	Forward primer for actin loading control
ACT1 Rv	GGCTTGGATGGAAACGTAGA	Reverse primer for actin loading control

Table S7. A list of antibodies used in this study.

Antibody name	**Type**	**Source**	**Catalogue number**	**Dilution**
Histone H3	Rabbit polyclonal	Abcam	ab1791	1:5000
Anti HA used for western	Mouse monoclonal	BioLegend	901502 (previously MMS-101P)	1:1000
Anti HA used for dot blot	Rat monoclonal	Roche	11867423001	1:1000
IRDye 800CW Goat anti-rat	Goat anti rat secondery	LiCor	92632219	1:10,000
IRDye 680RD Goat anti-mouse	Goat anti mouse secondery	Abcam	ab216776	1:10,000
IRDye 800CW Goat anti-rabbit	Goat anti rabbit secondery	Abcam	ab216773	1:10,000