Dataset S1. SNO-proteins identified following treatment of yeast lysates with SNO-CoA.

ORF	Protein name and function
	YAL005C SSA1 SGDID:S000000004, Chr I from 141433-139505, reverse complement, Verified
	ORF, ATPase involved in protein folding and nuclear localization signal (NLS)-directed nuclear
	transport; member of heat shock protein 70 (HSP70) family; forms a chaperone complex with
YAL005C	Ydj1p; localized to the nucleus
	YAL038W CDC19 SGDID:S000000036, Chr I from 71787-73289, Verified ORF, Pyruvate
YAL038W	kinase
	YAR010C YAR010C SGDID:S000000068, Chr I from 165867-164545, reverse complement,
	transposable_element_gene, Retrotransposon TYA Gag gene co-transcribed with TYB Pol; in
YAR010C	YARCTY1-1 TYB is mutant and probably non-functional""
	YBL024W NCL1 SGDID:S000000120, Chr II from 172537-174591, Verified ORF, S-adenosyl-
YBL024W	L-methionine-dependent tRNA: m5C-methyltransferase
	YBL027W RPL19B SGDID:S000000123, Chr II from 168426-168427,168812-169379, Verified
YBL027W	ORF, Protein component of the large (60S) ribosomal subunit
	YBL030C PET9 SGDID:S000000126, Chr II from 164000-163044, reverse complement,
YBL030C	Verified ORF, Major ADP/ATP carrier of the mitochondrial inner membrane
	YBL039C URA7 SGDID:S000000135, Chr II from 145731-143992, reverse complement,
YBL039C	Verified ORF, Major CTP synthase isozyme (see also URA8)
	YBL072C RPS8A SGDID:S000000168, Chr II from 89123-88521, reverse complement, Verified
	ORF, Protein component of the small (40S) ribosomal subunit; identical to Rps8Bp and has
YBL072C	similarity to rat S8 ribosomal protein""
	YBL076C ILS1 SGDID:S000000172, Chr II from 84259-81041, reverse complement, Verified
YBL076C	ORF, Cytoplasmic isoleucine-tRNA synthetase
	YBL087C RPL23A SGDID:S000000183, Chr II from 60735-60694,60189-59818, reverse
YBL087C	complement, Verified ORF, Protein component of the large (60S) ribosomal subunit
	YBR025C OLA1 SGDID:S000000229, Chr II from 291865-290681, reverse complement,
	Verified ORF, P-loop ATPase with similarity to human OLA1 and bacterial YchF; identified as
YBR025C	specifically interacting with the proteasome; protein levels are induced by hydrogen peroxide""
	YBR031W RPL4A SGDID:S000000235, Chr II from 300166-301254, Verified ORF, N-
YBR031W	terminally acetylated protein component of the large (60S) ribosomal subunit
	YBR034C HMT1 SGDID:S000000238, Chr II from 305976-304930, reverse complement,
	Verified ORF, Nuclear SAM-dependent mono- and asymmetric arginine dimethylating
YBR034C	methyltransferase that modifies hnRNPs
	YBR048W RPS11B SGDID:S000000252, Chr II from 332829-332873,333385-333810, Verified
	ORF, Protein component of the small (40S) ribosomal subunit; identical to Rps11Ap and has
YBR048W	similarity to E. coli S17 and rat S11 ribosomal proteins""
	YBR056W YBR056W SGDID:S000000260, Chr II from 347877-349382, Uncharacterized ORF,
YBR056W	Putative cytoplasmic protein of unknown function""
	YBR061C TRM7 SGDID:S000000265, Chr II from 365717-364785, reverse complement,
YBR061C	Verified ORF, 2'-O-ribose methyltransferase
	YBR118W TEF2 SGDID:S000000322, Chr II from 477665-479041, Verified ORF, Translational
	elongation factor EF-1 alpha; also encoded by TEF1; functions in the binding reaction of
YBR118W	aminoacyl-tRNA (AA-tRNA) to ribosomes""
	YBR121C GRS1 SGDID:S000000325, Chr II from 483361-481358, reverse complement,
	Verified ORF, Cytoplasmic and mitochondrial glycyl-tRNA synthase that ligates glycine to the
	cognate anticodon bearing tRNA; transcription termination factor that may interact with the 3'-end
YBR121C	of pre-mRNA to promote 3'-end formation""
	YBR143C SUP45 SGDID:S000000347, Chr II from 532176-530863, reverse complement,
	Verified ORF, Polypeptide release factor (eRF1) in translation termination; mutant form acts as a
	recessive omnipotent suppressor; methylated by Mtq2p-Trm112p in ternary complex eRF1-eRF3-
	GTP; mutation of methylation site confers resistance to zymocin""
ALD4	

	YBR151W APD1 SGDID:S000000355, Chr II from 545022-545972, Verified ORF, Protein of
YBR151W	unknown function
	YBR181C RPS6B SGDID:S000000385, Chr II from 592769-592764,592411-591707, reverse
	complement, Verified ORF, Protein component of the small (40S) ribosomal subunit; identical to
YBR181C	Rps6Ap and has similarity to rat S6 ribosomal protein""
	YBR191W RPL21A SGDID:S000000395, Chr II from 606265-606275,606664-607135, Verified
YBR191W	ORF, Protein component of the large (60S) ribosomal subunit
	YBR222C PCS60 SGDID:S000000426, Chr II from 668346-666715, reverse complement,
YBR222C	Verified ORF, Peroxisomal AMP-binding protein
	YBR234C ARC40 SGDID:S000000438, Chr II from 686587-685433, reverse complement,
YBR234C	Verified ORF, Subunit of the ARP2/3 complex
	YBR248C HIS7 SGDID:S000000452, Chr II from 716460-714802, reverse complement, Verified
YBR248C	ORF, Imidazole glycerol phosphate synthase (glutamine amidotransferase:cyclase)
	YBR249C ARO4 SGDID:S000000453, Chr II from 717989-716877, reverse complement,
YBR249C	Verified ORF, 3-deoxy-D-arabino-heptulosonate-7-phosphate (DAHP) synthase
	YCL030C HIS4 SGDID:S000000535, Chr III from 68333-65934, reverse complement, Verified
YCL030C	ORF, Multifunctional enzyme containing phosphoribosyl-ATP pyrophosphatase
YCL040W	YCL040W GLK1 SGDID:S000000545, Chr III from 50838-52340, Verified ORF, Glucokinase
10201011	YCL043C PDI1 SGDID:S000000548, Chr III from 50221-48653, reverse complement, Verified
YCL043C	ORF, Protein disulfide isomerase
TCE0+3C	YCL050C APA1 SGDID:S000000555, Chr III from 38801-37836, reverse complement, Verified
YCL050C	ORF, Diadenosine 5'
1 CL030C	YCL064C CHA1 SGDID:S000000569, Chr III from 16880-15798, reverse complement, Verified
YCL064C	ORF, Catabolic L-serine (L-threonine) deaminase
1CL004C	YCR012W PGK1 SGDID:S000000605, Chr III from 137744-138994, Verified ORF, 3-
YCR012W	phosphoglycerate kinase
1 CKU12 W	YCR053W THR4 SGDID:S000000649, Chr III from 216693-218237, Verified ORF, Threonine
YCR053W	synthase
1 CK055 W	YCR073W-A SOL2 SGDID:S000000718, Chr III from 246960-247907, Verified ORF, Protein
	with a possible role in tRNA export; shows similarity to 6-phosphogluconolactonase non-catalytic
YCR073W-A	domains but does not exhibit this enzymatic activity; homologous to Sol1p
ICKU/3W-A	YCR088W ABP1 SGDID:S00000684, Chr III from 265065-266843, Verified ORF, Actin-
VCDOOW	
YCR088W	binding protein of the cortical actin cytoskeleton
	YDL007W RPT2 SGDID:S000002165, Chr IV from 438045-439358, Verified ORF, One of six
VDI 007VI	ATPases of the 19S regulatory particle of the 26S proteasome involved in the degradation of
YDL007W	ubiquitinated substrates; required for normal peptide hydrolysis by the core 20S particle"
ANDI OZZIVI	YDL022W GPD1 SGDID:S000002180, Chr IV from 411823-412998, Verified ORF, NAD-
YDL022W	dependent glycerol-3-phosphate dehydrogenase
ANDI O 10 C	YDL040C NAT1 SGDID:S000002198, Chr IV from 381435-378871, reverse complement,
YDL040C	Verified ORF, Subunit of the N-terminal acetyltransferase NatA (Nat1p
	YDL055C PSA1 SGDID:S000002213, Chr IV from 356759-355674, reverse complement,
YDL055C	Verified ORF, GDP-mannose pyrophosphorylase (mannose-1-phosphate guanyltransferase)
100000	YDL061C RPS29B SGDID:S000002219, Chr IV from 340798-340628, reverse complement,
	Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly identical to
YDL061C	Rps29Ap and has similarity to rat S29 and E. coli S14 ribosomal proteins"
IDLOUIC	YDL084W SUB2 SGDID:S000002242, Chr IV from 305237-306577, Verified ORF, Component
	of the TREX complex required for nuclear mRNA export; member of the DEAD-box RNA
VDI 094W	helicase superfamily and is involved in early and late steps of spliceosome assembly; homolog of
YDL084W	the human splicing factor hUAP56""  VDL 007C RRN6 SCDID: \$000002255. Chr IV from 286605. 285201. rayorsa complement.
VDI 007C	YDL097C RPN6 SGDID:S000002255, Chr IV from 286695-285391, reverse complement,
YDL097C	Verified ORF, Essential

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	YDL100C GET3 SGDID:S000002258, Chr IV from 283176-282112, reverse complement,
	Verified ORF, Guanine nucleotide exchange factor for Gpa1p; amplifies G protein signaling;
YDL100C	subunit of the GET complex
	YDL103C QRI1 SGDID:S000002261, Chr IV from 276581-275148, reverse complement,
YDL103C	Verified ORF, UDP-N-acetylglucosamine pyrophosphorylase
	YDL126C CDC48 SGDID:S000002284, Chr IV from 238664-236157, reverse complement,
YDL126C	Verified ORF, ATPase in ER
	YDL131W LYS21 SGDID:S000002289, Chr IV from 227393-228715, Verified ORF,
YDL131W	Homocitrate synthase isozyme
IDLISTW	YDL136W RPL35B SGDID:S000002295, Chr IV from 217600-217602,218008-218367, Verified
VDI 126W	
YDL136W	ORF, Protein component of the large (60S) ribosomal subunit
******	YDL143W CCT4 SGDID:S000002302, Chr IV from 199997-201583, Verified ORF, Subunit of
YDL143W	the cytosolic chaperonin Cct ring complex
YDL147W	YDL147W RPN5 SGDID:S000002306, Chr IV from 190925-192262, Verified ORF, Essential
	YDL160C DHH1 SGDID:S000002319, Chr IV from 171931-170411, reverse complement,
YDL160C	Verified ORF, Cytoplasmic DExD/H-box helicase
IDLIOC	YDL182W LYS20 SGDID:S000002341, Chr IV from 133438-134724, Verified ORF,
VDI 192W	
YDL182W	Homocitrate synthase isozyme
	YDL185W TFP1 SGDID:S000002344, Chr IV from 126788-130003, Verified ORF, Subunit A of
	the eight-subunit V1 peripheral membrane domain of the vacuolar H+-ATPase; protein precursor
YDL185W	undergoes self-catalyzed splicing to yield the extein Tfp1p and the intein Vde (PI-SceI)
	YDL229W SSB1 SGDID:S000002388, Chr IV from 44066-45907, Verified ORF, Cytoplasmic
YDL229W	ATPase that is a ribosome-associated molecular chaperone
	YDL236W PHO13 SGDID:S000002395, Chr IV from 32296-33234, Verified ORF, Alkaline
YDL236W	phosphatase specific for p-nitrophenyl phosphate; also has protein phosphatase activity""
	YDR002W YRB1 SGDID:S000002409, Chr IV from 453043-453648, Verified ORF, Ran
YDR002W	GTPase binding protein; involved in nuclear protein import and RNA export
	YDR012W RPL4B SGDID:S000002419, Chr IV from 471851-472939, Verified ORF, Protein
YDR012W	component of the large (60S) ribosomal subunit
IBROIL	YDR023W SES1 SGDID:S000002430, Chr IV from 489506-490894, Verified ORF, Cytosolic
YDR023W	seryl-tRNA synthetase
1 DK023 W	YDR035W ARO3 SGDID:S000002442, Chr IV from 521814-522926, Verified ORF, 3-deoxy-D-
VDD025W	
YDR035W	arabino-heptulosonate-7-phosphate (DAHP) synthase
	YDR037W KRS1 SGDID:S000002444, Chr IV from 525438-527213, Verified ORF, Lysyl-
YDR037W	tRNA synthetase""
	YDR047W HEM12 SGDID:S000002454, Chr IV from 551859-552947, Verified ORF,
YDR047W	Uroporphyrinogen decarboxylase
	YDR099W BMH2 SGDID:S000002506, Chr IV from 653605-654426, Verified ORF, 14-3-3
YDR099W	protein
	YDR127W ARO1 SGDID:S000002534, Chr IV from 704482-709248, Verified ORF,
YDR127W	Pentafunctional arom protein
121(12) 11	YDR129C SAC6 SGDID:S000002536, Chr IV from 715377-715357,715245-713338, reverse
YDR129C	complement, Verified ORF, Fimbrin
I DK129C	
VDD170V	YDR158W HOM2 SGDID:S000002565, Chr IV from 770355-771452, Verified ORF, Aspartic
YDR158W	beta semi-aldehyde dehydrogenase
	YDR170W-A YDR170W-A SGDID:S000007227, Chr IV from 803193-804515,
	transposable_element_gene, Retrotransposon TYA Gag gene; Gag is a nucleocapsid protein that
	is the structural constituent of virus-like particles (VLPs); similar to retroviral Gag; YDR170W-A
YDR170W-A	is part of a mutant retrotransposon""
	YDR188W CCT6 SGDID:S000002596, Chr IV from 836419-838059, Verified ORF, Subunit of
YDR188W	the cytosolic chaperonin Cct ring complex
	YDR212W TCP1 SGDID:S000002620, Chr IV from 887230-888909, Verified ORF, Alpha
YDR212W	subunit of chaperonin-containing T-complex
1111212 11	sacame of emperonin containing 1 complex

	YDR214W AHA1 SGDID:S000002622, Chr IV from 892873-893925, Verified ORF, Co-
YDR214W	chaperone that binds to Hsp82p and activates its ATPase activity; similar to Hch1p; expression is
	regulated by stresses such as heat shock""
	YDR226W ADK1 SGDID:S000002634, Chr IV from 916483-917151, Verified ORF, Adenylate
YDR226W	kinase
	YDR233C RTN1 SGDID:S000002641, Chr IV from 930354-929467, reverse complement,
	Verified ORF, ER membrane protein that interacts with Sey1p to maintain ER morphology;
YDR233C	interacts with exocyst subunit Sec6p
1	YDR234W LYS4 SGDID:S000002642, Chr IV from 931126-933207, Verified ORF,
YDR234W	Homoaconitase
	YDR261C-D YDR261C-D SGDID:S000007395, Chr IV from 992346-991042,991040-987531,
	reverse complement, transposable_element_gene, Retrotransposon TYA Gag and TYB Pol genes;
YDR261C-D	in YDRCTY1-3 TYB is mutant and probably non-functional""
	YDR300C PRO1 SGDID:S000002708, Chr IV from 1062788-1061502, reverse complement,
YDR300C	Verified ORF, Gamma-glutamyl kinase
	YDR321W ASP1 SGDID:S000002729, Chr IV from 1108700-1109845, Verified ORF, Cytosolic
YDR321W	L-asparaginase
	YDR341C YDR341C SGDID:S000002749, Chr IV from 1153621-1151798, reverse complement,
YDR341C	Verified ORF, Arginyl-tRNA synthetase
	YDR346C SVF1 SGDID:S000002754, Chr IV from 1168654-1167209, reverse complement,
YDR346C	Verified ORF, Protein with a potential role in cell survival pathways
	YDR354W TRP4 SGDID:S000002762, Chr IV from 1184741-1185883, Verified ORF,
YDR354W	Anthranilate phosphoribosyl transferase of the tryptophan biosynthetic pathway
	YDR361C BCP1 SGDID:S000002769, Chr IV from 1196256-1195405, reverse complement,
YDR361C	Verified ORF, Essential protein involved in nuclear export of Mss4p
	YDR365W-A YDR365W-A SGDID:S000007400, Chr IV from 1206990-1208312,
	transposable_element_gene, Retrotransposon TYA Gag gene co-transcribed with TYB Pol;
	translated as TYA or TYA-TYB polyprotein; Gag is a nucleocapsid protein that is the structural
YDR365W-A	constituent of virus-like particles (VLPs); similar to retroviral Gag""
	YDR368W YPR1 SGDID:S000002776, Chr IV from 1213897-1214835, Verified ORF, NADPH-
YDR368W	dependent aldo-keto reductase
	YDR376W ARH1 SGDID:S000002784, Chr IV from 1226815-1228296, Verified ORF,
YDR376W	Oxidoreductase of the mitochondrial inner membrane
	YDR385W EFT2 SGDID:S000002793, Chr IV from 1243223-1245751, Verified ORF,
YDR385W	Elongation factor 2 (EF-2)
	YDR427W RPN9 SGDID:S000002835, Chr IV from 1322198-1323379, Verified ORF, Non-
YDR427W	ATPase regulatory subunit of the 26S proteasome
	YDR447C RPS17B SGDID:S000002855, Chr IV from 1355546-1355544,1355229-1354822,
	reverse complement, Verified ORF, Ribosomal protein 51 (rp51) of the small (40s) subunit;
YDR447C	nearly identical to Rps17Ap and has similarity to rat S17 ribosomal protein""
	YDR450W RPS18A SGDID:S000002858, Chr IV from 1359916-1359962,1360398-1360791,
	Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly identical to
YDR450W	Rps18Bp and has similarity to E. coli S13 and rat S18 ribosomal proteins""
	YDR502C SAM2 SGDID:S000002910, Chr IV from 1454457-1453303, reverse complement,
YDR502C	Verified ORF, S-adenosylmethionine synthetase
	YEL034W HYP2 SGDID:S000000760, Chr V from 85676-86149, Verified ORF, Translation
YEL034W	elongation factor eIF-5A
	YEL037C RAD23 SGDID:S000000763, Chr V from 82603-81407, reverse complement, Verified
YEL037C	ORF, Protein with ubiquitin-like N terminus
	YEL038W UTR4 SGDID:S000000764, Chr V from 80462-81145, Verified ORF, Protein with
YEL038W	sequence similarity to 2
	YEL046C GLY1 SGDID:S000000772, Chr V from 68792-67629, reverse complement, Verified
YEL046C	ORF, Threonine aldolase
·	YEL047C YEL047C SGDID:S000000773, Chr V from 66797-65385, reverse complement,
YEL047C	Verified ORF, Soluble fumarate reductase
	·

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*****	YEL058W PCM1 SGDID:S000000784, Chr V from 43252-44925, Verified ORF, Essential N-
YEL058W	acetylglucosamine-phosphate mutase; converts GlcNAc-6-P to GlcNAc-1-P
	YEL071W DLD3 SGDID:S000000797, Chr V from 16355-17845, Verified ORF, D-lactate
YEL071W	dehydrogenase
	YER003C PMI40 SGDID:S000000805, Chr V from 159117-159087,158993-157735, reverse
YER003C	complement, Verified ORF, Mannose-6-phosphate isomerase
	YER006W NUG1 SGDID:S000000808, Chr V from 162722-164284, Verified ORF, GTPase that
YER006W	associates with nuclear 60S pre-ribosomes
YER021W	YER021W RPN3 SGDID:S000000823, Chr V from 196947-198518, Verified ORF, Essential
	YER023W PRO3 SGDID:S000000825, Chr V from 201075-201935, Verified ORF, Delta 1-
YER023W	pyrroline-5-carboxylate reductase
	YER025W GCD11 SGDID:S000000827, Chr V from 205250-206833, Verified ORF, Gamma
YER025W	subunit of the translation initiation factor eIF2
	YER043C SAH1 SGDID:S000000845, Chr V from 237118-235769, reverse complement,
YER043C	Verified ORF, S-adenosyl-L-homocysteine hydrolase
	YER052C HOM3 SGDID:S000000854, Chr V from 257957-256374, reverse complement,
	Verified ORF, Aspartate kinase (L-aspartate 4-P-transferase); cytoplasmic enzyme that catalyzes
	the first step in the common pathway for methionine and threonine biosynthesis; expression
YER052C	regulated by Gcn4p and the general control of amino acid synthesis""
	YER062C HOR2 SGDID:S000000864, Chr V from 280680-279928, reverse complement,
	Verified ORF, One of two redundant DL-glycerol-3-phosphatases (RHR2/GPP1 encodes the
	other) involved in glycerol biosynthesis; induced in response to hyperosmotic stress and oxidative
YER062C	stress
	YER070W RNR1 SGDID:S000000872, Chr V from 298948-301614, Verified ORF, One of two
	large regulatory subunits of ribonucleotide-diphosphate reductase; the RNR complex catalyzes
YER070W	rate-limiting step in dNTP synthesis
	YER086W ILV1 SGDID:S000000888, Chr V from 328473-330203, Verified ORF, Threonine
YER086W	deaminase
	YER091C MET6 SGDID:S000000893, Chr V from 342163-339860, reverse complement,
YER091C	Verified ORF, Cobalamin-independent methionine synthase
	YER110C KAP123 SGDID:S000000912, Chr V from 382099-378758, reverse complement,
YER110C	Verified ORF, Karyopherin beta
	YER120W SCS2 SGDID:S000000922, Chr V from 401131-401865, Verified ORF, Integral ER
	membrane protein that regulates phospholipid metabolism via an interaction with the FFAT motif
YER120W	of Opi1p
	YER165W PAB1 SGDID:S000000967, Chr V from 510368-512101, Verified ORF, Poly(A)
YER165W	binding protein
	YER168C CCA1 SGDID:S000000970, Chr V from 522664-521024, reverse complement,
	Verified ORF, ATP (CTP):tRNA-specific tRNA nucleotidyltransferase; different forms targeted
YER168C	to the nucleus
	YER177W BMH1 SGDID:S000000979, Chr V from 545606-546409, Verified ORF, 14-3-3
YER177W	protein
	YFL022C FRS2 SGDID:S000001872, Chr VI from 95008-93497, reverse complement, Verified
YFL022C	ORF, Alpha subunit of cytoplasmic phenylalanyl-tRNA synthetase
	YFL037W TUB2 SGDID:S000001857, Chr VI from 56335-57708, Verified ORF, Beta-tubulin;
YFL037W	associates with alpha-tubulin (Tub1p and Tub3p) to form tubulin dimer
	YFL039C ACT1 SGDID:S000001855, Chr VI from 54695-54686,54377-53260, reverse
YFL039C	complement, Verified ORF, Actin
	YFL045C SEC53 SGDID:S000001849, Chr VI from 44392-43628, reverse complement, Verified
YFL045C	ORF, Phosphomannomutase
	YFR004W RPN11 SGDID:S000001900, Chr VI from 153388-154308, Verified ORF,
	Metalloprotease subunit of the 19S regulatory particle of the 26S proteasome lid; couples the
YFR004W	deubiquitination and degradation of proteasome substrates; involved

	YFR007W YFH7 SGDID:S000001903, Chr VI from 159293-160354, Verified ORF, Putative
	kinase with similarity to the phosphoribulokinase/uridine kinase/bacterial pantothenate kinase
YFR007W	(PRK/URK/PANK) subfamily of P-loop kinases""
	YFR010W UBP6 SGDID:S000001906, Chr VI from 165060-166559, Verified ORF, Ubiquitin-
YFR010W	specific protease situated in the base subcomplex of the 26S proteasome
	YFR053C HXK1 SGDID:S000001949, Chr VI from 255036-253579, reverse complement,
YFR053C	Verified ORF, Hexokinase isoenzyme 1
	YGL009C LEU1 SGDID:S000002977, Chr VII from 478657-476318, reverse complement,
YGL009C	Verified ORF, Isopropylmalate isomerase
	YGL011C SCL1 SGDID:S000002979, Chr VII from 475252-474494, reverse complement,
	Verified ORF, Alpha 1 subunit of the 20S proteasome involved in the degradation of
WGI 011G	ubiquitinated substrates; 20S proteasome is the core complex of the 26S proteasome; essential for
YGL011C	growth; detected in the mitochondria""
VCI 010W	YGL019W CKB1 SGDID:S000002987, Chr VII from 458161-458997, Verified ORF, Beta
YGL019W	regulatory subunit of casein kinase 2
WCI 020W	YGL039W YGL039W SGDID:S000003007, Chr VII from 423967-425013, Verified ORF,
YGL039W	Oxidoreductase shown to reduce carbonyl compounds to chiral alcohols""
VCI 040C	YGL040C HEM2 SGDID:S000003008, Chr VII from 420561-419533, reverse complement,
YGL040C	Verified ORF, Aminolevulinate dehydratase
VCI 042W	YGL043W DST1 SGDID:S000003011, Chr VII from 417487-418416, Verified ORF, General transcription elongation factor TFIIS
YGL043W	YGL048C RPT6 SGDID:S000003016, Chr VII from 411289-410072, reverse complement,
	Verified ORF, One of six ATPases of the 19S regulatory particle of the 26S proteasome involved
	in the degradation of ubiquitinated substrates; bound by ubiquitin-protein ligases Ubr1p and
YGL048C	Ufd4p; localized mainly to the nucleus throughout the cell cycle"
1 GL0+6C	YGL056C SDS23 SGDID:S000003024, Chr VII from 397624-396041, reverse complement,
	Verified ORF, One of two S. cerevisiae homologs (Sds23p and Sds24p) of the S. pombe Sds23
YGL056C	protein
1020300	protein
	YGL105W ARC1 SGDID:S000003073, Chr VII from 307440-308570, Verified ORF, Protein
YGL105W	that binds tRNA and methionyl- and glutamyl-tRNA synthetases (Mes1p and Gus1p)
	YGL123W RPS2 SGDID:S000003091, Chr VII from 277623-278387, Verified ORF, Protein
YGL123W	component of the small (40S) subunit
	YGL135W RPL1B SGDID:S000003103, Chr VII from 254646-255299, Verified ORF, N-
YGL135W	terminally acetylated protein component of the large (60S) ribosomal subunit
	YGL147C RPL9A SGDID:S000003115, Chr VII from 228334-227759, reverse complement,
YGL147C	Verified ORF, Protein component of the large (60S) ribosomal subunit
	YGL148W ARO2 SGDID:S000003116, Chr VII from 226404-227534, Verified ORF,
YGL148W	Bifunctional chorismate synthase and flavin reductase
	YGL157W YGL157W SGDID:S000003125, Chr VII from 209011-210054, Verified ORF,
YGL157W	NADPH-dependent aldehyde reductase
VOI 1 COV	YGL169W SUA5 SGDID:S000003137, Chr VII from 186065-187345, Verified ORF, Single-
YGL169W	stranded telomeric DNA-binding protein
	YGL189C RPS26A SGDID:S000003157, Chr VII from 148594-148235, reverse complement,
WGI 100G	Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly identical to
YGL189C	Rps26Bp and has similarity to rat S26 ribosomal protein""  VCL 202W A ROS SCRID: S000002170. Chr. VIII from 116062, 117565. Verified ORE: A rematic
VCI 202W	YGL202W ARO8 SGDID:S000003170, Chr VII from 116063-117565, Verified ORF, Aromatic
YGL202W	aminotransferase I
AVOL OC 1777	YGL234W ADE5,7 SGDID:S000003203, Chr VII from 56482-58890, Verified ORF,
YGL234W	Bifunctional enzyme of the 'de novo' purine nucleotide biosynthetic pathway
	YGL245W GUS1 SGDID:S000003214, Chr VII from 39023-41149, Verified ORF, Glutamyl-
VCI 245W	tRNA synthetase (GluRS)
YGL245W	

	VIGN AFANY VIVINA GERMA GERMANA GERMANA GERMANA ANA ANA ANA ANA ANA ANA ANA ANA ANA
	YGL253W HXK2 SGDID:S000003222, Chr VII from 23935-25395, Verified ORF, Hexokinase
	isoenzyme 2 that catalyzes phosphorylation of glucose in the cytosol; predominant hexokinase
	during growth on glucose; functions in the nucleus to repress expression of HXK1 and GLK1 and
YGL253W	to induce expression of its own gene""
	YGR001C YGR001C SGDID:S000003233, Chr VII from 498038-498004,497941-
	497463,497369-497137, reverse complement, Uncharacterized ORF, Putative protein of unknown
	function with similarity to methyltransferase family members; green fluorescent protein (GFP)-
	fusion protein localizes to the cytoplasm; required for replication of Brome mosaic virus in S.
YGR001C	cerevisiae""
	YGR007W MUQ1 SGDID:S000003239, Chr VII from 506973-507944, Verified ORF, Choline
YGR007W	phosphate cytidylyltransferase
1 GROOT VI	YGR054W YGR054W SGDID:S000003286, Chr VII from 596697-598625, Verified ORF,
	Eukaryotic initiation factor (eIF) 2A; associates specifically with both 40S subunits and 80 S
YGR054W	ribosomes
1 GR034 W	YGR061C ADE6 SGDID:S000003293, Chr VII from 615969-611893, reverse complement,
VCD061C	
YGR061C	Verified ORF, Formylglycinamidine-ribonucleotide (FGAM)-synthetase
YGR080W	YGR080W TWF1 SGDID:S000003312, Chr VII from 642014-643012, Verified ORF, Twinfilin
	YGR085C RPL11B SGDID:S000003317, Chr VII from 648911-648387, reverse complement,
YGR085C	Verified ORF, Protein component of the large (60S) ribosomal subunit
	YGR094W VAS1 SGDID:S000003326, Chr VII from 672190-675504, Verified ORF,
YGR094W	Mitochondrial and cytoplasmic valyl-tRNA synthetase""
	YGR118W RPS23A SGDID:S000003350, Chr VII from 726978-727042,727363-727735,
YGR118W	Verified ORF, Ribosomal protein 28 (rp28) of the small (40S) ribosomal subunit
	YGR123C PPT1 SGDID:S000003355, Chr VII from 738208-736667, reverse complement,
	Verified ORF, Protein serine/threonine phosphatase with similarity to human phosphatase PP5;
	present in both the nucleus and cytoplasm; expressed during logarithmic growth; computational
YGR123C	analyses suggest roles in phosphate metabolism and rRNA processing"
TGK125C	YGR124W ASN2 SGDID:S000003356, Chr VII from 739949-741667, Verified ORF,
YGR124W	Asparagine synthetase
10K124W	YGR180C RNR4 SGDID:S000003412, Chr VII from 856306-855269, reverse complement,
VCD190C	
YGR180C	Verified ORF, Ribonucleotide-diphosphate reductase (RNR)
VCD105C	YGR185C TYS1 SGDID:S000003417, Chr VII from 867525-866341, reverse complement,
YGR185C	Verified ORF, Cytoplasmic tyrosyl-tRNA synthetase
WGD 102G	YGR192C TDH3 SGDID:S000003424, Chr VII from 883815-882817, reverse complement,
YGR192C	Verified ORF, Glyceraldehyde-3-phosphate dehydrogenase
	YGR204W ADE3 SGDID:S000003436, Chr VII from 905939-908779, Verified ORF,
YGR204W	Cytoplasmic trifunctional enzyme C1-tetrahydrofolate synthase
	YGR208W SER2 SGDID:S000003440, Chr VII from 911888-912817, Verified ORF,
YGR208W	Phosphoserine phosphatase of the phosphoglycerate pathway
	YGR214W RPS0A SGDID:S000003446, Chr VII from 920580-920669,921125-921793, Verified
YGR214W	ORF, Protein component of the small (40S) ribosomal subunit
	YGR234W YHB1 SGDID:S000003466, Chr VII from 959908-961107, Verified ORF, Nitric
YGR234W	oxide oxidoreductase
	YGR256W GND2 SGDID:S000003488, Chr VII from 1004630-1006108, Verified ORF, 6-
YGR256W	phosphogluconate dehydrogenase (decarboxylating)
	YGR264C MES1 SGDID:S000003496, Chr VII from 1021859-1019604, reverse complement,
YGR264C	Verified ORF, Methionyl-tRNA synthetase
	YGR285C ZUO1 SGDID:S000003517, Chr VII from 1063160-1061859, reverse complement,
YGR285C	Verified ORF, Cytosolic ribosome-associated chaperone that acts
	YHL001W RPL14B SGDID:S000000993, Chr VIII from 104272-104400,104799-105086,
YHL001W	Verified ORF, Protein component of the large (60S) ribosomal subunit
111200111	YHL013C OTU2 SGDID:S000001005, Chr VIII from 78350-77427, reverse complement,
YHL013C	Verified ORF, Protein of unknown function that may interact with ribosomes
11120150	- Times or , i rotom of unknown function that may interact with hoosomes

	VIII 024C CDD1 CCDID C000001026 Chr VIII from 24075 22101 reverse complement
	YHL034C SBP1 SGDID:S000001026, Chr VIII from 34075-33191, reverse complement,
VIII 024C	Verified ORF, Putative RNA binding protein; involved in translational repression and found in
YHL034C	cytoplasmic P bodies; found associated with small nucleolar RNAs snR10 and snR11""
VIIIDOOZG	YHR007C ERG11 SGDID:S000001049, Chr VIII from 121678-120086, reverse complement,
YHR007C	Verified ORF, Lanosterol 14-alpha-demethylase
**************************************	YHR013C ARD1 SGDID:S000001055, Chr VIII from 131440-130724, reverse complement,
YHR013C	Verified ORF, Subunit of N-terminal acetyltransferase NatA (Nat1p
	YHR019C DED81 SGDID:S000001061, Chr VIII from 143551-141887, reverse complement,
YHR019C	Verified ORF, Cytosolic asparaginyl-tRNA synthetase
	YHR020W YHR020W SGDID:S000001062, Chr VIII from 143989-146055, Verified ORF,
YHR020W	Protein of unknown function that may interact with ribosomes
	YHR021C RPS27B SGDID:S000001063, Chr VIII from 148662-148660,148109-147864, reverse
	complement, Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly
YHR021C	identical to Rps27Ap and has similarity to rat S27 ribosomal protein""
	YHR025W THR1 SGDID:S000001067, Chr VIII from 159431-160504, Verified ORF,
YHR025W	Homoserine kinase
	YHR047C AAP1 SGDID:S000001089, Chr VIII from 201303-198733, reverse complement,
YHR047C	Verified ORF, Arginine/alanine aminopeptidase
	YHR049W FSH1 SGDID:S000001091, Chr VIII from 206455-207186, Verified ORF, Putative
	serine hydrolase that localizes to both the nucleus and cytoplasm; sequence is similar to S.
YHR049W	cerevisiae Fsh2p and Fsh3p and the human candidate tumor suppressor OVCA2""
	YHR063C PAN5 SGDID:S000001105, Chr VIII from 225171-224032, reverse complement,
YHR063C	Verified ORF, 2-dehydropantoate 2-reductase
	YHR064C SSZ1 SGDID:S000001106, Chr VIII from 227143-225527, reverse complement,
	Verified ORF, Hsp70 protein that interacts with Zuo1p (a DnaJ homolog) to form a ribosome-
	associated complex that binds the ribosome via the Zuo1p subunit; also involved in pleiotropic
YHR064C	drug resistance via sequential activation of PDR1 and PDR5; binds ATP""
	YHR068W DYS1 SGDID:S000001110, Chr VIII from 232135-233298, Verified ORF,
YHR068W	Deoxyhypusine synthase
	YHR070W TRM5 SGDID:S000001112, Chr VIII from 234883-236382, Verified ORF,
YHR070W	tRNA(m(1)G37)methyltransferase
	YHR104W GRE3 SGDID:S000001146, Chr VIII from 323412-324395, Verified ORF, Aldose
YHR104W	reductase involved in methylglyoxal
	YHR128W FUR1 SGDID:S000001170, Chr VIII from 362118-362768, Verified ORF, Uracil
YHR128W	phosphoribosyltransferase
YHR174W	YHR174W ENO2 SGDID:S000001217, Chr VIII from 451327-452640, Verified ORF, Enolase II
1111(1717)	YHR183W GND1 SGDID:S000001226, Chr VIII from 470960-472429, Verified ORF, 6-
YHR183W	phosphogluconate dehydrogenase (decarboxylating)
1111(103 \	YHR203C RPS4B SGDID:S000001246, Chr VIII from 505530-505517,505247-504476, reverse
	complement, Verified ORF, Protein component of the small (40S) ribosomal subunit; identical to
YHR203C	Rps4Ap and has similarity to rat S4 ribosomal protein""
111112030	YHR208W BAT1 SGDID:S000001251, Chr VIII from 517532-518713, Verified ORF,
YHR208W	Mitochondrial branched-chain amino acid aminotransferase
1111120011	YHR214C-B YHR214C-B SGDID:S000003534, Chr VIII from 549346-547931,547929-543964,
	reverse complement, transposable_element_gene, Retrotransposon TYA Gag and TYB Pol genes;
	transcribed/translated as one unit; polyprotein is processed to make a nucleocapsid-like protein
YHR214C-B	(Gag)
1111(217(-1)	YHR216W IMD2 SGDID:S000001259, Chr VIII from 554396-555967, Verified ORF, Inosine
YHR216W	monophosphate dehydrogenase
11111/210 44	YIL041W GVP36 SGDID:S000001303, Chr IX from 276524-277504, Verified ORF, BAR
	domain-containing protein that localizes to both early and late Golgi vesicles; required for
YIL041W	adaptation to varying nutrient concentrations
1 1F041 W	YIL044C AGE2 SGDID:S000001306, Chr IX from 273845-272949, reverse complement,
VII 044C	
YIL044C	Verified ORF, ADP-ribosylation factor (ARF) GTPase activating protein (GAP) effector

	YIL053W RHR2 SGDID:S000001315, Chr IX from 255113-255865, Verified ORF,
YIL053W	Constitutively expressed isoform of DL-glycerol-3-phosphatase; involved in glycerol biosynthesis
	YIL078W THS1 SGDID:S000001340, Chr IX from 212496-214700, Verified ORF, Threonyl-
YIL078W	tRNA synthetase
	YIL094C LYS12 SGDID:S000001356, Chr IX from 187629-186514, reverse complement,
YIL094C	Verified ORF, Homo-isocitrate dehydrogenase
	YIL116W HIS5 SGDID:S000001378, Chr IX from 142925-144082, Verified ORF, Histidinol-
YIL116W	phosphate aminotransferase
	YIL142W CCT2 SGDID:S000001404, Chr IX from 83302-84885, Verified ORF, Subunit beta of
YIL142W	the cytosolic chaperonin Cct ring complex
	YJL008C CCT8 SGDID:S000003545, Chr X from 421656-419950, reverse complement, Verified
YJL008C	ORF, Subunit of the cytosolic chaperonin Cct ring complex
	YJL014W CCT3 SGDID:S000003551, Chr X from 407551-409155, Verified ORF, Subunit of
YJL014W	the cytosolic chaperonin Cct ring complex
	YJL080C SCP160 SGDID:S000003616, Chr X from 289220-285552, reverse complement,
YJL080C	Verified ORF, Essential RNA-binding G protein effector of mating response pathway
	YJL111W CCT7 SGDID:S000003647, Chr X from 207872-209524, Verified ORF, Subunit of
YJL111W	the cytosolic chaperonin Cct ring complex
	YJL130C URA2 SGDID:S000003666, Chr X from 172363-165719, reverse complement,
	Verified ORF, Bifunctional carbamoylphosphate synthetase (CPSase)-aspartate transcarbamylase
YJL130C	(ATCase)
	YJL136C RPS21B SGDID:S000003672, Chr X from 157269-157246,156785-156546, reverse
	complement, Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly
YJL136C	identical to Rps21Ap and has similarity to rat S21 ribosomal protein""
	YJL138C TIF2 SGDID:S000003674, Chr X from 154687-153500, reverse complement, Verified
YJL138C	ORF, Translation initiation factor eIF4A
	YJL167W ERG20 SGDID:S000003703, Chr X from 105008-106066, Verified ORF, Farnesyl
YJL167W	pyrophosphate synthetase
	YJL190C RPS22A SGDID:S000003726, Chr X from 75301-74909, reverse complement,
	Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly identical to
YJL190C	Rps22Bp and has similarity to E. coli S8 and rat S15a ribosomal proteins""
	YJR007W SUI2 SGDID:S000003767, Chr X from 451012-451926, Verified ORF, Alpha subunit
YJR007W	of the translation initiation factor eIF2
	YJR009C TDH2 SGDID:S000003769, Chr X from 454673-453675, reverse complement,
YJR009C	Verified ORF, Glyceraldehyde-3-phosphate dehydrogenase
	YJR016C ILV3 SGDID:S000003777, Chr X from 466200-464443, reverse complement, Verified
YJR016C	ORF, Dihydroxyacid dehydratase
*****	YJR064W CCT5 SGDID:S000003825, Chr X from 555906-557594, Verified ORF, Subunit of
YJR064W	the cytosolic chaperonin Cct ring complex
***************************************	YJR065C ARP3 SGDID:S000003826, Chr X from 559150-557801, reverse complement,
YJR065C	Verified ORF, Essential component of the Arp2/3 complex
WIDOZOG	YJR070C LIA1 SGDID:S000003831, Chr X from 570590-569613, reverse complement, Verified
YJR070C	ORF, Deoxyhypusine hydroxylase
VID072C	YJR072C NPA3 SGDID:S000003833, Chr X from 572116-570959, reverse complement,
YJR072C	Verified ORF, Essential
VID100W	YJR123W RPS5 SGDID:S000003884, Chr X from 651891-652568, Verified ORF, Protein
YJR123W	component of the small (40S) ribosomal subunit
YJR148W	YJR148W BAT2 SGDID:S000003909, Chr X from 705734-706864, Verified ORF, Cytosolic
	branched-chain amino acid aminotransferase
VVI 024C	YKL024C URA6 SGDID:S000001507, Chr XI from 392783-392169, reverse complement,
YKL024C	Verified ORF, Uridylate kinase YKL035W UGP1 SGDID:S000001518, Chr XI from 369534-371033, Verified ORF, UDP-
YKL035W	glucose pyrophosphorylase (UGPase)
I KLUSS W	grucose pyrophosphorytase (OOr ase)

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	YKL056C TMA19 SGDID:S000001539, Chr XI from 334559-334056, reverse complement,
	Verified ORF, Protein that associates with ribosomes; homolog of translationally controlled tumor
	protein; green fluorescent protein (GFP)-fusion protein localizes to the cytoplasm and relocates to
YKL056C	the mitochondrial outer surface upon oxidative stress""
	YKL060C FBA1 SGDID:S000001543, Chr XI from 327131-326052, reverse complement,
YKL060C	Verified ORF, Fructose 1
	YKL104C GFA1 SGDID:S000001587, Chr XI from 245017-242864, reverse complement,
YKL104C	Verified ORF, Glutamine-fructose-6-phosphate amidotransferase
	YKL127W PGM1 SGDID:S000001610, Chr XI from 203185-204897, Verified ORF,
YKL127W	Phosphoglucomutase
	YKL128C PMU1 SGDID:S000001611, Chr XI from 201415-200528, reverse complement,
YKL128C	Verified ORF, Putative phosphomutase
	YKL145W RPT1 SGDID:S000001628, Chr XI from 174218-175621, Verified ORF, One of six
	ATPases of the 19S regulatory particle of the 26S proteasome involved in the degradation of
	ubiquitinated substrates; required for optimal CDC20 transcription; interacts with Rpn12p and the
YKL145W	E3 ubiquitin-protein ligase Ubr1p""
	YKL182W FAS1 SGDID:S000001665, Chr XI from 100676-106831, Verified ORF, Beta subunit
YKL182W	of fatty acid synthetase
	YKL210W UBA1 SGDID:S000001693, Chr XI from 39164-42238, Verified ORF, Ubiquitin
YKL210W	activating enzyme (E1)
	YKL211C TRP3 SGDID:S000001694, Chr XI from 38154-36700, reverse complement, Verified
	ORF, Bifunctional enzyme exhibiting both indole-3-glycerol-phosphate synthase and anthranilate
YKL211C	synthase activities
	YKR001C VPS1 SGDID:S000001709, Chr XI from 442365-440251, reverse complement,
	Verified ORF, Dynamin-like GTPase required for vacuolar sorting; also involved in actin
YKR001C	cytoskeleton organization
	YKR043C YKR043C SGDID:S000001751, Chr XI from 521354-520539, reverse complement,
*****	Uncharacterized ORF, Putative protein of unknown function; green fluorescent protein (GFP)-
YKR043C	fusion protein localizes to the cytoplasm and nucleus""
	YKR057W RPS21A SGDID:S000001765, Chr XI from 551299-551322,551645-551884,
VIII DOCTIVI	Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly identical to
YKR057W	Rps21Bp and has similarity to rat S21 ribosomal protein"
VIZDOOOW	YKR080W MTD1 SGDID:S000001788, Chr XI from 590037-590999, Verified ORF, NAD-
YKR080W	dependent 5
	YLL024C SSA2 SGDID:S000003947, Chr XII from 97484-95565, reverse complement, Verified
	ORF, ATP binding protein involved in protein folding and vacuolar import of proteins; member
VI I 024C	of heat shock protein 70 (HSP70) family; associated with the chaperonin-containing T-complex;
YLL024C	present in the cytoplasm YLL036C PRP19 SGDID:S000003959, Chr XII from 68255-66744, reverse complement,
VI I 026C	
YLL036C	Verified ORF, Splicing factor associated with the spliceosome; contains a U-box
YLR027C	YLR027C AAT2 SGDID:S000004017, Chr XII from 198086-196830, reverse complement, Verified ORF, Cytosolic aspartate aminotransferase
1 LNU2/C	YLR044C PDC1 SGDID:S000004034, Chr XII from 234082-232391, reverse complement,
YLR044C	
I LNU44C	Verified ORF, Major of three pyruvate decarboxylase isozymes  YLR048W RPS0B SGDID:S000004038, Chr XII from 242233-242322,242682-243350, Verified
VI DOJOW	
YLR048W	ORF, Protein component of the small (40S) ribosomal subunit YLR058C SHM2 SGDID:S000004048, Chr XII from 259402-257993, reverse complement,
YLR058C	
LINUJOU	Verified ORF, Cytosolic serine hydroxymethyltransferase  YLR060W FRS1 SGDID:S000004050, Chr XII from 260980-262767, Verified ORF, Beta
VI DOCOW	
YLR060W	subunit of cytoplasmic phenylalanyl-tRNA synthetase  VI PO75W PPI 10 SCDID:S00004065 Chr VII from 282028 282502 Varified OPE Protein
VI DO75W	YLR075W RPL10 SGDID:S000004065, Chr XII from 282928-283593, Verified ORF, Protein
YLR075W	component of the large (60S) ribosomal subunit
	YLR089C ALT1 SGDID:S000004079, Chr XII from 320016-318238, reverse complement,
VI DOOG	Uncharacterized ORF, Alanine transaminase (glutamic pyruvic transaminase); involved in alanine
YLR089C	biosynthetic and catabolic processes; the authentic

	YLR109W AHP1 SGDID:S000004099, Chr XII from 368782-369312, Verified ORF, Thiol-
YLR109W	
1 LK109 W	specific peroxiredoxin  YLR134W PDC5 SGDID:S000004124, Chr XII from 410724-412415, Verified ORF, Minor
VI D124W	
YLR134W	isoform of pyruvate decarboxylase
VI D152C	YLR153C ACS2 SGDID:S000004143, Chr XII from 447576-445525, reverse complement,
YLR153C	Verified ORF, Acetyl-coA synthetase isoform which
	YLR157C-B YLR157C-B SGDID:S000007374, Chr XII from 481602-480298,480296-476334,
	reverse complement, transposable_element_gene, Retrotransposon TYA Gag and TYB Pol genes;
YLR157C-B	transcribed/translated as one unit; polyprotein is processed to make a nucleocapsid-like protein (Gag)
TLK15/C-B	YLR180W SAM1 SGDID:S000004170, Chr XII from 515264-516412, Verified ORF, S-
YLR180W	adenosylmethionine synthetase
ILKIOUW	YLR195C NMT1 SGDID:S000004185, Chr XII from 543306-541939, reverse complement,
YLR195C	Verified ORF, N-myristoyl transferase
1LK193C	YLR244C MAP1 SGDID:S000004234, Chr XII from 626333-625170, reverse complement,
YLR244C	Verified ORF, Methionine aminopeptidase
I LK244C	YLR249W YEF3 SGDID:S000004239, Chr XII from 636782-639916, Verified ORF,
YLR249W	Translational elongation factor 3
1 111147 11	YLR270W DCS1 SGDID:S000004260, Chr XII from 681188-682240, Verified ORF, Non-
YLR270W	essential hydrolase involved in mRNA decapping
1 LK270 W	YLR304C ACO1 SGDID:S000004295, Chr XII from 737550-735214, reverse complement,
YLR304C	Verified ORF, Aconitase
1 LR30+C	Vermed Ord , Neomase
	YLR316C TAD3 SGDID:S000004308, Chr XII from 766358-766250,766181-766130,766073-
YLR316C	765266, reverse complement, Verified ORF, Subunit of tRNA-specific adenosine-34 deaminase
	YLR354C TAL1 SGDID:S000004346, Chr XII from 837356-836349, reverse complement,
YLR354C	Verified ORF, Transaldolase
	YLR355C ILV5 SGDID:S000004347, Chr XII from 839252-838065, reverse complement,
YLR355C	Verified ORF, Acetohydroxyacid reductoisomerase
	YLR359W ADE13 SGDID:S000004351, Chr XII from 844281-845729, Verified ORF,
YLR359W	Adenylosuccinate lyase
	YLR367W RPS22B SGDID:S000004359, Chr XII from 856441-856573,857057-857316,
	Verified ORF, Protein component of the small (40S) ribosomal subunit; nearly identical to
YLR367W	Rps22Ap and has similarity to E. coli S8 and rat S15a ribosomal proteins""
	YLR388W RPS29A SGDID:S000004380, Chr XII from 898651-898821, Verified ORF, Protein
*** ******	component of the small (40S) ribosomal subunit; nearly identical to Rps29Bp and has similarity
YLR388W	to rat S29 and E. coli S14 ribosomal proteins""
*** D 404 G	YLR401C DUS3 SGDID:S000004393, Chr XII from 924448-922442, reverse complement,
YLR401C	Verified ORF, Dihydrouridine synthase
*** 5 400***	YLR432W IMD3 SGDID:S000004424, Chr XII from 1002554-1004125, Verified ORF, Inosine
YLR432W	monophosphate dehydrogenase
VI D 42033	YLR438W CAR2 SGDID:S000004430, Chr XII from 1012498-1013772, Verified ORF, L-
YLR438W	ornithine transaminase (OTAse)
	YLR441C RPS1A SGDID:S000004433, Chr XII from 1018905-1018138, reverse complement,
VI DAA1C	Verified ORF, Ribosomal protein 10 (rp10) of the small (40S) subunit; nearly identical to Rps1Bp
YLR441C	and has similarity to rat S3a ribosomal protein""  VMI 000C EPICA SCDID: \$000004467. Chr. VIII from 252000. 251820. reverse complement.
YML008C	YML008C ERG6 SGDID:S000004467, Chr XIII from 252990-251839, reverse complement, Verified ORF, Delta(24)-sterol C-methyltransferase
1 MILUUSC	YML022W APT1 SGDID:S000004484, Chr XIII from 228937-229500, Verified ORF, Adenine
YML022W	phosphoribosyltransferase
1 WILU22 W	YML028W TSA1 SGDID:S000004490, Chr XIII from 220138-220728, Verified ORF,
YML028W	Thioredoxin peroxidase
1 WILU20 W	YML056C IMD4 SGDID:S000004520, Chr XIII from 164176-163717,163308-162194, reverse
YML056C	complement, Verified ORF, Inosine monophosphate dehydrogenase
TNILOSOC	Complement, Territor Ord, mostic monophosphare denydrogenase

	YML063W RPS1B SGDID:S000004528, Chr XIII from 146482-147249, Verified ORF,
	Ribosomal protein 10 (rp10) of the small (40S) subunit; nearly identical to Rps1Ap and has
YML063W	similarity to rat S3a ribosomal protein""
	YML070W DAK1 SGDID:S000004535, Chr XIII from 133475-135229, Verified ORF,
YML070W	Dihydroxyacetone kinase
	YML085C TUB1 SGDID:S000004550, Chr XIII from 99400-99376,99259-97941, reverse
	complement, Verified ORF, Alpha-tubulin; associates with beta-tubulin (Tub2p) to form tubulin
YML085C	dimer
<b>ID G</b> 00.6 <b>G</b>	YML086C ALO1 SGDID:S000004551, Chr XIII from 97371-95791, reverse complement,
YML086C	Verified ORF, D-Arabinono-1
	YML124C TUB3 SGDID:S000004593, Chr XIII from 23684-23660,23361-22049, reverse
VD 41 104 C	complement, Verified ORF, Alpha-tubulin; associates with beta-tubulin (Tub2p) to form tubulin
YML124C	dimer
VD 41 10 CC	YML126C ERG13 SGDID:S000004595, Chr XIII from 20536-19061, reverse complement,
YML126C	Verified ORF, 3-hydroxy-3-methylglutaryl-CoA (HMG-CoA) synthase
X2 (D020G	YMR038C CCS1 SGDID:S000004641, Chr XIII from 348259-347510, reverse complement,
YMR038C	Verified ORF, Copper chaperone for superoxide dismutase Sod1p
	YMR045C YMR045C SGDID:S000004648, Chr XIII from 362626-361322,361320-357358,
	reverse complement, transposable_element_gene, Retrotransposon TYA Gag and TYB Pol genes;
YMR045C	transcribed/translated as one unit; polyprotein is processed to make a nucleocapsid-like protein
I MR043C	(Gag) YMR079W SEC14 SGDID:S000004684, Chr XIII from 424988-424996,425153-426058,
	Verified ORF, Phosphatidylinositol/phosphatidylcholine transfer protein; involved in regulating
YMR079W	PtdIns
1 WIKO / 9 W	YMR108W ILV2 SGDID:S000004714, Chr XIII from 484083-486146, Verified ORF,
YMR108W	Acetolactate synthase
TWIKTOOW	YMR116C ASC1 SGDID:S000004722, Chr XIII from 500687-500151,499877-499455, reverse
	complement, Verified ORF, G-protein beta subunit and guanine nucleotide dissociation inhibitor
	for Gpa2p; ortholog of RACK1 that inhibits translation; core component of the small (40S)
YMR116C	ribosomal subunit; represses Gcn4p in the absence of amino acid starvation""
TWINTING	Thousand subtility, represses den ip in the desence of animo dela stat varion
	YMR146C TIF34 SGDID:S000004754, Chr XIII from 558523-557480, reverse complement,
YMR146C	Verified ORF, eIF3i subunit of the core complex of translation initiation factor 3 (eIF3)
	YMR170C ALD2 SGDID:S000004780, Chr XIII from 603081-601561, reverse complement,
YMR170C	Verified ORF, Cytoplasmic aldehyde dehydrogenase
	VINDAGE DEVA CODED COCCOCACA CALLO C
10 mansa	YMR205C PFK2 SGDID:S000004818, Chr XIII from 674765-671886, reverse complement,
YMR205C	Verified ORF, Beta subunit of heterooctameric phosphofructokinase involved in glycolysis
VMD217W	YMR217W GUA1 SGDID:S000004830, Chr XIII from 701789-703366, Verified ORF, GMP
YMR217W	synthase
VMD226C	YMR226C YMR226C SGDID:S000004839, Chr XIII from 722395-721592, reverse complement,
YMR226C	Verified ORF, NADP(+)-dependent dehydrogenase; acts on serine
VMD225C	YMR235C RNA1 SGDID:S000004848, Chr XIII from 742734-741511, reverse complement,
YMR235C	Verified ORF, GTPase activating protein (GAP) for Gsp1p
VMD227W	YMR237W BCH1 SGDID:S000004850, Chr XIII from 743748-745922, Verified ORF, Member
YMR237W	of the ChAPs family (Chs5p-Arf1p-binding proteins: Bch1p YMR246W FAA4 SGDID:S000004860, Chr XIII from 759806-761890, Verified ORF, Long
YMR246W	
1 W11\240 W	chain fatty acyl-CoA synthetase YMR285C NGL2 SGDID:S000004898, Chr XIII from 841690-840143, reverse complement,
	Verified ORF, Protein involved in 5.8S rRNA processing; Ccr4p-like RNase required for correct
YMR285C	3'-end formation of 5.8S rRNA at site E; similar to Ngl1p and Ngl3p""
1 1/11/2030	YMR290C HAS1 SGDID:S000004903, Chr XIII from 851590-850073, reverse complement,
	Verified ORF, ATP-dependent RNA helicase; localizes to both the nuclear periphery and
	nucleolus; highly enriched in nuclear pore complex fractions; constituent of 66S pre-ribosomal
YMR290C	particles""
1 1/11\2/UC	Participa

	YMR300C ADE4 SGDID:S000004915, Chr XIII from 867090-865558, reverse complement,
	Verified ORF, Phosphoribosylpyrophosphate amidotransferase (PRPPAT;
YMR300C	amidophosphoribosyltransferase)
	YNL010W YNL010W SGDID:S000004955, Chr XIV from 613637-614362, Uncharacterized
	ORF, Putative protein of unknown function with similarity to phosphoserine phosphatases; green
	fluorescent protein (GFP)-fusion protein localizes to the cytoplasm and nucleus; homozygous
YNL010W	diploid mutant shows an increase in glycogen accumulation""
	YNL045W LAP2 SGDID:S000004990, Chr XIV from 542965-544980, Verified ORF, Leucyl
YNL045W	aminopeptidase yscIV (leukotriene A4 hydrolase) with epoxide hydrolase activity
	YNL112W DBP2 SGDID:S000005056, Chr XIV from 413641-414913,415916-416283, Verified
YNL112W	ORF, Essential ATP-dependent RNA helicase of the DEAD-box protein family
	YNL134C YNL134C SGDID:S000005078, Chr XIV from 373583-372453, reverse complement,
	Uncharacterized ORF, Putative protein of unknown function with similarity to dehydrogenases
	from other model organisms; green fluorescent protein (GFP)-fusion protein localizes to both the
YNL134C	cytoplasm and nucleus and is induced by the DNA-damaging agent MMS""
·	YNL141W AAH1 SGDID:S000005085, Chr XIV from 359598-360641, Verified ORF, Adenine
YNL141W	deaminase (adenine aminohydrolase)
	YNL178W RPS3 SGDID:S000005122, Chr XIV from 302682-303404, Verified ORF, Protein
YNL178W	component of the small (40S) ribosomal subunit
11121/011	YNL207W RIO2 SGDID:S000005151, Chr XIV from 255354-256631, Verified ORF, Essential
	serine kinase involved in the processing of the 20S pre-rRNA into mature 18S rRNA; has
YNL207W	similarity to Rio1p""
11(12207 ()	YNL209W SSB2 SGDID:S000005153, Chr XIV from 252060-253901, Verified ORF,
YNL209W	Cytoplasmic ATPase that is a ribosome-associated molecular chaperone
11(L20) ((	YNL220W ADE12 SGDID:S000005164, Chr XIV from 234414-235715, Verified ORF,
YNL220W	Adenylosuccinate synthase
111122011	YNL239W LAP3 SGDID:S000005183, Chr XIV from 200570-201934, Verified ORF, Cysteine
	aminopeptidase with homocysteine-thiolactonase activity; protects cells against homocysteine
	toxicity; has bleomycin hydrolase activity in vitro; transcription is regulated by galactose via
YNL239W	Gal4p; orthologous to human BLMH""
11(E23) ((	YNL255C GIS2 SGDID:S000005199, Chr XIV from 167791-167330, reverse complement,
YNL255C	Verified ORF, Protein with seven cysteine-rich CCHC zinc-finger motifs
TNE255C	YNL284C-A YNL284C-A SGDID:S000007386, Chr XIV from 102232-100910, reverse
	complement, transposable_element_gene, Retrotransposon TYA Gag gene co-transcribed with
YNL284C-A	TYB Pol; translated as TYA or TYA-TYB polyprotein; Gag is a nucleocapsid protein that is the
TNL204C-A	structural constituent of virus-like particles (VLPs); similar to retroviral Gag""  YNL292W PUS4 SGDID:S000005236, Chr XIV from 82806-84017, Verified ORF,
VNII 202W	
YNL292W	Pseudouridine synthase  YNL301C RPL18B SGDID:S000005245, Chr XIV from 64562-64451,64018-63570, reverse
VNI 2010	complement, Verified ORF, Protein component of the large (60S) ribosomal subunit
YNL301C	
VNI 212W	YNL312W RFA2 SGDID:S000005256, Chr XIV from 48286-48292,48401-49215, Verified
YNL312W	ORF, Subunit of heterotrimeric Replication Protein A (RPA)
	YNL313C YNL313C SGDID:S000005257, Chr XIV from 48021-45307, reverse complement,
VNII 212C	Uncharacterized ORF, Essential protein of unknown function; fluorescent protein (GFP or YFP)-
YNL313C	tagged protein localizes to cytoplasm and nucleus""  NNI 2166 PHA2 SCDID: \$000005260 Chr. VIV. from 42074 42070 process a small protein for the process and the protein formation and the protein format
VNII 217C	YNL316C PHA2 SGDID:S000005260, Chr XIV from 43074-42070, reverse complement,
YNL316C	Verified ORF, Prephenate dehydratase
	YOL022C TSR4 SGDID:S000005382, Chr XV from 281499-280273, reverse complement,
WOI 022C	Uncharacterized ORF, Cytoplasmic protein of unknown function; essential gene in S288C
YOL022C	background
	YOL052C SPE2 SGDID:S000005412, Chr XV from 233635-232445, reverse complement,
WOLOGO	Verified ORF, S-adenosylmethionine decarboxylase
YOL052C	

	YOL057W YOL057W SGDID:S000005418, Chr XV from 220766-222901, Verified ORF,
	Dipeptidyl-peptidase III; cleaves dipeptides from the amino terminus of target proteins; highly
	active on synthetic substrate Arg-Arg-2-naphthylamide; mammalian ortholog may be a biomarker
YOL057W	for some cancers""
	YOL058W ARG1 SGDID:S000005419, Chr XV from 219210-220472, Verified ORF,
YOL058W	Arginosuccinate synthetase
	YOL059W GPD2 SGDID:S000005420, Chr XV from 217126-218448, Verified ORF, NAD-
YOL059W	dependent glycerol 3-phosphate dehydrogenase
	YOL086C ADH1 SGDID:S000005446, Chr XV from 160594-159548, reverse complement,
YOL086C	Verified ORF, Alcohol dehydrogenase
	YOL097C WRS1 SGDID:S000005457, Chr XV from 137825-136527, reverse complement,
YOL097C	Verified ORF, Cytoplasmic tryptophanyl-tRNA synthetase
	YOL103W-A YOL103W-A SGDID:S000007349, Chr XV from 118000-119322,
	transposable_element_gene, Retrotransposon TYA Gag gene co-transcribed with TYB Pol;
	translated as TYA or TYA-TYB polyprotein; Gag is a nucleocapsid protein that is the structural
YOL103W-A	constituent of virus-like particles (VLPs); similar to retroviral Gag""
	YOL103W-B YOL103W-B SGDID:S000007350, Chr XV from 118000-119304,119306-123268,
	transposable_element_gene, Retrotransposon TYA Gag and TYB Pol genes;
	transcribed/translated as one unit; polyprotein is processed to make a nucleocapsid-like protein
YOL103W-B	(Gag)
	YOL151W GRE2 SGDID:S000005511, Chr XV from 43693-44721, Verified ORF, 3-
	methylbutanal reductase and NADPH-dependent methylglyoxal reductase (D-lactaldehyde
YOL151W	dehydrogenase); stress induced (osmotic
	YOR027W STI1 SGDID:S000005553, Chr XV from 381053-382822, Verified ORF, Hsp90
YOR027W	cochaperone
	YOR046C DBP5 SGDID:S000005572, Chr XV from 415908-414460, reverse complement,
	Verified ORF, Cytoplasmic ATP-dependent RNA helicase of the DEAD-box family involved in
YOR046C	mRNA export from the nucleus; involved in translation termination""
	YOR063W RPL3 SGDID:S000005589, Chr XV from 444688-445851, Verified ORF, Protein
YOR063W	component of the large (60S) ribosomal subunit
	YOR074C CDC21 SGDID:S000005600, Chr XV from 467591-466677, reverse complement,
YOR074C	Verified ORF, Thymidylate synthase
	YOR122C PFY1 SGDID:S000005648, Chr XV from 552888-552876,552666-552299, reverse
YOR122C	complement, Verified ORF, Profilin
	YOR136W IDH2 SGDID:S000005662, Chr XV from 580251-581360, Verified ORF, Subunit of
YOR136W	mitochondrial NAD(+)-dependent isocitrate dehydrogenase
	YOR168W GLN4 SGDID:S000005694, Chr XV from 649304-651733, Verified ORF, Glutamine
YOR168W	tRNA synthetase
	YOR184W SER1 SGDID:S000005710, Chr XV from 679358-680545, Verified ORF, 3-
YOR184W	phosphoserine aminotransferase
	YOR187W TUF1 SGDID:S000005713, Chr XV from 684031-685344, Verified ORF,
	Mitochondrial translation elongation factor Tu; comprises both GTPase and guanine nucleotide
YOR187W	exchange factor activities
	YOR197W MCA1 SGDID:S000005723, Chr XV from 717087-718385, Verified ORF, Putative
	cysteine protease similar to mammalian caspases; involved in regulation of apoptosis upon
YOR197W	hydrogen peroxide treatment; proposed to be involved in cell cycle progression"
// 11	YOR204W DED1 SGDID:S000005730, Chr XV from 722912-724726, Verified ORF, ATP-
YOR204W	dependent DEAD (Asp-Glu-Ala-Asp)-box RNA helicase
101120711	YOR209C NPT1 SGDID:S000005735, Chr XV from 737727-736438, reverse complement,
YOR209C	Verified ORF, Nicotinate phosphoribosyltransferase
1 OK203C	YOR243C PUS7 SGDID:S000005769, Chr XV from 792242-790212, reverse complement,
YOR243C	Verified ORF, Pseudouridine synthase
1 UN243C	YOR251C TUM1 SGDID:S000005777, Chr XV from 803465-802551, reverse complement,
YOR251C	Verified ORF, Mitochondrial protein
TURZJIC	refined OKF, wittocholidiai protein

	VOD261C DDN0 CCDID C000005707 CL VV C 016021 015015
VOD261C	YOR261C RPN8 SGDID:S000005787, Chr XV from 816931-815915, reverse complement,
YOR261C	Verified ORF, Essential
	YOR281C PLP2 SGDID:S000005807, Chr XV from 847128-846268, reverse complement,
	Verified ORF, Essential protein that interacts with the CCT (chaperonin containing TCP-1) complex to stimulate actin folding; has similarity to phosducins; null mutant lethality is
YOR281C	
TURZ81C	complemented by mouse phosducin-like protein MgcPhLP""
	YOR317W FAA1 SGDID:S000005844, Chr XV from 909340-911442, Verified ORF, Long
	chain fatty acyl-CoA synthetase with a preference for C12:0-C16:0 fatty acids; involved in the
VOD217W	activation of imported fatty acids; localized to both lipid particles and mitochondrial outer
YOR317W	membrane; essential for stationary phase""
VOD222C	YOR323C PRO2 SGDID:S000005850, Chr XV from 922902-921532, reverse complement,
YOR323C	Verified ORF, Gamma-glutamyl phosphate reductase
VOD225C	YOR335C ALA1 SGDID:S000005862, Chr XV from 949106-946230, reverse complement,
YOR335C	Verified ORF, Cytoplasmic and mitochondrial alanyl-tRNA synthetase
VOD240C	YOR340C RPA43 SGDID:S000005867, Chr XV from 960179-959199, reverse complement,
YOR340C	Verified ORF, RNA polymerase I subunit A43""
	YOR347C PYK2 SGDID:S000005874, Chr XV from 986459-984939, reverse complement,
VOD247C	Verified ORF, Pyruvate kinase that appears to be modulated by phosphorylation; PYK2
YOR347C	transcription is repressed by glucose
VOD274W	YOR374W ALD4 SGDID:S000005901, Chr XV from 1039838-1041397, Verified ORF,
YOR374W	Mitochondrial aldehyde dehydrogenase
VDI 020VI	YPL028W ERG10 SGDID:S000005949, Chr XVI from 498094-499290, Verified ORF, Acetyl-
YPL028W	CoA C-acetyltransferase (acetoacetyl-CoA thiolase)
VDI OCIVI	YPL061W ALD6 SGDID:S000005982, Chr XVI from 432585-434087, Verified ORF, Cytosolic
YPL061W	aldehyde dehydrogenase
VDI OZOWI	YPL079W RPL21B SGDID:S000006000, Chr XVI from 406633-406643,407065-407536,
YPL079W	Verified ORF, Protein component of the large (60S) ribosomal subunit
	YPL106C SSE1 SGDID:S000006027, Chr XVI from 352272-350191, reverse complement,
	Verified ORF, ATPase that is a component of the heat shock protein Hsp90 chaperone complex;
VDI 106C	binds unfolded proteins; member of the heat shock protein 70 (HSP70) family; localized to the
YPL106C	cytoplasm""
YPL111W	YPL111W CAR1 SGDID:S000006032, Chr XVI from 339943-340944, Verified ORF, Arginase
	VDI 1176 IDI1 (GDID G00000 (020 GL VVIII ) 020720 2070 (2
VDI 1170	YPL117C IDI1 SGDID:S000006038, Chr XVI from 328729-327863, reverse complement,
YPL117C	Verified ORF, Isopentenyl diphosphate:dimethylallyl diphosphate isomerase (IPP isomerase)
	YPL131W RPL5 SGDID:S000006052, Chr XVI from 303120-304013, Verified ORF, Protein
VDI 121W	component of the large (60S) ribosomal subunit with similarity to E. coli L18 and rat L5
YPL131W	ribosomal proteins; binds 5S rRNA and is required for 60S subunit assembly""
VDI 160W	YPL160W CDC60 SGDID:S000006081, Chr XVI from 246989-250261, Verified ORF,
YPL160W	Cytosolic leucyl tRNA synthetase
VDI 221W	YPL231W FAS2 SGDID:S000006152, Chr XVI from 108652-114315, Verified ORF, Alpha
YPL231W	subunit of fatty acid synthetase
	YPL257W-B YPL257W-B SGDID:S000007358, Chr XVI from 56748-58052,58054-62016,
	transposable_element_gene, Retrotransposon TYA Gag and TYB Pol genes;
VDI 257W P	transcribed/translated as one unit; polyprotein is processed to make a nucleocapsid-like protein
YPL257W-B	(Gag)
VDI 272W	YPL273W SAM4 SGDID:S000006194, Chr XVI from 25087-26064, Verified ORF, S-
YPL273W	adenosylmethionine-homocysteine methyltransferase
	YPR033C HTS1 SGDID:S000006237, Chr XVI from 639016-637376, reverse complement,
	Verified ORF, Cytoplasmic and mitochondrial histidine tRNA synthetase; encoded by a single
VDD022C	nuclear gene that specifies two messages; efficient mitochondrial localization requires both a
YPR033C	presequence and an amino-terminal sequence""  VPR035W GLN1 SCDID: \$000006230 Chr VVI from 642205 642217 Verified OPE Clutomina
VDD025W	YPR035W GLN1 SGDID:S000006239, Chr XVI from 642205-643317, Verified ORF, Glutamine
YPR035W	synthetase (GS)

	YPR041W TIF5 SGDID:S000006245, Chr XVI from 648701-649918, Verified ORF, Translation
	initiation factor eIF-5; N-terminal domain functions as a GTPase-activating protein to mediate
	hydrolysis of ribosome-bound GTP; C-terminal domain is the core of ribosomal preinitiation
YPR041W	complex formation""
	YPR060C ARO7 SGDID:S000006264, Chr XVI from 675628-674858, reverse complement,
YPR060C	Verified ORF, Chorismate mutase
	YPR062W FCY1 SGDID:S000006266, Chr XVI from 677162-677638, Verified ORF, Cytosine
YPR062W	deaminase
YPR108W	YPR108W RPN7 SGDID:S000006312, Chr XVI from 742452-743741, Verified ORF, Essential
	YPR110C RPC40 SGDID:S000006314, Chr XVI from 746833-745826, reverse complement,
YPR110C	Verified ORF, RNA polymerase subunit
	YPR127W YPR127W SGDID:S000006331, Chr XVI from 790079-791116, Verified ORF,
YPR127W	Protein of unknown function
	YPR145W ASN1 SGDID:S000006349, Chr XVI from 822616-824334, Verified ORF,
YPR145W	Asparagine synthetase
	YPR191W QCR2 SGDID:S000006395, Chr XVI from 919377-920483, Verified ORF, Subunit 2
YPR191W	of the ubiquinol cytochrome-c reductase complex