Protein Name	Uniprot ID	SGD ID	Gene length (bp)	expression	Solubilization DDM	Molecular Weight (Da)	PI	Charge	Extiction Coefficient	nal pept	DScore	#Amino acids	#TMH	Cys	Cys%	Met	Met%	Trp	Trp%	Tyr	Tyr%	DatabaseIDs	PFAM_ID	PFAM_desc	PFAM_count	Special Note
YJ55	P47131	YJR085C	318	***	***	31250.1	9.64	5	1.25	N	0.23	106	3	0	0	5	4.8	0	0	11	10.5	GI:1015776 GI:1019704 GI:45269665 UP:P47131 UP	PF03647.4	TMEM14	75	
YL014	Q12431	YLL014W	327	**	**	12404.4	4.88	-2	1.79	N	0.182	108	3	1	0.9	2	1.9	3	2.8	4	3.7	GI:1297016 GI:1360183 GI:1495210 GI:45269743 U	PF07019.2	Rab5ip	26	
YLR171W	Q13562	YLR171W	390	–	–	14689.3	9.43	8	1.86	N	0.085	129	3	5	3.9	3	2.3	3	2.3	8	6.2	GI:2340989 UP:O13562 UP:O13562_YEAST	PF01988.9	DUF125	273	
OST2	P46964	YOR103C	393	*	*	14697.5	9.74	8	0.17	N	0.112	130	3	5	3.8	2	1.5	0	0	2	1.5	GI:1041720 UP:OST2_YEAST UP:P46964	PF02109.6	DAD	79	FLAG signal only
VPS55	P47111	YJR044C	423	***	***	15663.5	6.33	-0.5	0.77	Y	0.583	140	4	4	2.9	6	4.3	1	0.7	5	3.6	GI:1015699 GI:1197072 GI:45269673 UP:P47111 UP	PF04133.4	Vps55	68	
TVP15	Q03860	YDR100W	432	*	*	15881.5	4.13	-5.5	0.64	N	0.396	143	3	1	0.7	3	2.1	0	0	8	5.6	GI:45271034 GI:633636 UP:Q03860 UP:Q03860_YE	PF08507.1	COPI_assoc	24	
GOT1	Q03554	YMR292W	499			15430.7	11.27	8.5	0.82	Y	0.513	138	3	0	0	2	1.4	2	1.4	1	0.7	GI:530349 UP:GOT1_YEAST UP:Q03554 UP:YMR2	PF01878.3	Gat1	52	dropped as intron
YCX7	P25552	YDR097W	516			15825.4	10.67	15.5	0.22	N	0.08	171	2	6	3.5	2	1.2	1	0.6	2	1.2	GI:1007924 UP:P25552 UP:YCX7_YEAST	PF02674.6	Colicin_V	137	failed in cloning
NCE2	Q12207	YPR149W	522	*	–	18967	9.62	8.5	0.64	Y	0.625	173	4	5	2.9	4	2.3	1	0.6	5	2.9	GI:1066478 GI:1197842 GI:1508863 GI:45270936 U	PF04535.3	DUF588	106	
YGR0	P32329	YGL010W	525			20127.1	8.86	3.5	0.66	N	0.117	174	4	2	1.1	5	2.9	1	0.6	8	4.6	GI:1322465 UP:P32329 UP:YGB0_YEAST	PF03127.2	DUF382	99	failed in cloning
YL065	Q99382	YLR065C	546	–	–	20741.4	10.8	21	1.44	N	0.219	181	4	2	1.1	6	3.3	3	1.7	10	5.5	GI:1181285 GI:1360414 UP:Q6Q5C1 UP:Q99382 UP	PF05620.2	DUF788	49	
VPS68	Q12016	YOL129W	555	***	***	20101.2	5.06	-2	1.64	N	0.249	184	4	3	1.6	3	1.6	4	2.2	8	4.3	GI:1209712 GI:1420015 GI:51013117 UP:Q12016 U	PF05255.2	UPF0220	52	
TVP23	P38962	YDR084C	600	**	**	23147.8	8.86	5	2.46	N	0.209	199	3	4	2	4	2	8	4	9	4.5	GI:1431557 GI:45269241 GI:558255 GI:577811 UP:T	PF05832.3	DUF846	60	
SVP26	P38969	YHR181W	600	*	*	26283.7	8.55	4.5	1.11	Y	0.668	228	4	4	1.8	2	0.9	2	0.9	14	6.1	GI:458912 UP:P38969 UP:SVP26_YEAST UP:YHY	PF04148.4	DUF396	36	
YFL2	P43614	YFR042W	603	*	*	23555.2	10.01	15.5	1.84	Y	0.528	200	4	2	1	4	2	4	2	16	8	GI:836797 UP:P43614 UP:YFL2_YEAST	PF04387.5	PTPLA	116	HIS>>>FLAG
YKI3	P36079	YKL083W	615	****	****	23674	8.02	4.5	1.21	Y	0.621	204	5	11	5.4	3	1.5	1	0.5	18	8.8	GI:486120 UP:P36079 UP:YKI3_YEAST	PF00032.8	Cytochrom_B_C	23702	HIS>>>FLAG
SHR3	Q12413	YJL212W	633	****	****	23512.2	8.2	4.5	1.16	Y	0.445	210	4	5	2.4	6	2.9	3	1.4	8	3.8	GI:1429344 GI:1431354 GI:51013593 UP:Q02774 U	PF08229.2	SHR3_chaperone	18	HIS>>>FLAG
DER1	4388577	YBR201W	636			24390.7	8.4	3.5	1.9	Y	0.489	211	4	3	1.4	9	4.3	5	2.4	14	6.6	GI:4388577	PF04511.5	DER1	137	
SFT2	P38166	YBL102W	648	***	***	24274.2	8.99	5.5	1.25	N	0.015	215	4	5	2.3	7	3.3	4	1.9	6	2.8	GI:45270990 GI:496667 GI:536172 UP:P38166 UP:S	PF07770.3	SFT2	99	
PHS1	P40857	YJL097W	654	**	**	24510.6	10.37	16.5	1.48	Y	0.556	217	6	2	0.9	6	2.8	3	1.4	15	6.9	GI:1008274 GI:45269601 GI:640006 UP:P40857 UP	PF04387.5	PTPLA	116	
GPI11	Q06636	YDR302W	660	**	*	25261.9	9.72	12	2.29	N	0.057	219	4	4	1.8	4	1.8	7	3.2	14	6.4	GI:849212 UP:GPI11_YEAST UP:Q06636 UP:Q0663	PF06699.2	PIG-F	39	
YHU0	Q6B2K3	YHR140W	720	*	*	27145.9	10.07	16	1.55	Y	0.692	239	6	2	0.8	6	2.5	4	1.7	15	6.3	GI:51012905 UP:P38842 UP:Q6B2K3 UP:Q6B2K3	PF04750.5	Far-17a_AIG1	35	HIS>>>FLAG
CTR3	Q06586	YLR411W	726	**	**	27533.9	7.81	3	2.05	N	0.118	241	3	11	4.6	6	2.5	7	2.9	13	5.4	GI:1778390 GI:51013309 GI:632675 UP:CTR3_YEA	PF04145.6	Ctr	173	
NSG1	P38837	YHR133C	780	*	*	32214.4	9.09	7	1.02	N	0.045	291	5	4	1.4	5	1.7	4	1.4	8	2.7	GI:500683 UP:NSG1_YEAST UP:P38837 UP:YHT3	PF07281.2	INSIG	37	
RBD2	Q12270	YPL246C	789	–	–	29499.5	7.58	3	2	Y	0.501	262	5	3	1.1	3	1.1	7	2.7	15	5.7	GI:1061243 GI:1370507 UP:Q12270 UP:Q12270_YE	PF01694.12	Rhomboid	862	
COX3	Q9ZY9	Q0275	810	–	–	30359.6	7.08	4.5	2.32	Y	0.45	269	7	2	0.7	13	4.8	9	3.3	15	5.6	GI:4160389 UP:COX3_YEAST UP:P00420 UP:Q9ZY	PF00510.9	COX3	3382	
GMH1	P36125	YKR030W	822	*	*	31993.2	9.31	10	1.57	N	0.033	273	5	4	1.5	7	2.6	5	1.8	17	6.2	GI:486461 UP:GMH1_YEAST UP:P36125 UP:YK10	PF05216.4	UNC-50	42	
YP162	Q12042	YPL162C	822	**	*	31346.5	6.35	-0.5	1.5	N	0.321	273	5	6	2.2	6	2.2	6	2.2	10	3.7	GI:1370344 GI:1403547 UP:Q12042 UP:Q12042 YE	PF04647.5	AxjB	103	
YB37	P38301	YBR187W	843			30349.4	5.11	-4.5	0.67	Y	0.732	280	5	1	0.4	17	6.1	2	0.7	7	2.5	GI:536548 GI:575815 UP:P38301 UP:Q60245 UP:Y	PF03741.6	TerC	605	failed in cloning
GPI2	P46961	YPL076W	843	faint	–	32577.2	9.77	9.5	2.16	N	0.282	280	6	2	0.7	4	1.4	9	3.2	15	5.4	GI:1072321 GI:1147617 GI:51013373 UP:GPI2_YEA	PF06432.2	GPI2	51	
CRD1	Q07560	YDL142C	852	*	–	32019.6	10.14	16	1.13	N	0.25	283	3	3	1.1	6	2.1	3	1.1	15	5.3	GI:1431221 UP:CRD1_YEAST UP:P82260 UP:Q075	PF01769.7	MotE	455	
YDR367	Q08346	YDR367W	854	**	**	26493.8	8.19	4	1.84	Y	0.841	224	3	5	2.3	4	1.8	6	2.7	10	4.5	GI:1008267 UP:Q08346 UP:YDR367_YEAST	PF06552.1	DUF1163	18	dropped as intron
GET2	P40056	YER083C	858	**	**	31493.3	9.96	9	1.27	N	0.04	285	3	0	0	5	1.8	5	1.8	9	3.2	UP:GET2_YEAST UP:P40056	PF08690.1	GET2	6	FLAG signal only
ERV29	P53337	YGR284C	933	*	*	35012.8	10.02	16	1.47	N	0.055	310	7	3	1	7	2.3	5	1.6	18	5.8	GI:1323519 UP:ERV29_YEAST UP:P53337 UP:YG5	PF02077.6	SURF4	64	
YIF1	P53845	YNL263C	945	**	**	35497.9	9.14	6	1.18	N	0.022	314	5	3	-1	11	3.5	4	1.3	15	4.8	GI:1045246 GI:1302319 UP:P53845 UP:YIF1_YEAS	PF03878.6	YIF1	70	
YPC1	P38298	YBR183W	951	**	**	36419.6	8.41	7.5	2.73	N	0.205	316	4	5	1.6	6	1.9	13	4.1	20	6.3	GI:536540 GI:575910 GI:7248652 UP:P38298 UP:Y	PF05875.3	aPHC	56	FLAG signal only
COX18	P53239	YGR062C	951	*	–	36650.1	11.8	27	1.33	N	0.132	316	3	2	0.6	10	3.2	7	2.2	6	1.9	GI:1323239 UP:P53239 UP:COX18_YEAST UP:P53	PF02096.11	60KD_IMP	580	
YD352	Q06328	YDR352W	954	**	**	35178.9	4.64	-7.5	1.1	N	0.377	317	5	6	1.9	3	0.9	3	0.9	17	5.4	GI:849176 UP:Q06328 UP:Q06328_YEAST UP:YD3	PF01461.8	7tm_4	966	
YDC1	Q02896	YPL087W	954	**	**	37230.7	7.17	2.5	3.01	N	0.131	317	7	4	1.3	10	3.2	15	4.7	21	6.6	GI:10764171 GI:1151239 GI:51013899 UP:Q02896 U	PF05875.3	aPHC	56	
ARV1	Q06541	YLR242C	966	faint	–	38194.2	9.22	14.5	2.15	N	0.24	321	3	8	2.5	7	2.2	9	2.8	24	7.5	GI:51013143 GI:662341 UP:ARV1_YEAST UP:Q065	PF04161.4	Arv1	44	
CCC1	P47818	YLR220W	969	*	*	34249.8	4.71	-7	0.71	N	0.165	322	3	0	0	7	2.2	2	0.6	10	3.1	GI:4526799 GI:6093669 GI:891059 UP:CCC1_YEAS	PF01988.9	DUF125	273	FLAG signal only
YQ073	Q08232	YOL073C	969	***	***	35762.1	8.07	4.5	2.06	Y	0.492	322	4	3	0.9	5	1.6	10	3.1	13	4	GI:1419901 UP:Q08232 UP:Q08232_YEAST UP:YQ	PF08551.1	DUF1751	40	
YO271	Q12029	YOR271C	984	***	**	35414.1	10.47	17	0.82	N	0.036	327	4	2	0.6	9	2.8	4	1.2	5	1.5	GI:1279698 GI:1420608 UP:Q12029 UP:Q12029_YE	PF03820.8	Mtc	96	
YO258	Q12052	YOR258C	1104			39383	10.13	22	1.27	N	0.035	367	5	3	-1	7	2.3	7	2.3	8	2.6	GI:1205785 GI:1420525 GI:4526968 UP:Q12052 U	PF03875.5	Fum1_red_TM	36	failed in cloning
TVP38	P36164	YKR088C	1014	**	**	38311.3	6.25	-1	1.63	N	0.017	337	5	1	0.3	11	3.3	4	1.2	13	3.9	GI:415908 GI:4526972 GI:486573 UP:P36164 UP:T	PF09335.1	SNARE_assoc	1246	
DFM1	Q12743	YDR411C	1026	*	–	38130.5	9.8	14	1.91	N	0.181	341	4	5	1.5	9	2.6	9	2.6	17	5	GI:927723 UP:DFM1_YEAST UP:Q12743 UP:Q7LU	PF04511.5	DER1	137	
PCP1	P53259	YGR101W	1041	**	–	38815.2	10.78	27	2.11	N	0.265	346	6	3	0.9	11	3.2	11	3.2	15	4.3	GI:1323155 UP:P53259 UP:PCP1_YEAST	PF01694.12	Rhomboid	862	
PER1	P25625	YCR044C	1074	*	–	42541.4	6.87	2.5	2.13	Y	0.731	357	6	12	3.4	10	2.8	11	3.1	22	6.2	GI:1907186 UP:P25625 UP:PER1_YEAST UP:YCT4	PF04080.3	Per1	43	
YO390	Q08913	YOR390W	1128	*	*	41985.1	8.58	11.5	1.2	N	0.286	375	9	11	2.9	14	3.7	5	1.3	17	4.5	GI:1420839 UP:Q08913 UP:Q08913_YEAST UP:YO	PF02537.6	CRCB	473	FLAG signal only
ZRT1	P32804	YGL255W	1131	**	**	41581.6	5.6	-3.5	2	N	0.122	376	8	6	1.6	7	1.9	11	2.9	16	4.3	GI:1150584 GI:1322935 GI:3708 UP:P32804 UP:ZR	PF03824.6	NicO	204	FLAG signal only
YG3W	P53293	YGR168C	1131	*	–	44300.9	10.97	45.5	1.37	N	0.167	376	5	4	1.1	9	2.4	8	2.1	12	3.2	GI:1323295 UP:P53293 UP:YG3W_YEAST	PF07694.3	5TM-5TMR_LYT	212	
PRM10	P42946	YJL108C	1152	–	–	41488.4	8.09	6.5	1.39	N	0.105	383	10	10	2.6	12	3.1	7	1.8	14	3.7	GI:1008290 GI:728702 UP:P42946 UP:PRM10_YEA	PF06738.2	DUF1212	250	
YMR173W-A	2131844	YMR173W-A	1185	–	–	43890.3	12.69	34	0.03	Y	0.585	394	10	3	0.8	52	13.2	0	0	1	0.3		PF00361.10	Oxidored_q1	26616	
YD018	Q12185	YDR018C	1191		–	45938.6	10.01	25	1.4	Y	0.517	396	4	7	1.8	9	2.3	7	1.8	19	4.8	GI:1216225 GI:1431444 GI:840871 UP:Q12185 UP:Y	PF03982.3	DAGAT	145	
GPI14	P47088	YJR013W	1212	*	*	47167.6	9.33	15	2.38	Y	0.515	403	6	6	1.5	7	1.7	13	3.2	30	7.4	UP:GPI14_YEAST UP:P47088	PF05007.3	Mannosyl_trans	63	
CTR1	P49573	YPR124W	1221	*	*	44441.5	6.1	-2	0.77	N	0.043	406	3	7	1.7	37	9.1	4	1	9	2.2	GI:1066470 GI:407948 GI:51013575 UP:CTR1_YEA	PF04145.6	Ctr	173	
BTN1	P47040	YJL059W	1227	**	**	46383.1	7.18	3	1.34	Y	0.539	408	11	7	1.7	11	2.7	6	1.5	22	5.4	GI:1008203 UP:BTN1_YEAST UP:O60004 UP:P470	PF02487.8	CLN3	70	
Q6LD28	Q6LD28	YHL003C	1236	*	*	48454.4	9.17	12.5	1.93	N	0.063	411	7	5	1.2	13	3.2	11	2.7	24	5.8	GI:45270918 GI:500820 GI:541568 GI:6649523 UP:I	PF03798.6	LAG1	189	
YKA8	P29465	YKL008C	1257	**	–	48991.9	9.81	20	1.76	N	0.019	418	7	4	1	12	2.9	10	2.4	23	5.5	GI:3022274 GI:485983 UP:P28496 UP:YKA8_YEAST	PF03798.6	LAG1	189	
YK31	P36142	YKR051W	1257	*	*	48756.7	8.54	10.5	2.25	Y	0.631	418	7	11	2.6	8	1.9	13	3.1	28	6.7	GI:486505 GI:510127231 UP:P36142 UP:YK31_YEAS	PF03619.7	DUF300	118	
GPI18	P38211	YBR004C	1302	faint	–	50772.6	9.81	22.5	2.25	Y	0.599	433	8	8	1.8	4	0.9	14	3.2	27	6.2	GI:536192 UP:GPI18_YEAST UP:P38211 UP:P8949	PF04188.3	Mannosyl_trans2	53	
GPT	P07286	YBR243C	1347	faint	–	50367.9	8.51	11	1.39	Y	0.501	448	7	10	2.2	15	3.3	8	1.8	19	4.2	GI:4685 GI:536653 UP:GPT_YEAST UP:P07286	PF00953.11	Glycos_transf_4	845	
ALG3	P38179	YBL082C	1377	*	*	52860.8	9.09	17.5	1.93	N	0.054	458	9	10	2.2	21	4.6	13	2.8	22	4.8	GI:496697 GI:536134 UP:ALG3_YEAST UP:P38179	PF05208.4	ALG3	43	
SSU1	Q2V077	YPL092W	1377	*	*	52545.1	8.6	11	1.98	N	0.347	458	9	10	2.2	21	4.6	12	2.6	28	6.1	GI:1151234 GI:51013001 UP:P41930 UP:Q2V077 U	PF03595.8	Cddc_mat_tran	256	
PEX31	P53203	YGR004W	1389	*	*	52942.7	9.74	14	1.7	N	0.015	462	4	2	0.4	11	2.4	12	2.6	17	3.7	GI:1322959 UP:P53203 UP:PEX31_YEAST UP:YG1	PF06398.2	Pex24b	1079	
TMS1	Q12116	YDR105C	1422	**	**	52239	5.15	-5	1.96	N	0.402	473	10	13	2.7	13	2.7	13	2.7	22	4.7	GI:633641 GI:747880 UP:Q12116 UP:TMS1_YEAST	PF03348.6	Serinc	125	
COX15	P40086	YER141W	1461	–	–	54658.2	10.83	36	1.8	N	0.101	486	8	3	0.6	16	3.3	15	3.1	10	2.1	GI:603381 GI:603947 UP:COX15_YEAST UP:P4008	PF02628.6	COX15-CtaA	293	
GWT1	P47026	YJL091C	1473	*	*	55466.2	9.69	19.5	1.58	N	0.069	490	12	9	1.8	8	1.6	10	2	24	4.9	UP:GWT1_YEAST UP:P47026	PF06423.2	GWT1	41	
ICE2	P40499	YIL090W	1476	*	*	56332.7	9.02	17	1.93	Y	0.498	491	8	14	2.9	7	1.4	13	2.6	27	5.5	GI:577124 UP:ICE2_YEAST UP:P40499 UP:YIJ0 Y	PF08426.1	ICE2	17	
ACO1	P21147	YGL055W	1533	**	**	58402.8	9.33	19.5	1.99	N	0.032	510	4	4	0.8	14	2.7	15	2.9	24	4.7	GI:1322552 UP:ACO1_YEAST UP:P21147	PF00487.14	FA_desaturase	1574	FLAG signal only
FUN26	P31381	YAL022C	1554	*	*	58317.1	4.69	-14.5	1.11	N	0.056	517	11	4	0.8	19	3.7	8	1.5	15	2.9	GI:171853 UP:FUN26_YEAST UP:P31381	PF01733.8	Nucleoside_tran	185	FLAG signal only
PTM1	P32857	YKL038W	1572	***	***	61006.2	4.68	-13	1.27	Y	0.774	531	7	10	1.9	16	3	6	1.1	34	6.4	GI:4791 GI:486048 UP:P32857 UP:PTM1_YEAST	PF06814.3	Lung_7-TM_R	104	HIS>>>FLAG
ALG10	P50078	YGR227W	1578	*	*	61407.3	9.74	24.5	1.85	N	0.089	525	11	8	1.5	13	2.5	14	2.7	27	5.1	GI:1322466 UP:P50078 UP:ALG10_YEAST UP:Q6E	PF04922.7	DIE2_ALG10	41	failed in cloning
YHB7	P38745	YHL017W	1599	**	**	61205.8	4.31	-25.5	1.41	Y	0.938	532	7	13	2.4	13	2.4	8	1.5	32	6	GI:2289887 UP:P38745 UP:YHB7_YEAST	PF06814.3	Lung_7-TM_R	104	
PNS1	Q12412	YOR161C	1620	***	***	60250.7	8.38	11	1.68	N	0.017	539	10	12	2.2	17	3.2	11	2	30	5.6	GI:1293722 GI:1420399 UP:PNS1_YEAST UP:Q12	PF04515.3	DUF580	121	
YHN8	P38799	YHR078W	1659			63330.7	7.45	3.5	1.24	Y	0.815	552	8	7	1.3	12	2.2	8	1.4	26	4.7	GI:500830 UP:P38799 UP:YHN8_YEAST	PF02654.6	CobS	255	
FET4	P40088	YMR319C	1659	*****	*****	62791.8	5.17	-9	1.84	N	0.081	552	7	9	1.6	13	2.4	16	2.9	19	3.4	GI:984692 UP:FET4_YEAST UP:P40088	PF04120.3	Iron_permease	7	
YEX0	P40085	YER140W	1671	*	–	64793.9	10.29	37	1.09	N	0.032	556	5	5	0.9	18	3.2	7	1.3	24	4.3	GI:603380 UP:P40085 UP:YEX0_YEAST	PF05346.2	DUF747	51	
RFT1	P38206	YBL020W	1725	**	**	66210.7	9.54	17.5	1.22	N	0.19	574	12	7	1.2	10	1.7	9	1.6	23	4	GI:536015 GI:558440 UP:P38206 UP:Q05814 UP:R	PF04506.4	Rft-1	47	
YN15	P53838	YNL275W	1731	**	**	65027.5	7.92	7.5	0.9	N	0.037	576	10	10	1.7	14	2.4	6	1	19	3.3	GI:1302342 UP:P53838 UP:YN15_YEAST	PF00955.11	HCO3_cotransp	272	
YKK0	P34248	YKL100C	1764	**	*	67525	5.25	-11.5	1.42	N	0.031	587	7	5	0.9	12	2	11	1.9	26	4.4	GI:431216 GI:486167 UP:P34248 UP:YKK0_YEAST	PF04258.4	Peptidase_A22B	138	FLAG signal only
PTR2	P32901	YKR093W	1806	*	*	68043.4	5.04	-9	1.63	N	0.016	601	11	12	2	18	3	13	2.2	29	4.8	GI:450553 GI:486583 UP:P32901 UP:PTR2_YEAST	PF00854.12	PTR2	737	
GPI1	P53306	YGR216C	1830	–	–	70354.2	9.4	22.5	1.04	N	0.076	609	6	10	1.6	15	2.5	5	0.8	35	5.7	GI:1323389 GI:1620666 UP:GPI1_YEAST UP:P5330	PF05024.5	Gpi1	53	
GAA1	P39012	YLR088W	1845	–	–	69221	6.2	-2.5	1.57	N	0.405	614	6	6	1	19	3.1	15	2.4	18	2.9	GI:1256890 GI:1360459 GI:495142 UP:GAA1_YEAS	PF04114.4	Gaa1	48	
STT3	P39007	YGL022W	2157	*	*	81528.7	8.15	8	2.05	Y	0.618	718	13	5	0.7	22	3.1	21	2.9	37	5.2	GI:1322489 UP:P39007 UP:STT3_YEAST	PF02516.5	STT3	178	
PHO87	P25360	YCR037C	2272	*	*	102539	6.23	-2.5	0.94	N	0.149	923	12	11	1.2	26	2.7	12	1.3	22	2.4	GI:14589947 UP:P25360 UP:PHO87_YEAST	PF02040.6	ArsB	167	
GEF1	576928	YJR040W	2340	**	**	87591.4	7.11	4.5	1.22	N	0.057	779	11	14	1.8	17	2.2	12	1.5	30	3.9	GI:1015691 GI:1197067 GI:576928	PF00654.10	Voltage_CLC	742	FLAG signal only
PXA1	P41909	YPL147W	2613	*	–	100025	10	38	0.95	N	0.318	870	3	6	0.7	19	2.2	9	1	34	3.9	GI:1063413 GI:1370314 GI:1403562 UP:P41909 UP	PF06472.5	ABC_membrane_2	263	
YJT8	P39535	YJL198W	2646	**	**	97688.3	7.1	4	1.07	N	0.043	881	12	10	1.1	22	2.5	12	1.4	28	3.2	GI:1008415 GI:547594 UP:P39535 UP:YJT8_YEAST	PF03600.6	CitMHS	167	
TRK2	P28584	YKR050W	2670	–	–	101086	10.04	43.5	1.03	N	0.22	889	10	11	1.2	23	2.6	12	1.4	28	3.1	GI:173033 GI:3072244 GI:486503 UP:P28584 UP:Y	PF02386.7	Trk1	570	
YN86	P27514	YNR013C	2685	**	**	99490.1	8.12	13	1	N	0.077	894	12	10	1.1	30	3.4	13	1.5	20	2.2	GI:1302492 GI:496729 UP:P27514 UP:YN86_YEAS	PF00939.9	Na_sulph_symp	456	
YBS4	P38244	YBR074W	2931	**	**	111068	6.51	0	1.17	Y	0.485	976	9	9	0.9	17	1.7	13	1.3	44	4.5	UP:P38244 UP:P38245 UP:Q86ZS2 UP:YBS4_YEA	PF05653.4	DUF803	148	HIS>>>FLAG
ATG9	Q12142	YDL149W	2994	*	*	115402	5.82	-9.5	1.05	N	0.032	997	6	8	0.8	16	1.6	11	1.1	46	4.6	GI:1321955 GI:1431235 UP:ATG9_YEAST UP:Q121	PF04109.6	APG9	69	
BST1	P43571	YFL025C	3090	**	**	117755.6	6.72	3	1.19	N	0.12	1029	8	9	0.9	25	2.4	15	1.5	43	4.2	GI:836729 UP:BST1_YEAST UP:P43571 UP:YFC6	PF05296.3	TAS2R	671	FLAG signal only
YGX0	P53100	YGL160C	3090	*	*	120476	8.27	18.5	1.04	N	0.243	1029	7	10	1.1	17	1.7	14	1.4	45	4.4	GI:1322716 GI:1495244 UP:P53100 UP:YGX0_YEA	PF04932.3	DUF747	144	failed in cloning
TRK1	P21685	YJL129C	3708	**	**	141073	8.77	28.5	1.04	N	0.351	1235	9	9	0.7	28	2.3	16	1.3	44	3.6	GI:1008330 GI:171804 UP:P21685 UP:TRK1_YEAS	PF02386.7	Trk1	570	failed in cloning

SC-1	Selected	Cloned	Expressed	DDM soluble
Number of successful targets	96	87	72	61
Percentage relative to previous step		91%	83%	85%
Percentage relative to starting targets		91%	75%	64%

Protein Name	Uniprot_ID	SGD ID	Gene length (bp)	expression	Solubilization DDM	Molecular Weight (Da)	PI	Charge	Extiction Coefficient	Signal peptide	DScore	#Amino acids	#TMH	Cys	Cys%	Met	Met%	Trp	Trp%	Tyr	Tyr%	DatabaseIDs	Special Note
YOR082C	Q08498	YOR082C	342	-	-	13227.1	9.09	7.5	0.91	Y	0.74	113	3	6	5.3	2	1.8	1	0.9	5	4.4	GI:1420245 GI:51014151 UP:Q08498 UP:Q08498_YEAST	
ERV14	P53173	YGL054C	417	**	**	15929.9	6.94	1	1.28	Y	0.637	138	3	2	1.4	4	2.9	2	1.4	7	5.1	GI:1322550 GI:45270856 UP:ERV14_YEAST UP:P53173	
ERV15	P38312	YBR210W	429	***	***	16347.3	8.18	2.5	1.05	Y	0.508	142	3	5	3.5	2	1.4	1	0.7	9	6.3	GI:536592 UP:ERV15_YEAST UP:P38312	
YLI053C	Q12302	YLL053C	459	-	-	16456.3	9.1	4.5	2.2	Y	0.514	152	4	2	1.3	8	5.3	5	3.3	6	3.9	GI:1360255 GI:542331 UP:Q12302 UP:Q12302_YEAST	
YDR526C	P87274	YDR526C	471	-	-	16915.7	4.33	-3	0.82	N	0.395	156	3	6	3.8	3	1.9	2	1.3	2	1.3	GI:2194176 UP:P87274 UP:P87274_YEAST	
YET2	Q04210	YMR040W	483	*	*	19178	10.7	17	1.62	Y	0.626	160	3	1	0.6	7	4.4	3	1.9	11	6.9	GI:695720 UP:Q04210 UP:YET2_YEAST UP:YMT0_YEAST	
YMW1	Q04767	YMR071C	504	-	-	18693.1	6.77	0.5	1.02	N	0.295	167	3	3	1.8	5	3	2	1.2	6	3.6	GI:45270884 GI:763018 UP:Q04767 SP:Q04767 UP:YMW1_YEAST	failed in cloning
YOL163W	A2P2R4	YOL163W	510	-	-	19462	9.84	6.5	2.73	N	0.336	169	3	2	1.2	10	5.9	8	4.7	6	3.5	420080 GI:51012785 UP:A2P2R4 UP:A2P2R4_YEAST UP:Q08337 UP:Q08337_YEAST	
YM07	Q04487	YMR118C	591	*	*	22308.8	10.2	11.5	1.99	N	0.178	196	3	0	0	7	3.6	6	3.1	8	4.1	GI:45269828 GI:817878 UP:Q04487 UP:YM07_YEAST	
SDH3	P33421	YKL141W	597	-	-	22067.9	10.8	17.5	1.55	N	0.352	198	3	0	0	5	2.5	4	2	9	4.5	GI:396438 GI:486241 GI:51013499 UP:P33421 UP:SDH3_YEAST	
YKD0	P36099	YKL030W	606	-	-	22956	8.74	12.5	2.66	Y	0.487	201	3	15	7.5	4	2	6	3	21	10.4	GI:486029 UP:P36099 UP:YKD0_YEAST	
YFI2	P43595	YFR012W	609	-	-	22434.6	8.95	9.5	1.3	Y	0.541	202	4	8	4	3	1.5	4	2	5	2.5	GI:45269507 GI:836767 UP:P43595 UP:YFI2_YEAST	
YET3	Q07451	YDL072C	612	**	**	22902.7	7.25	0.5	0.34	Y	0.811	203	3	2	1	4	2	0	0	6	3	084 GI:45270206 UP:P89895 UP:Q07451 UP:Q07451_YEAST UP:Q7LGS8 UP:YET3_YEAST	
ORM2	Q06144	YLR350W	681	*	**	24854.6	8.8	3.5	1.51	N	0.022	216	4	0	0	7	3.2	5	2.3	7	3.2	GI:51013267 GI:609381 UP:ORM2_YEAST UP:Q06144 UP:Q06144_YEAST	
ORM1	P53224	YGR038W	669	**	**	25244.7	6.63	0.5	1.81	N	0.02	222	3	1	0.5	5	2.3	6	2.7	9	4.1	GI:1323023 UP:ORM1_YEAST UP:P53224	
YIP4	P53093	YGL198W	708	**	**	25995.4	7.03	1.5	1.66	N	0.026	235	4	4	1.7	6	2.6	6	2.6	7	3	UP:P53093 UP:YIP4_YEAST	
PAL1	Q04734	YMR063W	720	-	-	26696.5	6.22	-1	1.28	Y	0.621	239	4	7	2.9	12	5	4	1.7	9	3.8	GI:1832460 GI:763010 UP:PAL1_YEAST UP:Q04734 UP:RIM9_YEAST	
YIP1	P53039	YGR172C	747	*	*	27080.3	6.5	0	0.85	N	0.041	248	5	2	0.8	6	2.4	2	0.8	9	3.6	GI:1279715 GI:1323304 UP:P53039 UP:YIP1_YEAST UP:YIP4_YEAST	FLAG signal only
DFG10	P40526	YIL049W	762	-	-	30305.6	9.37	14	2.08	N	0.302	263	4	5	2	3	1.2	5	2	27	10.7	GI:557819 UP:DFG10_YEAST UP:P40526	
ATP6	P00854	Q0085	780	-	-	29099	8.39	3	1.46	N	0.204	259	6	1	0.4	11	4.2	5	1.9	11	4.2	GI:13575 GI:4160374 UP:ATP6_YEAST UP:P00854 UP:Q95A27	
YL064	Q12144	YLR064W	822	*	*	32636.8	10.5	21.5	1.29	N	0.164	273	5	3	1.1	8	2.9	4	1.5	15	5.5	1181284 GI:1360412 GI:5101280 5 UP:Q12144 UP:Q12144_YEAST UP:YL064_YEAST	
YD384	Q12359	YDR384C	828	**	**	30028.4	4.36	-7	1.42	N	0.024	275	6	9	3.3	8	2.9	5	1.8	11	4	GI:849205 GI:927317 UP:Q12359 UP:YD384_YEAST UP:YD84_YEAST	
YL023	Q12164	YLL023C	840	**	**	32186	10.5	20.5	1.4	N	0.127	279	5	2	0.7	7	2.5	5	1.8	13	4.7	GI:1297008 GI:1362020 UP:Q12164 UP:Q12164_YEAST UP:YL023_YEAST	
FUN34	P32907	YNR002C	849	***	***	30701.2	4.99	-3.5	1.34	N	0.023	282	5	4	1.4	6	2.1	5	1.8	10	3.5	GI:1302471 GI:4380 GI:496720 UP:FUN34_YEAST UP:P32907	
HSD1	Q12382	YOR311C	873	***	***	32840.1	9.15	8	1.85	N	0.037	290	4	2	0.7	5	1.7	8	2.8	12	4.1	GI:1420684 GI:940842 UP:HSD1_YEAST UP:Q12382 UP:Q12382_YEAST	
RTC2	P38279	YBR147W	891	-	-	33496.5	5.11	-2.5	1.31	N	0.33	296	6	2	8	2.7	5	1.7	12	4.1	7	GI:536470	
AQY1	P53386	YPR192W	918	**	*	32712.7	6.98	2.5	1.53	N	0.013	305	6	8	2.6	11	3.6	7	2.3	8	2.6	GI:45270022 GI:786301 UP:AQY1_YEAST UP:P53386	
TSC13	Q99190	YDL015C	933	***	***	36767.8	9.96	19.5	2.05	N	0.056	310	4	3	1	4	1.3	9	2.9	19	6.1	GI:1430981 GI:683682 UP:Q99190 UP:Q99190_YEAST UP:TSC13_YEAST	FLAG signal only
YD090	Q03193	YDR090C	933	-	-	34630.4	5.7	-2	1.65	Y	0.61	310	5	8	2.6	10	3.2	8	2.6	10	3.2	45269269 GI:914874 UP:Q03193 SP:Q03193 UP:Q03193_YEAST UP:YD090_YEA	failed in cloning
ELO1	P39540	YJL196C	933	**	**	36233.8	9.69	18.5	2.35	N	0.076	310	5	7	2.3	11	3.5	10	3.2	22	7.1	GI:1008411 GI:547599 UP:ELO1_YEAST UP:P39540	
RCE1	Q03530	YMR274C	948	**	**	35913.3	8.95	11.5	1.33	Y	0.749	315	7	7	2.2	7	2.2	5	1.6	15	4.8	GI:809097 UP:Q03530 UP:RCE1_YEAST	
YD218	Q07629	YDL218W	954	**	**	34449.6	8.1	5	1.16	Y	0.684	317	4	6	1.9	8	2.5	3	0.9	18	5.7	1431366 UP:P89898 UP:Q07629 UP:Q07629_YEAST UP:Q7LGR3 UP:YD218_YEAST	
MRH1	Q12117	YDR033W	963	**	* (<50%)	36190.5	9.53	17	1.87	N	0.159	320	7	10	3.1	10	3.1	9	2.8	13	4.1	GI:1122353 GI:1431474 UP:MRH1_YEAST UP:Q12117	
YAB8	P31379	YAL018C	978	***	***	37050.4	8.96	6.5	1	N	0.328	325	5	1	0.3	10	3.1	2	0.6	20	6.2	GI:171857 UP:P31379 UP:YAB8_YEAST	
HSP30	P25619	YCR021C	999	***	**	37044.7	4.86	-8	1.8	N	0.202	332	7	8	2.4	7	2.1	9	2.7	12	3.6	GI:1907165 GI:405821 UP:HSP30_YEAST UP:P25619 UP:Q04556	HIS>>>FLAG
OST6	Q03723	YML019W	999	-	-	37890.4	8.59	7.5	1.36	Y	0.739	332	4	7	2.1	10	3	5	1.5	18	5.4	GI:2463436 GI:575700 UP:OST6_YEAST UP:OSTV_YEAST UP:Q03723	
HUT1	Q12520	YPL244C	1020	**	**	38075.4	10.3	22	1.71	Y	0.623	339	8	5	1.5	17	5	9	2.7	11	3.2	1061245 GI:1370503 GI:5101312 3 UP:HUT1_YEAST UP:Q12520 UP:Q12520_YEAST	
YEA4	P40004	YEL004W	1029	*	(<50%)	39266.1	9.81	20.5	1.1	Y	0.686	342	6	9	2.6	4	1.2	4	1.2	16	4.7	GI:602371 UP:P40004 UP:YEA4_YEAST	FLAG signal only
ELO3	P40319	YLR372W	1038	-	-	39465.2	9.63	18	1.93	N	0.072	345	6	5	1.4	4	1.2	8	2.3	24	7	GI:3378048 GI:453568 GI:558642 GI:609406 UP:ELO3_YEAST UP:P40319	
SUR2	P38992	YDR297W	1050	****	****	40734.1	8.73	11	1.37	N	0.17	349	4	1	0.3	14	4	6	1.7	17	4.9	GI:1786173 GI:458718 GI:849215 UP:38992 UP:SUR2_YEAST	
OST3	P48439	YOR085W	1053	*	(<50%)	39483.3	8.68	7.5	0.87	Y	0.755	350	4	5	1.4	9	2.6	4	1.1	9	2.6	GI:1420250 GI:1930665 GI:4526972 GI:561122 UP:OST3_YEAST UP:OSTG_YEAS	FLAG signal only
PRM6	Q04705	YML047C	1059	**	**	41372.2	8.77	9	1.75	N	0.148	352	3	8	2.3	4	1.1	8	2.3	21	6	GI:51013281 GI:642308 UP:PRM6_YEAST UP:Q04705 UP:YME7_YEAST	FLAG signal only
ERD1	P16151	YDR414C	1089	***	**	43216	9.6	16.5	2.02	N	0.312	362	3	7	1.9	6	1.7	12	3.3	15	4.1	GI:927722 UP:ERD1_YEAST UP:P16151	
ERG3	P32353	YLR056W	1098	**	(<50%)	42730.2	7.78	9	1.93	N	0.075	365	3	4	1.1	9	2.5	10	2.7	20	5.5	68 GI:171475 GI:171477 GI:2143190 GI:233331 GI:39103877 GI:51013443 UP:ERG	FLAG signal only
COQ2	P32378	YNR041C	1119	-	-	41001.4	10.5	24.5	2.13	Y	0.441	372	5	6	1.6	15	4	12	3.2	15	4	GI:1302547 GI:171254 UP:COQ2_YEAST UP:P32378 UP:Q6B1I3	
YP279	Q08991	YDL279C	1128	*	*	41971.1	8.58	11.5	1.2	N	0.286	375	9	11	2.9	14	3.7	5	1.3	17	4.5	GI:1370574 UP:Q08991 SP:Q08991 UP:Q08991_YEAST UP:YP279_YEAST	FLAG signal only
FTR1	P40088	YER145C	1215	*	*	45722.2	8.59	9	1.53	Y	0.682	404	7	7	1.7	12	3	8	2	19	4.7	GI:603385 UP:FTR1_YEAST UP:P40088	
YMP0	Q03687	YMR010W	1218	***	***	46872.2	5.72	-2.5	1.57	N	0.19	405	8	4	1	7	1.7	8	2	22	5.4	GI:45270124 GI:728658 UP:Q03687 UP:YMP0_YEAST	
PEX32	P38292	YPR168W	1242	-	(<50%)	48578.4	8.99	10.5	1.92	N	0.062	413	4	5	1.2	7	1.7	13	3.1	15	3.6	GI:536510 UP:P38292 UP:PEX32_YEAST UP:YB18_YEAST	
STE2	836728	YFL026W	1296	**	*	47849.5	6.15	-1	0.87	N	0.046	431	7	2	0.5	11	2.6	3	0.7	19	4.4	GI:836728 STE2	
YG3L	P48236	YGR149W	1299	***	***	51646.4	8.69	15	1.71	N	0.142	432	7	7	1.6	8	1.9	9	2.1	29	6.7	GI:1045255 GI:1323252 UP:P48236 UP:YG3L_YEAST	
YMS4	Q05131	YMR034C	1305	***	***	48374.6	8.88	15	1.38	N	0.402	434	10	14	3.2	11	2.5	7	1.6	21	4.8	GI:51012877 GI:798960 UP:Q05131 UP:YMS4_YEAST	
COT1	P32798	YOR316C	1320	***	*(<50%)	48154.7	6.27	-3.5	0.88	Y	0.601	439	6	5	1.1	9	2	5	1.1	11	2.5	GI:1420694 GI:940847 UP:COT1_YEAST UP:P32798	HIS>>>FLAG
YJ94	P47159	YJR124C	1347	****	****	49653.8	7.65	5	0.93	Y	0.5	448	10	11	2.5	20	4.5	5	1.1	14	3.1	GI:1015851 UP:P47159 SP:P47159 UP:YJ94_YEAST	
CDS1	P38221	YBR029C	1374	**	**	51822.8	9.74	15	0.92	N	0.022	457	6	12	2.6	7	1.5	5	1.1	15	3.3	GI:498757 GI:5101359 GI:536240 UP:CDS1_YEAST UP:P38221	
COX10	P21592	YPL172C	1389	-	-	52147.5	10.3	34	1.82	N	0.193	462	4	7	1.5	15	3.2	12	2.6	21	4.5	GI:1370363 GI:171265 UP:COX10_YEAST UP:P21592	
FTH1	P38310	YBR207W	1398	-	-	51494.9	6	-2	1.25	N	0.428	465	7	7	1.5	9	1.9	7	1.5	19	4.1	GI:311683 GI:536586 UP:FTH1_YEAST UP:P38310 UP:Q9URQ1	
STE3	P06783	YKL178C	1413	**	*	53708	7.72	6.5	1.8	Y	0.606	470	7	10	2.1	10	2.1	12	2.6	22	4.7	Gi:172751 GI:395249 GI:4566 GI:486312 GI:51012935 UP:P06783 UP:STE3_YEAST	
SMF3	Q12078	YLR034C	1422	**	**	51775.3	8.23	7.5	0.98	N	0.324	473	10	10	2.1	8	1.7	4	0.8	22	4.7	GI:1002911 GI:1360352 UP:Q12078 UP:Q12078_YEAST UP:SMF3_YEAST	
SC61A	P32915	YLR378C	1443	*	*	52936.4	9.74	11.5	0.97	N	0.196	480	5	3	0.6	14	2.9	5	1	18	3.8	GI:4447 GI:609428 UP:32915 UP:SC61A_YEAST	
MEP3	P53390	YPR138C	1470	*	*	53689.7	6.5	0	2.37	N	0.358	489	11	11	2.2	14	2.9	17	3.5	24	4.9	GI:1066490 UP:MEP3_YEAST UP:P53390 UP:Q6B2F5	
SSH1	P38353	YBR283C	1473	**	**	53311.6	8.27	4	0.55	N	0.307	490	9	4	0.8	5	1	2	0.4	14	2.9	GI:1778707 GI:429128 GI:51013445 GI:536730 UP:P38353 UP:SSH1_YEAST	
MEP1	P40260	YGR121C	1479	**	**	54202	5.24	-6	2.27	N	0.318	492	11	8	1.6	15	3	16	3.3	25	5.1	GI:1323197 GI:536819 GI:542344 UP:MEP1_YEAST UP:P40260	
RIM21	P48565	YNL294C	1602	*	*	61533.2	6.7	1.5	1.33	N	0.106	533	6	8	1.5	8	1.5	9	1.7	24	4.5	GI:1050867 GI:1302383 UP:P48565 UP:PAL1_YEAST UP:RIM21_YEAST	
ALG6	Q12001	YOR002W	1635	*	*	62782.8	9.36	21	2.16	N	0.087	544	10	9	1.7	13	2.4	16	2.9	35	6.4	GI:1150997 GI:1420090 UP:ALG6_YEAST UP:Q12001	
PHO89	P38361	YBR296C	1725	*	*	62653.3	6.41	-0.5	2.02	Y	0.765	574	10	5	0.9	15	2.6	18	3.1	19	3.3	GI:536756 UP:P38361 UP:PHO89_YEAST	
SMF1	P38925	YOL122C	1728	**	**	63263.6	6.57	0.5	0.9	N	0.043	575	11	15	2.6	15	2.6	6	1	18	3.1	GI:1420001 GI:1550722 GI:836894 UP:P38925 UP:SMF1_YEAST	weak HIS signal
ALG8	P40351	YGR067C	1734	*	(<50%)	67384.9	9.89	29	1.82	N	0.069	577	12	8	1.4	8	1.4	15	2.6	29	5	GI:1420215 GI:2104879 GI:515924 UP:ALG8_YEAST UP:P40351	
YHJ2	P38767	YHR032W	1746	*	*	64208.9	6.06	-3.5	1.14	N	0.039	581	8	17	2.9	17	2.9	9	1.5	17	2.9	GI:488176 UP:P38767 UP:YHJ2_YEAST	
YCR3	P25351	ycr023c	1836	*	*	69217.5	7.39	7	1.35	N	0.257	611	10	10	1.6	16	2.6	11	1.8	24	3.9	GI:14588935 UP:P25351 SP:P25351 UP:Q8NKJ7 UP:YCR3_YEAST	
DFG16	Q99234	YOR030W	1860	**	(<50%)	71729.5	9.72	33.5	1.48	Y	0.73	619	6	8	1.3	7	1.1	5	0.8	34	5.5	GI:1420145 GI:829140 UP:DFG16_YEAST UP:Q99234	
YHA8	P38750	YHL038C	1884	*	*(<50%)	69968.7	7.83	9	0.65	N	0.187	627	6	3	0.5	14	2.2	4	0.6	18	2.9	GI:4527004 GI:58678 UP:P38750 UP:YHA8_YEAST	
NAH2	Q04121	YDR456W	1902	**	**	70147.8	4.42	-20	0.89	Y	0.588	633	8	7	1.1	16	2.5	7	1.1	23	3.6	GI:927695 UP:NAH2_YEAST UP:Q04121	
YFF4	P43549	YFL054C	1941	*	*	70507.1	8.7	9.5	1.41	N	0.02	646	6	4	0.6	16	2.5	13	2	20	3.1	GI:51012657 GI:836701 UP:P43549 UP:YFF4_YEAST	
NDC1	P32500	YML031W	1968	*	-	74133.3	8.49	11.5	0.95	N	0.203	655	6	8	1.2	18	2.7	7	1.1	24	3.7	GI:295764 GI:575688 UP:NDC1_YEAST UP:P32500	
EMP70	P32802	YLR083C	2004	-	-	75962.7	6.87	3	1.55	Y	0.914	667	10	10	1.5	14	2.1	13	1.9	35	5.2	GI:1256885 GI:1360449 UP:EMP70_YEAST UP:P32802 UP:Q12101	**/**"put MW top low
YD107	Q04562	YDR107C	2019	*	(<50%)	76346.6	7.54	7.5	1.61	Y	0.685	672	9	11	1.6	14	2.1	14	2.1	34	5.1	GI:747882 UP:Q04562 UP:Q04562_YEAST UP:YD107_YEAST	
TOK1	P40310	YJL093C	2076	**	**	77407.4	7.08	4	1.3	N	0.059	691	10	13	1.9	19	2.8	13	1.9	21	3	GI:1008266 GI:1051274 GI:30722522 GI:521085 GI:995913 UP:P40310 SP:P40310	
YD338	Q05497	YDR338C	2088	-	-	77846	4.97	-14.5	1.26	N	0.062	695	10	9	1.3	15	2.2	10	1.4	32	4.6	GI:1230665 UP:Q05497 UP:YD338_YEAST UP:YD38_YEAST	
MAM3	Q12296	YOL060C	2121	***	*(<50%)	77711.6	6.64	2	0.7	Y	0.523	706	3	6	0.8	13	1.8	5	0.7	20	2.8	1419875 GI:51013095 GI:984180 UP:MAM3_YEAST UP:Q12296 UP:Q12296_YEAST	
YGL4	P53134	YGL114W	2178	*	*	80008.9	6.62	0.5	1.43	N	0.162	725	12	11	1.5	17	2.3	15	2.1	23	3.2	GI:1322665 UP:P53134 UP:YGL4_YEAST	
DUR3	P33413	YHL016C	2208	*	*	80616.7	5.36	-6.5	1.45	Y	0.444	735	15	11	1.5	26	3.5	12	1.6	38	5.2	GI:2289886 GI:51013791 UP:DUR3_YEAST UP:P33413	
SUL2	P53394	YPR003C	2265	*	*	83383.8	8.43	11.5	0.55	N	0.07	754	10	11	1.5	19	2.5	2	0.3	27	3.6	GI:1314078 GI:763002 GI:939737 UP:P53394 UP:SUL2_YEAST	
OPT1	P40897	YJL212C	2400	***	***	91615.3	9.02	20	2.24	N	0.013	799	12	12	1.5	22	2.8	26	3.3	45	5.6	GI:1015596 GI:496950 UP:OPT1_YEAST UP:P40897	
VPH1	P32563	YOR270C	2523	**	**	95528.5	5.16	-16.5	1.36	N	0.053	840	7	7	0.8	32	3.8	15	1.8	35	4.2	GI:1279697 GI:1420606 GI:173173 UP:P32563 UP:VPH1_YEAST	
SUL1	P38359	YBR294W	2580	*	*	95950.7	6.78	2.5	1.46	N	0.024	859	9	14	1.6	11	1.3	16	1.9	38	4.4	GI:4388582 GI:51013907 GI:600042 UP:P38359 UP:SUL1_YEAST	
PEM1	P05374	YGR157W	2610	**	*	101203	8.53	15	1.87	N	0.05	869	8	8	0.9	17	2	22	2.5	50	5.8	GI:1045262 GI:1323267 GI:172114 UP:P05374 UP:PEM1_YEAST	
KHA1	P40309	YJL094C	2622	***	* (<50%)	97110.7	5.98	-5.5	0.74	N	0.327	873	12	8	0.9	17	1.9	7	0.8	25	2.9	GI:1008268 GI:521094 UP:KHA1_YEAST UP:P40309	
STV1	P37296	YMR054W	2673	*	*	101660	5.04	-19.5	1.22	N	0.139	890	7	7	0.8	35	3.9	15	1.7	30	3.4	GI:817887 UP:P37296 UP:STV1_YEAST	FLAG signal only
SYG1	P40528	YJL047C	2709	**	**	104217	8.83	24	1.7	N	0.022	902	5	16	1.8	25	2.8	22	2.4	41	4.5	GI:600001 GI:643449 UP:P40528 UP:P40964 UP:SYG1_YEAST	
IST2	YB0198C	YDR098C	2841	-	-	105857	9.42	23.5	0.99	N	0.079	946	8	9	0.9	10	1.1	11	1.2	33	3.5	1419872	failed in cloning
ATU2	P38895	YDR270W	3015	-	-	105829	4.75	-22	0.77	N	0.328	1004	8	28	2.8	26	2.6	9	0.9	26	2.6	GI:1230642 GI:538515 UP:ATU2_YEAST UP:P38895	failed in cloning
HMDH2	P12684	YLR450W	3138	*	(<50%)	115692	7.62	11.5	0.81	N	0.37	1045	7	19	1.8	25	2.4	7	0.7	42	4	GI:171688 GI:717061 UP:HMDH2_YEAST UP:P12684	
HMDH1	P12683	YML075C	3165	*	*	115625	8.09	14	0.76	N	0.376	1054	7	17	1.6	25	2.4	8	0.8	33	3.1	GI:171686 GI:587536 UP:HMDH1_YEAST UP:P12683	
GLS3	Q04952	YMR090W	5355	-	-	207483	8.17	28	1.57	N	0.042	1785	18	26	1.5	43	2.4	39	2.2	81	4.5	GI:798948 UP:GLS3_YEAST UP:Q04952	
GLS1	P38831	YLL042C	5631	-	-	214850	7.22	16.5	1.57	N	0.019	1878	13	33	1.8	55	2.9	37	2	99	5.3	GI:563150 GI:577668 GI:577667 GI:609385 GI:683791 UP:GLS1_YEAST UP:P3883	failed in cloning

SC-2	Selected	Cloned	Expressed	DDM soluble
Number of successful targets	96	91	72	58
Percentage relative to previous step		95%	79%	81%
Percentage relative to starting targets		95%	75%	60%

Protein Name	Uniprot_ID	SGD_ID	Gene length (bp)	expression	Solubilization DDM	Molecular Weight (Da)	PI	Charge	Extiction Coefficient	Signal peptide	DScore	#Amino acids	#TMH	Cys	Cys%	Met	Met%	Trp	Trp%	Tyr	Tyr%	DatabaseIDs	Special Note
YKD7	P32858	YKL037W	357	-	-	12936.3	9.44	9	0.4	Y	0.5	118	3	7	5.9	2	1.2	0	0	4	3.4	GI:4793 GI:486038 UP:P32858 UP:YKD7_YEAST	
VTC1	P40046	YER072W	390	**	**	14371	11.1	10.5	1.15	N	0.152	129	3	1	0.8	4	3.1	2	1.6	4	3.1	GI:603308 UP:P40046 UP:VTC1_YEAST	
YD366	P87287	YDR366C	399	-	-	15539.8	9.29	8	1.19	Y	0.796	132	3	3	2.3	1	0.8	1	0.8	10	7.6	GI:2194161 UP:P87287 UP:P87287_YEAST UP:YD366_YEAST	
TIM17	P39515	YJL143W	477	**	**	16584.1	10	7.5	1.79	N	0.132	158	3	4	2.5	5	3.2	5	3.2	1	0.6	GI:1015553 GI:4526956 GI:557267 GI:854554 UP:P39515 UP:002310 UP:TIM17_YEAST	
VATL1	P25515	YEL027W	483	*	* (<50%)	16350.5	8.1	2	0.47	N	0.391	160	4	6	3.8	3	1.9	0	0	6	3.8	GI:3406 GI:45270574 GI:602394 UP:P25515 SP:P25515 UP:VATL1_YEAST	
YL050	Q12155	YLR050C	486	*	*	19088.7	9.73	9	2.62	N	0.321	161	3	3	1.9	2	1.2	7	4.3	8	5	GI:1181271 GI:1360386 GI:45269755 UP:Q12155 UP:Q12155_YEAST UP:YL050_YEAST	
TFP3	P32842	YPL234C	495	*	*	17037.4	7.84	2	0.53	N	0.342	164	4	5	3	8	4.9	0	0	7	4.3	GI:1061255 GI:1181254 GI:1370484 GI:218505 GI:45270006 UP:P32365 UP:P32842	
SCM4	P32564	YGR049W	564			20118.4	8.66	8	0.73	Y	0.441	187	4	7	3.7	4	2.1	1	0.5	7	3.7	GI:1323565 GI:5229 GI:7104037 UP:P32564 SP:P32564 UP:Q45U38 UP:SCM4_YEAST	failed in cloning
YG1A	P53209	YGR016W	573	*	* (<50%)	22226.2	9.09	6.5	1.29	N	0.301	190	4	4	2.1	4	2.1	3	1.6	9	4.7	GI:1322982 UP:P53209 UP:YG1A_YEAST	
YP257	Q08974	YPL257W	582	**	**	22197	9.3	6.5	1.49	N	0.073	193	3	2	1.1	5	2.6	4	2.1	8	4.1	GI:1370530 GI:51012593 UP:Q08974 SP:Q08974 UP:Q08974_YEAST UP:YP257_YEAST	
YL356	Q06485	YLR356W	594	*	*	20400.3	6.93	1	0.38	Y	0.486	197	4	3	1.5	2	1	0	0	6	3	GI:45270334 GI:609398 UP:Q06485 SP:Q06485 UP:Q06485_YEAST UP:YL356_YEAST	
YL036	Q07986	YLR036C	612	**	**	23377.8	9.85	15.5	0.98	N	0.109	203	3	8	3.9	5	2.5	2	1	9	4.4	GI:1360360 UP:Q07986 SP:Q07986 UP:Q07986 UP:YL036_YEAST UP:YL36_YEAST	
SYS1	P41544	YJL004C	612	**	**	23715.6	6.26	-0.5	2.3	N	0.231	203	4	2	1	1	0.5	8	3.9	7	3.4	GI:1006712 GI:45270580 GI:854569 UP:P41544 UP:SYS1_YEAST	
IL1M1	P47155	YJR118C	612	*	-	23644.7	4.09	-15	0.86	Y	0.642	203	3	2	1	3	1.5	2	1	7	3.4	GI:1015830 UP:IL1M1_YEAST UP:P47155 UP:YJ88_YEAST	
CAX4	P53223	YGR036C	720	*	*	27649	8.65	6	1.47	N	0.245	239	3	5	2.1	6	2.5	4	1.7	14	5.9	GI:1323019 GI:45269433 GI:7106402 4 UP:CAX4_YEAST UP:P53223 UP:Q45U47	
YEM9	P40027	YER039C	750	**	**	27687.7	8.73	3	1.28	N	0.383	249	6	3	1.2	11	4.4	4	1.6	10	4	GI:45270794 GI:603272 UP:P40027 UP:YEM9_YEAST	
YKU7	P36039	YKL207W	762	*	*	31715.7	6.35	-0.5	1.5	N	0.13	282	3	2	0.7	16	5.7	7	2.5	6	2.1	UP:P36039 UP:Q86ZT1 UP:YKU7_YEAST	
YL046	Q12253	YLR046C	813	-	-	31053.8	9.82	10.5	1.29	N	0.144	270	6	3	1.1	10	3.7	5	1.9	9	3.3	GI:1181267 GI:1360379 GI:45270298 UP:Q12253 UP:Q12253_YEAST UP:YL046_YEAST	
YD319	Q06676	YDR319C	825	-	-	32011	8.53	10.5	2.38	Y	0.542	274	6	10	3.6	7	2.6	10	3.6	15	5.5	GI:914998 UP:Q06676 SP:Q06676 UP:Q06676 UP:Q06676_YEAST UP:YD319_YEAST	
LPP1	Q04396	YDR503C	825	-	-	31586.2	8.4	8.5	1.67	N	0.297	274	4	10	3.6	10	3.6	7	2.6	10	3.6	GI:51013833 GI:927773 UP:LPP1_YEAST UP:Q04396	
YN45	P48558	YNL305C	895			33844.9	4.63	-7	2	N	0.022	297	7	7	2.4	8	2.7	8	2.7	17	5.7	GI:1050855 GI:1302403 UP:P48558 UP:YN45_YEAST	failed in cloning
FIG1	P38224	YBR040W	897	**	**	33775.7	9.88	13.5	1.37	Y	0.521	298	4	4	1.3	10	3.4	5	1.7	14	4.7	GI:45269619 GI:4571980 4 GI:4571980 6 GI:4571981 0 GI:4571981 2 GI:4571982 6 GI:4571982 8 GI:4571	
SUR7	P54003	YML052W	909	***	***	33829.8	7.54	3.5	1.82	Y	0.676	302	4	5	1.7	10	3.3	9	3	8	2.6	GI:4526266 2 GI:477145 UP:P54003 UP:SUR7_YEAST	
YE15	P40100	YER185W	912	-	-	33732.7	9.06	6.5	0.59	Y	0.564	303	7	4	1.3	8	2.6	1	0.3	11	3.6	GI:603428 UP:P40100 UP:YE15_YEAST	
ADT1	P04710	YMR056C	930	**	**	34120.4	10.16	17.5	1.06	N	0.251	309	4	3	1	9	2.9	3	1	15	4.9	GI:172134 GI:817889 UP:ADT1_YEAST UP:P04710 SP:P04710	
YO292	Q08743	YOR292C	930	**	**	36195.1	5.82	-3	1.95	N	0.086	309	5	6	1.9	9	2.9	9	2.9	15	4.9	GI:1420648 UP:Q08743 UP:Q08743_YEAST UP:YO292_YEAST	
ADT3	P18238	YBR085W	924	-	-	33312.8	10.38	20	0.94	N	0.204	307	4	4	1.3	11	3.6	3	1	11	3.6	GI:170960 GI:536350 UP:ADT3_YEAST UP:P18238 SP:P18238	
IZH4	Q99393	YIR031C	939	***	***	36607.6	8.19	6.5	1.03	N	0.025	312	7	5	1.6	6	1.9	3	1	16	5.1	GI:1419955 GI:663253 UP:IZH4_YEAST UP:Q68272 UP:Q99393 UP:Q99393_YEAST	
KRE1	P17260	YNL322C	942	-	-	32157.9	6.94	3	0.87	Y	0.779	313	3	0	0	7	2.2	4	1.3	4	1.3	GI:1302436 GI:3856 GI:633663 UP:KRE1_YEAST UP:P17260	
IZH1	Q03419	YDR492W	951	-	-	36491.6	8.59	13	1.43	N	0.064	316	6	11	3.5	8	2.5	6	1.9	14	4.4	GI:927736 UP:IZH1_YEAST UP:Q03419 UP:Q03419_YEAST UP:Q6Q557	
BSD2	P38356	YBR290W	966	***	***	35763.5	4.43	-17	0.71	N	0.035	321	3	1	0.3	7	2.2	2	0.6	11	3.4	GI:429135 GI:498138 GI:536744 UP:BSD2_YEAST UP:P38356	
GOS5	P40107	YER225W	1014	***	***	37018.6	9.7	12	1.3	N	0.12	337	9	6	1.8	12	3.6	6	1.8	11	3.3	GI:1322677 GI:496894 GI:603046 UP:GOS5_YEAST UP:P40107	
YP264	Q08980	YPL264C	1062	*	*	39702.7	7.89	4	1.82	N	0.395	353	10	5	1.4	14	4	10	2.8	12	3.4	GI:1370545 GI:51012635 UP:Q08980 UP:Q08980_YEAST UP:YP264_YEAST	
YNI0	P53938	YNL080C	1101	*	*	41673.7	5.84	-3.5	1.48	N	0.028	366	4	5	1.4	11	3	7	1.9	17	4.6	GI:1301973 GI:7106412 0 GI:791104 UP:P53938 UP:Q45TY2 UP:YNI0_YEAST	
SSU81	P40073	YER118C	1104	***	***	41125.5	5.38	-4	1.56	N	0.074	367	4	2	0.5	6	1.6	7	1.9	19	5.2	GI:603357 GI:622950 GI:940328 UP:P40073 UP:SSU81_YEAST	
YMG6	Q04658	YML066C	1110	*	*	40871.5	8.53	6.5	0.96	Y	0.656	369	4	6	1.6	9	2.4	4	1.1	13	3.5	GI:4526876 GI:558409 UP:Q04658 SP:Q04658 UP:YMG6_YEAST	
THI74	Q04083	YMR358W	1113	-	-	41384.5	6.02	-1.5	1.27	Y	0.701	370	10	5	1.4	8	2.2	7	1.9	10	2.7	GI:927694 UP:Q04083 UP:Q04083_YEAST UP:THI74_YEAST	
CSH1	P38287	YBR161W	1131	*	-	44381.9	9.45	17	1.95	Y	0.562	376	3	5	1.3	7	1.9	10	2.7	23	6.1	GI:51012979 GI:535470 GI:536496 UP:CSH1_YEAST UP:P38287 SP:P38287	
COS2	P38363	YML132W	1140	**	**	45165	8.72	8.5	2.41	N	0.166	379	4	9	2.4	11	2.9	16	4.2	14	3.7	GI:536767 GI:927530 UP:COS2_YEAST UP:P38363 SP:P38363	
SCS3	P53012	YGL126W	1143			42734.7	10.13	27.5	2.59	Y	0.657	380	5	10	2.6	9	2.4	17	4.5	11	2.9	GI:1322689 GI:1407585 UP:P53012 SP:P53012 UP:SCS3_YEAST	failed in cloning
COS8	P33220	YHL046C	1146			44079.4	9.6	7.5	2.25	Y	0.162	381	3	6	1.6	11	2.9	10	2.6	14	3.7	GI:2294077 UP:P33220 UP:P33220_YEAST UP:P33220 GI:927775	failed in cloning
SUR1	P33300	YJL085C	1149	-	-	44807.9	9.28	15.5	1.83	Y	0.637	382	3	7	1.8	7	1.8	9	2.4	24	6.3	GI:1076685 GI:3111863 GI:7762024 UP:P33300 SP:P33300 UP:SUR1_YEAST	
VCX1	Q99385	YDL128W	1236	***	***	44646.3	5.49	-5.5	0.77	N	0.138	411	11	3	0.7	12	2.9	4	1	9	2.2	GI:1139591 GI:1173485 GI:1431193 UP:O13580 UP:O13581 UP:Q99385 UP:Q99385_YEAST UP:VCX1_YEAST	
YB8B	P38355	YBR287W	1284	*	*	47506.2	4.53	-11	1.2	Y	0.583	427	6	3	0.7	11	2.6	8	1.9	9	2.1	GI:429132 GI:536738 UP:P38355 UP:YB8B_YEAST	
YM49	Q03236	YMR187C	1296	-	-	50287.7	9.11	21.5	2.03	Y	0.508	431	3	17	3.9	6	1.4	13	3	22	5.1	GI:854457 UP:Q03236 UP:YM49_YEAST	
RAX1	Q08760	YGR301W	1308	*	-	50160.4	7.35	5.5	1.26	N	0.046	435	3	8	1.8	9	2.1	8	1.8	14	3.2	GI:1420665 UP:Q08760 UP:Q08760_YEAST UP:RAX1_YEAST	
YD133	Q12516	YDL133W	1314	**	*	49589.1	9	10.5	1.36	N	0.014	437	4	6	1.4	4	0.9	8	1.8	17	3.9	GI:1419229 GI:1431203 UP:P89897 UP:Q12516 UP:Q12516_YEAST UP:Q7LGS2 UP:YD133_YEAST	
ZRC1	P20107	YMR243C	1329	***	***	48344.7	6.34	-2.5	0.83	Y	0.792	442	6	5	1.1	6	1.4	5	1.1	9	2	GI:51013877 GI:736309 UP:P20107 UP:ZRC1_YEAST	
AVT6	P40074	YER119C	1347	**	**	48840.2	8.92	14	0.74	Y	0.62	448	11	10	2.2	14	3.1	3	0.7	15	3.3	GI:603358 UP:AVT6_YEAST UP:P40074	
AVT5	P38176	YBL089W	1380	*	*	50891.9	9.03	16	0.54	N	0.423	459	9	10	2.2	12	2.6	1	0.2	17	3.7	UP:AVT5_YEAST UP:P38176	
VPS73	P53142	YDL104C	1461			54311.1	9.4	18.5	1.45	N	0.123	486	10	11	2.3	14	2.9	10	2.1	16	3.3	GI:1322648 UP:P53142 UP:VPS73_YEAST	failed in cloning
MCH4	Q08268	YOL119C	1506	-	-	54706.8	9.07	15.5	1.48	N	0.11	501	12	13	2.6	11	2.2	10	2	19	3.8	GI:1419995 GI:1550726 UP:MCH4_YEAST UP:Q08268	
SMP3	Q04174	YOR149C	1551	*	*	59900.4	9.2	17	1.54	Y	0.707	516	7	6	1.2	16	3.1	11	2.1	23	4.5	GI:1293709 GI:1420375 UP:Q04174 UP:Q99400 UP:SMP3_YEAST	
FCY21	P40039	YER060W	1587	*	*	58050	5.22	-5.5	1.99	N	0.024	528	10	8	1.5	14	2.7	14	2.7	28	5.3	GI:1321943 GI:1381128 UP:FCY21_YEAST UP:P40039	
FCY22	Q12119	YDR056W	1593			57707.1	8.44	17.5	1.99	Y	0.033	530	12	12	2.3	15	2.8	10	1.9	25	4.7	GI:1321944 GI:1381129 UP:FCY22_YEAST UP:Q12119 UP:Q12119_YEAST	failed in cloning
YFE0	P43562	YFL040W	1623			60609.9	9.62	11.5	1.54	Y	0.433	540	12	12	2.2	21	3.9	13	2.4	15	2.8	GI:934715 UP:P43562 UP:YFE0_YEAST	failed in cloning
MUP3	P38734	YHL036W	1641	*	*	60619.5	8.95	13	1.36	N	0.042	546	12	9	1.6	13	2.4	10	1.8	20	3.7	GI:2289865 UP:MUP3_YEAST UP:P38734	
SNG1	P46950	YGR197C	1644	*	*	61293.3	8.69	9.5	1.51	N	0.023	547	6	7	1.3	17	3.1	10	1.8	28	5.1	GI:1323351 GI:791129 UP:P46950 SP:P46950 UP:SNG1_YEAST	High MW
YD180	Q12301	YDL180W	1644	*	*	62287.7	5.13	-10	1.06	N	0.378	547	7	9	1.6	14	2.6	6	1.1	25	4.6	GI:1061258 GI:1431291 UP:Q12301 UP:Q12301_YEAST UP:YD180_YEAST	FLAG signal only
AL012	P53790	YDR033W	1665			62672.3	7.38	1.5	1.35	Y	0.642	554	9	11	2	17	3.1	11	2	23	4.2	GI:1302626 GI:5101383 UP:AL012_YEAST UP:P53790	failed in cloning
AGP3	P43548	YFL055W	1677	-	-	61051.7	7.58	4.5	1.68	N	0.029	558	12	5	0.9	6	1.1	12	2.2	27	4.8	GI:836700 UP:AGP3_YEAST UP:P43548	
GUP1	P53154	YGL084C	1683	-	-	65339.7	9.82	26	2.12	N	0.272	560	10	6	1.1	12	2.1	18	3.2	28	5	GI:1322607 UP:GUP1_YEAST UP:P53154	
YL152	P54072	YLR152C	1731	-	-	64032.1	6.84	1.5	1.17	Y	0.5	576	9	10	1.1	19	1.7	3	0.5	14	2.4	GI:1282312 GI:1360584 UP:P54072 UP:YL152_YEAST UP:YL52_YEAST	
THIX	Q08485	YDR071C	1797	***	***	67193.3	7.6	7.5	2.3	N	0.163	598	10	15	2.5	21	3.5	20	3.3	32	5.4	GI:1420223 GI:2104883 UP:O00029 UP:Q08485 UP:THIX_YEAST	low MW
GUP2	Q08929	YPL189W	1830	-	-	71288.5	9.95	31	1.92	Y	0.735	609	10	9	1.5	17	2.8	18	3	27	4.4	GI:1370385 UP:GUP2_YEAST UP:Q08929	
FRE7	Q12333	YOL152W	1853	*	* (<50%)	71996.8	9.43	26.5	1.47	N	0.052	629	8	12	1.9	16	2.5	11	1.7	34	5.4	GI:1420059 GI:886945 UP:FRE7_YEAST UP:Q12333	
ARN1	P38731	YHL040C	1884	**	**	70898.4	8.34	10.5	2.21	N	0.017	627	13	10	1.6	17	2.7	19	3	38	6.1	GI:2289869 UP:ARN1_YEAST UP:P38731	
FUR4	P05316	YBR021W	1902	*	*	71735.7	8	9.5	2.33	N	0.068	633	13	16	2.5	15	2.4	22	3.5	33	5.2	GI:498750 GI:536226 UP:FUR4_YEAST UP:P05316	
YNL5	P53225	YNL115C	1935	**	* (<50%)	74038.6	6.61	-1	1.81	N	0.022	644	5	3	0.5	7	1.1	17	2.6	29	4.5	GI:1183958 GI:1302039 UP:P53225 UP:YNL5_YEAST	
PRM2	P40534	YIL037C	1971	*	*	75021	8.18	7.5	1.14	N	0.428	656	4	5	0.8	15	2.3	11	1.7	18	2.7	GI:600011 UP:P40534 UP:PRM2_YEAST UP:YID7_YEAST	FLAG signal only
YN19	P53835	YNL279W	1986	*	*	73352.5	6.15	-2.5	1.16	N	0.414	661	3	12	1.8	17	2.6	10	1.5	22	3.3	GI:1302349 UP:P53835 UP:YN19_YEAST	smeary
FAT1	P38225	YBR041W	2010	*	*	77140.7	8.52	13.5	1.52	Y	0.645	669	3	9	1.3	14	2.1	13	1.9	34	5.1	GI:3152696 UP:FAT1_YEAST UP:Q60021 UP:P38225 UP:Q86ZS3	faint
YIG7	P40514	YIL067C	2037	-	-	75482.2	6.35	-1	1.9	N	0.021	678	8	15	2.2	13	1.9	18	2.7	32	4.7	GI:557802 UP:P40514 UP:YIG7_YEAST	
MDL1	P33310	YBL086C	2088	*	*	75950.9	9.4	34	0.34	N	0.288	695	5	5	0.7	17	2.4	11	1.6	18	2.3	GI:577195 UP:MDL1_YEAST UP:P33310	
YO365	Q08844	YOR365C	2112	*	*	80284.9	9.48	22.5	1.23	Y	0.856	703	7	10	1.4	19	2.7	10	1.4	33	4.7	GI:1420791 UP:Q08844 UP:Q08844_YEAST UP:YO365_YEAST	
FRE4	P53746	YNR060W	2160	*	*	82015.1	9.48	34	1.43	Y	0.911	719	5	12	1.7	16	2.2	10	1.4	47	6.5	GI:1302584 UP:FRE4_YEAST UP:P53746	
VTC4	P47075	YJL012C	2166	-	-	83154.5	6.81	2.5	1.06	N	0.05	721	3	4	0.6	11	1.5	9	1.2	29	4	GI:3026787 5 UP:P47075 UP:Q77872 UP:Q86ZR4 UP:VTC4_YEAST	
PMT5	P52867	YPL029W	2232	**	**	84775.7	7.05	-15	1.81	N	0.045	743	11	15	2	12	1.6	18	2.4	40	5.4	GI:1190554 GI:1431127 GI:1483592 UP:P52867 UP:PMT5_YEAST UP:Q92181	
AKR2	Q12013	YOR034C	2250	**	**	85235.9	6.72	2.5	1.35	N	0.032	749	7	13	1.7	15	2	13	1.7	32	4.3	GI:1041657 GI:1420152 UP:AKR2_YEAST UP:Q12013 UP:Q12013_YEAST	
PMT6	P42934	YGR199W	2280	***	***	88025.9	6.84	5	2.24	N	0.032	759	8	13	1.7	21	2.8	25	3.3	43	5.7	GI:1323355 GI:790490 UP:P42934 UP:PMT6_YEAST	
YD206	Q12424	YDL206W	2289	*	*	85983.3	6.13	-3.5	1.03	Y	0.552	762	12	13	1.7	11	1.4	19	2.5	29	3.8	GI:1428350 GI:1431342 UP:Q12424 UP:Q12424_YEAST UP:YD206_YEAST	faint
AKR1	P39010	YDR264C	2295	-	-	85840	5.47	-11.5	1.32	N	0.034	764	5	12	1.6	14	1.8	15	2	22	2.9	GI:1230637 GI:466522 UP:AKR1_YEAST UP:P39010	
YI 241	Q06538	YIL241W	2349	***	***	89343.3	8.25	12	1.36	N	0.095	782	11	9	1.2	11	1.4	16	2	48	5.9	GI:662339 UP:Q06538 UP:Q06538_YEAST UP:YI 241_YEAST	
FLC2	P39719	YAL053W	2352	***	***	87462.4	7.9	4.5	0.98	Y	0.691	783	9	9	1.1	15	1.9	9	1.1	27	3.4	GI:595533 UP:FLC2_YEAST UP:P39719 UP:YAF3_YEAST	no flag signal
SPO75	Q07798	YLL005C	2607	-	-	102169	10.1	56.5	1.13	N	0.168	868	11	13	1.5	13	1.5	11	1.3	41	4.7	GI:1360165 GI:1495219 UP:Q07798 UP:Q07798_YEAST UP:SPO75_YEAST	faint
NNF2	P53253	YGR089W	2811	-	-	106465	8.88	22.5	0.41	N	0.121	936	3	10	1.1	14	1.5	2	0.2	25	2.7	GI:1323131 UP:NNF2_YEAST UP:P53253 UP:YG3K_YEAST	
ATC1	P11586	YGL167C	2865			104370	6.1	0.25	0.39	N	0.019	955	7	8	0.8	31	3.2	4	0.4	57	5.9	GI:1322798 GI:1771989 UP:P11586 UP:ATC1_YEAST UP:P11586	failed in cloning
ADP1	P25371	YCR011C	3150	-	-	117231	4.78	-23	0.67	Y	0.872	1049	8	33	3.1	17	1.6	5	0.5	39	3.7	GI:1458926 GI:51013563 UP:ADP1_YEAST UP:P25371	degradation
YFD4	P43564	YFL034W	3222	**	**	119496	4.87	-31	0.85	N	0.015	1073	4	15	1.4	29	2.7	14	1.3	17	1.6	GI:836720 UP:P43564 UP:YFD4_YEAST	
BRE4	Q07660	YDL231C	3378	*	-	129725	9.29	39	1.51	N	0.025	1125	9	18	1.6	18	1.6	25	2.2	42	3.7	GI:1431390 UP:BRE4_YEAST UP:Q07660 UP:Q07660_YEAST	
ATC2	P38929	YGL006W	3522	**	**	130861	7.42	6.5	0.72	N	0.034	1173	9	17	1.4	28	2.4	11	0.9	25	2.1	GI:1322457 GI:454003 UP:ATC2_YEAST UP:P38929	
STE6	P12866	YKL209C	3873	*	-	144765	8.06	19	0.97	N	0.303	1290	10	26	2	37	2.9	15	1.2	43	3.3	GI:172758 GI:4564 GI:486373 UP:P12866 UP:STE6_YEAST	no flag signal
YN96	P53756	YNR070W	4002			149750	8.03	19.5	1.33	N	0.08	1333	9	23	1.7	40	3	20	1.5	67	5	GI:1302604 GI:2253198 UP:P53756 UP:YN96_YEAST	failed in cloning
PO152	P39685	YMR129W	4014	*	-	151652	6.72	3.5	0.72	N	0.039	1337	3	15	1.1	16	1.2	5	0.4	63	4.7	GI:473154 GI:728668 UP:P39685 UP:PO152_YEAST	
AUS1	Q08409	YOR011W	4185	*	*	157751	7.2	10	1.3	N	0.081	1394	13	26	1.9	27	1.9	21	1.5	67	4.8	GI:1420108 UP:AUS1_YEAST UP:Q94147 UP:Q08409	
PDR15	Q04182	YDR406W	4500			172255	8	21.5	1.37	N	0.018	1529	12	20	1.3	42	2.7	24	1.6	78	5.1	GI:927337 UP:PDR15_YEAST UP:Q04182	failed in cloning
SC-3	Selected	Cloned	Expressed	DDM soluble																			
Number of successful targets	96	85	62	52																			
Percentage relative to previous step		89%	73%	84%																			
Percentage relative to starting targets		89%	65%	54%																			

Protein Name	Uniprot_ID	SGD ID	Gene length (bp)	expression	Solubilization DDM	Molecular Weight (Da)	PI	Charge	Extiction Coefficient	Signal peptide	DScore	#Amino acids	#TMH	Cys	Cys%	Met	Met%	Trp	Trp%	Tyr	Tyr%	DatabaseIDs	Special Note
YA64B	Q13512	YAL064W-B	381	-	-	13273.2	3.92	-13.5	0.19	N	0.064	126	3	5	4	3	2.4	0	0	2	1.6	GI:2564966 UP:Q13512 UP:Q13512_YEAST UP:YA64B_YEAST	
YET1	P35723	YKL065C	621	**	-	23427.2	10.34	13.5	0.68	Y	0.698	206	3	2	1	4	1.9	1	0.5	8	3.9	GI:433635 GI:486089 UP:P35723 UP:Q6QS9 UP:YET1_YEAST UP:YKG5_YEAST	
YPR71	Q12346	YPR071W	636	***	***	24605.7	10.18	13.5	1.68	N	0.197	211	4	3	1.4	9	4.3	5	2.4	10	4.7	GI:1230679 GI:1314139 GI:805051 UP:Q12346 UP:Q12346_YEAST UP:YPR71_YEAST	
VATO	P23968	YHR026W	642	*	*	22595.7	8.43	3	1.27	N	0.383	213	5	3	1.4	6	2.8	3	1.4	9	4.2	GI:172221 GI:500700 GI:51013045 UP:P23968 UP:VATO_YEAST	
YO162	Q08337	YOL162W	648	-	-	44599.5	9.94	19.5	2.2	N	0.336	389	9	6	1.5	15	3.9	13	3.3	19	4.9	UP:Q08330 UP:Q08337 UP:YO162_YEAST	
YCQ0	P25613	YCR010C	852	***	***	30726.1	4.79	-5	1.51	N	0.012	283	5	3	1.1	5	1.8	5	1.8	14	4.9	GI:1907153 UP:P25613 UP:YCQ0_YEAST	
YNT4	P40169	YNL194C	906	**	*	34081.2	10.17	19.5	1.69	Y	0.707	301	4	6	2	6	2	7	2.3	14	4.7	GI:1302189 GI:600071 UP:P40169 UP:YNT4_YEAST	
YIP5	P53108	YGL161C	933	**	**	34843.1	4.57	-9	1.22	N	0.024	310	4	2	0.6	7	2.3	5	1.6	11	3.5	GI:1322756 GI:45269547 UP:P53108 UP:YGR1_YEAST UP:YIP5_YEAST	FLAG signal only
ELX1	P40464	YIL134W	938	*	*	34409.1	10.42	21	1.15	N	0.157	311	3	2	0.6	7	2.3	4	1.3	13	4.2	GI:51012965 GI:557788 GI:765084 UP:ELX1_YEAST UP:P40464	
YP114	Q06107	YPR114W	948	**	**	36750.2	9.61	14	1.8	N	0.122	315	5	4	1.3	5	1.6	8	2.5	16	5.1	GI:5101265[GI:914985 UP:Q06107 UP:Q06107_YEAST UP:YP114_YEAST	
YHU2	P38843	YHR142W	951	*	*	34898.2	5.59	-2	1.26	N	0.207	316	7	9	2.8	9	2.8	5	1.6	12	3.8	GI:500657 GI:51013407 UP:CHS7_YEAST UP:P38843 UP:YHU2_YEAST	
YN91	P53748	YNR062C	984	-	-	35658.5	9.82	13	0.84	N	0.416	327	8	6	1.8	12	3.7	3	0.9	10	3.1	GI:1302588 UP:P53748 UP:YN91_YEAST	
ELO2	P25358	YCR034W	1044	***	***	40002	9.82	21.5	1.7	N	0.134	347	7	5	1.4	5	1.4	7	2	22	6.3	GI:1907178 GI:244240 GI:2654761 GI:4490 UP:ELO2_YEAST UP:P25358	
SFK1	P35735	YKL051W	1062	***	***	40462.6	7.32	4.5	2.52	Y	0.623	353	6	6	1.7	9	2.5	13	3.7	22	6.2	GI:433650 GI:486070 UP:P35735 UP:SFK1_YEAST UP:YKF1_YEAST	
YIA6	P40556	YIL006W	1122	**	**	41954.3	8.83	10	0.9	N	0.076	373	3	5	1.3	9	2.4	3	0.8	16	4.3	GI:558398 UP:P40556 UP:YIA6_YEAST	
PFA5	Q03289	YDR459C	1125	**	**	42922.8	8.46	12	1.89	Y	0.861	374	4	13	3.5	7	1.9	10	2.7	19	5.1	GI:927749 UP:PFA5_YEAST UP:Q03289 UP:Q03289_YEAST	HIS>>>FLAG
COS4	P43542	YFL062W	1140	-	-	45312	9.09	10.5	2.53	N	0.17	379	4	8	2.1	12	3.2	17	4.5	14	3.7	GI:836663 UP:COS4_YEAST UP:P43542	
COS6	P53344	YGR295C	1146	-	-	45678.2	9.43	12	2.36	N	0.18	381	4	6	1.6	11	2.9	16	4.2	13	3.4	GI:1323539 UP:COS6_YEAST UP:P53344	
SCS7	Q03529	YMR272C	1155	**	**	44881.4	6.54	0.5	1.83	N	0.044	384	3	7	1.8	9	2.3	9	2.3	24	6.2	GI:51013751 GI:809095 UP:Q03529 UP:SCS7_YEAST	
YB42	P38226	YBR042C	1194	*	*	45515	9.8	18.5	1.63	Y	0.485	397	4	4	1	4	1	9	2.3	18	4.5	GI:536266 UP:P38226 UP:YB42_YEAST	FLAG signal only
ZRT2	Q12436	YLR130C	1269	-	-	46362.9	4.83	-13.5	1.12	Y	0.5	422	7	6	1.4	10	2.4	6	1.4	14	3.3	GI:1256904 GI:1360541 GI:51013828 GI:995693 UP:Q12436 UP:ZRT2_YEAST	
YO11A	Q92392	YOL103W-A	1323	***	***	49005.3	8.29	8	0.82	N	0.031	440	0	4	0.9	12	2.7	3	0.7	18	4.1	GI:1419959 GI:1419964 GI:683249 UP:Q92392 UP:Q92392_YEAST UP:YO1	HIS>>>FLAG
STE24	P47154	YJR117W	1362	**	**	52324	8.09	7.5	1.06	N	0.143	453	4	3	0.7	13	2.9	5	1.1	21	4.6	GI:1015837 GI:1679741 UP:P47154 UP:STE24_YEAST	
YTP1	P38884	YNL247W	1386	**	**	51643.9	9.68	1.5	1.8	Y	0.736	455	10	14	3	17	3.7	12	2.6	15	3.3	GI:1183977 GI:1362288 GI:729044 UP:P38884 UP:YTP1_YEAST	failed in cloning
ISC1	P40015	YER019W	1434	**	***	53940.4	7.58	8	1.48	N	0.026	477	2	10	2.1	6	1.3	10	2.1	18	3.8	GI:603611 UP:ISC1_YEAST UP:P40015	HIS>>>FLAG
AVT7	P40501	YIL088C	1473	**	**	53736.6	4.92	-6.5	1.04	N	0.274	490	10	8	1.6	13	2.7	6	1.2	17	3.5	GI:577126 UP:AVT7_YEAST UP:P40501	
CDC1	P40986	YDR182W	1476	**	*	57147.2	9.85	26.5	1.7	N	0.112	491	3	5	1	13	2.6	11	2.2	27	5.5	GI:1289299 GI:836895 UP:CDC1_YEAST UP:P40986	
YJ24	P47114	YJR054W	1494	***	***	57516.5	8.22	5.5	1.2	N	0.101	497	3	7	1.4	11	2.2	7	1.4	23	4.6	GI:1015719 GI:1019676 UP:P47114 UP:YJ24_YEAST	
ALG2	P43636	YGL065C	1512	*	*	58046.9	6.2	-2	1.24	N	0.076	503	4	6	1.2	8	1.6	7	1.4	25	5	GI:1322572 UP:ALG2_YEAST UP:P43636	
YKR5	P34240	YKL175W	1512	*	*	55402.4	6.55	1	0.61	Y	0.774	503	8	14	2.8	10	2	3	0.6	13	2.6	GI:407506 GI:486308 UP:P34240 UP:YKR5_YEAST	
FMP42	Q04991	YMR221C	1515	**	**	56177.6	7.08	2.5	1.09	Y	0.573	504	11	11	2.2	9	1.8	6	1.2	21	4.2	GI:887602 UP:FMP42_YEAST UP:Q04991 UP:YM68_YEAST	
YJY5	P47090	YJR015W	1533	*	*	58117	7.08	2	1.37	N	0.02	510	6	8	1.2	13	2.5	7	1.4	31	6.1	GI:1015648 GI:845589 UP:P47090 UP:YJY5_YEAST	
YL004	Q07904	YIL004C	1572	-	-	58531.2	8.39	11.5	1.23	N	0.021	523	12	14	2.7	15	2.9	7	1.3	25	4.8	GI:1360292 UP:Q07904 UP:Q07904_YEAST UP:YL004_YEAST	
IPT1	P38954	YDR072C	1584	-	-	60873.1	8	10.5	1.71	N	0.192	527	8	5	0.9	11	2.1	14	2.7	19	3.6	GI:1431533 GI:2465787 GI:51830230 GI:577799 UP:IPT1_YEAST UP:P38954	
ATG22	P25568	YCL038C	1587	***	***	58843.6	8.61	7	1.65	N	0.033	528	10	5	0.9	13	2.5	13	2.5	18	3.4	GI:5325 UP:ATG22_YEAST UP:P25568	
YM8M	Q03263	YMR279C	1623	**	**	59561.6	8.31	6.5	1.77	N	0.033	540	13	6	1.1	22	4.1	14	2.6	20	3.7	GI:825545 UP:Q03263 UP:YM8M_YEAST	
YIQ6	P40445	YIL165C	1629	*	*	61897.9	9.24	13	1.55	N	0.022	542	12	6	1.1	14	2.6	11	2	26	4.8	GI:51830402 GI:600147 UP:P40445 UP:YIQ6_YEAST	
YM30	Q03795	YMR155W	1644	*	*	60043.8	8.22	10	0.93	N	0.11	547	10	13	2.4	11	2	4	0.7	26	4.8	GI:825560 UP:Q03795 UP:YM30_YEAST	
HRD1	Q08109	YOL013C	1656	-	-	63534.8	5.45	-8	1.07	Y	0.623	551	4	9	1.6	14	2.5	9	1.6	13	2.4	GI:1419785 UP:HRD1_YEAST UP:Q08109 UP:Q08109_YEAST	
YOL19	Q08157	YOL019W	1656	*	*	60900.9	6.32	-1	0.81	Y	0.641	551	4	5	0.9	11	2	3	0.5	25	4.5	GI:1419797 UP:Q08157 UP:Q08157_YEAST UP:YOL19_YEAST	
PEX29	Q03370	YDR479C	1665	**	**	63542.5	6.05	1	1.32	N	0.042	554	4	2	0.4	17	3.1	10	1.8	21	3.8	GI:927746 UP:PEX29_YEAST UP:Q03370 UP:Q03370_YEAST	
VBA1	Q04301	YMR088C	1689	**	**	62639.3	9.02	13	1.26	N	0.089	562	12	9	1.6	10	1.8	8	1.4	26	4.6	GI:807971 UP:Q04301 UP:VBA1_YEAST UP:YMX8_YEAST	
HNM1	P19807	YGL077C	1692	***	***	62055.9	6.85	3	1.77	N	0.024	563	12	16	2.8	15	2.7	15	2.7	19	3.4	GI:1322593 GI:171330 GI:51830315 UP:HNM1_YEAST UP:P19807	
YIM0	P40475	YIL120W	1692	**	*	61758.6	9.56	22	1.05	N	0.083	563	11	12	2.1	10	1.8	8	1.4	15	2.7	GI:599997 UP:P40475 UP:YIM0_YEAST	
HXT3	P32466	YDR345C	1704	***	***	62557.4	7.1	1.5	1.57	N	0.027	567	11	15	2.6	28	4.4	11	1.9	28	4.9	GI:1230672 GI:171672 UP:HXT3_YEAST UP:P32466	
HXT11	P54862	YOL156W	1704	**	*	62732.5	8.6	9.5	1.69	N	0.017	567	11	10	1.8	18	3.2	13	2.3	25	4.4	GI:1177621 GI:1420066 GI:576724 UP:HXT11_YEAST UP:P54862	
HXT7	P39004	YDR342C	1713			62734.9	7.84	5	1.69	N	0.035	570	11	11	1.9	20	3.5	13	2.3	25	4.4	GI:1230669 GI:469181 UP:HXT7_YEAST UP:P39004	failed in cloning
HXT1	P32465	YHR094C	1713	***	***	63261.2	7.45	4	1.67	N	0.023	570	11	18	3.2	24	4.2	12	2.1	29	5.1	GI:1171670 GI:487939 UP:HXT1_YEAST UP:P32465	
VGA4	P38837	YBL042W	1716			61872.8	6.07	0.5	1.78	N	0.016	571	11	18	3.2	14	2.5	14	2.5	24	4.2	GI:1230488 GI:1431366 UP:VGA4_YEAST UP:P38837 UP:UGA4_YEAST	failed in cloning
YB30	P38125	YBR180W	1719	**	**	63402.5	9.04	15	1.3	N	0.024	572	12	8	1.4	16	2.8	10	1.7	20	3.5	GI:536532 UP:P38125 UP:YB30_YEAST	
TPN1	P53099	YGL186C	1740	-	-	64546.2	8.83	16	2.08	N	0.019	579	10	13	2.2	16	2.8	18	3.1	25	4.3	GI:1143561 GI:1322803 UP:P53099 UP:TPN1_YEAST UP:YGT6_YEAST	
ITR1	P30605	YDR497C	1755	***	***	63569.5	6.51	0	1.02	N	0.031	584	12	9	1.5	13	2.2	8	1.4	15	2.6	GI:927767 UP:ITR1_YEAST UP:P30605	
TAT2	P38967	YOL020W	1779	*	*	65404.2	8.42	14	1.79	N	0.015	592	12	14	2.4	11	1.9	17	2.9	16	2.7	GI:1419799 GI:1519487 GI:531010 GI:551284 UP:P38967 UP:TAT2_YEAST	
THIY	Q08579	YGR192C	1800	**	**	67185.3	7.2	4.5	2.27	N	0.26	599	10	16	2.7	18	3	20	3.3	30	5	GI:1420459 UP:Q08579 UP:THIY_YEAST	HIS>>>FLAG
GAP1	P19145	YKR039W	1809	*	*	66555.4	8.67	9	1.67	N	0.017	602	12	6	1	15	2.5	15	2.5	19	3.2	GI:486479 GI:5183040 UP:GAP1_YEAST UP:P19145	
YN8N	P53735	YNR039C	1818	-	-	67460.7	7.15	4	0.85	N	0.02	605	6	4	0.7	12	2	6	1	18	3	GI:1302543 UP:P53735 UP:YN8N_YEAST UP:ZRG17_YEAST	
MPH23	P47186	YDL247W	1830	**	**	67256.7	8.04	7	1.81	N	0.029	602	12	18	3	12	2	16	2.7	24	4	GI:1015921 UP:MPH23_YEAST UP:MPH3_YEAST UP:P47186 UP:Q07787	FLAG signal only
AZR1	P50080	YGR224W	1842	**	**	67168.5	9.26	14.5	1.08	N	0.044	613	13	9	1.5	12	2	8	1.3	21	3.4	GI:1323404 GI:886916 UP:AZR1_YEAST UP:P50080	
FCM3	Q99252	YOR002W	1842	-	-	68014.5	8.3	7.5	1.02	Y	0.459	613	8	9	1.5	16	2.6	9	1.5	14	2.3	GI:1262140 GI:1420263 GI:51013103 UP:FCM3_YEAST UP:Q99252	
TPO2	P53283	YGR138C	1845	***	***	67588.3	7.01	2	1.61	N	0.016	614	12	13	2.1	21	3.4	13	2.1	27	4.4	GI:1323230 UP:P53283 UP:TPO2_YEAST UP:YG3F_YEAST	
YO175	Q08548	YOR175C	1860	***	***	72227.8	9.94	36	1.65	N	0.171	619	7	9	1.5	19	3.1	14	2.3	31	5	GI:1420425 UP:Q03130 UP:Q08548 UP:Q08548_YEAST UP:YO175_YEAST	HIS>>>FLAG
YM08	P54074	YMR119W	1875	*	-	71443.9	5.59	-5	0.95	N	0.038	624	5	19	3	12	1.9	7	1.1	22	3.5	UP:ASI1_YEAST UP:P54074 UP:YM08_YEAST	
AGP1	P25376	YCL025C	1902	*	*	64865.8	7.51	6	1.33	N	0.023	595	12	10	1.7	15	2.5	10	1.7	23	3.9	GI:1458912 UP:AGP1_YEAST UP:P25376	
DAL4	Q04895	YIR028W	1908	**	**	71756.7	7.92	7	2.26	N	0.05	635	11	14	2.2	11	1.7	22	3.5	29	4.6	GI:3637 GI:557834 UP:DAL4_YEAST UP:Q04895	
YNJ5	P53932	YNL095C	1929	-	-	71195.3	7.63	4.5	1.01	Y	0.451	642	9	11	1.7	21	3.3	9	1.4	16	2.5	GI:1302002 GI:758293 UP:P53932 UP:YNJ5_YEAST	
TPO4	Q12256	YOR273C	1980	***	***	73222.7	8.39	7.5	1.39	N	0.021	659	11	5	0.8	24	3.6	13	2	22	3.3	GI:1279700 GI:1420612 UP:Q12256 UP:Q12256_YEAST UP:TPO4_YEAST	HIS>>>FLAG
SEC63	P14906	YOR254C	1992	**	**	75344.4	4.89	-17.5	0.96	N	0.356	663	3	7	1.1	9	1.4	8	1.2	21	3.2	GI:1420575 UP:P14906 UP:Q08690 UP:SEC63_YEAST	HIS>>>FLAG
ASI3	P53983	YNL008C	2010	-	-	76741	6.51	0	1.04	N	0.137	669	4	16	2.4	13	1.9	8	1.2	27	4	GI:1301826 UP:ASI3_YEAST UP:P53983 UP:YNA9_YEAST	
YL413	Q06689	YLR413W	2028	***	***	72697.7	4.77	-11.5	0.72	N	0.044	675	4	9	1.3	25	3.7	6	0.9	14	2.1	GI:632673 UP:Q06689 UP:Q06689_YEAST UP:YL413_YEAST	
YVC1	Q12324	YOR087W	2028			73952.7	5	-12	1.23	Y	0.673	675	7	9	1.3	18	2.7	9	1.3	35	5.2	UP:Q08500 UP:Q12324 UP:Q7LGN3 UP:YVC1_YEAST	failed in cloning
FRE5	Q08908	YOR384W	2085	*	*	80292.1	8.83	23	2.03	Y	0.932	694	6	12	1.7	15	2.2	21	3	34	4.9	GI:1420827 GI:51013367 UP:FRE5_YEAST UP:Q08908	
FRE3	Q08905	YOR381W	2136	*	*	80589	7.1	6	1.66	Y	0.877	711	7	15	2.1	17	2.4	12	1.7	51	7.2	GI:1420821 UP:FRE3_YEAST UP:Q08905	
MSC2	Q03455	YDR205W	2175	*	*	80577.4	7.83	17	0.74	Y	0.494	724	13	7	1	12	1.7	6	0.8	20	2.8	UP:MSC2_YEAST UP:Q03455	
GPT2	P36148	YKR067W	2232	***	*	83644.7	10	37	0.69	N	0.048	743	4	8	1.1	10	1.3	4	0.5	27	3.6	GI:1694703 GI:1869825[GI:486537 UP:GPT2_YEAST UP:P36148	HIS>>>FLAG
YKS7	P34231	YKL187C	2253	***	***	81032.8	4.64	-16	0.74	Y	0.571	750	4	4	0.5	13	1.7	6	0.8	20	2.7	GI:395238 GI:486331 UP:P34231 UP:YKS7_YEAST	HIS>>>FLAG
TUL1	P36096	YKL034W	2277	-	-	87879.3	6.55	0.5	1.49	Y	0.776	758	8	10	1.3	19	2.5	14	1.8	40	5.3	GI:486044 UP:P36096 UP:TUL1_YEAST	
PMT4	P46971	YJR143C	2289	-	-	87966	6.93	6.5	2.06	N	0.053	762	11	11	1.4	12	1.6	23	3	39	5.1	GI:1015888 GI:633654 UP:P46971 UP:PMT4_YEAST	
YGN9	P53121	YGL139W	2409	*	*	90761.2	7.51	6	1.43	Y	0.76	802	10	10	1.2	24	3	15	1.9	35	4.4	GI:1322714 UP:FLC3_YEAST UP:P53121 UP:YGN9_YEAST	
YJF1	P47046	YJL051W	2469			91256.2	5.84	5	0.47	N	0.428	822	4	7	0.9	13	1.6	3	0.4	20	2.4	GI:1008187 UP:IRC8_YEAST UP:P47046 UP:YJF1_YEAST	failed in cloning
YJG2	P40367	YJL062W	2493	-	-	94850.8	6.03	-6	1.78	Y	0.57	830	9	11	1.3	22	2.7	24	2.9	25	3	GI:1008209 GI:499005 UP:GPI7_YEAST UP:P40367 UP:YJG2_YEAST	
SSY1	Q03770	YDR160W	2559	-	-	95744.1	9.03	19	1.14	N	0.02	852	12	7	0.8	20	2.3	10	1.2	41	4.8	GI:899407 UP:Q03770 UP:SSY1_YEAST	
SUL2	Q12325	YLR092W	2682	**	**	99650.5	6.65	2	1.51	N	0.018	893	8	14	1.6	10	1.1	17	1.9	47	5.3	GI:1256894 GI:1360467 UP:Q12325 UP:SUL2_YEAST	
MCD4	P36051	YKL165C	2760	**	**	105693	6.71	3	1.46	Y	0.35	919	14	5	0.5	19	2.1	17	1.9	45	4.9	GI:407483 GI:486289 UP:MCD4_YEAST UP:P36051	
CWH43	Q8NIM1	YCR017C	2862	**	**	107882	6.21	-4.5	1.85	Y	0.557	953	19	9	0.9	24	2.5	23	2.4	54	5.7	GI:14588931 UP:CWH43_YEAST UP:P25618 UP:Q8NIM1	
GPR1	Q12361	YDL035C	2886	-	-	110709	7.1	5.5	1.51	N	0.052	961	6	11	1.1	18	1.9	21	2.2	37	3.9	GI:1279681 GI:1431015 GI:3051633 UP:GPR1_YEAST UP:Q12361	
CHS2	P14180	YBR038W	2892	**	*	109881	8.86	22.5	1.38	N	0.035	963	7	12	1.2	24	2.5	17	1.8	43	4.5	GI:171220 GI:536258 UP:CHS2_YEAST UP:P14180	
ATN5	Q12691	YDR038C	3276	**	**	120296	5.19	-17	1.02	N	0.022	1091	10	16	1.5	29	2.7	16	1.5	25	2.3	GI:1431486 UP:ATN5_YEAST UP:P89901 UP:Q12691	
ATN2	Q01896	YDR039C	3276			120317	5.19	-17	1.02	N	0.022	1091	10	16	1.5	29	2.7	16	1.5	25	2.3	GI:1431488 GI:5513 GI:790262 UP:ATN2_YEAST UP:Q01896	failed in cloning
CHS3	P29465	YBR050C	3408			131501	8.68	25	1.89	N	0.07	1166	6	22	1.9	37	2.6	23	2	41	3.5	GI:495722 GI:558260 UP:CHS3_YEAST UP:P29465	failed in cloning
ATC6	P39986	YEL031W	3648	**	**	135268	6.56	0.5	0.84	N	0.201	1215	10	13	1.1	31	2.6	12	1	35	2.9	GI:602398 UP:ATC6_YEAST UP:P39986	
ATU1	P38360	YBR295W	3651	-	-	131839	7.54	16	0.49	N	0.03	1216	7	42	3.5	19	1.6	6	0.5	24	2	GI:536754 GI:547580 UP:ATU1_YEAST UP:P38360	
NFT1	P36028	YKR0103W	3657	-	-	176331	8.78	29.5	1.2	N	0.253	1558	15	26	1.7	35	2.2	25	1.6	54	3.5	GI:29502086 GI:29502088 GI:29502090 UP:NFT1_YEAST UP:P36028 UP:P36171 UP:Q532Y	
ATC3	P39524	YAL026C	4028	***	**	153844	5.26	-21.5	1.11	N	0.02	1355	9	13	1	28	2.1	18	1.3	53	3.9	GI:171114 GI:595560 UP:ATC3_YEAST UP:P39524	
NTE1	Q04958	YML059C	5040	-	-	187132	8.24	29	0.88	N	0.027	1679	3	10	0.6	37	2.2	16	1	57	3.4	GI:577137 UP:NTE1_YEAST UP:Q04958 UP:YMF9_YEAST	
YO21B	Q12113	YKR192C-B	6313	**	**	201984	8.44	39.5	0.94	N	0.036	1770	0	15	0.8	30	1.7	15	0.8	82	4.6	GI:1420460 GI:1431576 UP:Q12113 UP:Q12113_YEAST UP:YO21B_YEAST	
CCH1	P50077	YGR217W	8120			234898	8.54	33.5	1.38	N	0.051	2039	22	25	1.3	50	2.5	34	1.7	101	5	GI:1323391 UP:CCH1_YEAST UP:P50077	failed in cloning
SC-4	Selected	Cloned	Expressed	DDM soluble																			
Number of successful targets	96	88	66	63																			
Percentage relative to previous step		92%	73%	95%																			
Percentage relative to starting targets		92%	69%	66%																			

Protein Name	Uniprot ID	SGD ID	Expression level post IMAC (mg per liter culture)	Void Check	gene length (bp)	expression	Solubilization DDM	Molecular Weight (Da)	PI	Extiction Coefficient	Signal peptide	DScore	#Amino acids	#TMH	#Cys	#Met	#Trp	#Tyr	Sequence	PFAM ID	PFAM desc	PFAM_count	Special Note
PNS1	Q12412	YOR161C	3.3	I	1620	***	***	60250.7	8.38	1.68	N	0.017	539	10	12	17	11	30	MPLNEKYERPPQPPPAYI	PF04515.3	DUF580	121	
CCC1	P47818	YLR220W	2.8	I	969	*	*	34249.8	4.71	0.71	N	0.165	322	3	0	7	2	10	MSIVALKNAVVTLIQKAKG	PF01988.9	DUF125	273	FLAG signal only
TVP15	Q03860	YDR100W	2.0	I	432	*	*	15881.5	4.13	0.64	N	0.396	143	3	1	3	0	8	MSVIPPKFFKIANISIGCID	PF08507.1	COPI assoc	24	
YO390	Q08913	YOR390W	1.9	I	1128	*	*	41985.1	8.58	1.2	N	0.286	375	9	11	14	5	17	MIFNPVISNHKLSHYIHVF	PF02537.6	CRCB	473	FLAG signal only
SVF26	P38869	YHR181W	1.8	I	600	*	*	26283.7	8.55	1.11	Y	0.668	228	4	4	2	2	14	MLLELISYAGTVSGFLFLT	PF04148.4	DUF396	36	
NSG1	P38837	YHR133C	1.7	I	780	*	*	32214.4	9.09	1.02	N	0.045	291	5	4	5	4	8	MGKKKSKNQLNTGGVPN	PF07281.2	INSIG	37	Broad peak
YIF1	P53845	YNL263C	1.7	I	945	**	**	35497.9	9.14	1.18	N	0.022	314	5	3	11	4	15	MSYNPYAYATSEQNGVN	PF03878.6	YIF1	70	
SFT2	P38166	YBL102W	1.6	I	648	***	***	24274.2	8.99	1.25	N	0.015	215	4	5	7	4	6	MSEEPPSDQVNSLRDSL	PF07770.3	SFT2	99	
YHU0	Q6B2K3	YHR140W	1.4	I	720	*	*	27145.9	10.07	1.55	Y	0.692	239	6	2	6	4	15	MMSCLVPTRFTLTLNTAC	PF04750.5	Far-17a AIG1	35	HIS>>>FLAG; broad peak
ACO1	P21147	YGL055W	1.4	I	1533	**	**	58402.8	9.33	1.99	N	0.032	510	4	4	14	15	24	MPTSGTTIELIDDQFPKDI	PF00487.14	FA desaturase	1574	FLAG signal only
YN15	P53838	YNL275W	1.4	I	1731	**	**	65027.5	7.92	0.9	N	0.037	576	10	10	14	6	19	MSNESTRVTVSRGCTAS	PF00955.11	HCO3 cotransp	272	
SHR3	Q12413	YDL212W	1.2	I	633	****	****	23512.2	8.2	1.16	Y	0.445	210	4	5	6	3	8	MFSYSDFCSIGTAMILSAT	PF08229.2	SHR3 chaperone	18	HIS>>>FLAG
PHS1	P40857	YJL097W	1.2	I	654	**	**	24510.6	10.37	1.48	Y	0.556	217	6	2	6	3	15	MSKKLASPLSFLPLYNLLS	PF04387.5	PTPLA	116	
SSU1	Q2VQ77	YPL092W	1.2	I	1377	*	*	52545.1	8.6	1.98	N	0.347	458	9	10	21	12	28	MVANWVLALTRQFDPFM	PF03595.8	C4dic mal tran	256	
CTR3	Q06686	YLR411W	1.1	I	726	**	**	27533.9	7.81	2.05	N	0.118	241	3	11	6	7	13	MNMGGSSSTAAKKATCK	PF04145.6	Ctr	173	
YPC1	P38298	YBR183W	1.1	I	951	**	**	36419.6	8.41	2.73	N	0.205	316	4	5	6	13	20	MGIFRWNYPESSVPGVW	PF05875.3	aPHC	56	FLAG signal only
STT3	P39007	YGL022W	0.8	I	2157	*	*	81528.7	8.15	2.05	Y	0.618	718	13	5	22	21	37	MGSDRSCVLSVFQTILKL	PF02516.5	STT3	178	
ATG9	Q12142	YDL149W	0.8	I	2994	*	*	115402	5.82	1.05	N	0.032	997	6	8	16	11	46	MERDEYQLPNSHGKNTF	PF04109.6	APG9	69	Degragation
BTN1	P47040	YJL059W	0.7	I	1227	**	**	46383.1	7.18	1.34	Y	0.539	408	11	7	11	6	22	MSDKSHQIYCYFWLFGLI	PF02487.8	CLN3	70	
BST1	P43571	YFL025C	0.7	I	3090	**	**	117755	6.72	1.19	N	0.12	1029	8	9	25	15	43	MGIRRLVSVITRPIINKVNS	PF05296.3	TAS2R	671	FLAG signal only
FUN26	P31381	YAL022C	0.6	I	1554	*	*	58317.1	4.69	1.11	N	0.056	517	11	4	19	8	15	MSTSADTDTIKKPILAVPE	PF01733.8	Nucleoside tran	185	FLAG signal only
PTR2	P32901	YKR093W	0.6	I	1806	*	*	68043.4	5.04	1.63	N	0.016	601	11	12	18	13	29	MLNHPSQGSDDAQDEKG	PF00854.12	PTR2	737	
ERV29	P53337	YGR284C	0.5	I	933	*	*	35012.8	10.02	1.47	N	0.055	310	7	3	7	5	18	MSYRGPIGNFGGMPMSS	PF02077.6	SURF4	64	
YHB7	P38745	YHL017W	3.3	I>V	1599	**	**	61205.8	4.31	1.41	Y	0.938	532	7	13	13	8	32	MDRTWLLLTWLLLLCGVV	PF06814.3	Lung 7-TM R	104	
PTM1	P32857	YKL039W	3.2	I>V	1572	***	***	61006.2	4.68	1.27	Y	0.774	531	7	10	16	6	34	MRVYQFCRPFQLFTCFL	PF06814.3	Lung 7-TM R	104	HIS>>>FLAG
ALG3	P38179	YBL082C	1.8	I>V	1377	**	*	52860.8	9.09	1.93	N	0.054	458	9	10	21	13	22	MEGEQSPQGEKSLQRKG	PF05208.4	ALG3	43	
YKI3	P36079	YKL083W	1.4	I>V	615	****	****	23674	8.02	1.21	Y	0.621	204	5	11	3	1	18	MRWYIYRYIYIYMYLYIYV	PF00032.8	Cytochrom B C	23702	HIS>>>FLAG
GEF1	576928	YJR040W	1.1	I>V	2340	**	**	87591.4	7.11	1.22	N	0.057	779	11	14	17	12	30	MPTTYVPINQPIGDGEDV	PF00654.10	Voltage CLC	742	FLAG signal only
YO073	Q08232	YOL073C	0.5	I>V	969	***	***	35762.1	8.07	2.06	Y	0.492	322	4	3	5	10	13	MSMEPPVGLTAMPVTKLA	PF08551.1	DUF1751	40	
ZRT1	P32804	YGL255W	0.5	I>V	1131	**	**	41581.6	5.6	2	N	0.122	376	8	6	7	11	16	MSNVTTPWWKQWDPSE	PF03824.6	NicO	204	FLAG signal only
YDC1	Q02896	YPL087W	0.3	I>V	954	**	**	37230.7	7.17	3.01	N	0.131	317	7	4	10	15	21	MLFSWPYPEAPIEGYWG	PF05875.3	aPHC	56	
YKK0	P34248	YKL100C	2.8	V>I	1764	**	**	67525	5.25	1.42	N	0.031	587	7	5	12	11	26	MDKYLNSFVDHLSEWSS	PF04258.4	Peptidase A22B	130	FLAG signal only
GPI14	P47088	YJR013W	1.3	V>I	1212	*	*	47166.2	9.33	2.38	Y	0.515	403	8	6	7	13	30	MTGEEWGLTVLSFLVRVG	PF05007.3	Mannosyl trans	63	
PEX31	P53203	YGR004W	1.1	V>I	1389	*	*	52942.7	9.74	1.7	N	0.015	462	4	2	11	12	17	MSEINNENLEPTSSTVAE	PF06398.2	Pex24b	1079	
YK31	P36142	YKR051W	0.9	V>I	1257	*	*	48756.7	8.54	2.25	Y	0.631	418	7	11	8	13	28	MENKLLCWWLYWPCVYS	PF03619.7	DUF300	118	
YJT8	P39535	YJL198W	0.9	V>I	2646	**	**	97688.3	7.1	1.07	N	0.043	881	12	10	22	12	28	MRFSHFLKYNAVPEWQN	PF03600.6	CitMHS	167	
YBS4	P38244	YBR074W	0.9	V>I	2931	**	**	111068	6.51	1.17	Y	0.485	976	9	9	17	13	44	MKLKSVFRSVLKYRKTNL	PF05653.4	DUF803	148	HIS>>>FLAG
GPI11	Q06636	YDR302W	0.7	V>I	660	**	*	25261.9	9.72	2.29	N	0.057	219	4	4	4	7	14	MPAKKRTRKTVKKTVSFS	PF06699.2	PIG-F	39	
TMS1	Q12116	YDR105C	0.7	V>I	1422	**	**	52230	5.15	1.96	N	0.402	473	10	13	13	13	22	MGAVISLPVSMAGSFVAS	PF03348.6	Serinc	125	
ICE2	P40499	YIL090W	0.7	V>I	1476	*	*	56332.7	9.02	1.93	Y	0.498	491	8	14	7	13	27	MTSLSKSFMQSGRICAAG	PF08426.1	ICE2	17	
VPS68	Q12016	YOL129W	0.6	V>I	555	***	***	20101.2	5.06	1.64	N	0.249	184	4	3	3	4	8	MEADDHVSLFRFPFKIPT	PF05255.2	UPF0220	52	
PHO87	P25360	YCR037C	0.5	V>I	2272	*	*	102539	6.23	0.94	N	0.149	923	12	11	25	12	22	MRFSHFLKYNAVPEWQN	PF02040.6	ArsB	167	
TVP38	P36164	YKR088C	5.8	V	1014	**	**	38311.3	6.25	1.03	N	0.017	337	5	1	11	4	13	MSQSYEAGNANMGQGE	PF09335.1	SNARE assoc	1246	
OST2	P46964	YOR103C	3.5	V	393	*	*	14697.5	9.74	0.17	N	0.112	130	3	5	2	0	2	MAKAPKANTPKVTSTSSA	PF02109.6	DAD	79	FLAG signal only
CTR1	P49573	YPR124W	3.4	V	1221	*	*	44441.5	6.1	0.77	N	0.043	406	3	7	37	4	9	MEGMNMGSSMNMDAMS	PF04145.6	Ctr	173	
RFT1	P38206	YBL020W	2.9	V	1725	**	**	66210.7	9.54	1.22	N	0.19	574	12	7	10	9	23	MAKKNSQLPSTSEQILER	PF04506.4	Rft-1	47	
GET2	P40056	YER083C	1.6	V	858	**	**	31493.3	9.96	1.27	N	0.04	285	3	0	5	5	9	MSELTEAEKRRLLRERRQ	PF08690.1	GET2	6	FLAG signal only
GWT1	P47026	YJL091C	1.5	V	1473	*	*	55466.2	9.69	1.58	N	0.069	490	12	9	8	10	24	MSTLKQRKEDFVTGLNG	PF06423.2	GWT1	41	
YFL2	P43614	YFR042W	1.4	V	603	*	*	23555.2	10.01	1.84	Y	0.528	200	4	2	4	4	16	MAGIKLTHKLYQYYQLAT	PF04387.5	PTPLA	116	HIS>>>FLAG
GMH1	P36125	YKR030W	1.2	V	822	*	*	31993.2	9.31	1.57	N	0.033	273	5	4	7	5	17	MSYLPTYSNDLPAGPQG	PF05216.4	UNC-50	42	
YO271	Q12029	YOR271C	1.2	V	984	***	**	35414.1	10.47	0.82	N	0.036	327	4	2	9	4	5	MASSVPGPIDLPESRYDL	PF03820.8	Mtc	96	
LAG1	Q6LD26	YHL003C	1.2	V	1236	*	*	48454.4	9.17	1.93	N	0.063	411	7	5	13	11	24	MTSATDKSIDRLVVNAKT	PF03798.6	LAG1	189	
YD352	Q06328	YDR352W	1.1	V	954	**	**	35178.9	4.64	1.1	N	0.377	317	5	6	3	3	17	MSCSNGIWPTVSNLCGS	PF01461.8	7tm 4	966	
YJ55	P47131	YJR085C	1.0	V	318	***	***	11250.1	9.64	1.25	N	0.23	105	3	0	5	0	11	MEHPAYTLSLLTTAGGLM	PF03647.4	TMEM14	75	
VPS55	P47111	YJR044C	0.9	V	423	***	***	15663.5	6.33	0.77	Y	0.583	140	4	4	6	1	5	MMEFKVSPLTKIISLSGFL	PF04133.4	Vps55	68	
YP162	Q12042	YPL162C	0.9	V	822	**	*	31346.5	6.35	1.5	N	0.321	273	5	6	6	6	10	MYVSNGKDTCQLLGPVS	PF04647.5	AqrB	103	
YN86	P27514	YNR013C	0.9	V	2685	**	**	99490.1	8.12	1	N	0.077	894	12	10	30	13	20	MKFSHSLQFNSVPEWST	PF00939.9	Na sulph symp	456	
YL014	Q12431	YLL014W	0.7	V	327	**	**	12404.4	4.88	1.79	N	0.182	108	3	1	2	3	4	MSSNEEVFTQINATANVV	PF07019.2	Rab5ip	26	
FET4	P40988	YMR319C	0.7	V	1659	****	****	62791.8	5.17	1.84	N	0.081	552	7	9	13	16	19	MGKIAEFLGNPGARPDVI	PF04120.3	Iron permease	7	
YHN8	P38799	YHR078W	0.4	V	1659	*	*	63330.7	7.45	1.24	Y	0.815	552	8	7	12	8	26	MEALIVFIVLSVSGAFAYK	PF02654.6	CobS	255	
TVP23	P38962	YDR084C	0.4	V	600	**	**	23147.8	8.86	2.46	N	0.209	199	3	4	4	8	9	MDQARNFYNTILKSSHPL	PF05832.3	DUF846	60	
			SC-1																				
	Selected	Cloned	Expressed	DDM soluble	>50% included																		
Number of successful targets	96	87	72	61	31																		
Percentage relative to previous step		91%	83%	85%	51%																		
Percentage relative to starting targets		91%	75%	64%	32%																		

	SC-1				SC-2				SC-3				SC-4			
	Selected	Cloned	Expressed	DDM soluble	Selected	Cloned	Expressed	DDM soluble	Selected	Cloned	Expressed	DDM soluble	Selected	Cloned	Expressed	DDM soluble
Number of successful targets	96	87	72	61	96	91	72	58	96	85	62	52	96	88	66	63
Percentage relative to previous step		91%	83%	85%		95%	79%	81%		89%	73%	84%		92%	73%	95%
Percentage relative to starting targets		91%	75%	64%		95%	75%	60%		89%	65%	54%		92%	69%	66%

	Combined 4 groups			
	Selected	Cloned	Expressed	DDM soluble
Number of successful targets	384	351	272	234
Percentage relative to previous step		91%	77%	86%
Percentage relative to starting targets		91%	71%	61%

UniProt ID	Protein Name	Function	Molecular Weight (Da)	Expression	Solubilization	Void Check
Q99808	hENT1	nucleoside transporter	50216	***	****	I
Q14542	hENT2	nucleoside transporter	50110	***	***	I
Q9BZD2	hENT3	nucleoside transporter	51712	**	***	
O00337	hCNT1	nucleoside transporter	71580	*	**	I
O43868	hCNT2	nucleoside transporter	71991	**	**	I
Q9HAS3	hCNT3	nucleoside transporter	76925	**	**	V
Q9H015	hOCTN1	organic cation transporter	62151	***	*	
P14859	hOCT1	organic cation transporter	61150	*	**	
P09086	hOCT2	organic cation transporter	62560	**	*	
Q01860	hOCT3	organic cation transporter	61276	*	*	