

## **SUPPLEMENTARY MATERIAL:**

For the Referees' convenience, we are attaching the supplementary material containing the tables and numerical values necessary to reproduce and use in a predictive fashion our results. This material will also be available on our designated website (<http://www.nd.edu/~networks/cell>).

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4. **Table D:** The complete list of proteins in alphabetical order, allowing the reader to locate a given gene in Fig. 3 and table C.
5. **Table E:** The list of unknown proteins, as shown in Fig. 3b, listed in the order of their predicted essentiality, i.e. ranked based on decreasing  $\rho_{\max}$ . The color code contains information about the gene known essentiality collected separately from the literature.
6. **Figure A:** Extended version of Figure 3a, including functional class information and identifying each gene product by name.

**Table A.** Summary table for functional classes. The table lists the name of each functional category, the number of proteins ( $N_Y$ ) in that functional class, and the number of essential/non-essential/phenotype-unknown proteins ( $N_Y^{lethal}, N_Y^{non-lethal}, N_Y^{unknown}$ ).

Class #	Function	$N_Y$	$N_Y^{lethal}$	$N_Y^{non-lethal}$	$N_Y^{unknown}$
1	Aging	35	3	32	0
2	Amino-acid metabolism	205	12	187	6
3	Carbohydrate metabolism	236	22	201	13
4	Cell adhesion	3	0	3	0
5	Cell cycle control	175	56	115	4
6	Cell polarity	100	29	70	1
7	Cell stress	240	11	223	6
8	Cell structure	111	27	82	2
9	Cell wall maintenance	174	21	148	5
10	Chromatin/chromosome structure	218	70	130	18
11	Cytokinesis	31	13	18	0
12	DNA repair	120	31	88	1
13	DNA synthesis	87	57	29	1
14	Differentiation	85	6	78	1
15	Energy generation	275	20	247	8
16	Lipid, fatty-acid and sterol metabolism	187	42	143	2
17	Mating response	123	12	106	5
18	Meiosis	110	8	100	2
19	Membrane fusion	23	7	16	0
20	Mitochondrial transcription	3	0	3	0
21	Mitosis	124	68	53	3
22	Nuclear-cytoplasmic transport	81	35	45	1
23	Nucleotide metabolism	91	10	74	7
24	Other	14	1	12	1
25	Other metabolism	157	20	125	12
26	Phosphate metabolism	25	1	21	3
27	Pol I transcription	29	19	10	0
28	Pol II transcription	316	85	221	10
29	Pol III transcription	36	26	9	1
30	Protein complex assembly	39	9	29	1
31	Protein degradation	161	50	111	0
32	Protein folding	85	20	64	1
33	Protein modification	184	53	131	0
34	Protein synthesis	358	82	264	12
35	Protein translocation	81	28	50	3
36	RNA processing/modification	275	161	112	2
37	RNA splicing	103	68	33	2
38	RNA turnover	35	14	21	0
39	Recombination	64	10	54	0
40	Septation	1	0	1	0
41	Signal transduction	119	15	103	1
42	Small molecule transport	367	17	329	21
43	Vesicular transport	258	67	189	2
44	Unknown	2649	259	2083	307

**Table B:** Coefficients of  $L(r)$  curve,  $L_x(r) = a_x r^3 + b_x r^2 + c_x r + 1$  where the subscript  $x$  stands for either on  $\sigma_{251}$ ,  $\sigma_{63}$ , or  $k$ . Functional classes for which we used averaged data due to insufficient data are marked with \* (see Methods and Procedures for further details).

Functional Class	$a_{251}$	$b_{251}$	$c_{251}$	$a_{63}$	$b_{63}$	$c_{63}$	$a_k$	$b_k$	$c_k$
1*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
2	0.384384	0.667668	-2.052052	1.244623	-1.395918	-0.848705	-3.55849	4.056717	-1.498227
3	0.212074	0.695362	-1.907437	-0.729564	2.134258	-2.404693	0.572067	-1.343398	-0.228669
4*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
5	0.095439	0.086141	-1.18158	0.823194	-1.036875	-0.786319	-1.77835	2.264941	-1.486591
6	-1.536604	2.746133	-2.209529	0.461595	-0.559665	-0.90193	-0.121496	0.052451	-0.930955
7	-0.886622	2.6183	-2.731678	1.116437	-0.791443	-1.324994	-4.858828	8.334181	-4.475353
8	0.126091	-0.198124	-0.927967	1.04724	-1.44285	-0.604389	0.073423	-0.604668	-0.468754
9	-0.200344	1.426793	-2.226449	1.507348	-1.571126	-0.936222	-3.038795	3.242064	-1.203269
10	0.175564	-0.174313	-1.00125	0.620075	-1.076259	-0.543816	-1.280469	2.010538	-1.730069
11	-0.616723	0.809428	-1.192705	-0.224789	-0.011944	-0.763267	0.394731	-1.697574	0.302843
12	-0.396787	1.611793	-2.215006	-1.234363	2.137639	-1.903276	-1.757814	3.591107	-2.833292
13	0.862296	-1.276716	-0.585581	0.174516	-0.294267	-0.880249	-0.393543	0.529594	-1.136051
14*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
15	-0.0666	0.518354	-1.451754	0.846924	-0.958278	-0.888646	0.165762	-0.672289	-0.493474
16	0.490901	-0.335167	-1.155734	-0.690134	1.108603	-1.418469	1.468429	-2.284845	-0.183583
17	-1.024253	3.115685	-3.091432	1.56708	-1.940134	-0.626946	-1.350305	0.919281	-0.568976
18	-0.613398	2.032722	-2.419323	-1.257804	2.680633	-2.422829	0.04246	-0.752029	-0.290431
19*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
20*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
21	0.159405	-0.040932	-1.118473	-0.024384	0.300067	-1.275684	0.085962	-0.624953	-0.461009
22	0.198575	-0.257563	-0.941012	1.002577	-1.252393	-0.750184	0.574941	-1.106137	-0.468804
23	-0.507107	0.635222	-1.128115	-0.090556	0.17123	-1.080673	-2.038652	4.589872	-3.55122
24*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
25	-0.065988	0.808362	-1.742374	-0.090795	0.601026	-1.510231	-3.112028	4.94346	-2.831432
26*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
27	0.10783	-0.360232	-0.747598	0.050821	-0.398337	-0.652484	1.063526	-2.305597	0.242071
28	-0.022719	0.844118	-1.821399	0.095349	0.458198	-1.553547	-0.766082	1.041235	-1.275153
29	0.218803	-0.432189	-0.786613	0.529929	-0.936372	-0.593557	0.840062	-0.979271	-0.860791
30	-0.843842	1.578952	-1.73511	0.316381	0.264911	-1.581292	0.864371	-2.590302	0.725932
31	0.885157	-0.805585	-1.079572	-0.077306	0.720011	-1.642705	-0.69527	0.470674	-0.775403
32	-0.841627	1.566188	-1.724562	0.546389	-0.614978	-0.931411	-0.864939	1.795564	-1.930626
33	-0.250796	0.50394	-1.253144	-0.334364	0.499278	-1.164914	-0.670906	1.262115	-1.591209
34	-0.943778	1.56648	-1.622702	-0.638862	1.051812	-1.41295	0.331857	-1.319007	-0.01285
35	0.555771	-0.862685	-0.693085	-0.989937	1.248738	-1.2588	1.848049	-2.711942	-0.136107
36	0.163891	-0.191116	-0.972774	0.117152	-0.064327	-1.052825	-0.109127	-0.379259	-0.511614
37	0.102862	-0.069767	-1.033096	-0.154666	0.190576	-1.035911	0.01384	-0.30552	-0.708319
38	1.901282	-3.424007	0.522725	0.477694	-1.0952	-0.382494	-1.582682	1.516985	-0.934302
39	-0.761924	1.41269	-1.650766	0.476342	-0.661757	-0.814584	-2.041041	4.076757	-3.035716
40*	-0.244779	0.992744	-1.747965	0.265626	-0.036436	-1.229191	-0.888664	1.118551	-1.229887
41	-1.045328	2.823793	-2.778464	0.294492	0.293778	-1.588269	0.835082	-0.996543	-0.838539
42	-0.623593	2.011548	-2.387954	1.039747	-1.230371	-0.809376	-2.124274	2.708342	-1.584068
43	0.330522	0.024752	-1.355274	0.496726	-0.660812	-0.835914	-1.062667	1.29407	-1.231403
44	1.126091	-1.230837	-0.895254	0.913925	-1.259469	-0.654457	-0.694792	0.935243	-1.240451

**Table C:** The complete protein list, proteins being shown in the order of their likelihood of lethality, as ordered in Fig. 3a. The colors denote the proteins known essentially red = essential, green = non-essential, black = unknown. Using the matching numbering in the table and in Fig 3a, one can identify each protein in Fig. 3a.

YLL064C	YLL023C	YBR282C	YOL099W	YDR830W	YGR073W	YOR174W	YOR025W	YPR024C	YKR018C	YKL062C	YPL129W	YHM072W	YCR021C	YLI019W	YKL150W	YMR215W	YBR035C	YPR193C	YOL124W	YGL121W	YGR197C	YOR081W
YLL117W	YOL043C	YBR080C	YOL69W	YGR212W	YGR252C	YOR121W	YOR098C	YKR013C	YKL059C	YGR130W	YOR070W	YOR170W	YCR022C	YLI025W	YKL013W	YMR185W	YBR036C	YPR194C	YOL125W	YGL122W	YGR198C	YOR082W
YLL131W	YOL116W	YBR112C	YOL160W	YOR118W	YOL288C	YOR154C	YOR093C	YKR014C	YKL060C	YGR131W	YOR071W	YOR171W	YCR023C	YLI026W	YKL014W	YMR186W	YBR037C	YPR195C	YOL126W	YGL123W	YGR199C	YOR083W
YLL262W	YOL010C	YBR008C	YOL012C	YOR119W	YOL300C	YOR155C	YOR094C	YKR015C	YKL061C	YGR132W	YOR072W	YOR172W	YCR024C	YLI027W	YKL015W	YMR187W	YBR038C	YPR196C	YOL127W	YGL124W	YGR200C	YOR084W
YPR007C	YOL011C	YBR009C	YOL013C	YOR120W	YOL301C	YOR156C	YOR095C	YKR016C	YKL062C	YGR133W	YOR073W	YOR173W	YCR025C	YLI028W	YKL016W	YMR188W	YBR039C	YPR197C	YOL128W	YGL125W	YGR201C	YOR085W
YPR171W	YOL014C	YBR010C	YOL014C	YOR121W	YOL302C	YOR157C	YOR096C	YKR017C	YKL063C	YGR134W	YOR074W	YOR174W	YCR026C	YLI029W	YKL017W	YMR189W	YBR040C	YPR198C	YOL129W	YGL126W	YGR202C	YOR086W
YOR025W	YOL015C	YBR011C	YOL015C	YOR122W	YOL303C	YOR158C	YOR097C	YKR018C	YKL064C	YGR135W	YOR075W	YOR175W	YCR027C	YLI030W	YKL018W	YMR190W	YBR041C	YPR199C	YOL130W	YGL127W	YGR203C	YOR087W
YOL042C	YOL016C	YBR012C	YOL016C	YOR123W	YOL304C	YOR159C	YOR098C	YKR019C	YKL065C	YGR136W	YOR076W	YOR176W	YCR028C	YLI031W	YKL019W	YMR191W	YBR042C	YPR200C	YOL131W	YGL128W	YGR204C	YOR088W
YOR099W	YOL017C	YBR013C	YOL017C	YOR124W	YOL305C	YOR160C	YOR099C	YKR020C	YKL066C	YGR137W	YOR077W	YOR177W	YCR029C	YLI032W	YKL020W	YMR192W	YBR043C	YPR201C	YOL132W	YGL129W	YGR205C	YOR089W
YOL043C	YOL018C	YBR014C	YOL018C	YOR125W	YOL306C	YOR161C	YOR100C	YKR021C	YKL067C	YGR138W	YOR078W	YOR178W	YCR030C	YLI033W	YKL021W	YMR193W	YBR044C	YPR202C	YOL133W	YGL130W	YGR206C	YOR090W
YOR099W	YOL019C	YBR015C	YOL019C	YOR126W	YOL307C	YOR162C	YOR101C	YKR022C	YKL068C	YGR139W	YOR079W	YOR179W	YCR031C	YLI034W	YKL022W	YMR194W	YBR045C	YPR203C	YOL134W	YGL131W	YGR207C	YOR091W
YOL044C	YOL020C	YBR016C	YOL020C	YOR127W	YOL308C	YOR163C	YOR102C	YKR023C	YKL069C	YGR140W	YOR080W	YOR180W	YCR032C	YLI035W	YKL023W	YMR195W	YBR046C	YPR204C	YOL135W	YGL132W	YGR208C	YOR092W
YOR099W	YOL021C	YBR017C	YOL021C	YOR128W	YOL309C	YOR164C	YOR103C	YKR024C	YKL070C	YGR141W	YOR081W	YOR181W	YCR033C	YLI036W	YKL024W	YMR196W	YBR047C	YPR205C	YOL136W	YGL133W	YGR209C	YOR093W
YPR171W	YOL022C	YBR018C	YOL022C	YOR129W	YOL310C	YOR165C	YOR104C	YKR025C	YKL071C	YGR142W	YOR082W	YOR182W	YCR034C	YLI037W	YKL025W	YMR197W	YBR048C	YPR206C	YOL137W	YGL134W	YGR210C	YOR094W
YOR025W	YOL023C	YBR019C	YOL023C	YOR130W	YOL311C	YOR166C	YOR105C	YKR026C	YKL072C	YGR143W	YOR083W	YOR183W	YCR035C	YLI038W	YKL026W	YMR198W	YBR049C	YPR207C	YOL138W	YGL135W	YGR211C	YOR095W
YPR171W	YOL024C	YBR020C	YOL024C	YOR131W	YOL312C	YOR167C	YOR106C	YKR027C	YKL073C	YGR144W	YOR084W	YOR184W	YCR036C	YLI039W	YKL027W	YMR199W	YBR050C	YPR208C	YOL139W	YGL136W	YGR212C	YOR096W
YOR025W	YOL025C	YBR021C	YOL025C	YOR132W	YOL313C	YOR168C	YOR107C	YKR028C	YKL074C	YGR145W	YOR085W	YOR185W	YCR037C	YLI040W	YKL028W	YMR200W	YBR051C	YPR209C	YOL140W	YGL137W	YGR213C	YOR097W
YPR171W	YOL026C	YBR022C	YOL026C	YOR133W	YOL314C	YOR169C	YOR108C	YKR029C	YKL075C	YGR146W	YOR086W	YOR186W	YCR038C	YLI041W	YKL029W	YMR201W	YBR052C	YPR210C	YOL141W	YGL138W	YGR214C	YOR098W
YOR025W	YOL027C	YBR023C	YOL027C	YOR134W	YOL315C	YOR170C	YOR109C	YKR030C	YKL076C	YGR147W	YOR087W	YOR187W	YCR039C	YLI042W	YKL030W	YMR202W	YBR053C	YPR211C	YOL142W	YGL139W	YGR215C	YOR099W
YPR171W	YOL028C	YBR024C	YOL028C	YOR135W	YOL316C	YOR171C	YOR110C	YKR031C	YKL077C	YGR148W	YOR088W	YOR188W	YCR040C	YLI043W	YKL031W	YMR203W	YBR054C	YPR212C	YOL143W	YGL140W	YGR216C	YOR100W
YOR025W	YOL029C	YBR025C	YOL029C	YOR136W	YOL317C	YOR172C	YOR111C	YKR032C	YKL078C	YGR149W	YOR089W	YOR189W	YCR041C	YLI044W	YKL032W	YMR204W	YBR055C	YPR213C	YOL144W	YGL141W	YGR217C	YOR101W
YPR171W	YOL030C	YBR026C	YOL030C	YOR137W	YOL318C	YOR173C	YOR112C	YKR033C	YKL079C	YGR150W	YOR090W	YOR190W	YCR042C	YLI045W	YKL033W	YMR205W	YBR056C	YPR214C	YOL145W	YGL142W	YGR218C	YOR102W
YOR025W	YOL031C	YBR027C	YOL031C	YOR138W	YOL319C	YOR174C	YOR113C	YKR034C	YKL080C	YGR151W	YOR091W	YOR191W	YCR043C	YLI046W	YKL034W	YMR206W	YBR057C	YPR215C	YOL146W	YGL143W	YGR219C	YOR103W
YPR171W	YOL032C	YBR028C	YOL032C	YOR139W	YOL320C	YOR175C	YOR114C	YKR035C	YKL081C	YGR152W	YOR092W	YOR192W	YCR044C	YLI047W	YKL035W	YMR207W	YBR058C	YPR216C	YOL147W	YGL144W	YGR220C	YOR104W
YOR025W	YOL033C	YBR029C	YOL033C	YOR140W	YOL321C	YOR176C	YOR115C	YKR036C	YKL082C	YGR153W	YOR093W	YOR193W	YCR045C	YLI048W	YKL036W	YMR208W	YBR059C	YPR217C	YOL148W	YGL145W	YGR221C	YOR105W
YPR171W	YOL034C	YBR030C	YOL034C	YOR141W	YOL322C	YOR177C	YOR116C	YKR037C	YKL083C	YGR154W	YOR094W	YOR194W	YCR046C	YLI049W	YKL037W	YMR209W	YBR060C	YPR218C	YOL149W	YGL146W	YGR222C	YOR106W
YOR025W	YOL035C	YBR031C	YOL035C	YOR142W	YOL323C	YOR178C	YOR117C	YKR038C	YKL084C	YGR155W	YOR095W	YOR195W	YCR047C	YLI050W	YKL038W	YMR210W	YBR061C	YPR219C	YOL150W	YGL147W	YGR223C	YOR107W
YPR171W	YOL036C	YBR032C	YOL036C	YOR143W	YOL324C	YOR179C	YOR118C	YKR039C	YKL085C	YGR156W	YOR096W	YOR196W	YCR048C	YLI051W	YKL039W	YMR211W	YBR062C	YPR220C	YOL151W	YGL148W	YGR224C	YOR108W
YOR025W	YOL037C	YBR033C	YOL037C	YOR144W	YOL325C	YOR180C	YOR119C	YKR040C	YKL086C	YGR157W	YOR097W	YOR197W	YCR049C	YLI052W	YKL040W	YMR212W	YBR063C	YPR221C	YOL152W	YGL149W	YGR225C	YOR109W
YPR171W	YOL038C	YBR034C	YOL038C	YOR145W	YOL326C	YOR181C	YOR120C	YKR041C	YKL087C	YGR158W	YOR098W	YOR198W	YCR050C	YLI053W	YKL041W	YMR213W	YBR064C	YPR222C	YOL153W	YGL150W	YGR226C	YOR110W
YOR025W	YOL039C	YBR035C	YOL039C	YOR146W	YOL327C	YOR182C	YOR121C	YKR042C	YKL088C	YGR159W	YOR099W	YOR199W	YCR051C	YLI054W	YKL042W	YMR214W	YBR065C	YPR223C	YOL154W	YGL151W	YGR227C	YOR111W
YPR171W	YOL040C	YBR036C	YOL040C	YOR147W	YOL328C	YOR183C	YOR122C	YKR043C	YKL089C	YGR160W	YOR100W	YOR200W	YCR052C	YLI055W	YKL043W	YMR215W	YBR066C	YPR224C	YOL155W	YGL152W	YGR228C	YOR112W
YOR025W	YOL041C	YBR037C	YOL041C	YOR148W	YOL329C	YOR184C	YOR123C	YKR044C	YKL090C	YGR161W	YOR101W	YOR201W	YCR053C	YLI056W	YKL044W	YMR216W	YBR067C	YPR225C	YOL156W	YGL153W	YGR229C	YOR113W
YPR171W	YOL042C	YBR038C	YOL042C	YOR149W	YOL330C	YOR185C	YOR124C	YKR045C	YKL091C	YGR162W	YOR102W	YOR202W	YCR054C	YLI057W	YKL045W	YMR217W	YBR068C	YPR226C	YOL157W	YGL154W	YGR230C	YOR114W
YOR025W	YOL043C	YBR039C	YOL043C	YOR150W	YOL331C	YOR186C	YOR125C	YKR046C	YKL092C	YGR163W	YOR103W	YOR203W	YCR055C	YLI058W	YKL046W	YMR218W	YBR069C	YPR227C	YOL158W	YGL155W	YGR231C	YOR115W
YPR171W	YOL044C	YBR040C	YOL044C	YOR151W	YOL332C	YOR187C	YOR126C	YKR047C	YKL093C	YGR164W	YOR104W	YOR204W	YCR056C	YLI059W	YKL047W	YMR219W	YBR070C	YPR228C	YOL159W	YGL156W	YGR232C	YOR116W
YOR025W	YOL045C	YBR041C	YOL045C	YOR152W	YOL333C	YOR188C	YOR127C	YKR048C	YKL094C	YGR165W	YOR105W	YOR205W	YCR057C	YLI060W	YKL048W	YMR220W	YBR071C	YPR229C	YOL160W	YGL157W	YGR233C	YOR117W
YPR171W	YOL046C	YBR042C	YOL046C	YOR153W	YOL334C	YOR189C	YOR128C	YKR049C	YKL095C	YGR166W	YOR106W	YOR206W	YCR058C	YLI061W	YKL049W	YMR221W	YBR072C	YPR230C	YOL161W	YGL158W	YGR234C	YOR118W
YOR025W	YOL047C	YBR043C	YOL047C	YOR154W	YOL335C	YOR190C	YOR129C	YKR050C	YKL096C	YGR167W	YOR107W	YOR207W	YCR059C	YLI062W	YKL050W	YMR222W	YBR073C	YPR231C	YOL162W	YGL159W	YGR235C	YOR119W
YPR171W	YOL048C	YBR044C	YOL048C	YOR155W	YOL336C	YOR191C	YOR130C	YKR051C	YKL097C	YGR168W	YOR108W	YOR208W	YCR060C	YLI063W	YKL051W	YMR223W	YBR074C	YPR232C	YOL163W	YGL160W	YGR236C	YOR120W
YOR025W	YOL049C	YBR045C	YOL049C	YOR156W	YOL337C	YOR192C	YOR131C	YKR052C	YKL098C	YGR169W	YOR109W	YOR209W	YCR061C	YLI064W	YKL052W	YMR224W	YBR075C	YPR233C	YOL164W	YGL161W	YGR237C	YOR121W
YPR171W	YOL050C	YBR046C	YOL050C	YOR157W	YOL338C	YOR193C	YOR132C	YKR053C	YKL099C	YGR170W	YOR110W	YOR210W	YCR062C	YLI065W	YKL053W	YMR225W	YBR076C	YPR234C	YOL165W	YGL162W	YGR238C	YOR122W
YOR025W	YOL051C	YBR047C	YOL051C	YOR158W	YOL339C	YOR194C	YOR133C	YKR054C	YKL100C	YGR171W	YOR111W	YOR211W	YCR063C	YLI066W	YKL054W	YMR226W	YBR077C	YPR235C	YOL166W	YGL163W	YGR239C	YOR123W
YPR171W	YOL052C	YBR048C	YOL052C	YOR159W																		

**Table D:** The complete protein list in alphabetical order, listing the essentiality ranking of the proteins in Fig. 3a and Table C. The table allows one to find the location of any protein of interest in Fig. 3a. The third column lists the functional classes to which a protein has been assigned by YPD. The colors denote essentiality (red = essential, green = non-essential, black = unknown).

YAL001C	130	<sup>29</sup>	YBL039C	3004	<sup>23</sup>	YBR055C	143	<sup>36,37</sup>	YBR158W	3340	<sup>7</sup>	YBR282W	1978	<sup>15,34</sup>	YCR048W	2312	<sup>16</sup>
YAL002W	2557	<sup>43</sup>	YBL040C	1956	<sup>43</sup>	YBR056W	2740	<sup>3</sup>	YBR159W	1961	<sup>16</sup>	YBR283C	1088	<sup>35</sup>	YCR052W	1121	<sup>10</sup>
YAL003W	2166	<sup>34</sup>	YBL041W	943	<sup>31</sup>	YBR057C	2745	<sup>18</sup>	YBR160W	183	<sup>5</sup>	YBR286W	1729	<sup>31</sup>	YCR053W	2874	<sup>2</sup>
YAL005C	618	<sup>32,35</sup>	YBL042C	2670	<sup>23,42</sup>	YBR058C	1304	<sup>31</sup>	YBR162W-A	1344	<sup>35</sup>	YBR288C	909	<sup>43</sup>	YCR057C	742	<sup>6,11</sup>
YAL007C	2118	<sup>43</sup>	YBL043W	2452	<sup>9</sup>	YBR060C	37	<sup>13,28</sup>	YBR163W	1150	<sup>5,7,8,15,41</sup>	YBR289W	1297	<sup>10,28</sup>	YCR059C	2707	<sup>2</sup>
YAL009W	2686	<sup>18</sup>	YBL045C	3407	<sup>15,42</sup>	YBR065C	253	<sup>9,37</sup>	YBR164C	1419	<sup>41,43</sup>	YBR290W	3337	<sup>7,42</sup>	YCR065W	2496	<sup>28</sup>
YAL010C	1139	<sup>8,30</sup>	YBL047C	1694	<sup>8</sup>	YBR066C	1852	<sup>28</sup>	YBR165W	1187	<sup>5</sup>	YBR291C	3421	<sup>42</sup>	YCR066W	778	<sup>12,31</sup>
YAL012W	3168	<sup>2,25</sup>	YBL050W	447	<sup>19,43</sup>	YBR067C	3623	<sup>7,9</sup>	YBR166C	3094	<sup>2</sup>	YBR293W	2841	<sup>41,42</sup>	YCR067C	1471	<sup>43</sup>
YAL013W	2299	<sup>16</sup>	YBL051C	173	<sup>36</sup>	YBR068C	5243	<sup>2,42</sup>	YBR167C	118	<sup>13,36</sup>	YBR294W	2216	<sup>16</sup>	YCR068W	2297	<sup>97</sup>
YAL015C	2419	<sup>7,12</sup>	YBL052C	1279	<sup>10</sup>	YBR069C	3130	<sup>2,42</sup>	YBR169C	2189	<sup>32</sup>	YBR295W	3618	<sup>42</sup>	YCR069W	1868	<sup>32</sup>
YAL016W	133	<sup>7,29</sup>	YBL056W	2622	<sup>7,41</sup>	YBR070C	3286	<sup>7</sup>	YBR170C	750	<sup>22</sup>	YBR296C	2225	<sup>5,17,42</sup>	YCR071C	3123	<sup>15</sup>
YAL020C	2153	<sup>8</sup>	YBL058W	2618	<sup>3</sup>	YBR072W	2034	<sup>7,32</sup>	YBR171W	424	<sup>5,33,35</sup>	YBR297W	3385	<sup>3</sup>	YCR073C	3061	<sup>41</sup>
YAL021C	1586	<sup>2,5,17,28</sup>	YBL061C	2267	<sup>9</sup>	YBR073W	801	<sup>12,18,39</sup>	YBR173C	784	<sup>30,31</sup>	YBR298C	3564	<sup>3,42</sup>	YCR073W-A	623	<sup>3,36</sup>
YAL022C	2965	<sup>23,42</sup>	YBL063W	663	<sup>21</sup>	YBR076W	2960	<sup>9</sup>	YBR176W	2442	<sup>9</sup>	YBR299W	2856	<sup>3</sup>	YCR077C	541	<sup>21,34,38,39</sup>
YAL023C	836	<sup>33</sup>	YBL064C	3509	<sup>7</sup>	YBR078W	2584	<sup>9</sup>	YBR179C	117	<sup>13</sup>	YCL001W	2238	<sup>43</sup>	YCR081W	1931	<sup>28</sup>
YAL024C	484	<sup>21</sup>	YBL066C	2693	<sup>28</sup>	YBR079C	2348	<sup>34</sup>	YBR180W	3572	<sup>42</sup>	YCL004W	2145	<sup>16</sup>	YCR083W	3300	<sup>7</sup>
YAL025C	586	<sup>36</sup>	YBL067C	995	<sup>31</sup>	YBR080C	917	<sup>19,43</sup>	YBR181C	2466	<sup>34</sup>	YCL007C	2179	<sup>9</sup>	YCR084C	1579	<sup>10,17,18,28</sup>
YAL026C	4031	<sup>42,43</sup>	YBL068W	2912	<sup>2,23</sup>	YBR081C	1163	<sup>8,10,28,33</sup>	YBR182C	2193	<sup>28</sup>	YCL008C	2544	<sup>43</sup>	YCR086W	2626	<sup>18</sup>
YAL029C	456	<sup>6</sup>	YBL069W	923	<sup>43</sup>	YBR082C	1376	<sup>31</sup>	YBR183W	2146	<sup>16</sup>	YCL009C	3635	<sup>2</sup>	YCR088W	648	<sup>8,43</sup>
YAL030W	761	<sup>19,43</sup>	YBL072C	2486	<sup>34</sup>	YBR083W	3405	<sup>14</sup>	YBR185C	3238	<sup>15</sup>	YCL011C	394	<sup>10,36</sup>	YCR089W	2837	<sup>17</sup>
YAL032C	205	<sup>36,37</sup>	YBL074C	297	<sup>37</sup>	YBR084C-A	2376	<sup>34</sup>	YBR186W	3406	<sup>18</sup>	YCL012W	2032	<sup>6</sup>	YCR092C	754	<sup>12,39</sup>
YAL033W	112	<sup>13,36</sup>	YBL075C	1289	<sup>7,32,35</sup>	YBR084W	2936	<sup>2,23</sup>	YBR188C	140	<sup>36,37</sup>	YCL014W	2396	<sup>6</sup>	YCR093W	960	<sup>5,28</sup>
YAL034W-A	388	<sup>10,21</sup>	YBL076C	2454	<sup>34</sup>	YBR085W	2306	<sup>15,42</sup>	YBR189W	2427	<sup>34</sup>	YCL017C	2611	<sup>15,25,42</sup>	YCR094W	1555	<sup>5</sup>
YAL035W	2351	<sup>34</sup>	YBL078C	788	<sup>18,31,43</sup>	YBR086C	1706	<sup>6,7,42</sup>	YBR191W	2285	<sup>34</sup>	YCL018W	2878	<sup>2</sup>	YCR096C	3269	<sup>14,17</sup>
YAL038W	2980	<sup>3,15</sup>	YBL079W	774	<sup>22</sup>	YBR087W	103	<sup>12,13</sup>	YBR192W	3044	<sup>15,42</sup>	YCL024W	1005	<sup>5</sup>	YCR097W	2382	<sup>7,9,17,28</sup>
YAL039C	1439	<sup>15,33</sup>	YBL080C	2103	<sup>33</sup>	YBR088C	7	<sup>10,12,13</sup>	YBR193C	697	<sup>28</sup>	YCL025C	3226	<sup>2,42</sup>	YCR098C	2846	<sup>25,42</sup>
YAL040C	282	<sup>5,10</sup>	YBL082C	842	<sup>33</sup>	YBR090C-A	280	<sup>28</sup>	YBR195C	1052	<sup>10,12</sup>	YCL026C-A	3588	<sup>41</sup>	YCR098W	1930	<sup>28</sup>
YAL041W	614	<sup>6,17</sup>	YBL084C	196	<sup>5,21,31</sup>	YBR091C	1648	<sup>35</sup>	YBR196C	2615	<sup>3</sup>	YCL027W	2771	<sup>17</sup>	YCR107W	2590	<sup>25</sup>
YAL042W	2132	<sup>43</sup>	YBL085W	1570	<sup>6</sup>	YBR092C	3599	<sup>42</sup>	YBR198C	808	<sup>28</sup>	YCL029C	693	<sup>21</sup>	YDL003W	659	<sup>10,21</sup>
YAL043C	534	<sup>36</sup>	YBL087C	2431	<sup>34</sup>	YBR093C	3571	<sup>26</sup>	YBR199W	1824	<sup>33</sup>	YCL030C	3630	<sup>2</sup>	YDL004W	3237	<sup>15,42</sup>
YAL044C	3225	<sup>2</sup>	YBL088C	1392	<sup>10</sup>	YBR095C	1776	<sup>5,14,17</sup>	YBR200W	1138	<sup>6,14</sup>	YCL031C	503	<sup>36</sup>	YDL005C	1649	<sup>28</sup>
YAL047C	288	<sup>8,17,18,21</sup>	YBL089W	2665	<sup>42</sup>	YBR096W	3281	<sup>7,14</sup>	YBR201W	1075	<sup>31</sup>	YCL032W	1816	<sup>14,17,41</sup>	YDL006W	341	<sup>36,41</sup>
YAL048C	2075	<sup>30</sup>	YBL090W	2319	<sup>14,15,34</sup>	YBR097W	1356	<sup>5,7,8,15,19</sup>	YBR202W	64	<sup>13</sup>	YCL034W	1766	<sup>8</sup>	YDL007W	888	<sup>31</sup>
YAL051W	1909	<sup>16</sup>	YBL091C	840	<sup>33</sup>	YBR098W	1556	<sup>5,7,8,12</sup>	YBR204C	2038	<sup>16</sup>	YCL035C	3410	<sup>7</sup>	YDL008W	479	<sup>5,21,31,33</sup>
YAL054C	3023	<sup>3</sup>	YBL092W	2252	<sup>34</sup>	YBR101C	3507	<sup>7</sup>	YBR205W	1853	<sup>33</sup>	YCL037C	1867	<sup>34,43</sup>	YDL013W	2558	<sup>3</sup>
YAL058W	980	<sup>9,31</sup>	YBL093C	1117	<sup>28</sup>	YBR102C	2200	<sup>43</sup>	YBR207W	3443	<sup>42</sup>	YCL040W	2919	<sup>3</sup>	YDL014W	166	<sup>36</sup>
YAL059W	2813	<sup>9</sup>	YBL097W	883	<sup>10,21</sup>	YBR103W	1451	<sup>10,17</sup>	YBR208C	2889	<sup>25</sup>	YCL043C	2271	<sup>32</sup>	YDL017W	18	<sup>10,12,13,18</sup>
YAL062W	3190	<sup>2</sup>	YBL098W	2865	<sup>2,25</sup>	YBR104W	3288	<sup>42</sup>	YBR211C	863	<sup>11</sup>	YCL048W	3086	<sup>9</sup>	YDL018C	1864	<sup>43</sup>
YAL063C	2830	<sup>9</sup>	YBL099W	2663	<sup>15,42</sup>	YBR105C	2269	<sup>31,43</sup>	YBR212W	642	<sup>36</sup>	YCL050C	2913	<sup>23</sup>	YDL020C	1367	<sup>28,31</sup>
YAL067C	3629	<sup>42</sup>	YBL101C	2722	<sup>9</sup>	YBR106W	1857	<sup>7,8,26,42</sup>	YBR213W	2612	<sup>2,23,25</sup>	YCL051W	2441	<sup>9</sup>	YDL022W	3510	<sup>3,7</sup>
YAR002C-A	1334	<sup>43</sup>	YBL102W	1505	<sup>43</sup>	YBR107C	1607	<sup>5</sup>	YBR215W	1175	<sup>28</sup>	YCL052C	1575	<sup>33</sup>	YDL024C	3249	<sup>25</sup>
YAR002W	862	<sup>22</sup>	YBL103C	1943	<sup>3,7,28</sup>	YBR109C	289	<sup>6,10,21,43</sup>	YBR217W	120	<sup>31,33,43</sup>	YCL054W	465	<sup>10,36</sup>	YDL028C	351	<sup>21</sup>
YAR007C	115	<sup>12,13,39</sup>	YBL104C	2133	<sup>8</sup>	YBR110W	1827	<sup>33</sup>	YBR218C	3083	<sup>3</sup>	YCL055W	2768	<sup>17</sup>	YDL029W	625	<sup>6,8,22,43</sup>
YAR008W	83	<sup>36,37</sup>	YBL105C	2451	<sup>9,41</sup>	YBR111C	2773	<sup>3,7,17</sup>	YBR220C	3097	<sup>42</sup>	YCL057W	845	<sup>31</sup>	YDL030W	15	<sup>36,37</sup>
YAR015W	2857	<sup>23</sup>	YBL106C	1830	<sup>25,43</sup>	YBR112C	1587	<sup>28</sup>	YBR221C	2724	<sup>3,15</sup>	YCL064C	3569	<sup>2</sup>	YDL031W	495	<sup>36</sup>
YAR019C	539	<sup>21</sup>	YBR001C	2757	<sup>3,7</sup>	YBR114W	1162	<sup>10,12,17</sup>	YBR222C	1207	<sup>2,25</sup>	YCL066W	1789	<sup>17,28</sup>	YDL035C	3178	<sup>1,14,41</sup>
YAR035W	1972	<sup>16</sup>	YBR002C	1781	<sup>16,33</sup>	YBR115C	3329	<sup>2</sup>	YBR223C	1618	<sup>12</sup>	YCL067C	2764	<sup>17,28</sup>	YDL037C	3529	<sup>3</sup>
YAR044W	2374	<sup>16</sup>	YBR003W	2438	<sup>15,25</sup>	YBR117C	2998	<sup>2,3</sup>	YBR229C	459	<sup>9,32,33</sup>	YCL069W	3413	<sup>42</sup>	YDL040C	1261	<sup>10,17,33</sup>
YAR050W	3050	<sup>9</sup>	YBR008C	3446	<sup>42</sup>	YBR118W	2163	<sup>34</sup>	YBR233W	441	<sup>36</sup>	YCL073C	3401	<sup>42</sup>	YDL042C	1004	<sup>1,5,10,12,39</sup>
YAR071W	3600	<sup>26</sup>	YBR009C	1143	<sup>10</sup>	YBR119W	72	<sup>37</sup>	YBR234C	1633	<sup>6,8</sup>	YCR002C	685	<sup>6,11</sup>	YDL043C	13	<sup>36,37</sup>
YAR073W	2929	<sup>23</sup>	YBR010W	1120	<sup>10</sup>	YBR120C	2346	<sup>34</sup>	YBR235W	3362	<sup>42</sup>	YCR003W	2239	<sup>15,34</sup>	YDL044C	313	<sup>20,36</sup>
YAR075W	2963	<sup>23</sup>	YBR011C	3487	<sup>26</sup>	YBR121C	325	<sup>34,36</sup>	YBR236C	321	<sup>36</sup>	YCR005C	2899	<sup>15</sup>	YDL045C	2604	<sup>25</sup>
YBL001C	2633	<sup>9</sup>	YBR015C	839	<sup>9,33</sup>	YBR122C	1700	<sup>15,34</sup>	YBR237W	210	<sup>36,37</sup>	YCR008W	3409	<sup>7</sup>	YDL045W-A	1141	<sup>15,34</sup>
YBL002W	1134	<sup>7,10,28</sup>	YBR017C	669	<sup>7,14,15,17,22</sup>	YBR123C	340	<sup>29</sup>	YBR239C	1032	<sup>28</sup>	YCR009C	944	<sup>6,8,17,43</sup>	YDL047W	1093	<sup>5</sup>
YBL003C	1170	<sup>7,10</sup>	YBR018C	3437	<sup>3</sup>	YBR125C	1554	<sup>33</sup>	YBR240C	2398	<sup>25,28</sup>	YCR011C	2637	<sup>42</sup>	YDL048C	2546	<sup>28</sup>
YBL005W	1758	<sup>28</sup>	YBR019C	3425	<sup>3</sup>	YBR126C	2933	<sup>3,7</sup>	YBR241C	3553	<sup>42</sup>	YCR012W	2925	<sup>3</sup>	YDL049C	2560	<sup>9</sup>
YBL007C	1063	<sup>6,8</sup>	YBR020W	2756	<sup>3</sup>	YBR127C	3314	<sup>42</sup>	YBR242W	1018	<sup>5,41</sup>	YCR014C	269	<sup>12,13</sup>	YDL051W	393	<sup>36</sup>
YBL008W	1219	<sup>28</sup>	YBR021W	2859	<sup>23,42</sup>	YBR128C	915	<sup>31,43</sup>	YBR243C	1815	<sup>33</sup>	YCR019W	361	<sup>36</sup>	YDL052C	2517	<sup>16</sup>
YBL011W	2001	<sup>16,42</sup>	YBR022W	255	<sup>37</sup>	YBR129C	3054	<sup>17</sup>	YBR244W	3349	<sup>7</sup>	YCR020C	2741	<sup>25</sup>	YDL053C	991	<sup>31</sup>
YBL013W	1893	<sup>34</sup>	YBR023C	757	<sup>9,11,17</sup>	YBR130C	2533	<sup>17</sup>	YBR245C	1309	<sup>10</sup>	YCR020C-A	533	<sup>38</sup>	YDL055C	1609	<sup>9,33</sup>
YBL014C	122	<sup>27</sup>	YBR024W	3338	<sup>15</sup>	YBR131W	2816	<sup>7,18</sup>	YBR247C	1750	<sup>33</sup>	YCR021C	2081	<sup>7,24,32</sup>	YDL056W	176	<sup>5,13,28</sup>
YBL015W	2381	<sup>16</sup>	YBR026C	3128	<sup>15</sup>	YBR132C	1895	<sup>16,42</sup>	YBR248C	3228	<sup>2</sup>	YCR023C	2636	<sup>42</sup>	YDL058W	1955	<sup>43</sup>
YBL016W																	

(table D continued, 2/8)

YDL088C	151	15,22	YDL219W	1808	34	YDR108W	1319	18,43	YDR236C	2353	25	YDR375C	3076	15	YDR507C	1094	5,30
YDL090C	1448	17,33	YDL220C	1410	10	YDR110W	2582	1,39	YDR237W	1976	15,34	YDR376W	2901	15	YDR508C	2669	2,42
YDL092W	1643	35	YDL225W	1299	11	YDR111C	3095	2	YDR238C	1474	43	YDR377W	3135	15	YDR510W	1611	33
YDL093W	1666	33	YDL226C	1092	5,43	YDR113C	1023	5	YDR240C	245	36,37	YDR378C	93	36,37	YDR513W	3353	7
YDL095W	827	33	YDL227C	1639	1014,18	YDR115W	1260	15,34	YDR243C	292	36,37	YDR380W	3330	2	YDR515W	2701	25
YDL097C	720	31	YDL229W	2052	7,32,34	YDR116C	2460	15,34	YDR244W	1185	16,35	YDR381W	408	36	YDR516C	3552	3
YDL098C	239	36,37	YDL232W	1822	33	YDR118W	311	5,21,31	YDR245W	1777	9,33	YDR382W	935	34	YDR517W	710	21,41
YDL100C	1361	42	YDL234C	2131	43	YDR119W	3212	42	YDR246W	2325	43	YDR385W	2387	34	YDR518W	3294	7
YDL101C	1350	10,12	YDL235C	1378	41	YDR120C	380	36	YDR252W	1331	38	YDR386W	641	12	YDR519W	1851	32
YDL102W	150	12,13	YDL236W	3309	26	YDR121W	277	12,13	YDR253C	1794	2,38	YDR387C	3032	42	YDR522C	3459	14
YDL103C	2417	3,9	YDL240W	3366	17,18	YDR122W	1839	33	YDR254W	563	21	YDR388W	513	6,8,43	YDR523C	3466	18
YDL106C	2500	2,36,39	YDL243C	2629	25	YDR123C	569	16,21,28	YDR256C	2593	7,25	YDR389W	1603	8	YDR529C	1546	15,30,42
YDL107W	927	35	YDL244W	2829	23	YDR125C	3081	9	YDR258C	530	7,32,35	YDR390C	1409	33	YDR530C	2838	23
YDL108W	2	12,28,33	YDL245C	3418	42	YDR127W	3332	2	YDR259C	1946	17,28	YDR392W	861	17,28	YDR531W	2230	16,25
YDL111C	356	36,38	YDL246C	2930	3	YDR129C	1604	8	YDR260C	2970	18	YDR394W	303	31	YDR536W	3559	42
YDL112W	312	36	YDL247W	3358	42	YDR135C	3474	42	YDR261C	2597	9	YDR395W	825	22	YDR538W	2539	25
YDL116W	581	22	YDR001C	2991	3,7	YDR138W	333	10,22,36,39	YDR263C	2046	12	YDR397C	1793	28	YDR545W	1201	10
YDL117W	928	11	YDR002W	624	22	YDR139C	1265	5,33	YDR264C	2405	17,41	YDR399W	3003	23	YEL002C	843	33
YDL119C	3115	15,42	YDR004W	2505	12,39	YDR141C	1022	5	YDR265W	2056	16	YDR400W	2893	23	YEL003W	8,32	23
YDL120W	3161	15,42	YDR005C	822	22	YDR142C	1783	16,35	YDR268W	2283	34	YDR402C	3250	9	YEL004W	3307	42
YDL122W	1154	31	YDR006C	3060	41	YDR143C	1124	10	YDR270W	2672	42	YDR403W	3546	18	YEL006W	3103	42
YDL126C	956	5,31	YDR007W	3018	2	YDR145W	820	10,28	YDR272W	2787	3	YDR404C	819	28	YEL008W	3609	7
YDL127W	1284	5	YDR009W	2692	3,28	YDR146C	799	5,10,28	YDR276C	3151	42	YDR405W	2320	15,34	YEL009C	698	2,23,28
YDL128W	3203	42	YDR011W	3348	7,42	YDR147W	1733	16	YDR277C	1945	3,28,42	YDR406W	3615	42	YEL011W	3567	3
YDL130W	1220	34	YDR012W	2187	34	YDR148C	2892	3,15	YDR281W	332	36	YDR407C	1743	43	YEL012W	1610	31,33
YDL130W-A	3448	15	YDR017C	821	28,43	YDR150W	1542	6,11,18	YDR280C	3562	26	YDR408C	2944	23	YEL013W	646	23,35
YDL131W	3323	2	YDR018C	2042	16	YDR155C	2300	7,32	YDR283C	1396	2,34	YDR410C	1888	33	YEL017C-A	3419	7,42
YDL132W	79	2,5,31	YDR019C	3648	2	YDR156W	63	27	YDR284C	1967	16	YDR414C	1680	43	YEL019C	1403	12,39
YDL133C-A	2284	34	YDR021W	445	36	YDR158W	3570	2	YDR285W	2677	18,39	YDR416W	47	36,37	YEL020C	2499	15,16
YDL134C	1091	5,9	YDR023W	1836	34	YDR159W	353	8,21	YDR287W	2851	41	YDR418W	2432	34	YEL020W-A	823	35
YDL136W	2423	34	YDR025W	2220	34	YDR160W	2261	2,42	YDR291W	387	36	YDR419W	237	12,13	YEL021W	928	23
YDL137W	1470	43	YDR027C	1295	43	YDR162C	1349	10	YDR292C	434	35	YDR420W	2702	9	YEL022W	274	43
YDL138W	2509	3,42	YDR028C	2704	3,41	YDR164C	1267	43	YDR293C	706	5	YDR421W	1538	2,28	YEL024W	2260	15,42
YDL140C	959	28	YDR030C	2422	12	YDR166C	643	6,43	YDR294C	2079	16	YDR422C	2559	3	YEL026W	165	36,37
YDL141W	1578	16,33	YDR034C	2178	2,38	YDR167W	745	28	YDR296W	276	13,15,28	YDR423C	1959	7,28,42	YEL027W	3319	42
YDL142C	1916	15,16	YDR035W	3434	2	YDR168W	707	5	YDR297W	2051	16	YDR424C	1768	8	YEL030W	3053	9
YDL143W	457	8,32	YDR037W	2104	34	YDR169C	2291	28	YDR298C	3107	15,42	YDR427W	996	31	YEL031W	2599	9,42
YDL145C	1381	43	YDR038C	3356	42	YDR170C	1318	43	YDR299W	433	35	YDR429C	934	34	YEL032W	109	13
YDL147W	777	31	YDR039C	3382	42	YDR171W	2196	7,32	YDR300C	2955	2	YDR432W	561	22,36	YEL033W	3339	14
YDL149W	1469	43	YDR040C	3376	42	YDR172W	435	32,34,35	YDR301W	409	36	YDR435C	2015	33	YEL034W	1950	34
YDL150W	48	29	YDR041W	1687	15,34	YDR173C	739	2,17,18,28	YDR302W	1782	9,16,33	YDR436W	2703	7,41	YEL036C	1947	1,33
YDL153C	1109	10	YDR043C	2788	3,28	YDR174W	1169	10	YDR304C	1421	32,43	YDR439W	149	27	YEL037C	2265	12
YDL154W	2719	18,39	YDR044W	2866	25	YDR175C	1812	15,34	YDR305C	2882	23	YDR440W	1203	53,10,18	YEL039C	3471	15
YDL155W	1098	5	YDR045C	44	29	YDR176W	682	10,28	YDR308C	738	28	YDR441C	3007	20	YEL040W	2840	9
YDL159W	1709	9,14,17	YDR046C	3133	2,42	YDR177W	844	14,31,33	YDR309C	1095	6,17	YDR443C	990	28	YEL042W	1728	23,33
YDL160C	29	36	YDR047W	2823	25	YDR178W	3036	3,15	YDR310C	1106	10	YDR446W	2726	9	YEL046C	3185	2
YDL161W	1380	43	YDR050C	2675	3,15	YDR180W	1160	10	YDR311W	732	12,28	YDR447C	2414	34	YEL049C	2918	25
YDL164C	1	12,13,39	YDR052C	238	5,13	YDR181C	1454	10	YDR312W	3644	17	YDR448W	713	28	YEL050C	1560	15,34
YDL165W	886	5,28	YDR054C	790	31	YDR182W	244	6,7,12,17	YDR313C	1511	43	YDR450W	2459	34	YEL051W	2668	42
YDL166C	3111	7	YDR058C	2467	16	YDR183W	2623	17,41	YDR315C	691	16,22	YDR452W	3447	26	YEL052W	2012	37
YDL167C	437	36	YDR059C	1377	31	YDR184C	1720	6,7	YDR318W	1133	10	YDR453C	3306	7	YEL053C	2860	15,24
YDL168W	2734	3	YDR060W	1704	30,34	YDR188W	2119	8,32	YDR321W	2718	2,25	YDR454C	2915	23	YEL054C	2455	34
YDL170W	2679	2,28	YDR062W	1906	16	YDR189W	766	43	YDR322C-A	1097	15,35	YDR456W	3211	42	YEL055C	132	13
YDL171C	3223	2	YDR064W	2476	34	YDR190C	344	12,28,36	YDR322W	2282	15,34	YDR457W	983	5,31	YEL056W	1316	10,33
YDL174C	2733	3,15	YDR069C	1070	5,31,42	YDR191W	1393	10	YDR323C	926	43	YDR460W	716	12,28	YEL058W	1878	3,33
YDL179W	1011	5	YDR072C	2114	16	YDR192C	632	22	YDR325W	516	10,21	YDR461W	3160	17,41	YEL059C-A	1986	15,35
YDL181W	3467	15	YDR073W	874	10,28	YDR194C	280	36,37	YDR328C	81	2,5,10,31	YDR462W	2479	15,34	YEL060C	1375	31
YDL182W	3568	2	YDR074W	2934	3,7	YDR195W	175	36	YDR329C	3145	24	YDR463W	174	28,36,42	YEL061C	491	10,21
YDL184C	1711	34	YDR075W	1861	8	YDR197W	410	34,36	YDR330W	958	31	YDR464W	212	28,37	YEL062W	2667	42
YDL185W	3341	42	YDR076W	2421	12,39	YDR201W	291	21	YDR331W	1665	9,33	YDR468C	662	19,43	YEL063C	3132	2,42
YDL188C	1089	5,9	YDR077W	1993	8	YDR204W	2630	25	YDR332W	492	36	YDR471W	1734	34	YEL064C	3264	42
YDL190C	1096	31,33	YDR079W	1547	15,30	YDR205W	2969	42	YDR335W	620	3,5,7,17	YDR472W	954	43	YEL065W	3492	42
YDL191W	2241	34	YDR080W	955	43	YDR206W	893	10	YDR337W	2041	15,34	YDR473C	256	36,37	YEL066W	1348	10
YDL192W	901	43	YDR081C	2516	3	YDR207C	2730	18	YDR338C	2942	42	YDR477W	1923	3,7,16,41	YEL069C	2927	3,42
YDL194W	2690	3,42	YDR082W	1108	10	YDR208W	1657	8	YDR341C	2030	34	YDR478W	187	13,36	YER001W	1876	3,33
YDL195W	1468	43	YDR083W	412	36	YDR211W	1718	34	YDR342C	3589	3,42	YDR480W	3157	14	YER003C	1689	33
YDL197C	1308	10	YDR085C	3424	17	YDR212W	1529	8,32	YDR343C	3321	3,42	YDR481C	3551	26	YER005W	1674	33
YDL198C	3483	15,42	YDR086C	1002	35	YDR213W	2262	16,28	YDR345C	3035	3,42	YDR483W	1675	33	YER007W	1562	8,30
YDL199C	3494	3,42	YDR087C	411	36	YDR216W	1164	10,28	YDR347W	2188	15,34	YDR484W	1001	6,35,43	YER008C	670	6,43
YDL200C	1599	12	YDR088C	60	36,37	YDR217C	611	5,12,31	YDR349C	772	31	YDR487C	3017	25	YER009W	612	22
YDL202W	1514	15,34	YDR092W	1076	12,31,33	YDR218C	638	11	YDR351W	2632	9	YDR488C	1686	8	YER011W	2961	7,9
YDL205C	2809	25	YDR093W	3213	42	YDR224C	1107	7,10									

(table D continued, 3/8)

YER020W	3149	1,14,18,41	YER133W	200	3,6,7,18	YFL058W	2802	23	YGL068W	2340	15,34	YGL207W	818	5,10,28	YGR080W	1858	8
YER021W	849	31	YER136W	1466	43	YFL059W	2521	7,25	YGL070C	989	28	YGL208W	2845	3	YGR082W	432	35
YER022W	1944	28	YER139C	3304	7	YFL060C	2782	7,25	YGL071W	2024	42	YGL209W	2295	3,28	YGR083C	1519	34
YER023W	3085	2	YER141W	2236	15,30	YFL066C	1764	10	YGL073W	2011	7,28	YGL210W	920	43	YGR085C	2123	34
YER025W	1395	34	YER142C	1818	12	YFR002W	683	22	YGL075C	661	21	YGL212W	674	19	YGR086C	3556	7
YER026C	2323	16	YER143W	1509	43	YFR004W	787	31	YGL076C	2318	34	YGL213C	1769	38,39	YGR087C	2186	3,16
YER027C	2758	3	YER144C	789	31,33	YFR005C	405	36	YGL077C	3183	2,42	YGL216W	560	21	YGR088W	3646	7
YER029C	46	10,13,36,37	YER145C	3455	42	YFR009W	1257	2,34	YGL078C	477	34,36	YGL221C	1594	28,33	YGR091W	2705	36,37
YER031C	532	43	YER146W	92	36,37	YFR010W	848	31	YGL084C	1805	16	YGL222C	508	36	YGR092W	261	41
YER032W	45	36	YER147C	1168	10	YFR014C	2550	41	YGL086W	546	5,18,21	YGL225W	1681	33,42,43	YGR094W	2014	34
YER035W	596	36	YER148W	125	27,28,29	YFR015C	3550	3	YGL087C	889	12,31	YGL226C-A	828	33	YGR095C	402	36
YER039C	1859	42	YER149C	1859	8,17	YFR019W	727	9,21,25,43	YGL089C	2807	17	YGL229C	345	5	YGR096W	3621	42
YER040W	2713	2,14,25	YER150W	3091	9	YFR023W	346	13,36	YGL090W	1739	12	YGL233W	953	43	YGR097W	1787	28,41
YER041W	2420	12	YER151C	1673	33	YFR024C	2124	8	YGL092W	631	22	YGL234W	2957	23	YGR098C	203	21
YER042W	3305	7	YER153C	2171	15,34	YFR025C	3184	2	YGL093W	464	21	YGL236C	2370	7,15,34	YGR099W	1748	10
YER043C	3131	2	YER154W	3254	15	YFR027W	1310	10	YGL094C	476	36	YGL237C	1593	3,15,28	YGR100W	1307	43
YER044C	2110	16	YER155C	1296	6,8,9	YFR028C	703	5	YGL095C	880	19,43	YGL238W	267	21,22	YGR101W	3074	15
YER044C-A	2749	18,39	YER157W	1301	43	YFR029W	1596	28,42	YGL097W	171	22,36,38	YGL240W	290	5,21,31	YGR104C	1941	28
YER045C	1198	28	YER159C	1646	28	YFR030W	3656	2	YGL099W	1455	10	YGL241W	580	22	YGR105W	3262	42
YER047C	892	10	YER161C	1353	10	YFR031C	368	10,21	YGL100W	622	22	YGL243W	360	36	YGR108W	1287	5
YER048C	1924	32	YER162C	2577	12	YFR031C-A	2410	34	YGL103W	444	34,36	YGL244W	1176	28	YGR109C	1707	5
YER050C	2487	15,34	YER164W	1330	14,28	YFR032C	478	36	YGL104C	2664	42	YGL245W	404	34,36	YGR111W	2806	17
YER052C	3433	2	YER165W	32	34,36,38	YFR032C-A	2209	34	YGL105W	2287	34	YGL246C	403	36	YGR112W	3461	15
YER053C	3582	42	YER166W	3263	42	YFR033C	2666	15,42	YGL112C	719	28	YGL248W	2519	1,41	YGR113W	415	21
YER055C	3233	23	YER167W	705	5	YFR034C	3536	36	YGL114W	3436	32	YGL249W	2770	18,39	YGR116W	1040	10,28
YER056C	2964	23,42	YER168C	331	34,36	YFR036W	197	5,21,31	YGL115W	2311	4,41	YGL251C	507	36,39	YGR118W	1252	34
YER056C-A	1222	34	YER169W	2177	12,28	YFR037C	1197	10,28	YGL116W	230	17,21	YGL252C	2361	3	YGR119C	696	22
YER058W	2142	15,30	YER170W	3008	23	YFR038W	1278	10	YGL119W	1676	15,30	YGL253W	3026	1,4	YGR120C	531	43
YER060W	3422	42	YER171W	9	12,39	YFR040W	1189	5	YGL120C	182	36,37	YGL254W	969	25,28	YGR121C	3040	25,42
YER061C	1998	15,16	YER172C	145	36,37	YFR041C	2226	32	YGL122C	58	22,36	YGL255W	3638	42	YGR124W	3195	2
YER062C	3001	3,7	YER173W	1062	5,12	YFR045W	3317	42	YGL123W	2069	34	YGL256W	3139	3	YGR125W	3102	42
YER064C	3527	42	YER174C	3293	7	YFR047C	2606	2,25	YGL125W	3519	2	YGR003W	2012	15,33	YGR129W	2051	36,37
YER065C	2827	3	YER176W	1835	9,34	YFR049W	2070	15,34	YGL126W	1804	16	YGR005C	975	28	YGR132C	1068	1,31
YER068W	737	17,28,41	YER177W	2854	14,41	YFR050C	195	31	YGL129C	1821	15,34	YGR006W	206	36,37	YGR133W	1796	16,31,33
YER069W	3606	2	YER178W	2903	3	YFR051C	1507	43	YGL130W	330	36	YGR007W	1965	16	YGR135W	940	33
YER070W	2974	23	YER179W	1647	12,18,39	YFR052W	786	31	YGL131C	2194	28	YGR008C	3456	9,15	YGR136W	1602	8
YER072W	2366	30	YER180C	2924	18	YFR053C	3586	3	YGL133W	1158	10,18	YGR009C	653	43	YGR138C	3616	42
YER073W	2359	2,15,16	YER183C	2870	2,23	YFR055W	3540	2	YGL134W	2515	3	YGR010W	2890	25	YGR140W	490	5,10,21
YER074W	2478	34	YER184C	2812	28	YGL001C	1732	16	YGL135W	1255	34	YGR012W	2556	2,25	YGR142W	3500	34
YER075C	2395	7,41	YER190W	1145	10	YGL002W	1420	43	YGL137C	922	43	YGR013W	164	36,37	YGR143W	2586	9
YER077C	2159	34	YFL001W	407	34,36	YGL003C	681	5,31	YGL142C	1849	9,16,33	YGR014W	1333	6	YGR144W	1522	12,28
YER078C	1069	31	YFL002C	406	34,36	YGL006W	3355	42	YGL143C	1572	34	YGR019W	2742	2,25	YGR147C	1577	33
YER081W	3521	2	YFL003C	2808	18,39	YGL008C	1208	25,42	YGL145W	1506	43	YGR020C	2259	42	YGR148C	2457	34
YER082C	1465	28	YFL004W	2365	26,30	YGL009C	3196	2	YGL147C	2270	34	YGR021W	2138	34	YGR152C	1832	41
YER083C	2587	9	YFL005W	1508	43	YGL011C	1137	31	YGL148W	3308	2	YGR023W	2775	9,41	YGR155W	3048	2
YER086W	1422	33	YFL008W	486	10,21	YGL012W	2498	16	YGL150C	640	12	YGR027C	2413	34	YGR157W	2324	2,16
YER087C-A	5340	35	YFL009W	1126	5,33	YGL013C	1645	28,42	YGL151W	1329	28	YGR028W	1079	35	YGR158C	57	36
YER087W	2071	34	YFL011W	3591	3,42	YGL014W	1524	1,10	YGL153W	1048	16,35	YGR029W	1061	5,15	YGR159C	506	36
YER088C	1616	10	YFL011W-A	2620	41,42	YGL016W	850	22	YGL154C	3165	2	YGR030C	179	13,36	YGR162W	933	34
YER089C	2753	41	YFL014W	2035	7,32	YGL017W	2302	31	YGL155W	1638	33	YGR032W	2580	3,9	YGR163W	579	22
YER090W	3432	2	YFL016C	609	31,32	YGL018C	1528	28	YGL156W	3581	3	YGR034W	2219	34	YGR165W	3217	15
YER091C	3346	2	YFL017C	558	5,9	YGL019W	96	24,29	YGL157W	3291	7	YGR036C	1915	9,33	YGR166W	1840	3,9,43
YER094C	1206	31	YFL017W-A	226	10,13,36,37	YGL021W	2099	12	YGL162W	2534	16,42	YGR037C	1908	16	YGR167W	1846	43
YER095W	1762	12,39	YFL018C	2988	2,15	YGL022W	841	33	YGL163C	2547	12,18,39	YGR040W	2201	17,41	YGR170W	1922	16
YER096W	3458	9,14	YFL021W	2502	3,25,28	YGL025C	1595	12,28	YGL166W	744	7,28	YGR041W	1848	6	YGR171C	1983	14,15,34
YER098W	2619	31	YFL022C	2350	34	YGL026C	3431	2	YGL167C	1727	33,42,43	YGR042W	2518	41	YGR172C	652	43
YER099C	2712	2,23	YFL024C	1159	10,28	YGL027C	2531	9	YGL170C	3000	3	YGR043C	3268	7,41	YGR174C	1153	15,30
YER100W	610	31,33	YFL025C	1765	43	YGL028C	2839	9	YGL171W	555	36	YGR044C	2342	18,28	YGR175C	2168	16
YER101C	1510	43	YFL026W	3579	17,41	YGL029W	1338	10	YGL172W	578	22	YGR045C	3129	15	YGR177C	2822	25
YER102W	1259	34	YFL029C	1009	17,18	YGL030W	252	34,37,38	YGL173C	386	18,36,38	YGR047C	127	29	YGR178C	378	36
YER103W	723	7,32,35	YFL031W	1372	7,31	YGL031C	2458	34	YGL175C	2021	12,18	YGR048W	451	31	YGR179C	1402	10
YER105C	637	22	YFL033C	2714	7,18	YGL032C	2774	4,17	YGL178W	1352	1,10	YGR049W	1008	5	YGR180C	2842	23
YER107C	657	22	YFL034C-A	2191	34	YGL033W	3364	18	YGL180W	1371	18,31,43	YGR054W	1557	33,41	YGR181W	999	35
YER108C	3126	14	YFL035C	704	5	YGL035C	1196	3,28	YGL181W	988	7,9,28	YGR055W	3164	2,42	YGR183C	2661	15,42
YER109C	3125	14	YFL035C-A	1928	5	YGL037C	2781	7,25	YGL184C	3605	2	YGR056W	1434	7,10,14,15	YGR184C	994	31,42
YER110C	851	22	YFL036W	3033	15,20	YGL038C	1891	33	YGL186C	2887	23,42	YGR057C	1358	5,7,15,43	YGR185C	2339	34
YER111C	1597	38	YFL037W	268	21	YGL039W	3292	7	YGL187C	2662	15,42	YGR059W	590	11,14	YGR186W	1328	38
YER112W	24	36,37	YFL038C	654	43	YGL040C	2538	15,25	YGL189C	1254	34	YGR060W	1629	16	YGR188C	1629	5
YER114C	1860	8	YFL039C	493	6,8,10,17,28,43	YGL043W	873	28,39	YGL190C	310	8,21	YGR061C	3010	23	YGR189C	3090	9
YER117W	2475	34	YFL040W	3222	3,42	YGL044C	59	36	YGL191W	3202	15,42	YGR062C	3075	15	YGR191W	3242	2
YER118C	2621	41	YFL041W	3415	42	YGL048C	608	31	YGL192W	1041	18,28	YGR063C	1424	10,28	YGR192C	3566	3
YER119C	3524	42	YFL045C	1672	3,33	YGL049C	1256	34	YGL194C	3399	18	YGR065C	2190	16,23,42			

(table D continued, 4/8)

YGR207C	3109	<sup>15</sup>	YHR001W	1985	<sup>16</sup>	YHR117W	1140	<sup>35</sup>	YIL035C	69	<sup>29</sup>	YIL173W	1497	<sup>43</sup>	YJL087C	241	<sup>36,37</sup>
YGR208W	3047	<sup>2</sup>	YHR001W-A	3134	<sup>15,42</sup>	YHR118C	38	<sup>13</sup>	YIL036W	1452	<sup>10,39</sup>	YIL177C	1180	<sup>10</sup>	YJL088W	3072	<sup>2,25</sup>
YGR209C	1875	<sup>2,3,7,19</sup>	YHR002W	3100	<sup>42</sup>	YHR119W	817	<sup>10,28</sup>	YIL038C	1195	<sup>28</sup>	YIR001C	384	<sup>15,36</sup>	YJL089W	3078	<sup>28</sup>
YGR214W	1774	<sup>34</sup>	YHR005C	2752	<sup>17,41</sup>	YHR120W	2508	<sup>12</sup>	YIL043C	3116	<sup>15</sup>	YIR002C	327	<sup>36</sup>	YJL090C	36	<sup>5,10,13</sup>
YGR215W	2158	<sup>34</sup>	YHR005C-A	1165	<sup>35</sup>	YHR123W	2008	<sup>16</sup>	YIL046W	80	<sup>2,25,31</sup>	YIR004W	1920	<sup>7,16</sup>	YJL092W	2020	<sup>12,39</sup>
YGR216C	1017	<sup>9,11,16,33</sup>	YHR006W	329	<sup>28,36</sup>	YHR124W	3542	<sup>18</sup>	YIL047C	2657	<sup>42</sup>	YIR005W	91	<sup>3,3,7,36</sup>	YJL093C	3099	<sup>42</sup>
YGR217W	3101	<sup>42</sup>	YHR007C	2416	<sup>16</sup>	YHR126C	2589	<sup>9</sup>	YIL048W	3059	<sup>42</sup>	YIR006C	765	<sup>6,8,43</sup>	YJL094C	1800	<sup>3,7,33,42</sup>
YGR218W	724	<sup>22</sup>	YHR008C	3625	<sup>7</sup>	YHR128W	2971	<sup>23</sup>	YIL049W	879	<sup>6,14</sup>	YIR008C	8	<sup>12,13</sup>	YJL095W	2450	<sup>7,9,41</sup>
YGR220C	1982	<sup>15,34</sup>	YHR010W	1834	<sup>34</sup>	YHR129C	339	<sup>21</sup>	YIL051C	3146	<sup>15</sup>	YIR009W	12	<sup>7,15,36,37</sup>	YJL096W	1735	<sup>5,7,15,34</sup>
YGR222W	616	<sup>15,34,36</sup>	YHR011W	2135	<sup>15,34</sup>	YHR132C	2363	<sup>9</sup>	YIL052C	1246	<sup>34</sup>	YIR011C	229	<sup>21,31,43</sup>	YJL098W	1696	<sup>5</sup>
YGR224W	3445	<sup>42</sup>	YHR012W	1275	<sup>43</sup>	YHR135C	793	<sup>6,11,41,42</sup>	YIL053W	3175	<sup>3</sup>	YIR012W	1244	<sup>34</sup>	YJL099W	2631	<sup>9</sup>
YGR225W	3363	<sup>14,18</sup>	YHR013C	1423	<sup>10,17,33</sup>	YHR136C	3573	<sup>26,41</sup>	YIL061C	11	<sup>36,37</sup>	YIR013C	2732	<sup>28</sup>	YJL100W	2160	<sup>8</sup>
YGR227W	1803	<sup>33</sup>	YHR014W	1814	<sup>10,14,18</sup>	YHR137W	3176	<sup>2,25</sup>	YIL062C	1601	<sup>6,8</sup>	YIR015W	677	<sup>36</sup>	YJL101C	2495	<sup>7,25</sup>
YGR229C	2585	<sup>9</sup>	YHR015W	753	<sup>22</sup>	YHR138C	2087	<sup>19</sup>	YIL063C	629	<sup>22</sup>	YIR017C	1591	<sup>2,25,28</sup>	YJL102W	1854	<sup>34</sup>
YGR231C	942	<sup>1,31</sup>	YHR016C	1149	<sup>8</sup>	YHR141C	2332	<sup>34</sup>	YIL065C	1271	<sup>8</sup>	YIR018W	1590	<sup>28</sup>	YJL103C	2573	<sup>28</sup>
YGR233C	3505	<sup>26</sup>	YHR018C	3154	<sup>2,25</sup>	YHR142W	1430	<sup>35</sup>	YIL066C	2717	<sup>23</sup>	YIR019C	3535	<sup>9,14</sup>	YJL106W	3548	<sup>18</sup>
YGR238C	2263	<sup>6,17</sup>	YHR019C	2333	<sup>34</sup>	YHR143W-A	39	<sup>27,28,29</sup>	YIL068C	918	<sup>43</sup>	YIR021W	214	<sup>37</sup>	YJL110C	871	<sup>25,28</sup>
YGR239C	431	<sup>35</sup>	YHR020W	2276	<sup>34</sup>	YHR144C	2908	<sup>23</sup>	YIL069C	2102	<sup>34</sup>	YIR022W	1801	<sup>33</sup>	YJL111W	1685	<sup>8,32</sup>
YGR240C	2699	<sup>3</sup>	YHR021C	2485	<sup>34</sup>	YHR147C	2490	<sup>15,34</sup>	YIL070C	3307	<sup>15</sup>	YIR023W	816	<sup>25,28</sup>	YJL112W	1656	<sup>8,24</sup>
YGR241C	1503	<sup>43</sup>	YHR021W-A	2574	<sup>9</sup>	YHR148W	399	<sup>36</sup>	YIL072W	2572	<sup>18,39</sup>	YIR024C	1628	<sup>5</sup>	YJL115W	284	<sup>10,11,13</sup>
YGR244C	3215	<sup>15</sup>	YHR023W	673	<sup>8,11</sup>	YHR152W	2729	<sup>14,18</sup>	YIL073C	3528	<sup>18</sup>	YIR027C	2852	<sup>23,25</sup>	YJL116C	678	<sup>1,36</sup>
YGR245C	1177	<sup>5,8</sup>	YHR024C	1532	<sup>33</sup>	YHR153C	3274	<sup>34</sup>	YIL074C	2708	<sup>2</sup>	YIR028W	2943	<sup>23,42</sup>	YJL117W	2656	<sup>26,42</sup>
YGR246C	94	<sup>29</sup>	YHR025W	3400	<sup>2</sup>	YHR154W	1337	<sup>10</sup>	YIL075C	258	<sup>7,23,31,37</sup>	YIR029W	2975	<sup>23</sup>	YJL121C	3025	<sup>3,7</sup>
YGR247W	188	<sup>37</sup>	YHR026W	3209	<sup>42</sup>	YHR157W	2676	<sup>18,39</sup>	YIL076W	2026	<sup>43</sup>	YIR030C	2721	<sup>9</sup>	YJL124C	90	<sup>36,38</sup>
YGR248W	3584	<sup>3</sup>	YHR027C	1067	<sup>31</sup>	YHR158C	1569	<sup>6,17</sup>	YIL078W	1833	<sup>34</sup>	YIR031C	2849	<sup>25</sup>	YJL125C	552	<sup>2,28,36</sup>
YGR250C	401	<sup>36</sup>	YHR028C	1157	<sup>31</sup>	YHR160C	430	<sup>35</sup>	YIL079C	1838	<sup>33</sup>	YIR032C	2917	<sup>25</sup>	YJL127C	1326	<sup>28</sup>
YGR252W	872	<sup>10,28,33</sup>	YHR030C	2148	<sup>7,9,41</sup>	YHR161C	1756	<sup>43</sup>	YIL084C	1411	<sup>10,14</sup>	YIR033W	489	<sup>2,28</sup>	YJL128C	1831	<sup>7,41</sup>
YGR253C	877	<sup>31</sup>	YHR031C	160	<sup>13,39</sup>	YHR163W	398	<sup>3,36</sup>	YIL085C	1429	<sup>33</sup>	YIR034C	3655	<sup>10</sup>	YJL129C	3468	<sup>42</sup>
YGR254W	3477	<sup>3,15</sup>	YHR032W	2660	<sup>42</sup>	YHR164C	159	<sup>10,12,13</sup>	YIL088C	3343	<sup>42</sup>	YIR037W	3608	<sup>7</sup>	YJL130C	3013	<sup>23</sup>
YGR255C	3104	<sup>15</sup>	YHR037W	3084	<sup>2</sup>	YHR165C	121	<sup>36,37</sup>	YIL093C	1981	<sup>15,34</sup>	YIR038C	3595	<sup>7</sup>	YJL131C	3143	<sup>15</sup>
YGR256W	3067	<sup>3</sup>	YHR038W	1250	<sup>15,34</sup>	YHR166C	219	<sup>5,21,31</sup>	YIL094C	3194	<sup>2</sup>	YIR039C	785	<sup>31</sup>	YJL133W	213	<sup>37,42</sup>
YGR257C	3473	<sup>42</sup>	YHR039C-B	2966	<sup>42</sup>	YHR169W	535	<sup>36</sup>	YIL095W	1025	<sup>6,8</sup>	YJL001W	604	<sup>31</sup>	YJL134W	1919	<sup>7,16</sup>
YGR258C	802	<sup>12</sup>	YHR041C	967	<sup>28</sup>	YHR170W	512	<sup>34,38</sup>	YIL098C	1620	<sup>15,30</sup>	YJL002C	838	<sup>33</sup>	YJL136C	2137	<sup>34</sup>
YGR260W	3390	<sup>42</sup>	YHR042W	2237	<sup>16</sup>	YHR171W	194	<sup>14,31,35</sup>	YIL099W	3501	<sup>14</sup>	YJL004C	1282	<sup>17,35</sup>	YJL137C	2739	<sup>3</sup>
YGR261C	919	<sup>43</sup>	YHR043C	3034	<sup>3</sup>	YHR172W	391	<sup>8,21,30</sup>	YIL101C	3499	<sup>7,18</sup>	YJL005W	600	<sup>1,23,41</sup>	YJL138C	443	<sup>34,36</sup>
YGR264C	2214	<sup>34</sup>	YHR044C	2950	<sup>3</sup>	YHR174W	3042	<sup>3</sup>	YIL106W	485	<sup>21</sup>	YJL006C	1073	<sup>28</sup>	YJL139C	1887	<sup>33</sup>
YGR267C	2776	<sup>25</sup>	YHR046C	2601	<sup>25,41</sup>	YHR175W	3083	<sup>42</sup>	YIL107C	3365	<sup>3</sup>	YJL008C	1992	<sup>8,32</sup>	YJL140W	1036	<sup>7,28</sup>
YGR271W	385	<sup>36</sup>	YHR047C	2199	<sup>31</sup>	YHR178W	1037	<sup>28</sup>	YIL109C	1760	<sup>43</sup>	YJL011C	123	<sup>29</sup>	YJL141C	1631	<sup>5,7</sup>
YGR274C	968	<sup>28</sup>	YHR048W	3596	<sup>42</sup>	YHR179W	2109	<sup>16</sup>	YIL111W	3449	<sup>15,42</sup>	YJL012C	2997	<sup>26,30</sup>	YJL143W	427	<sup>35</sup>
YGR276C	400	<sup>36</sup>	YHR050W	3261	<sup>42</sup>	YHR183W	2886	<sup>3</sup>	YIL114C	3397	<sup>42</sup>	YJL013C	798	<sup>5</sup>	YJL145W	1817	<sup>16,43</sup>
YGR279C	3052	<sup>9</sup>	YHR051W	3144	<sup>15,42</sup>	YHR184W	2746	<sup>18</sup>	YIL115C	752	<sup>22</sup>	YJL014W	461	<sup>8,32</sup>	YJL146W	2923	<sup>18</sup>
YGR281W	3503	<sup>7,42</sup>	YHR053C	2810	<sup>7,25</sup>	YHR188C	2725	<sup>3,15</sup>	YIL116W	3518	<sup>2</sup>	YJL023C	2402	<sup>34</sup>	YJL148W	209	<sup>27</sup>
YGR282C	2682	<sup>9</sup>	YHR055C	3049	<sup>7,25</sup>	YHR190W	1745	<sup>16</sup>	YIL118W	1498	<sup>6,41,43</sup>	YJL024C	1807	<sup>43</sup>	YJL153C	1865	<sup>16,25</sup>
YGR284C	2080	<sup>43</sup>	YHR057C	952	<sup>7,32,43</sup>	YHR193C	987	<sup>32,34</sup>	YIL119C	3526	<sup>41</sup>	YJL025W	148	<sup>27</sup>	YJL154C	1276	<sup>43</sup>
YGR285C	554	<sup>32,36</sup>	YHR058C	1039	<sup>28</sup>	YHR195W	323	<sup>36</sup>	YIL120W	3632	<sup>42</sup>	YJL026W	2716	<sup>23</sup>	YJL155C	2948	<sup>3</sup>
YGR286C	2821	<sup>25</sup>	YHR060W	570	<sup>30,42</sup>	YHR200W	939	<sup>31</sup>	YIL121W	3354	<sup>42</sup>	YJL029C	1742	<sup>43</sup>	YJL156C	3020	<sup>2,42</sup>
YGR287C	2617	<sup>3</sup>	YHR061C	1167	<sup>6,17</sup>	YHR201C	3280	<sup>26</sup>	YIL122W	2831	<sup>9,17</sup>	YJL030W	208	<sup>5,18,21</sup>	YJL157C	1425	<sup>5,17</sup>
YGR288W	3043	<sup>3</sup>	YHR062C	537	<sup>36</sup>	YHR203C	2250	<sup>34</sup>	YIL123W	2096	<sup>1,5</sup>	YJL031C	1837	<sup>33</sup>	YJL158C	3027	<sup>9</sup>
YGR289C	3148	<sup>3,42</sup>	YHR064C	3245	<sup>7</sup>	YHR204W	1449	<sup>33</sup>	YIL124W	2389	<sup>16</sup>	YJL033W	567	<sup>36</sup>	YJL159W	2449	<sup>7,9</sup>
YGR292W	3391	<sup>3</sup>	YHR065C	328	<sup>36</sup>	YHR205W	1329	<sup>41</sup>	YIL125W	2949	<sup>3</sup>	YJL034W	460	<sup>32,35</sup>	YJL164C	3478	<sup>1,41</sup>
YGR296W	1288	<sup>10</sup>	YHR066W	2792	<sup>17</sup>	YHR206W	3177	<sup>7,9,14,28</sup>	YIL126W	1060	<sup>5,10</sup>	YJL035C	397	<sup>36</sup>	YJL165C	2530	<sup>7,9</sup>
YHL001W	2213	<sup>34</sup>	YHR068W	1249	<sup>33,34</sup>	YHR207C	1046	<sup>28</sup>	YIL128W	809	<sup>2,12,28</sup>	YJL036W	899	<sup>31,43</sup>	YJL166W	3142	<sup>15,42</sup>
YHL003C	2205	<sup>1,43</sup>	YHR069C	359	<sup>36</sup>	YHR208W	3230	<sup>2</sup>	YIL130W	1940	<sup>28</sup>	YJL039C	882	<sup>23</sup>	YJL167W	2007	<sup>16</sup>
YHL004W	1251	<sup>15,34</sup>	YHR071W	2207	<sup>5</sup>	YHR211W	2939	<sup>9,24</sup>	YIL131C	1357	<sup>5,6,10</sup>	YJL041W	656	<sup>22</sup>	YJL168C	1325	<sup>3,28</sup>
YHL007C	1083	<sup>6,9,14,17,41</sup>	YHR072W	1921	<sup>16</sup>	YHR215W	3610	<sup>26</sup>	YIL133C	1245	<sup>34</sup>	YJL042W	545	<sup>21</sup>	YJL170C	3650	<sup>17</sup>
YHL008C	3316	<sup>42</sup>	YHR075C	1248	<sup>15,34</sup>	YHR216W	3006	<sup>23</sup>	YIL134W	3114	<sup>15,42</sup>	YJL044C	1007	<sup>5</sup>	YJL172W	2543	<sup>25,31</sup>
YHL009C	1464	<sup>28</sup>	YHR077C	565	<sup>34,38</sup>	YHR218W	1819	<sup>10</sup>	YIL138C	1608	<sup>6,8</sup>	YJL045W	3484	<sup>3,15</sup>	YJL173C	158	<sup>15,13,39</sup>
YHL010C	775	<sup>22</sup>	YHR079C	606	<sup>7,25,31,32,41</sup>	YHR219W	1110	<sup>10</sup>	YIL139C	113	<sup>13</sup>	YJL047C	1659	<sup>33</sup>	YJL174W	2529	<sup>9</sup>
YHL011C	2895	<sup>2,23</sup>	YHR079C-B	3113	<sup>18</sup>	YIL002C	1360	<sup>43</sup>	YIL140W	1679	<sup>6</sup>	YJL050W	553	<sup>22,36</sup>	YJL176C	974	<sup>10,28</sup>
YHL015W	2251	<sup>34</sup>	YHR084W	966	<sup>14,17,28,41</sup>	YIL004C	695	<sup>19,43</sup>	YIL142W	1527	<sup>8,32</sup>	YJL052W	3041	<sup>3,7</sup>	YJL177W	2430	<sup>34</sup>
YHL016C	2820	<sup>25,42</sup>	YHR086W	144	<sup>18,36,37</sup>	YIL005W	1081	<sup>32</sup>	YIL143C	1463	<sup>12,28</sup>	YJL053W	1615	<sup>43</sup>	YJL179W	1901	<sup>8,32</sup>
YHL019C	1502	<sup>43</sup>	YHR089C	536	<sup>36</sup>	YIL006W	3344	<sup>42</sup>	YIL144W	247	<sup>21</sup>	YJL054W	428	<sup>35</sup>	YJL180C	3158	<sup>15</sup>
YHL020C	2009	<sup>16</sup> </															



(table D continued, 5/8)

YJL214W	3580	3,42	YJR123W	2054	34	YKL089W	511	21	YKL210W	1623	31,33	YLL015W	2304	42	YLR096W	1553	33
YJL219W	3137	3,42	YJR124C	3315	42	YKL091C	1785	16,43	YKL211C	3193	2	YLL016W	2953	41	YLR098C	2710	2,7,17
YJL221C	3024	3	YJR127C	1938	28	YKL092C	1567	6	YKL212W	2653	42	YLL017W	2909	41	YLR099C	3351	7
YJL222W	2140	43	YJR131W	1873	32,33	YKL096W	3645	9	YKL213C	941	31	YLL018C	1994	34	YLR100W	1856	16
YJL225C	1184	10	YJR132W	584	5,7,22,41	YKL097W-A	3392	9	YKL215C	3199	2	YLL018C-A	1994	15	YLR102C	2925	5,21,31
YJR001W	3384	42	YJR133W	2907	23	YKL101W	1467	5,33	YKL216W	2858	23	YLL021W	878	6,14	YLR103C	108	10,13
YJR002W	377	36	YJR134C	2691	3	YKL103C	450	31	YKL217W	3545	42	YLL022C	1872	33	YLR105C	87	36,37
YJR004C	2805	4,17	YJR135C	1105	10	YKL104C	2575	3,9	YKL218C	3631	2	YLL024C	529	32,35	YLR107W	324	36
YJR005W	1496	43	YJR137C	3496	9	YKL106W	2880	2	YKL220C	3216	25,42	YLL026W	2256	7,32	YLR109W	3636	7
YJR006W	156	13	YJR138W	1355	5	YKL108W	236	13	YKL221W	3587	42	YLL027W	2258	15,42	YLR110C	3189	9
YJR007W	1980	34	YJR139C	2881	2,15	YKL109W	2867	15,28	YKL222C	1461	28	YLL028W	2651	42	YLR113W	2790	7,41
YJR009C	2999	3	YJR140C	718	3,7,28	YKL110C	3506	7	YKR001C	914	35,43	YLL031C	1752	9,16,33	YLR115W	364	36
YJR010C-A	1641	33	YJR143C	837	9,33	YKL112W	177	13,27,28	YKR002W	88	36	YLL034C	2049	32	YLR116W	16	36,37
YJR010W	3167	2,25	YJR144W	856	5,7,12,15	YKL113C	154	12,13	YKR003W	2092	16	YLL036C	228	12,36,37	YLR117C	56	36,37
YJR016C	3430	2	YJR145C	2249	34	YKL114C	2044	12	YKR004C	2462	9	YLL040C	1877	19,43	YLR119W	680	22
YJR017C	613	5,28,36	YJR147W	3296	14	YKL117W	2162	32	YKR006C	1240	15,34	YLL041C	3265	3	YLR120C	1365	31
YJR019C	2152	16	YJR148W	3429	2	YKL119C	986	32	YKR008W	1161	10	YLL042C	1622	31,33	YLR121C	1370	31
YJR021C	2625	18,39	YJR150C	3602	7,9	YKL120W	3532	42	YKR009C	2440	16	YLL043W	2749	17,42	YLR123C	1844	34
YJR022W	10	36,37	YJR151C	3438	9	YKL122C	824	35	YKR010C	271	13	YLL045C	2248	34	YLR127C	193	21,31,33
YJR024C	2616	3	YJR152W	2972	23,42	YKL125W	135	27	YKR014C	1493	43	YLL046C	472	36	YLR130C	2649	42
YJR025C	3652	2	YJR153W	3188	3	YKL126W	2910	41	YKR016W	3141	15	YLL048C	3395	42	YLR131C	1936	28
YJR031C	916	43	YJR155W	2819	25	YKL127W	1779	3,33	YKR019C	1441	10	YLL050C	764	6,8,43	YLR133W	2039	16
YJR032W	1850	32	YJR156C	2777	23	YKL129C	2373	6,7,9,43	YKR024C	474	36	YLL052C	3462	42	YLR134W	2996	3
YJR034W	2987	15	YJR158W	2947	3,42	YKL130C	1283	6,14	YKR025W	43	29	YLL053C	2650	42	YLR136C	2945	28
YJR035W	2074	12,28	YJR159W	2977	3	YKL132C	2818	17,25	YKR026C	895	34	YLL054C	1896	28	YLR138W	3058	34
YJR036C	2093	31	YJR160C	3403	42	YKL134C	1085	5,7,15,31	YKR028W	1521	5	YLL055W	3576	42	YLR139C	3278	15
YJR040W	3031	42	YKL001C	2814	2,7,23,25	YKL135C	650	5,7,43	YKR031C	1984	14,16,18	YLL060C	3594	7	YLR141W	82	27
YJR042W	675	22	YKL002W	1291	43	YKL137W	1749	5,7,8,15	YKR034W	1937	25,28	YLL061W	3426	2,42	YLR142W	2326	2
YJR043C	35	13	YKL003C	2347	15,34	YKL138C	2338	15,34	YKR035W-A	1775	43	YLL066C	1214	10	YLR144C	1991	8
YJR045C	1389	32,35	YKL004W	2173	16	YKL139W	702	5,28	YKR037C	792	11	YLL067C	1559	10	YLR146C	2537	25
YJR046W	3336	14	YKL006C-A	1473	43	YKL140W	1962	16	YKR039W	3192	2,42	YLR004C	3380	42	YLR147C	19	10,13,36,37
YJR047C	2084	34	YKL006W	2317	34	YKL141W	3065	3,15	YKR042W	3408	1	YLR005W	972	12,38,34	YLR148W	2357	43
YJR048W	3252	15	YKL007W	1270	8	YKL142W	896	34	YKR046C	3369	15	YLR006C	2600	7,41	YLR151C	2000	16
YJR049C	2592	25	YKL008C	1495	43	YKL143W	3412	7	YKR048C	891	6,10	YLR009W	2456	34	YLR153C	2011	3
YJR050W	250	36,37	YKL009W	726	38	YKL144C	52	29	YKR050W	3490	42	YLR013W	2562	28	YLR155C	2847	1,2,25
YJR051W	2610	3,7	YKL010C	993	31,33	YKL145W	730	31	YKR052C	260	37,42	YLR014C	2958	23	YLR157C	2818	2,25
YJR052W	2045	12	YKL011C	2571	39	YKL146W	3396	42	YKR053C	2492	7,16	YLR017W	1792	3,28	YLR158C	2847	2,25
YJR053W	2025	5,6,17	YKL012W	142	36,37	YKL148C	3335	3,15	YKR054C	633	21	YLR018C	664	22	YLR160C	3229	2
YJR055W	1044	31	YKL013C	1269	6,8	YKL149C	217	36,37	YKR055W	1438	6	YLR019W	3290	7	YLR163C	1883	33
YJR057W	102	5,13,23	YKL015W	2711	2	YKL150W	3398	15	YKR056W	550	12,36,39	YLR020C	1658	16	YLR164W	3172	15
YJR058C	1663	43	YKL016C	3177	15	YKL152C	2835	3,15	YKR057W	1721	34	YLR024C	1204	31,33	YLR165C	383	36
YJR059W	3539	42	YKL017C	155	13	YKL154W	1065	35	YKR058W	2826	3	YLR025W	763	3,43	YLR166C	1491	6,43
YJR060W	1194	2,10,28	YKL019W	1771	17,33	YKL155C	1242	15,34	YKR059W	455	34,36	YLR026C	589	19,43	YLR167W	1237	34
YJR062C	771	31	YKL020C	973	10,28	YKL156W	2401	34	YKR061W	1829	9,33	YLR027C	3513	2	YLR170C	913	43
YJR063W	67	27	YKL021C	635	38	YKL157W	847	2,31	YKR062W	815	28	YLR028C	2906	23	YLR172C	1512	25,33
YJR064W	1692	8,32	YKL022C	128	5,21,31	YKL163W	3488	9	YKR063C	1899	8	YLR029C	2269	34	YLR174W	3136	3,15
YJR065C	651	6,43	YKL024C	3002	23	YKL164C	3079	7,9	YKR064W	1034	28	YLR032W	2184	12	YLR175W	363	36
YJR066W	982	31,34,41	YKL025C	326	36	YKL165C	1705	6,9,16,33	YKR066C	3285	7	YLR034C	3444	42	YLR176C	2327	12,28
YJR068W	337	13	YKL026C	3607	7	YKL166C	1059	1,5,7,14	YKR068C	951	43	YLR035C	2576	12	YLR178C	449	5,31
YJR069C	2853	23	YKL028W	1462	28	YKL167C	2040	15,34	YKR069W	2914	2,23,25	YLR038C	3124	15,42	YLR179C	2002	16
YJR073C	2128	16	YKL029C	3198	3,15	YKL170W	2337	15,34	YKR072C	2393	7	YLR039C	592	27,28	YLR180W	3235	2
YJR074W	597	22	YKL032C	2527	15,28	YKL172W	551	36	YKR076W	3276	9	YLR043C	1520	2,5,7,19	YLR182W	1524	2,28
YJR075W	1710	9	YKL035W	3453	3	YKL173W	141	36,37	YKR080W	3014	23	YLR044C	2997	7	YLR185W	1236	34
YJR076C	647	6,9,11	YKL038W	2372	3,28	YKL174C	3046	2,42	YKR082W	692	22	YLR045C	308	18,21	YLR188W	3208	42
YJR077C	2655	15,42	YKL039W	2755	5,15	YKL175W	3541	42	YKR084C	1213	34	YLR048W	2247	34	YLR189C	2408	7,16
YJR086W	1568	6,17,41	YKL041W	1387	43	YKL176C	1494	43	YKR085C	2330	15,34	YLR055C	1417	10,28	YLR191W	1418	16,35
YJR089W	414	5,18,21	YKL042W	559	5,21	YKL178C	2751	17,41	YKR086W	14	36,37	YLR056W	2415	7,16	YLR192C	2023	34
YJR090C	1013	2,3,5,31	YKL043W	3577	14	YKL180W	2433	34	YKR090W	2804	17	YLR058C	3512	2	YLR195C	1670	33
YJR091C	1148	8	YKL045W	178	13	YKL181W	2941	2,14,23	YKR092C	42	27,29	YLR059C	521	36	YLR197W	471	36
YJR092W	1635	6	YKL048C	1016	11,14	YKL182W	2254	16	YKR093W	3071	25,42	YLR060W	1518	34	YLR200W	1268	8,32
YJR093C	89	36	YKL049C	1391	10	YKL184W	2761	25	YKR094C	1205	31,34	YLR061W	2474	34	YLR203C	299	15,34,37
YJR094C	1589	18,28	YKL055C	2116	16	YKL185W	2073	14,28	YKR095W	884	12,22	YLR066W	1671	33	YLR206W	1490	43
YJR094W-A	1903	34	YKL056C	2136	34	YKL186C	591	22	YKR097W	3247	3	YLR067C	568	34,38	YLR207W	425	31,35
YJR095W	3375	42	YKL057C	751	22	YKL188C	2107	16,42	YKR098C	1156	31	YLR069C	2286	15,34	YLR208W	762	42,43
YJR099W	731	31	YKL058W	1035	28	YKL189W	3156	14	YKR099W	964	2,23,28,39	YLR070C	2825	3	YLR209C	2951	23
YJR101W	1012	5,7,15	YKL060C	2786	3	YKL190W	2654	25,42	YKR101W	1678	10,14	YLR071C	709	28	YLR210W	1435	5
YJR102C	1736	7,14,17,33	YKL062W	2897	7,14,28	YKL191W	2916	25	YKR102W	3653	9	YLR075W	1238	34	YLR212C	413	8,21,30
YJR103W	2973	23	YKL064W	3150	42	YKL192C	2233	15,16	YKR103W	3619	42	YLR078C	1274	43	YLR213C	3088	9
YJR104C	3613	7	YKL067W	2976	23	YKL193C	1929	5	YKR104W	2652	42	YLR079W	1129	9	YLR214W	3070	25,42
YJR106W	1900	7,8,9,15,41,42	YKL068W	628	22	YKL194C	1763	34	YKR105C	3313	42	YLR081W	544	3,42	YLR216C	1970	32
YJR108W	2221	3,8	YKL072W	1342	28	YKL196C	1099	19,43	YKR106W	3634	42	YLR083C	1614	43	YLR220W	2524	18,25
YJR109C	3647	2	YKL073W	979	35	YKL197C	190										

(table D continued, 6/8)

YLR239C	1531	<sup>33</sup>	YLR372W	2077	<sup>16</sup>	YML056C	2989	<sup>23</sup>	YMR056C	3394	<sup>42</sup>	YMR190C	453	<sup>1,36,39</sup>	YMR305C	2569	<sup>9</sup>
YLR240W	1489	<sup>43</sup>	YLR375W	2227	<sup>28</sup>	YML057W	2303	<sup>17,41,42</sup>	YMR058W	3538	<sup>42</sup>	YMR193W	2335	<sup>15,34</sup>	YMR307W	2759	<sup>9</sup>
YLR244C	2275	<sup>34</sup>	YLR377C	2754	<sup>3</sup>	YML058W	1101	<sup>10,12,23</sup>	YMR059W	86	<sup>36,37</sup>	YMR194W	1975	<sup>34</sup>	YMR308C	665	<sup>23</sup>
YLR245C	3011	<sup>23</sup>	YLR378C	644	<sup>35</sup>	YML060W	2507	<sup>12</sup>	YMR060C	1166	<sup>35</sup>	YMR195W	2477	<sup>43</sup>	YMR309C	932	<sup>34</sup>
YLR246W	2010	<sup>33</sup>	YLR380W	2202	<sup>16,43</sup>	YML061C	2152	<sup>10,12,13</sup>	YMR061W	85	<sup>36</sup>	YMR197C	574	<sup>19,43</sup>	YMR311C	1613	<sup>3,43</sup>
YLR248W	1285	<sup>5,7,15</sup>	YLR382C	582	<sup>34,36</sup>	YML062C	1000	<sup>35</sup>	YMR062C	3651	<sup>2</sup>	YMR198W	660	<sup>17,18,21</sup>	YMR314W	783	<sup>31</sup>
YLR249W	2095	<sup>34</sup>	YLR383W	1863	<sup>12</sup>	YML063W	2489	<sup>34</sup>	YMR063W	3525	<sup>18</sup>	YMR199W	1019	<sup>5,14</sup>	YMR319C	3583	<sup>42</sup>
YLR256W	2341	<sup>15,28</sup>	YLR384C	1217	<sup>28</sup>	YML064C	146	<sup>5,21</sup>	YMR064W	1212	<sup>34</sup>	YMR200W	701	<sup>5</sup>	YMR323W	3460	<sup>15</sup>
YLR258W	2995	<sup>3</sup>	YLR387C	1621	<sup>31</sup>	YML065W	106	<sup>13</sup>	YMR065W	2086	<sup>17,19</sup>	YMR201C	1311	<sup>12</sup>	YNL001W	2473	<sup>34</sup>
YLR259C	423	<sup>32,35</sup>	YLR388W	2428	<sup>34</sup>	YML069W	105	<sup>10,13,28</sup>	YMR070W	1199	<sup>10,17,28</sup>	YMR202W	1755	<sup>16,43</sup>	YNL003C	2644	<sup>42</sup>
YLR260W	1918	<sup>16</sup>	YLR389C	1552	<sup>17,33</sup>	YML070W	3624	<sup>7</sup>	YMR072W	1413	<sup>10</sup>	YMR203W	422	<sup>35,42</sup>	YNL004W	686	<sup>22</sup>
YLR262C	1911	<sup>43</sup>	YLR390W	2624	<sup>9</sup>	YML073C	1809	<sup>34</sup>	YMR076C	741	<sup>10,18,21,39</sup>	YMR205C	2785	<sup>3</sup>	YNL005C	2101	<sup>15,34</sup>
YLR263W	2798	<sup>18</sup>	YLR391W-A	3347	<sup>9</sup>	YML074C	2053	<sup>32,34</sup>	YMR078C	1401	<sup>10,39</sup>	YMR207C	2005	<sup>16</sup>	YNL006W	910	<sup>42,43</sup>
YLR264W	894	<sup>34</sup>	YLR393W	2545	<sup>15,30</sup>	YML075C	2151	<sup>16</sup>	YMR079W	1472	<sup>16,43</sup>	YMR208W	279	<sup>16,21</sup>	YNL007C	2094	<sup>32,34</sup>
YLR266C	1935	<sup>28</sup>	YLR394W	853	<sup>11,18,39</sup>	YML076C	1459	<sup>28</sup>	YMR080C	322	<sup>34,36,38</sup>	YMR213W	234	<sup>5,36,37</sup>	YNL008C	1894	<sup>32</sup>
YLR268W	1078	<sup>19,43</sup>	YLR395C	3181	<sup>15,42</sup>	YML077W	1280	<sup>43</sup>	YMR081C	304	<sup>37</sup>	YMR214W	1090	<sup>32,35</sup>	YNL009W	2447	<sup>31,36</sup>
YLR272C	348	<sup>10,21</sup>	YLR396C	1487	<sup>43</sup>	YML078W	2029	<sup>32</sup>	YMR083W	3387	<sup>3</sup>	YMR215W	2561	<sup>9</sup>	YNL012W	2797	<sup>14,18</sup>
YLR273C	2738	<sup>3</sup>	YLR398C	323	<sup>36,38</sup>	YML081C-A	3108	<sup>15</sup>	YMR084W	3163	<sup>2</sup>	YMR216C	71	<sup>37</sup>	YNL014W	1995	<sup>34</sup>
YLR274W	77	<sup>5,13</sup>	YLR399C	890	<sup>10,18</sup>	YML081W	869	<sup>28</sup>	YMR085W	3511	<sup>2</sup>	YMR217W	3009	<sup>23</sup>	YNL015W	2504	<sup>19,31,43</sup>
YLR275W	107	<sup>10,13,36,37</sup>	YLR403W	627	<sup>5,22</sup>	YML085C	287	<sup>5,21</sup>	YMR088C	2646	<sup>42</sup>	YMR218C	1541	<sup>43</sup>	YNL016W	440	<sup>36</sup>
YLR276C	500	<sup>36</sup>	YLR406C	2212	<sup>34</sup>	YML086C	2723	<sup>3</sup>	YMR089C	1074	<sup>31,32</sup>	YMR219W	1277	<sup>10</sup>	YNL020C	2117	<sup>8</sup>
YLR277C	343	<sup>36</sup>	YLR410W	1660	<sup>6,33</sup>	YML088W	876	<sup>31</sup>	YMR090W	3283	<sup>15</sup>	YMR220W	1731	<sup>16</sup>	YNL021W	1399	<sup>10,33</sup>
YLR284C	2006	<sup>16</sup>	YLR411W	3374	<sup>42</sup>	YML091C	676	<sup>36</sup>	YMR091C	747	<sup>22</sup>	YMR222C	3039	<sup>25</sup>	YNL025C	1790	<sup>28</sup>
YLR286C	826	<sup>11</sup>	YLR417W	1486	<sup>43</sup>	YML092C	898	<sup>31</sup>	YMR092C	1147	<sup>8</sup>	YMR223W	1136	<sup>31</sup>	YNL027W	1457	<sup>7,28</sup>
YLR287C-A	1927	<sup>34</sup>	YLR418C	1216	<sup>28</sup>	YML094W	1683	<sup>8,32</sup>	YMR094W	390	<sup>5,10,21</sup>	YMR224C	1828	<sup>9,10,12,18</sup>	YNL029C	1948	<sup>33</sup>
YLR288C	557	<sup>5</sup>	YLR419W	215	<sup>36,37</sup>	YML095C	2043	<sup>12,39</sup>	YMR095C	2780	<sup>7,25</sup>	YMR225C	2384	<sup>15,34</sup>	YNL030W	134	<sup>10,27</sup>
YLR289W	1235	<sup>34</sup>	YLR420W	3005	<sup>23</sup>	YML096W	2896	<sup>9</sup>	YMR096W	2520	<sup>7,25</sup>	YMR227C	814	<sup>28</sup>	YNL031C	1453	<sup>10</sup>
YLR291C	1234	<sup>34</sup>	YLR421C	684	<sup>31</sup>	YML097C	912	<sup>43</sup>	YMR100W	2126	<sup>6</sup>	YMR229C	504	<sup>36</sup>	YNL032W	1064	<sup>5</sup>
YLR292C	1345	<sup>35</sup>	YLR423C	446	<sup>43</sup>	YML098W	1654	<sup>28</sup>	YMR101C	3170	<sup>9</sup>	YMR230W	2242	<sup>34</sup>	YNL036W	3649	<sup>7</sup>
YLR293C	690	<sup>22</sup>	YLR429W	619	<sup>6,30</sup>	YML099C	2879	<sup>2</sup>	YMR104C	2480	<sup>41</sup>	YMR231W	1784	<sup>5,17,43</sup>	YNL037C	1786	<sup>3,15,34</sup>
YLR294C	2985	<sup>15</sup>	YLR430W	190	<sup>36,37</sup>	YML100W	2931	<sup>3,7</sup>	YMR105C	1431	<sup>3,33</sup>	YMR232W	3497	<sup>17</sup>	YNL039W	51	<sup>29</sup>
YLR295C	3140	<sup>15,42</sup>	YLR432W	2956	<sup>23</sup>	YML102W	1127	<sup>10,12,17</sup>	YMR106C	1400	<sup>10,12</sup>	YMR234W	275	<sup>9,13,36</sup>	YNL045W	1886	<sup>16,33</sup>
YLR298C	263	<sup>36,37</sup>	YLR433C	615	<sup>6,17,41,43</sup>	YML103C	773	<sup>32</sup>	YMR108W	3517	<sup>2</sup>	YMR235C	852	<sup>22</sup>	YNL048W	1799	<sup>33</sup>
YLR299W	2748	<sup>9</sup>	YLR436C	2362	<sup>9</sup>	YML104C	1691	<sup>8</sup>	YMR109W	1484	<sup>6,8,43</sup>	YMR236W	743	<sup>28</sup>	YNL049C	1759	<sup>43</sup>
YLR300W	2566	<sup>9</sup>	YLR438C-A	254	<sup>36,37</sup>	YML105C	897	<sup>35</sup>	YMR112C	1934	<sup>28</sup>	YMR238W	1617	<sup>6</sup>	YNL052W	3200	<sup>15,42</sup>
YLR303W	3558	<sup>2</sup>	YLR438W	2435	<sup>2,25</sup>	YML106W	2869	<sup>23</sup>	YMR116C	1650	<sup>2,28,34</sup>	YMR239C	595	<sup>36</sup>	YNL053W	2072	<sup>17,34</sup>
YLR304C	3486	<sup>2,3,15</sup>	YLR439W	1232	<sup>15,34</sup>	YML109W	189	<sup>1,5,10</sup>	YMR117C	334	<sup>21</sup>	YMR240C	51	<sup>36,37</sup>	YNL054W	1385	<sup>43</sup>
YLR305C	2055	<sup>16</sup>	YLR441C	2385	<sup>34</sup>	YML110C	2700	<sup>15,25</sup>	YMR118C	3272	<sup>15</sup>	YMR241W	1412	<sup>10,42</sup>	YNL055C	3423	<sup>15,42</sup>
YLR306W	1043	<sup>31</sup>	YLR442C	794	<sup>1,10,12</sup>	YML111W	1042	<sup>31</sup>	YMR120C	2747	<sup>23</sup>	YMR242C	2411	<sup>34</sup>	YNL061W	373	<sup>36</sup>
YLR307W	1990	<sup>3,8</sup>	YLR443W	2528	<sup>9</sup>	YML112W	1644	<sup>28</sup>	YMR121C	2067	<sup>34</sup>	YMR243C	2645	<sup>7,42</sup>	YNL062C	469	<sup>34,36</sup>
YLR308W	2229	<sup>8</sup>	YLR447C	2648	<sup>42</sup>	YML114C	1653	<sup>28</sup>	YMR125W	376	<sup>36</sup>	YMR246W	2076	<sup>16</sup>	YNL064C	421	<sup>32,35</sup>
YLR309C	2301	<sup>43</sup>	YLR448W	2068	<sup>34</sup>	YML115C	1661	<sup>7,33</sup>	YMR127C	3180	<sup>14</sup>	YMR250W	3604	<sup>2</sup>	YNL065W	3357	<sup>42</sup>
YLR310C	1724	<sup>1,3,41</sup>	YLR449W	2144	<sup>32</sup>	YML116W	3626	<sup>42</sup>	YMR128W	442	<sup>9,36</sup>	YMR251W-A	3640	<sup>7</sup>	YNL066W	3169	<sup>1,40</sup>
YLR312W-A	2272	<sup>15,34</sup>	YLR450W	1905	<sup>16</sup>	YML120C	3218	<sup>15</sup>	YMR129W	626	<sup>22</sup>	YMR255W	688	<sup>22</sup>	YNL067W	2484	<sup>34</sup>
YLR313C	1437	<sup>6,14</sup>	YLR451W	3062	<sup>2</sup>	YML121W	2257	<sup>42</sup>	YMR133W	2581	<sup>18,39</sup>	YMR256C	3106	<sup>15,42</sup>	YNL068C	1024	<sup>5,6,28</sup>
YLR314C	483	<sup>6,9,11,21</sup>	YLR452C	2803	<sup>17</sup>	YML123C	3617	<sup>26,42</sup>	YMR134W	2684	<sup>25</sup>	YMR257C	2445	<sup>15,34</sup>	YNL069C	1229	<sup>34</sup>
YLR316C	499	<sup>36</sup>	YLR453C	1113	<sup>10</sup>	YML124C	305	<sup>21</sup>	YMR136W	2935	<sup>28</sup>	YMR260C	1699	<sup>34</sup>	YNL070W	998	<sup>35</sup>
YLR318W	1534	<sup>10</sup>	YLR457C	1057	<sup>5,10</sup>	YML126C	1960	<sup>16</sup>	YMR137C	2098	<sup>12</sup>	YMR261C	2784	<sup>3,7</sup>	YNL071W	3257	<sup>15</sup>
YLR319C	1178	<sup>6</sup>	YLR466W	1363	<sup>10</sup>	YML129C	2481	<sup>15,20</sup>	YMR138W	544	<sup>17,21</sup>	YMR263W	1525	<sup>10,28</sup>	YNL072W	298	<sup>13,36,38</sup>
YLR321C	1351	<sup>10</sup>	YLR467W	1303	<sup>10</sup>	YML130C	2085	<sup>32</sup>	YMR139W	2815	<sup>18</sup>	YMR264W	938	<sup>31</sup>	YNL073W	2444	<sup>34</sup>
YLR325C	2345	<sup>34</sup>	YML001W	1485	<sup>43</sup>	YMR001C	306	<sup>5,21</sup>	YMR142C	1713	<sup>34</sup>	YMR267W	2900	<sup>15,26</sup>	YNL075W	549	<sup>36</sup>
YLR327C	3481	<sup>15</sup>	YML004C	2510	<sup>3,7</sup>	YMR004W	1386	<sup>43</sup>	YMR143W	1974	<sup>34</sup>	YMR268C	218	<sup>36,37</sup>	YNL076W	2089	<sup>4,9,25,41</sup>
YLR328W	2928	<sup>23</sup>	YML007W	1460	<sup>7,14,28</sup>	YMR005W	868	<sup>28</sup>	YMR145C	3105	<sup>15</sup>	YMR270C	97	<sup>27</sup>	YNL077W	2503	<sup>7,32</sup>
YLR329W	2832	<sup>18,39</sup>	YML008C	2407	<sup>16</sup>	YMR006C	2540	<sup>9,16</sup>	YMR146C	1231	<sup>34</sup>	YMR271C	2763	<sup>23</sup>	YNL079C	1202	<sup>6,8,17</sup>
YLR330W	1892	<sup>9,17</sup>	YML009C	2316	<sup>15,34</sup>	YMR008C	2541	<sup>16</sup>	YMR149W	834	<sup>33</sup>	YMR272C	2439	<sup>16</sup>	YNL081C	1773	<sup>15,34</sup>
YLR332W	2446	<sup>7,9,17,41</sup>	YML010W	1416	<sup>10,28</sup>	YMR011W	3577	<sup>3,42</sup>	YMR150C	1405	<sup>15,33</sup>	YMR273C	1125	<sup>15,30</sup>	YNL082W	1051	<sup>12,39</sup>
YLR333C	2157	<sup>34</sup>	YML012W	1447	<sup>43</sup>	YMR012W	1517	<sup>34</sup>	YMR152W	1898	<sup>33</sup>	YMR274C	1999	<sup>17,33</sup>	YNL083W	3435	<sup>42</sup>
YLR335W	749	<sup>22</sup>	YML015C	1033	<sup>28</sup>	YMR013C	1669	<sup>9,33</sup>	YMR153W	689	<sup>22</sup>	YMR275C	992	<sup>31</sup>	YNL084C	1369	<sup>8,31,43</sup>
YLR336C	2548	<sup>41</sup>	YML016C	2789	<sup>41</sup>	YMR015C	2182	<sup>16</sup>	YMR154C	2843	<sup>18</sup>	YMR276W	769	<sup>21</sup>	YNL088W	335	<sup>10,21,28</sup>
YLR337C	2167	<sup>8</sup>	YML019W	1825	<sup>33</sup>	YMR016C	1458	<sup>28,41</sup>	YMR157C	2211	<sup>34</sup>	YMR277W	1072	<sup>28</sup>	YNL090W	1655	<sup>8</sup>
YLR340W	1233	<sup>34</sup>	YML021C	1049	<sup>12</sup>	YMR017W	3547	<sup>14</sup>	YMR159C	911	<sup>31,43</sup>	YMR279C	3379	<sup>42</sup>	YNL093W	949	<sup>43</sup>
YLR342W	2720	<sup>3,9</sup>	YML022W	2938	<sup>23</sup>	YMR019W	2383	<sup>28</sup>	YMR162C	3030	<sup>42</sup>	YMR280C	2811	<sup>3,28</sup>	YNL095C	2855	<sup>9</sup>
YLR343W	3639	<sup>9</sup>	YML024W	2218	<sup>34</sup>	YMR021C	2523	<sup>7,25</sup>	YMR164C	2568	<sup>3,14</sup>						

(table D continued, 7/8)

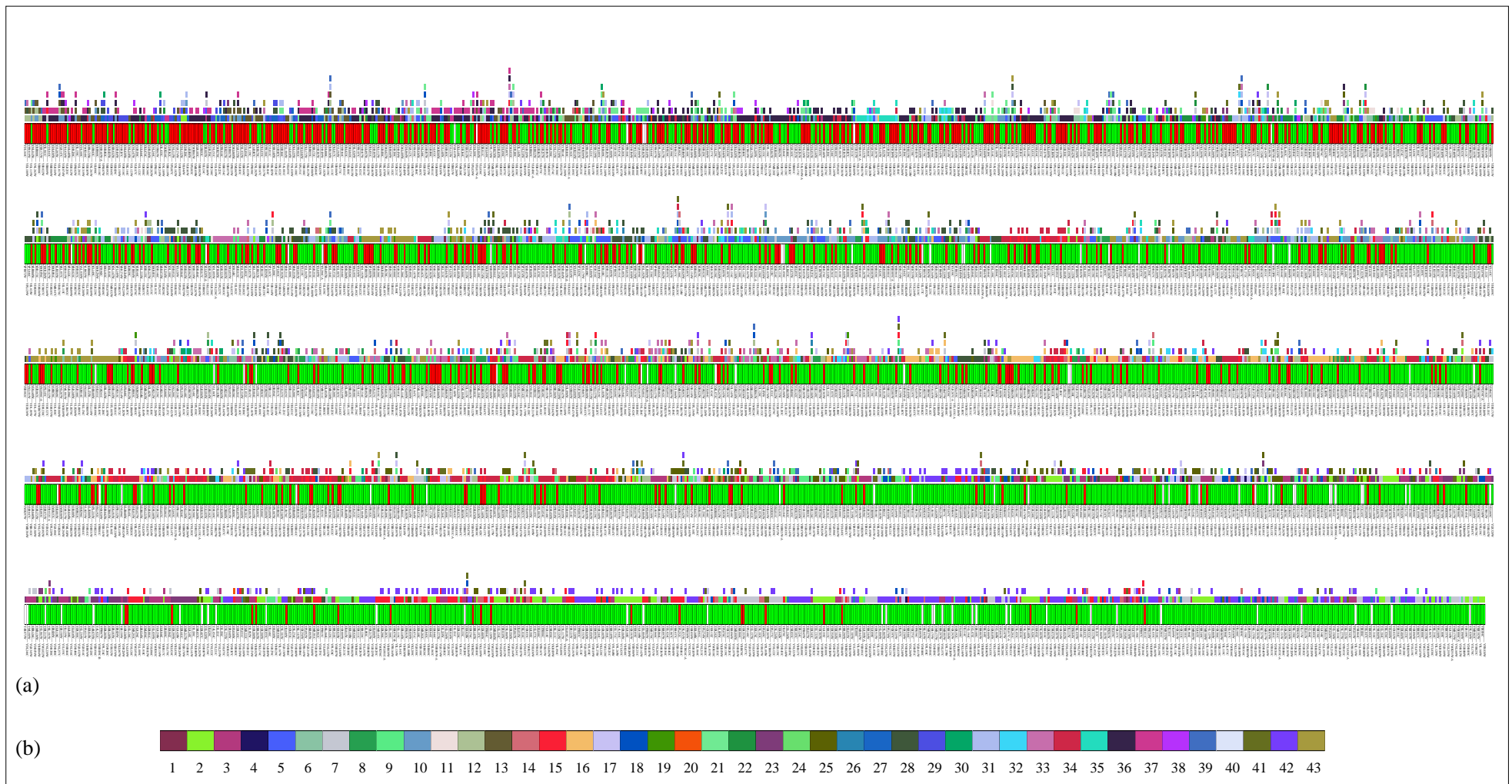
<b>YNL126W</b>	389	8.21,30	<b>YNL265C</b>	3244	7	<b>YNR056C</b>	2164	5.25,42	<b>YOL126C</b>	2982	15	<b>YOR101W</b>	2801	1,41	<b>YOR237W</b>	1913	16
<b>YNL128W</b>	2277	9,16	<b>YNL267W</b>	1151	11,16,43	<b>YNR057C</b>	3015	25	<b>YOL127W</b>	1226	34	<b>YOR103C</b>	832	33	<b>YOR239W</b>	2122	8
<b>YNL130C</b>	1959	16	<b>YNL268W</b>	3427	2,42	<b>YNR058W</b>	3121	25	<b>YOL130W</b>	1703	42	<b>YOR106W</b>	740	19,43	<b>YOR241W</b>	2314	25
<b>YNL131W</b>	419	35	<b>YNL270C</b>	3454	42	<b>YNR060W</b>	3603	42	<b>YOL132W</b>	3080	9	<b>YOR107W</b>	3240	41	<b>YOR242C</b>	3273	14
<b>YNL135C</b>	1969	32	<b>YNL271C</b>	223	6,11,21	<b>YNR063W</b>	1933	28	<b>YOL133W</b>	1668	33	<b>YOR108W</b>	3326	2	<b>YOR244W</b>	1172	5,10,28
<b>YNL137C</b>	2426	15,34	<b>YNL272C</b>	1341	43	<b>YNR064C</b>	3593	7	<b>YOL135C</b>	1192	28	<b>YOR109W</b>	1926	43	<b>YOR249C</b>	481	21
<b>YNL138W</b>	1087	8,41	<b>YNL274C</b>	3063	25	<b>YNR070W</b>	3549	42	<b>YOL136C</b>	2981	15	<b>YOR110W</b>	352	29	<b>YOR250C</b>	439	36
<b>YNL139C</b>	977	28	<b>YNL275W</b>	3029	42	<b>YNR072W</b>	3441	42	<b>YOL139C</b>	1084	5,34	<b>YOR113W</b>	2060	28	<b>YOR251C</b>	2470	25
<b>YNL141W</b>	3012	23	<b>YNL277W</b>	3585	2	<b>YOL001W</b>	3470	26	<b>YOL140W</b>	2864	2,25	<b>YOR115C</b>	1383	43	<b>YOR254C</b>	458	32,35
<b>YNL142W</b>	2525	14,25,41,42	<b>YNL280C</b>	2091	16	<b>YOL004W</b>	806	18,28	<b>YOL141W</b>	1426	33	<b>YOR116C</b>	50	29	<b>YOR257W</b>	259	9,21,22
<b>YNL145W</b>	2578	17,41	<b>YNL282W</b>	116	13,36	<b>YOL005C</b>	1932	28	<b>YOL142W</b>	358	36,38	<b>YOR117W</b>	1368	31	<b>YOR259C</b>	448	31
<b>YNL147W</b>	55	36,37,38	<b>YNL283C</b>	2793	7,9	<b>YOL006C</b>	543	10,21,28,39	<b>YOL143C</b>	2778	25	<b>YOR120W</b>	2696	2,7,25	<b>YOR260W</b>	1142	34
<b>YNL148C</b>	1545	30,32	<b>YNL284C</b>	1772	15,34	<b>YOL007C</b>	2688	9	<b>YOL144W</b>	395	30,36	<b>YOR122C</b>	1414	6	<b>YOR261C</b>	1135	31
<b>YNL151C</b>	95	29	<b>YNL286W</b>	216	36,37	<b>YOL009C</b>	1767	8,15	<b>YOL145C</b>	494	5,21,28	<b>YOR124C</b>	937	31	<b>YOR265W</b>	1563	8,30
<b>YNL153C</b>	2048	8,32	<b>YNL287W</b>	1483	43	<b>YOL010W</b>	467	36	<b>YOL147C</b>	2172	16	<b>YOR125C</b>	2736	3,15	<b>YOR266W</b>	1558	7,15,35
<b>YNL154C</b>	1332	6,41,42	<b>YNL289W</b>	1320	5	<b>YOL011W</b>	2497	16	<b>YOL148C</b>	1100	10	<b>YOR127W</b>	1436	6,17	<b>YOR269W</b>	1988	8
<b>YNL160W</b>	3642	7	<b>YNL290W</b>	270	13	<b>YOL012C</b>	1440	10	<b>YOL149W</b>	23	38	<b>YOR128C</b>	2962	23	<b>YOR270C</b>	2641	42
<b>YNL161W</b>	971	14,28	<b>YNL291C</b>	2532	17,42	<b>YOL013C</b>	875	31	<b>YOL151W</b>	3555	7	<b>YOR130C</b>	3514	2,42	<b>YOR271C</b>	3371	42
<b>YNL162W</b>	2329	34	<b>YNL292W</b>	320	36	<b>YOL016C</b>	2772	17	<b>YOL156W</b>	3598	42	<b>YOR132W</b>	1477	43	<b>YOR272W</b>	2203	8
<b>YNL163C</b>	1698	34	<b>YNL293W</b>	1695	6,43	<b>YOL018C</b>	1480	19,43	<b>YOL157C</b>	3386	3	<b>YOR133W</b>	1855	34	<b>YOR273C</b>	3498	42
<b>YNL167C</b>	1030	28	<b>YNL298W</b>	525	6,11	<b>YOL020W</b>	3019	2,42	<b>YOL158C</b>	3537	42	<b>YOR136W</b>	3479	3,15	<b>YOR274W</b>	496	36
<b>YNL168C</b>	2494	25	<b>YNL299W</b>	488	10,21	<b>YOL021C</b>	168	21,36	<b>YOL165C</b>	2863	25	<b>YOR140W</b>	2294	28	<b>YOR276W</b>	930	34
<b>YNL169C</b>	2129	16	<b>YNL301C</b>	1717	34	<b>YOL023W</b>	2367	15,34	<b>YOR001W</b>	357	36,38	<b>YOR141C</b>	2228	8	<b>YOR278W</b>	2354	25
<b>YNL172W</b>	265	5,21	<b>YNL302C</b>	2280	34	<b>YOL025W</b>	2595	1,9	<b>YOR002W</b>	1551	31	<b>YOR142W</b>	2926	3,15	<b>YOR281C</b>	2307	17,41
<b>YNL173C</b>	2750	17,41	<b>YNL304W</b>	2033	43	<b>YOL028C</b>	2290	28	<b>YOR003W</b>	1155	31	<b>YOR143C</b>	2554	25	<b>YOR283W</b>	2614	3
<b>YNL175C</b>	454	36	<b>YNL306W</b>	1697	15,34	<b>YOL030W</b>	2583	9	<b>YOR005C</b>	714	12	<b>YOR148C</b>	302	36,37	<b>YOR284C</b>	2143	32
<b>YNL177C</b>	1536	15,34	<b>YNL307C</b>	2766	18	<b>YOL031C</b>	1526	35	<b>YOR008C</b>	2088	7,9,41	<b>YOR149C</b>	1723	41	<b>YOR290C</b>	1585	10,28
<b>YNL178W</b>	2204	34	<b>YNL309W</b>	1193	28	<b>YOL033W</b>	2344	34	<b>YOR008C-A</b>	3643	7	<b>YOR150W</b>	1845	15,34	<b>YOR291W</b>	3096	42
<b>YNL180C</b>	1690	8	<b>YNL312W</b>	5	12,13,39	<b>YOL038W</b>	846	31	<b>YOR009W</b>	3087	9	<b>YOR151C</b>	2028	38	<b>YOR293W</b>	2154	34
<b>YNL183C</b>	3295	14,42	<b>YNL314W</b>	866	25,28	<b>YOL039W</b>	2465	34	<b>YOR010C</b>	2607	7,9	<b>YOR153W</b>	3627	7,42	<b>YOR294W</b>	572	34,36
<b>YNL185C</b>	2448	15,34	<b>YNL315C</b>	1442	15,30	<b>YOL040C</b>	2022	34	<b>YOR011W</b>	2642	42	<b>YOR156C</b>	1077	11	<b>YOR296W</b>	2222	6
<b>YNL186W</b>	1347	10,31	<b>YNL316C</b>	2952	2	<b>YOL043C</b>	1050	12	<b>YOR014W</b>	1266	5,7	<b>YOR157C</b>	780	31	<b>YOR297C</b>	1152	15,30,35
<b>YNL188W</b>	645	17,21	<b>YNL317W</b>	319	30,36	<b>YOL044W</b>	2121	8	<b>YOR016C</b>	1612	43	<b>YOR158W</b>	1224	15,34	<b>YOR298C-A</b>	2059	28
<b>YNL189W</b>	70	5,22,31	<b>YNL318C</b>	3601	42	<b>YOL049W</b>	2356	25	<b>YOR017W</b>	169	36,38	<b>YOR159C</b>	152	10,13,36,37	<b>YOR299W</b>	728	6
<b>YNL192W</b>	2596	9	<b>YNL321W</b>	3312	42	<b>YOL051W</b>	1757	28	<b>YOR018W</b>	3411	7	<b>YOR160W</b>	770	22,35	<b>YOR301W</b>	1971	6
<b>YNL194C</b>	3612	7	<b>YNL322C</b>	3022	9	<b>YOL052C</b>	2471	25	<b>YOR020C</b>	1968	32	<b>YOR162C</b>	2289	28,42	<b>YOR302W</b>	2877	2
<b>YNL197C</b>	3155	14	<b>YNL325C</b>	3260	42	<b>YOL053C-A</b>	3554	7	<b>YOR023C</b>	1071	28,33	<b>YOR163W</b>	2602	7,18	<b>YOR303W</b>	3325	2
<b>YNL199C</b>	1215	28	<b>YNL327W</b>	1952	5,9	<b>YOL054W</b>	2634	7,17	<b>YOR025W</b>	1606	10	<b>YOR167C</b>	931	34	<b>YOR304W</b>	1119	10
<b>YNL201C</b>	2737	3	<b>YNL328C</b>	2293	32	<b>YOL055C</b>	2555	25	<b>YOR026W</b>	1130	5,10	<b>YOR168W</b>	2483	34	<b>YOR306C</b>	3523	42
<b>YNL202W</b>	1997	16	<b>YNL329C</b>	1958	16	<b>YOL058W</b>	3166	2,25	<b>YOR027W</b>	2292	32	<b>YOR171C</b>	1636	16	<b>YOR307C</b>	1382	42,43
<b>YNL204C</b>	2796	18	<b>YNL330C</b>	1428	1,10,18,33	<b>YOL059W</b>	2993	3	<b>YOR028C</b>	2921	7,28	<b>YOR174W</b>	961	28	<b>YOR308C</b>	266	36,37
<b>YNL209W</b>	2083	7,32,34	<b>YNL331C</b>	2687	25	<b>YOL060C</b>	2139	8,15	<b>YOR030W</b>	2627	9,14	<b>YOR176W</b>	2695	15,25	<b>YOR310C</b>	519	36
<b>YNL210W</b>	249	37,39	<b>YNL332W</b>	2731	23	<b>YOL061W</b>	2937	2,23	<b>YOR031W</b>	3284	7	<b>YOR177C</b>	2794	18	<b>YOR312C</b>	2375	34
<b>YNL213C</b>	2266	15	<b>YNL333W</b>	2016	7,25	<b>YOL062C</b>	1306	43	<b>YOR032C</b>	3476	14	<b>YOR178C</b>	2920	3,7	<b>YOR313C</b>	3279	9
<b>YNL214W</b>	1513	16,35	<b>YNL334C</b>	2779	7,25	<b>YOL064C</b>	658	3,7,23,25	<b>YOR033C</b>	639	12,18,39	<b>YOR180C</b>	2105	16	<b>YOR316C</b>	3493	42
<b>YNL216W</b>	962	3,10,28	<b>YNL339C</b>	1362	10	<b>YOL065C</b>	2313	3	<b>YOR034C</b>	1335	43	<b>YOR181W</b>	524	6,11	<b>YOR317W</b>	2217	16
<b>YNL217W</b>	2334	34	<b>YNR001C</b>	3256	15	<b>YOL066C</b>	2315	25	<b>YOR035C</b>	3179	14	<b>YOR182C</b>	1869	34	<b>YOR319W</b>	30	36,37
<b>YNL218W</b>	53	13	<b>YNR003C</b>	41	29	<b>YOL067C</b>	2834	3	<b>YOR036W</b>	588	19,43	<b>YOR184W</b>	3227	2	<b>YOR320C</b>	1881	33
<b>YNL219C</b>	1751	33	<b>YNR006W</b>	1482	43	<b>YOL068C</b>	1535	10	<b>YOR037W</b>	1014	35	<b>YOR185C</b>	746	22	<b>YOR321W</b>	831	33
<b>YNL220W</b>	2940	23	<b>YNR007C</b>	759	7,35,43	<b>YOL069W</b>	482	21	<b>YOR038C</b>	1323	28	<b>YOR187W</b>	2279	34	<b>YOR323C</b>	2876	2
<b>YNL221C</b>	283	13,36	<b>YNR008W</b>	2150	16	<b>YOL072W</b>	1652	28,39	<b>YOR039W</b>	78	29,33	<b>YOR188W</b>	1642	6	<b>YOR326W</b>	948	6,43
<b>YNL222W</b>	1174	28	<b>YNR010W</b>	294	5,21,28	<b>YOL075C</b>	3028	42	<b>YOR040W</b>	3064	3	<b>YOR190W</b>	3534	18	<b>YOR327C</b>	1476	43
<b>YNL223W</b>	1388	18,31,43	<b>YNR011C</b>	204	36,37	<b>YOL076W</b>	908	43	<b>YOR043W</b>	700	5,14	<b>YOR191W</b>	1390	10,17	<b>YOR328W</b>	3560	42
<b>YNL225C</b>	634	18,21,30	<b>YNR012W</b>	2990	23	<b>YOL080C</b>	362	36	<b>YOR045W</b>	1607	35	<b>YOR192C</b>	3393	42	<b>YOR329C</b>	947	43
<b>YNL227C</b>	2161	32	<b>YNR013C</b>	3414	42	<b>YOL081W</b>	2309	1,41	<b>YOR046C</b>	342	22,36	<b>YOR194C</b>	860	28	<b>YOR330C</b>	185	13
<b>YNL229C</b>	1173	3,25,28	<b>YNR015W</b>	573	36	<b>YOL086C</b>	2992	3	<b>YOR047C</b>	1702	3,7,42	<b>YOR195W</b>	725	21	<b>YOR332W</b>	3207	42
<b>YNL230C</b>	1045	28	<b>YNR016C</b>	170	16,22,36	<b>YOL088C</b>	1870	32	<b>YOR048C</b>	381	36,38	<b>YOR196C</b>	2522	15,25	<b>YOR334W</b>	248	24,37,42
<b>YNL231C</b>	1910	16,43	<b>YNR017W</b>	418	35	<b>YOL089C</b>	865	7,28	<b>YOR057W</b>	201	21,31	<b>YOR198C</b>	510	21,43	<b>YOR335C</b>	2065	34
<b>YNL232W</b>	372	10,36	<b>YNR019W</b>	2097	16	<b>YOL090W</b>	1313	12,39	<b>YOR058C</b>	694	21	<b>YOR201C</b>	497	15,34,36	<b>YOR336W</b>	1823	9,33
<b>YNL233W</b>	791	9,11	<b>YNR023W</b>	813	10,28	<b>YOL091W</b>	2795	18	<b>YOR061W</b>	257	29	<b>YOR202W</b>	3557	2	<b>YOR337W</b>	2828	28
<b>YNL234W</b>	3303	7	<b>YNR026C</b>	1890	43	<b>YOL094C</b>	111	13	<b>YOR063W</b>	1810	34	<b>YOR204W</b>	466	34,36	<b>YOR339C</b>	2678	31
<b>YNL236W</b>	712	28	<b>YNR028W</b>	2235	32,43	<b>YOL095C</b>	274	13,14	<b>YOR064C</b>	811	10,28	<b>YOR207C</b>	49	29	<b>YOR340C</b>	62	27
<b>YNL238W</b>	1530	17,33	<b>YNR030W</b>	2266	9	<b>YOL096C</b>	2355	15,25	<b>YOR065W</b>	3439	15,42	<b>YOR208W</b>	2392	7,17,41			

(table D continued, 8/8)

YOR373W	515	21	YPL120W	1340	43	YPL255W	463	18,21	YPR113W	1954	16									
YOR374W	3504	2,3	YPL121C	2628	18,39	YPL256C	1630	5	YPR119W	556	5									
YOR375C	3324	1	YPL122C	755	12,28	YPL258C	2694	25	YPR120C	1186	5,10									
YOR377W	2388	16	YPL124W	617	10,21	YPL259C	1300	43	YPR121W	2861	23									
YOR378W	3440	42	YPL125W	711	22	YPL262W	2824	3	YPR122W	1688	6,33									
YOR380W	1322	28	YPL126W	1179	5,10	YPL265W	3224	2,42	YPR124W	3489	42									
YOR381W	3246	25	YPL127C	1302	10	YPL266W	438	36	YPR128C	3204	42									
YOR386W	2183	12	YPL128C	1104	10	YPL268W	347	14,16,21,41	YPR129W	1761	43									
YOR393W	3543	3	YPL129W	734	28	YPL269W	542	6,8,17,21	YPR131C	1263	33									
YPL001W	1422	10,33	YPL130W	3475	14	YPL270W	3388	42	YPR132W	2243	34									
YPL002C	1722	3,41	YPL131W	1223	34	YPL271W	3214	15,42	YPR133W-A	1003	35									
YPL003W	1778	33	YPL132W	2553	7,15,25	YPL273W	2862	2,25	YPR134W	300	37									
YPL006W	2112	16,42	YPL133C	1581	28	YPL274W	3267	2,42	YPR135W	104	13									
YPL007C	74	29	YPL134C	3502	42	YPL281C	3495	3	YPR137W	517	36									
YPL008W	293	10,21,36	YPL139C	2922	18	YPL283C	1200	10	YPR138C	2727	25,42									
YPL010W	906	43	YPL140C	3289	7	YPR001W	2884	3,15	YPR140W	2358	16									
YPL011C	810	28	YPL143W	1813	34	YPR002W	3092	25	YPR141C	540	17,18,31									
YPL013C	2125	15,34	YPL145C	1475	16,43	YPR003C	3205	42	YPR145W	3068	2,25									
YPL015C	1640	33	YPL147W	2037	16,42	YPR004C	3159	15	YPR149W	2542	43									
YPL016W	804	10,28	YPL148C	1549	16,33	YPR005C	3522	42	YPR154W	2174	8									
YPL018W	487	10	YPL149W	779	31,43	YPR006C	3187	3	YPR155C	369	15,36									
YPL019C	1544	26,30	YPL151C	138	36,37	YPR007C	3485	18	YPR156C	3373	42									
YPL020C	1925	5	YPL153C	796	5,12	YPR010C	99	27	YPR159W	2564	3,9									
YPL021W	2959	9	YPL154C	1605	31,33	YPR011C	2639	42	YPR160W	3590	3,7									
YPL022W	1312	12,39	YPL155C	527	21	YPR013C	2588	28	YPR161C	708	17,28,41									
YPL024W	2594	9	YPL160W	2425	34	YPR015C	3077	28	YPR162C	273	13									
YPL026C	3082	3	YPL161C	514	6,14,41	YPR016C	2170	34	YPR163C	2064	34									
YPL028W	2111	16	YPL167C	855	12	YPR017C	1339	43	YPR164W	3112	7									
YPL029W	224	15,36,37,38	YPL169C	585	22	YPR018W	1112	10	YPR165W	666	5,9,41									
YPL031C	3037	26,41	YPL170W	3359	42	YPR019W	3	12,13	YPR166C	2273	15,34									
YPL032C	946	43	YPL171C	1879	16	YPR020W	2638	15,42	YPR167C	3186	2,25									
YPL036W	3531	42	YPL172C	2552	15,25	YPR021C	3420	42	YPR168W	2526	2,28									
YPL037C	1028	28,32,35	YPL173W	2399	15,34	YPR022C	970	28	YPR173C	1317	43									
YPL038W	976	2,28	YPL174C	264	21,22	YPR023C	717	10,28	YPR175W	33	10,13									
YPL040C	1515	15,34	YPL175W	1841	9,33	YPR024W	729	15,31	YPR176C	1262	33									
YPL042C	1171	28	YPL177C	3301	7,42	YPR025C	1027	28	YPR178W	232	36,37									
YPL043W	502	36	YPL178W	233	18,36,37	YPR026W	2883	3,7	YPR180W	829	33									
YPL045W	1564	43	YPL179W	1714	34	YPR029C	1281	43	YPR181C	902	43									
YPL046C	735	28	YPL183W-A	1210	34	YPR032W	1305	8,25,43	YPR182W	26	10,13,36,37									
YPL048W	2004	34	YPL187W	3417	17,41	YPR033C	1977	34	YPR183W	1561	33									
YPL049C	3297	14	YPL188W	3633	7	YPR034W	1523	10	YPR184W	3451	3									
YPL050C	1550	3,33	YPL189W	2036	16	YPR035W	2760	2,25	YPR185W	192	31,43									
YPL051W	2288	43	YPL190C	371	36	YPR036W	3259	42	YPR186C	121	29									
YPL053C	1914	9,33	YPL193W	1820	30	YPR041W	1211	34	YPR187W	40	27,28,29,30									
YPL057C	2296	16	YPL194W	1798	5	YPR043W	1795	34	YPR188C	1987	8									
YPL058C	3378	42	YPL195W	2018	43	YPR046W	349	21	YPR189W	985	34,38									
YPL059W	2891	7	YPL198W	1843	34	YPR047W	2274	34	YPR190C	114	29									
YPL061W	3173	2,3	YPL203W	2673	1,7,14,41	YPR051W	1181	33	YPR191W	3119	15,42									
YPL065W	1294	43	YPL204W	354	12,14,18,31	YPR052C	1651	28	YPR192W	3563	42									
YPL069C	1315	33	YPL209C	480	21	YPR054W	2461	9,14	YPR193C	1118	10,33									
YPL072W	1364	31	YPL210C	1343	35	YPR055W	903	43	YPR194C	3578	42									
YPL074W	981	31	YPL211W	370	36	YPR056W	1026	28	YPR196W	2613	3									
YPL075W	1115	3,28	YPL212C	548	36	YPR057W	315	36	YPR198W	3442	42									
YPL076W	1667	9,16,33	YPL213W	220	36,37	YPR058W	3402	42	YPR199C	1321	28									
YPL078C	3277	15,42	YPL214C	2469	25	YPR060C	2911	2	YPR200C	3416	7									
YPL079W	2472	34	YPL215W	1543	15,30	YPR061C	2127	32	YPR201W	3469	7,42									
YPL081W	2453	34	YPL217C	1746	6	YPR062W	2868	23												
YPL082C	859	28	YPL218W	904	43	YPR065W	3239	15												
YPL083C	84	36,37	YPL219W	2609	3	YPR066W	1548	33												
YPL084W	2391	7	YPL220W	2210	34	YPR067W	2967	15,42												
YPL085W	905	43	YPL224C	3206	42	YPR069C	2591	25												
YPL086C	1346	10,28,33	YPL227C	830	33	YPR072W	733	28												
YPL087W	2321	16	YPL228W	317	36	YPR074C	2833	2,3												
YPL088W	3120	25	YPL230W	2888	28	YPR075C	2791	17												
YPL089C	1582	28	YPL231W	2231	16	YPR080W	2169	34												
YPL090C	2488	34	YPL232W	945	19,43	YPR081C	2234	34												
YPL091W	2436	7,25	YPL234C	2968	42	YPR082C	137	21,36,37												
YPL092W	3069	25,42	YPL235W	316	12,28,36	YPR086W	858	28												
YPL093W	3298	41	YPL237W	1394	34	YPR088C	1047	35												
YPL094C	1292	33	YPL240C	2082	7,32	YPR095C	1443	43												
YPL096W	1880	33	YPL241C	800	21	YPR101W	281	36,37												
YPL097W	2464	34	YPL242C	672	6,11	YPR102C	2369	34												
YPL104W	2156	34	YPL243W	1055	35	YPR103W	1066	31												
YPL106C	1889	32	YPL244C	2640	42	YPR104C	301	29												
YPL111W	2709	2,25	YPL248C	1190	3,28	YPR106W	2800	41												
YPL115C	1626	6,8	YPL249C-A	2155	34	YPR107C	167	36												
YPL116W	1398	10,33	YPL250C	2535	43	YPR108W	679	31												
YPL117C	1996	16	YPL252C	3255	15	YPR110C	66	27,29												
YPL118W	2244	15,34	YPL253C	278	21	YPR111W	699	5												
YPL119C	594	34,36	YPL254W	803	10,28	YPR112C	518	36												

**Table E:** List of the 113 proteins for which phenotypic information is not available in the SGD database. The list allows one to identify the proteins shown in Fig. 3b. The order is based on the predicted essentiality information (red = essential, green = non-essential, violet = non-essential with growth defect, black = unknown). Data was collated from the YPD database and manually rechecked against the primary literature.

1	YLR419W	Viable	39	YML073C	Viable	77	YAR073W	Viable
2	YFL017W-A	Lethal	40	YHR218W	Untested	78	YDL246C	Untested
3	YPR104C	Viable w/ severe growth reduction	41	YJR094W-A	Viable	79	YHR211W	Untested
4	YHR102W	Lethal	42	YHR001W	Untested	80	YJR158W	Untested
5	YGL190C	Viable	43	YEL059C-A	Viable	81	YAR075W	Untested
6	YJR089W	Lethal	44	YPL249C-A	Untested	82	YJR159W	Untested
7	YGL100W	Viable w/ slower growth	45	YDR012W	Viable	83	YHR216W	Viable
8	YDR499W	Lethal	46	YHL001W	Untested	84	YDR487C	Viable
9	YEL020W-A	Lethal	47	YPR081C	Viable	85	YJL156C	Viable
10	YCR042C	Lethal	48	YNL096C	Viable	86	YJL221C	Untested
11	YJL206C-A	Viable	49	YER015W	Viable	87	YHR055C	Viable
12	YHR099W	Lethal	50	YHR141C	Untested	88	YGR255C	Lethal
13	YJR101W	Viable	51	YPR102C	Lethal	89	YGR289C	Viable
14	YHR090C	Viable w/ abnormal morphology and slower growth	52	YJL012C	Lethal	90	YLR160C	Untested
15	YGL192W	Viable	53	YFL059W	Untested	91	YDL004W	Viable, slower growth rate
16	YHR219W	Untested	54	YJL103C	Viable	92	YCR096C	Viable
17	YHL050C	Untested	55	YFL011W-A	Viable	93	YDR038C	Untested
18	YER190W	Untested	56	YPR011C	Viable	94	YDL247W	Untested
19	YIL177C	Untested	57	YCR040W	Viable	95	YDR040C	Viable
20	YJL225C	Untested	58	YFL057C	Viable	96	YHR175W	Viable
21	YPL283C	Untested	59	YCL067C	Viable	97	YDR039C	Untested
22	YDR545W	Untested	60	YMR165C	Viable	98	YOL157C	Untested
23	YLL066C	Untested	61	YJR156C	Untested	99	YGR292W	Viable
24	YER102W	Viable	62	YFL060C	Viable	100	YCL073C	Untested
25	YDR106W	Untested	63	YFL058W	Untested	101	YJR160C	Untested
26	YGR296W	Untested	64	YHR053C	Viable	102	YDL245C	Untested
27	YLR467W	Untested	65	YLR157C	Untested	103	YPR021C	Viable
28	YJR138W	Viable	66	YJR155W	Viable	104	YJR151C	Untested
29	YLR466W	Untested	67	YDL244W	Untested	105	YMR323W	Untested
30	YHR098C	Viable w/ growth reduction	68	YAL063C	Viable	106	YGR257C	Viable
31	YLL067C	Untested	69	YLR158C	Untested	107	YPL281C	Viable
32	YCR038C	Viable	70	YLR155C	Untested	108	YOR393W	Viable
33	YCR039C	Viable	71	YBR090C-A	Viable	109	YIL171W	Viable
34	YBR122C	Viable	72	YOL165C	Viable	110	YIL170W	Viable
35	YFL066C	Untested	73	YOL140W	Viable	111	YAR071W	Viable
36	YNL284C	Viable	74	YIL172C	Untested	112	YHR215W	Viable
37	YKR035W-A	Viable	75	YGL186C	Viable	113	YNL036W	Viable, unable to grow under aerobic conditions
38	YCL066W	Viable-mating efficiency is reduced	76	YEL069C	Viable			



**Figure A:** Extended version of Figure 3a with functional class information and the name of each gene product. The green-red-white bars correspond to individual genes, each of which is identified below the gene. Above the elongated gene bars the short colored segments identify the functional classes to which the gene product belongs to. More than one segment implies that according to the YPD database the gene product belongs to several functional classes. The color code for each functional class is shown in (b), the number corresponding to Table A. Note that on average essential proteins (separated by our method to the beginning of the list) belong to a larger number of functional classes than non-essential proteins (separated to the end of the list).