

**Table S1:** Transcript length changes in H3 K42A expressing *S. cerevisiae*.

3' Extension Events		3' Truncation Events		5' Extension Events		5' Truncation Events	
ORF	Base-pair Length of 3' Extension	ORF	Base-pair length of 3' Truncation	ORF	Base-pair Length of 5' Extension	ORF	Base-pair Length of 5' Truncation
'YGR244C'	101	'YLR402W'	108	'YJL137C'	127	'YIL004C'	105
'YOL075C'	102	'YNL301C'	109	'YGR138C'	130	'YPL041C'	108
'YBL063W'	104	'YFR005C'	116	'YOL048C'	131	'YLR069C'	120
'YCR097W'	105	'YDR034C-A'	122	'YCR097W'	143	'YOR355W'	123
'YBR240C'	105	'YPR009W'	129	'YML100W-A'	148	'YDR505C'	131
'YDR148C'	105	'YKR074W'	142	'YLR128W'	157	'YGR130C'	131
'YHR058C'	105	'YAL065C'	144	'YIL087C'	179	'YPR016W-A'	140
'YOL043C'	105	'YOR210W'	147	'YJL041W'	193	'YGL133W'	142
'YNL037C'	107	'YOR127W'	149	'YNL146C-A'	196	'YMR241W'	150
'YJL196C'	108	'YGL202W'	156	'YCR060W'	198	'YOL105C'	151
'YOL055C'	109	'YGL201C'	157	'YER119C'	199	'YJR120W'	161
'YLR047C'	112	'YNL047C'	178	'YGR287C'	201	'YPL153C'	164
'YNL286W'	113	'YLR264W'	179	'YLR149C'	201	'YDR435C'	174
'YGL015C'	115	'YML039W'	180	'YPL154C'	201	'YDL055C'	183
'YLL057C'	115	'YGL070C'	181	'YML054C-A'	202	'YDR389W'	190
'YML054C-A'	116	'YPR158W-B'	185	'YHR024C'	203	'YGR156W'	192
'YLR001C'	117	'YNL048W'	190	'YNR037C'	205	'YNL112W'	193
'YGL075C'	121	'YDR366C'	191	'YDR387C'	206	'YKL185W'	199
'YOL156W'	122	'YLR325C'	198	'YLR412C-A'	206	'YGR109W-B'	201
'YDL078C'	122	'YJR158W'	207	'YPL277C'	206	'YIL055C'	207
'YML123C'	122	'YLR448W'	208	'YBR192W'	207	'YJL091C'	212
'YDR294C'	123	'YLR181C'	208	'YLR239C'	208	'YFR012W'	219
'YJL199C'	123	'YLR004C'	211	'YJR103W'	209	'YOL113W'	229
'YMR096W'	124	'YDR316W-B'	212	'YGL134W'	210	'YML061C'	231
'YJL084C'	124	'YHR214C-B'	213	'YMR251W'	210	'YDL117W'	233
'YPR161C'	126	'YGR161C-D'	214	'YPR030W'	210	'YHR181W'	235
'YNL020C'	127	'YPR158C-D'	214	'YHR214C-E'	210	'YMR273C'	235
'YBR035C'	129	'YJL105W'	217	'YAL018C'	211	'YNR016C'	237
'YBR091C'	129	'YLR061W'	217	'YBR210W'	212	'YJL088W'	238
'YDR239C'	130	'YPL021W'	218	'YGR142W'	212	'YIL082W-A'	242
'YBR164C'	131	'YAL028W'	223	'YBL018C'	212	'YIL080W'	243
'YNL252C'	131	'YLR157C-B'	224	'YDR070C'	212	'YLR113W'	243
'YHR200W'	133	'YFL063W'	225	'YAL061W'	213	'YOR267C'	261
'YJR010C-	134	'YAR009C'	225	'YLR327C'	213	'YLR250W'	263

A'							
'YNL173C'	134	'YER138C'	227	'YBR246W'	215	'YGR054W'	278
'YGL240W'	136	'YLR185W'	233	'YLR077W'	215	'YGL020C'	279
'YJL012C'	136	'YJL106W'	244	'YKR005C'	218	'YDL171C'	281
'YKL103C'	136	'YOR351C'	247	'YOR384W'	220	'YGL256W'	285
'YBR125C'	137	'YMR246W'	248	'YBR028C'	220	'YMR039C'	290
'YER088C'	137	'YKL210W'	249	'YJR124C'	220	'YOL023W'	292
'YAL011W'	138	'YPL265W'	251	'YHR175W'	221	'YNL128W'	298
'YDR070C'	138	'YGL170C'	254	'YDR105C'	221	'YDL057W'	306
'YJL074C'	139	'YGR099W'	273	'YJR080C'	221	'YGR134W'	306
'YCL016C'	140	'YJR029W'	296	'YGL015C'	222	'YLR430W'	306
'YDR374C'	140	'YML026C'	297	'YCR086W'	223	'YKR028W'	319
'YLR288C'	140	'YOL158C'	298	'YIR016W'	223	'YLR353W'	328
'YLR077W'	141	'YER043C'	301	'YJL102W'	223	'YGR225W'	332
'YDR516C'	142	'YHR148W'	304	'YOL071W'	223	'YGL033W'	347
'YGL091C'	143	'YJR011C'	315	'YER053C'	224	'YBR055C'	349
'YDR306C'	144	'YHR161C'	316	'YGL227W'	225	'YOR097C'	351
		'YNL284C-					
'YLR304C'	145	B'	317	'YBR032W'	226	'YPR133C'	354
'YKL105C'	148	'YHL021C'	318	'YOR330C'	226	'YPL199C'	357
'YOR185C'	149	'YOR242C'	327	'YFL058W'	231	'YDL114W'	358
'YILO24C'	153	'YEL046C'	332	'YJL106W'	231	'YFL040W'	358
'YMR187C'	153	'YMR244W'	354	'YDL211C'	232	'YKR083C'	361
'YDR258C'	154	'YNL255C'	354	'YHR189W'	233	'YDR130C'	373
						'YER007C-	
'YDL199C'	155	'YKR094C'	359	'YDL199C'	233	A'	376
'YER109C'	155	'YNL302C'	372	'YBL044W'	234	'YDR287W'	379
'YER182W'	156	'YFL011W'	376	'YDR285W'	235	'YDL015C'	384
'YLL039C'	157	'YNL222W'	378	'YKL026C'	237	'YHR144C'	386
'YKL097C'	158	'YKL056C'	382	'YOR185C'	237	'YLR227C'	397
'YDR098C'	159	'YOR360C'	402	'YHR014W'	238	'YGR271W'	405
'YKL148C'	159	'YGL054C'	403	'YOR328W'	238	'YKL110C'	407
'YOL118C'	159	'YCL018W'	418	'YDL021W'	239	'YLR004C'	411
'YJL056C'	160	'YMR056C'	438	'YAR035W'	240	'YNR054C'	412
'YJL024C'	161	'YJR032W'	439	'YDR358W'	241	'YOR233W'	419
'YDR459C'	162	'YMR050C'	441	'YGR256W'	241	'YMR066W'	430
'YKL091C'	163	'YNL069C'	441	'YMR040W'	241	'YGR146C'	431
'YNL274C'	163	'YGL246C'	456	'YDL085W'	243	'YMR201C'	431
						'YKL033W-	
'YDL216C'	165	'YPL094C'	504	'YHR177W'	243	A'	432
'YGR098C'	165	'YGL147C'	513	'YHR087W'	246	'YNR051C'	434
'YIR035C'	165	'YDR174W'	546	'YAL009W'	248	'YDL077C'	444
'YPL025C'	165	'YNL249C'	570	'YJR095W'	249	'YER078C'	444
'YBL030C'	166	'YLR227C'	598	'YDL170W'	253	'YGR240C'	444
'YBR167C'	167	'YLR192C'	606	'YDR511W'	253	'YGR205W'	462
'YBL017C'	170	'YGL146C'	613	'YBL085W'	254	'YJR011C'	470
'YGR066C'	170	'YOL124C'	660	'YBR040W'	255	'YDR160W'	477
				'YJR010C-			
'YPR003C'	170	'YDR309C'	681	A'	255	'YDR322W'	480
'YER119C'	172	'YGL057C'	703	'YBR159W'	257	'YHR015W'	499
'YKL074C'	172	'YLR081W'	707	'YDR472W'	259	'YGR109C'	505
'YBL045C'	173	'YIL063C'	715	'YHR059W'	259	'YIL103W'	515
'YBR011C'	174	'YAL047C'	749	'YHR202W'	259	'YPL110C'	518

'YJL006C'	174	'YBL100W-B'	750	'YFL027C'	260	'YKR016W'	527
'YNL230C'	174	'YLR410W-B'	751	'YNL275W'	261	'YOL001W'	547
'YPR138C'	177	'YDR261W-B'	753	'YDL244W'	263	'YMR010W'	552
'YJL183W'	178	'YML111W'	787	'YCR028C'	263	'YLR387C'	556
'YMR028W'	178	'YOL022C'	810	'YJR091C'	264	'YGR166W'	576
'YOL032W'	178	'YOR359W'	813	'YFL026W'	265	'YPL150W'	579
'YBR093C'	178	'YKR029C'	813	'YDR315C'	267	'YOR370C'	580
'YCR021C'	179	'YKLO25C'	828	'YER096W'	269	'YKR026C'	582
'YDR329C'	180	'YLR117C'	842	'YBL104C'	270	'YNL055C'	584
'YCL044C'	182	'YMR018W'	848	'YDR336W'	272	'YDR062W'	589
'YKLO26C'	182	'YPL112C'	864	'YLR284C'	272	'YNL284C-A'	601
'YPL240C'	182	'YNR062C'	879	'YBL019W'	273	'YGR283C'	602
'YOR059C'	184	'YLR226W'	886	'YJL005W'	274	'YLR240W'	604
'YMR090W'	185	'YGL107C'	892	'YLR382C'	274	'YPR031W'	608
'YGR087C'	185	'YMR275C'	896	'YLR324W'	275	'YMR046C'	617
'YMR026C'	185	'YGR123C'	902	'YPL062W'	275	'YOR079C'	617
'YKR005C'	186	'YLR148W'	904	'YDR286C'	275	'YML106W'	622
'YPR145C-A'	186	'YGR138C'	933	'YIL134C-A'	276	'YDR170W-A'	627
'YJR069C'	190	'YLR196W'	934	'YJR102C'	277	'YHL013C'	642
'YBL051C'	191	'YGR070W'	959	'YMR155W'	279	'YMR281W'	643
'YJL081C'	193	'YGR161W-B'	1012	'YDR128W'	281	'YEL041W'	651
'YGL143C'	194	'YCL019W'	1013	'YAR023C'	281	'YDL089W'	659
'YDR196C'	195	'YFL002W-A'	1016	'YBR105C'	281	'YNL124W'	664
'YNR071C'	195	'YOL136C'	1042	'YKR022C'	281	'YLR403W'	677
'YGL248W'	196	'YGL090W'	1047	'YPL230W'	283	'YPR016C'	682
'YBR103W'	199	'YPL257W-B'	1065	'YJL170C'	283	'YCR032W'	685
'YIL099W'	199	'YGR263C'	1067	'YAL043C'	285	'YJR072C'	689
'YDR453C'	199	'YNL061W'	1104	'YCL016C'	285	'YHR201C'	691
'YNR045W'	200	'YLR291C'	1124	'YNL331C'	286	'YLR373C'	700
'YBL091C-A'	200	'YBR007C'	1125	'YPL103C'	287	'YNL141W'	709
'YER062C'	200	'YGL249W'	1145	'YBR001C'	288	'YNL278W'	722
'YFR029W'	201	'YKR092C'	1197	'YJL163C'	288	'YKLO90W'	740
'YNR040W'	201	'YPL259C'	1219	'YBL093C'	290	'YDL019C'	741
'YAR035W'	202	'YHR211W'	1278	'YHR159W'	291	'YJL039C'	745
'YNL092W'	202	'YAR050W'	1292	'YIL134W'	291	'YGL084C'	749
'YOR358W'	202	'YHR024C'	1311	'YDR344C'	293	'YLR368W'	750
'YKL197C'	202	'YNR050C'	1326	'YJL116C'	293	'YNL074C'	759
'YJR116W'	203	'YGL086W'	1379	'YDL113C'	294	'YNL001W'	763
'YML118W'	203	'YJR134C'	1581	'YLR312C'	294	'YPL194W'	768
'YBR033W'	204	'YKL187C'	1581	'YJL044C'	295	'YDL156W'	796
'YDL080C'	204	'YDR422C'	1599	'YLR136C'	295	'YDR420W'	798
'YHR210C'	204	'YOR192C-B'	1671	'YER157W'	296	'YHR198C'	801
'YGR142W'	205	'YLR373C'	1674	'YMR160W'	296	'YOR043W'	821
'YDR080W'	206	'YBR097W'	1773	'YGL032C'	296	'YLR135W'	825
'YGR100W'	208	'YKLO15W'	2129	'YLR390W'	297	'YML002W'	832

'YLR272C'	208	'YLR397C'	2138	'YPR083W'	298	'YKL191W'	832
'YML070W'	209	'YEL061C'	2181	'YJL092W'	299	'YPL040C'	836
'YDL197C'	209	'YLR222C'	2399	'YDL181W'	300	'YPL112C'	838
'YDR423C'	209	'YBR055C'	2484	'YLR439W'	300	'YPR083W'	839
'YOR268C'	209	'YNL250W'	2502	'YNL145W'	301	'YHR171W'	842
'YJR046W'	210	'YLR309C'	2515	'YPL128C'	301	'YDR369C'	845
'YER164W'	211	'YKL105C'	2579	'YNL210W'	303	'YBL017C'	861
'YJR125C'	211	'YGR162W'	2784	'YPR057W'	303	'YDR380W'	863
'YER150W'	214	'YDR040C'	2862	'YBR019C'	304	'YOL075C'	878
'YKL093W'	214	'YML049C'	3108	'YGR201C'	305	'YKL174C'	893
'YMR085W'	214	'YDR180W'	3278	'YBR218C'	306	'YKL045W'	894
'YPR036W-A'	215	'YMR129W'	3715	'YJR065C'	310	'YLR263W'	898
'YKL191W'	217	'YOL138C'	3916	'YBR087W'	313	'YOL022C'	899
'YBL103C'	218	'YNL271C'	4362	'YJR008W'	313	'YPL190C'	902
'YDR334W'	219	'YBR136W'	5028	'YML021C'	317	'YDR316W'	909
'YJR151C'	219			'YCR007C'	319	'YKL105C'	921
'YLL056C'	219			'YDR490C'	321	'YKL134C'	934
'YPR002W'	220			'YNL008C'	322	'YKL179C'	939
'YNL196C'	220			'YBR106W'	323	'YPR019W'	957
'YOR391C'	220			'YDR405W'	323	'YGR150C'	957
'YAL062W'	221			'YBR195C'	323	'YPL120W'	970
'YHR214C-E'	222			'YDR061W'	324	'YLR449W'	977
'YBL034C'	223			'YDR375C'	326	'YML116W'	987
'YJL129C'	223			'YPL025C'	326	'YOR058C'	988
'YJR091C'	223			'YJL089W'	327	'YPL091W'	989
'YKL164C'	223			'YJL019W'	327	'YOR360C'	998
'YNR067C'	223			'YBR257W'	328	'YPR070W'	1028
'YPR184W'	224			'YFL014W'	328	'YDL239C'	1039
'YBR040W'	225			'YGR194C'	332	'YNL225C'	1049
'YDR061W'	225			'YBL078C'	337	'YMR136W'	1054
'YDR171W'	225			'YBR179C'	338	'YGL059W'	1059
'YGL037C'	225			'YNL282W'	343	'YDR363W'	1060
'YCL048W'	226			'YER033C'	344	'YGR188C'	1061
'YML100W'	226			'YMR041C'	344	'YJL209W'	1062
'YKR049C'	226			'YDR330W'	346	'YDR422C'	1066
'YER037W'	227			'YJR089W'	348	'YLR032W'	1100
				'YNL138W-A'	351	'YPL208W'	1102
'YOL047C'	228			'YIL132C'	351	'YKR069W'	1107
'YOR380W'	229			'YBR161W'	352	'YHR182W'	1112
'YER024W'	232			'YBR241C'	352	'YMR215W'	1112
'YKR097W'	232			'YOR298W'	357	'YGR196C'	1119
'YDR362C'	232			'YJR101W'	359	'YKR061W'	1123
'YDR472W'	233			'YDR173C'	361	'YHR114W'	1126
'YNL234W'	233			'YKL220C'	363	'YMR213W'	1133
'YGR008C'	233			'YDR104C'	366	'YPR105C'	1135
'YHR116W'	234			'YBR295W'	367	'YPL070W'	1145
'YDR113C'	235			'YCL001W-B'	371	'YGR217W'	1202
'YGR256W'	236			'YHR116W'	375	'YOL144W'	1224
'YHL028W'	236			'YBR119W'	376	'YFR023W'	1260
'YLR109W'	237						

'YJL154C'	237	'YBR188C'	376	'YGR013W'	1277
'YGL121C'	238	'YPR116W'	377	'YMR100W'	1289
'YBR160W'	239	'YOR019W'	378	'YAL047C'	1304
'YMR141C'	239	'YJR015W'	379	'YNL088W'	1313
'YGR248W'	240	'YER121W'	383	'YDR484W'	1330
'YPR127W'	240	'YBL079W'	385	'YPR018W'	1335
'YJL047C'	241	'YJL144W'	386	'YKL012W'	1352
'YDR246W-A'	242	'YOL047C'	392	'YOL017W'	1376
'YGL184C'	242	'YLR267W'	395	'YLR143W'	1377
'YGR028W'	243	'YJR122W'	397	'YGL086W'	1397
'YJR108W'	245	'YOR237W'	397	'YMR162C'	1405
'YAR033W'	246	'YAL030W'	398	'YFLO25C'	1411
'YBL039W-B'	246	'YBL088C'	398	'YKL109W'	1420
'YPL280W'	246	'YHR124W'	399	'YPR104C'	1426
'YBR239C'	246	'YFR054C'	399	'YGL083W'	1462
'YDR042C'	247	'YMR265C'	399	'YBL004W'	1467
'YLR035C'	247	'YGR274C'	400	'YER129W'	1483
'YNL138W-A'	250	'YJR162C'	400	'YHR196W'	1486
'YER018C'	250	'YLR176C'	400	'YCR037C'	1492
'YFLO53W'	253	'YDL106C'	401	'YLR427W'	1500
'YNL006W'	253	'YGR008C'	401	'YMR001C'	1529
'YHR173C'	253	'YDL059C'	404	'YJL033W'	1586
'YLL009C'	253	'YGR019W'	405	'YGL060W'	1604
'YHR172W'	255	'YCR067C'	407	'YNL250W'	1629
'YNL333W'	257	'YNL024C-A'	408	'YDR251W'	1631
'YER143W'	260	'YKL066W'	412	'YLR352W'	1636
'YBR153W'	262	'YOL082W'	412	'YFLO23W'	1663
'YLR368W'	262	'YNR062C'	412	'YOL087C'	1666
'YJL104W'	263	'YDL218W'	413	'YFLO34W'	1735
'YCR032W'	264	'YER020W'	413	'YOR080W'	1752
'YDR421W'	264	'YJR153W'	415	'YMR019W'	1758
'YBR001C'	265	'YEL073C'	420	'YKR027W'	1795
'YLR133W'	266	'YBL038W'	421	'YMR247C'	1817
'YMR178W'	266	'YMR084W'	421	'YKR029C'	1852
'YJR094C'	266	'YLR112W'	422	'YDR416W'	1866
'YDR216W'	267	'YLR132C'	422	'YLR115W'	1902
'YCL028W'	268	'YNL018C'	423	'YDL060W'	1938
'YIR020W-A'	268	'YBR120C'	424	'YGL173C'	1942
'YFR020W'	270	'YJL006C'	426	'YGR100W'	1966
'YLR037C'	270	'YNL274C'	426	'YKR099W'	1985
'YPR015C'	270	'YKR103W'	428	'YNL271C'	1992
'YIL006W'	271	'YIR032C'	431	'YKL064W'	2046
'YDR030C'	273	'YER004W'	432	'YNL126W'	2063
'YOR156C'	274	'YKR005C'	434	'YNL242W'	2064
'YOR134W'	277	'YMR206W'	437	'YMR185W'	2094
'YJL137C'	278	'YOR228C'	441	'YHR211W'	2100
'YBR170C'	279	'YBR135W'	442	'YDL195W'	2109
'YGL251C'	279	'YMR087W'	442	'YPL180W'	2142

'YOR313C'	279	'YJR082C'	444	'YJL198W'	2145
'YOR161W-B'	281	'YIL167W'	445	'YGR140W'	2149
'YBR081C'	281	'YLR466C-B'	450	'YMR275C'	2216
'YHR057C'	283	'YBR066C'	452	'YDR089W'	2223
'YER114C'	284	'YMR107W'	453	'YPR135W'	2246
'YPL250C'	285	'YBL040C'	454	'YGR125W'	2251
'YPL249C'	286	'YDR349C'	454	'YLL003W'	2281
'YOR173W'	287	'YGL045W'	461	'YHR120W'	2391
'YGL134W'	288	'YKR019C'	461	'YPR049C'	2416
'YHR071W'	292	'YEL017W'	463	'YLR442C'	2420
'YCR020C'	292	'YDR027C'	464	'YDR301W'	2431
'YDR480W'	293	'YDR544C'	464	'YBR084W'	2488
'YFL059W'	293	'YBL015W'	467	'YOL034W'	2528
'YAR070C'	293	'YPR081C'	467	'YDR097C'	2533
'YEL014C'	295	'YER058W'	471	'YPL183C'	2673
'YER004W'	297	'YJL012C'	471	'YNL192W'	2763
'YBR217W'	298	'YHR161C'	473	'YLR450W'	2775
'YNL299W'	299	'YLL066W-B'	475	'YGL016W'	2859
'YOR020W-A'	300	'YBR187W'	477	'YOR207C'	2891
'YGR291C'	301	'YGR154C'	477	'YMR109W'	2942
'YJL089W'	302	'YGR032W'	478	'YNL087W'	3108
'YJR149W'	302	'YHR157W'	478	'YFL008W'	3188
'YGR156W'	303	'YCR091W'	479	'YDR457W'	3224
'YDL183C'	303	'YBL060W'	481	'YMR176W'	3277
'YGR134W'	305	'YGL023C'	481	'YNL273W'	3309
'YIL087C'	307	'YAL054C'	484	'YMR219W'	3437
'YOR050C'	310	'YGR042W'	487	'YDR334W'	3464
'YBL109W'	311	'YMR063W'	491	'YAR050W'	3484
'YEL059W'	311	'YGL022W'	492	'YOR291W'	3607
'YJR129C'	312	'YER109C'	496	'YOR336W'	3616
'YDR296W'	313	'YBL109W'	502	'YGR090W'	3706
'YGL038C'	313	'YDR265W'	502	'YPR164W'	3745
'YNL269W'	314	'YJR110W'	504	'YML072C'	3835
'YER054C'	314	'YIL113W'	506	'YPL085W'	3895
'YDR132C'	316	'YNL338W'	509	'YOL081W'	4406
'YKR019C'	316	'YJL112W'	511	'YDL140C'	4438
'YDL079C'	317	'YGR250C'	511	'YLR342W'	4558
'YIL062C'	317	'YMR056C'	511	'YIL149C'	4583
'YJR072C'	317	'YMR030W'	513	'YFL007W'	4751
'YBR290W'	318	'YPR064W'	514	'YLR024C'	4915
'YJL037W'	318	'YBR107C'	514	'YIL129C'	5594
'YMR170C'	318	'YOL016C'	515	'YLL040C'	8104
'YKL208W'	320	'YER095W'	519		
'YER104W'	324	'YNL094W'	520		
'YFR054C'	324	'YHR209W'	522		
'YGR002C'	324	'YAL034C'	525		
'YPR093C'	325	'YIL073C'	526		
'YKL069W'	327	'YML028W'	529		
'YLR255C'	327	'YIR003W'	531		

'YLR091W'	329	'YKL121W'	542
'YER115C'	332	'YOR304C-A'	545
'YER033C'	333	'YLR125W'	551
'YJL068C'	334	'YGR066C'	557
'YOL164W-A'	335	'YBR282W'	558
'YPR018W'	335	'YJR048W'	561
'YOR385W'	338	'YGR043C'	565
'YLL003W'	340	'YEL049W'	566
'YDR287W'	343	'YOR020W-A'	566
'YDR317W'	347	'YDR171W'	572
'YBR072W'	350	'YMR170C'	573
'YKL220C'	350	'YNL134C'	574
'YBR199W'	353	'YMR156C'	576
'YHR101C'	354	'YJL048C'	579
'YPR195C'	354	'YKL011C'	580
'YBR294W'	356	'YER145C'	583
'YBR248C'	358	'YMR302C'	587
'YPL040C'	360	'YAR028W'	588
'YIL089W'	368	'YBR162W-A'	588
'YGL006W'	374	'YBR035C'	591
'YDL044C'	374	'YHR083W'	593
'YKL107W'	375	'YBR044C'	593
'YKR005C'	375	'YOR023C'	595
'YER176W'	378	'YBR096W'	600
'YGL183C'	378	'YJR104C'	601
'YOR034C-A'	378	'YDL197C'	602
'YBR220C'	379	'YLR157C'	604
'YGL045W'	380	'YER093C-A'	605
'YOR328W'	380	'YDL138W'	606
'YKL134C'	381	'YBL002W'	607
'YBR219C'	387	'YKL159C'	608
'YOR162C'	390	'YNL034W'	615
'YDR142C'	392	'YGR292W'	617
'YGR140W'	396	'YHL026C'	618
'YHR011W'	398	'YDL245C'	619
'YDR128W'	399	'YBR207W'	621
'YDR273W'	403	'YDL214C'	621
'YMR020W'	403	'YKR020W'	622
'YEL016C'	404	'YIL135C'	626
'YER145C'	404	'YAR033W'	629
'YDR169C-A'	409	'YEL062W'	629
'YER079W'	411	'YGL229C'	637
'YNL338W'	413	'YLR205C'	637
'YBL014C'	414	'YJL183W'	638
'YLR364W'	424	'YBR111C'	642
'YMR004W'	424	'YLR246W'	646
'YMR194C-	427	'YLR259C'	646

A'		'YEL059C-	
'YLR194C'	428	A'	647
'YEL041W'	430	'YJR156C'	647
'YCR024C'	433	'YBR033W'	651
'YPR011C'	433	'YGR275W'	654
'YCR005C'	434	'YBR296C'	654
'YBL025W'	435	'YLL025W'	658
'YNL024C'	437	'YNL160W'	661
'YBL029C-		'YJL133C-	
A'	441	A'	663
'YFL026W'	442	'YLR362W'	671
'YPL247C'	457	'YDR009W'	675
'YNL095C'	460	'YJR161C'	676
'YOR152C'	461	'YPR201W'	677
'YML042W'	465	'YBR132C'	681
'YMR291W'	466	'YDL174C'	681
'YMR169C'	469	'YCR014C'	683
'YKL163W'	471	'YGL136C'	683
'YLR080W'	476	'YGR248W'	687
'YGR051C'	478	'YBR155W'	688
		'YGR296C-	
'YDL076C'	479	B'	688
		'YER190C-	
'YPL077C'	479	B'	689
		'YIL102C-	
'YBR047W'	480	A'	690
'YNL223W'	482	'YGR126W'	692
'YMR156C'	485	'YMR297W'	695
'YCR007C'	487	'YJR158W'	698
'YNL300W'	488	'YBL092W'	705
'YMR319C'	490	'YML128C'	709
'YKR067W'	493	'YBR129C'	710
'YKL011C'	493	'YNR036C'	710
'YBR008C'	496	'YJR141W'	711
		'YOR161W-	
'YBR085W'	497	B'	715
'YCL001W-			
A'	497	'YFL030W'	721
'YCR088W'	498	'YCR010C'	725
'YOL163W'	498	'YFL061W'	727
'YJR084W'	500	'YCR102C'	729
'YKL171W'	502	'YOL060C'	729
'YAR007C'	506	'YPL021W'	739
'YBL108W'	509	'YHL028W'	746
'YER053C'	509	'YMR264W'	747
'YJL097W'	515	'YLL041C'	748
'YGR184C'	517	'YFL020C'	750
'YJR089W'	521	'YKL197C'	750
'YBR243C'	521	'YOR381W'	755
'YJL055W'	526	'YAL044C'	757
'YGR154C'	526	'YKL087C'	758
'YGR112W'	527	'YNL335W'	759
'YJL092W'	528	'YJR106W'	761



'YKL067W'	534	'YBR008C'	761
'YDR009W'	536	'YHR176W'	762
'YJL116C'	536	'YHR016C'	766
'YDR131C'	541	'YBR201W'	768
'YDR078C'	542	'YGR149W'	770
'YBL005W'	544	'YOR394C-A'	771
'YBR196C-B'	550	'YIL136W'	772
'YPR083W'	555	'YLR054C'	783
'YIR039C'	555	'YDR059C'	794
'YIL132C'	558	'YJR119C'	797
'YJL180C'	559	'YBR302C'	800
'YLR111W'	565	'YHR139C'	801
'YIL072W'	580	'YER015W'	804
'YPR192W'	586	'YOR227W'	804
'YER093C-A'	594	'YDL012C'	804
'YIL168W'	600	'YBR201C-A'	812
'YJL014W'	605	'YMR194C-A'	814
'YJR097W'	606	'YML133W-B'	815
'YBR231C'	606	'YLR204W'	819
'YMR057C'	606	'YER062C'	824
'YMR166C'	610	'YDR461W'	828
'YDR065W'	614	'YML132W'	829
'YOL131W'	628	'YHR041C'	837
'YLR125W'	637	'YJL083W'	838
'YBR144C'	639	'YJR034W'	840
'YLR030W'	641	'YLL063C'	846
'YBL019W'	649	'YKR070W'	855
'YGL142C'	649	'YKR102W'	855
'YHR176W'	650	'YPL014W'	856
'YER015W'	656	'YBR284W'	861
'YOR023C'	658	'YHR100C'	863
'YER041W'	666	'YDR004W'	864
'YOR192C'	672	'YEL071W'	864
'YER065C'	683	'YJL046W'	866
'YOR381W-A'	691	'YIR020C'	870
'YOR285W'	693	'YJL153C'	871
'YOR389W'	697	'YDR476C'	876
'YBR263W'	698	'YHR008C'	878
'YOL159C-A'	700	'YMR174C'	880
'YLR326W'	704	'YER075C'	881
'YGR210C'	705	'YJL068C'	887
'YML028W'	711	'YJL187C'	890
'YHR180W'	715	'YBR093C'	895
'YDR253C'	718	'YPR015C'	900
'YER034W'	719	'YLR258W'	904
'YKR017C'	719	'YFL063W'	907

'YBL080C'	721	'YOR173W'	909
'YCR069W'	723	'YER039C-A'	911
'YDR485C'	727	'YOR071C'	915
'YMR198W'	743	'YIL111W'	919
'YAL009W'	746	'YBL043W'	924
'YDR214W'	756	'YDL196W'	930
'YKL012W'	758	'YER035W'	932
'YCL047C'	761	'YGL143C'	940
'YJR152W'	767	'YBR203W'	942
'YKR016W'	767	'YGR236C'	942
'YBL002W'	768	'YHR112C'	948
'YDR066C'	768	'YJL004C'	950
'YDR077W'	770	'YDR379C-A'	956
'YJL184W'	773	'YHL016C'	956
'YGL033W'	778	'YML056C'	956
'YNR037C'	787	'YOR392W'	957
'YBR209W'	801	'YBR007C'	957
'YJR157W'	804	'YMR018W'	959
'YER039C-A'	810	'YHR139C-A'	965
'YMR008C'	811	'YJR073C'	965
'YIL086C'	814	'YJR112W-A'	967
'YBR211C'	820	'YJL100W'	969
'YGR021W'	821	'YBL050W'	971
'YJL139C'	823	'YNR034W-A'	971
'YBR296C-A'	825	'YEL028W'	979
'YJL013C'	826	'YKL038W'	983
'YOR036W'	832	'YBL041W'	984
'YHL041W'	837	'YGR141W'	991
'YJR090C'	838	'YCL067C'	992
'YDL124W'	844	'YMR196W'	994
'YGR052W'	845	'YJR049C'	999
'YKR106W'	852	'YDR380W'	1001
'YAL044C'	855	'YMR096W'	1007
'YNL125C'	856	'YMR034C'	1007
'YGR239C'	866	'YDR461C-A'	1008
'YBR172C'	874	'YJL205C'	1008
'YCR019W'	880	'YGR131W'	1013
'YJR073C'	880	'YBL055C'	1013
'YDR255C'	888	'YJL193W'	1016
'YBR067C'	890	'YER054C'	1018
'YGR237C'	890	'YBR085C-A'	1019
'YJL127C'	896	'YNL073W'	1021
'YDR363W'	899	'YDR436W'	1026
'YJL063C'	904	'YDL048C'	1029
'YBR090C'	908	'YLR161W'	1033
'YPR179C'	912	'YMR202W'	1035

'YFL055W'	924	'YJR006W'	1038
'YBR246W'	925	'YDR124W'	1048
'YGR125W'	925	'YDR460W'	1050
'YBR085C-A'	926	'YER101C'	1050
'YDL109C'	933	'YBR204C'	1053
'YCR075W-A'	937	'YKL086W'	1056
'YLR412C-A'	952	'YEL020C'	1058
'YBR230W-A'	953	'YKL163W'	1062
'YDL242W'	955	'YMR090W'	1062
'YFR047C'	956	'YBR199W'	1069
'YGR139W'	957	'YBR168W'	1070
'YKL106C-A'	969	'YNL002C'	1077
'YLR177W'	995	'YBR163W'	1080
'YHR008C'	995	'YJL096W'	1083
'YPR201W'	996	'YLR426W'	1085
'YBL091C'	998	'YMR250W'	1086
'YDR252W'	1001	'YJL052W'	1087
'YFR012W'	1003	'YBR216C'	1090
'YJR107W'	1003	'YKR053C'	1090
'YBR187W'	1007	'YIL025C'	1091
'YJR101W'	1008	'YKL187C'	1092
'YHR199C'	1011	'YBR279W'	1094
'YEL028W'	1014	'YHR180W'	1104
'YCR023C'	1017	'YJR116W'	1106
'YER185W'	1019	'YIL013C'	1108
'YBR119W'	1024	'YJL143W'	1128
'YBR182C'	1030	'YOR084W'	1129
'YGL241W'	1042	'YOL159C-A'	1139
'YJL127W-A'	1042	'YPR196W'	1153
'YNL160W'	1047	'YEL011W'	1157
'YGR232W'	1064	'YLR423C'	1161
'YBR094W'	1073	'YBR145W'	1166
'YBL100W-C'	1075	'YGR132C'	1168
'YIL112W'	1078	'YJL171C'	1168
'YJL058C'	1078	'YBR003W'	1171
'YBR027C'	1089	'YJL127C'	1171
'YJL140W'	1092	'YJL201W'	1182
'YPR155C'	1097	'YDR169C-A'	1185
'YER038C'	1099	'YIL012W'	1188
'YBR021W'	1100	'YLR193C'	1188
'YBR130C'	1105	'YCL033C'	1198
'YKR103W'	1109	'YBR006W'	1200
'YOL047C'	1119	'YBR211C'	1203
'YPL277C'	1120	'YOL116W'	1206
'YGR138C'	1125	'YFL042C'	1206
'YBR155W'	1127	'YOR032C'	1214

'YJL161W'	1136	'YJR129C'	1223
'YOR228C'	1136	'YJR021C'	1224
'YOR387C'	1140	'YJL042W'	1227
'YBL086C'	1141	'YBR016W'	1238
'YBR054W'	1143	'YBL026W'	1246
'YAL034C'	1144	'YHR113W'	1250
'YMR068W'	1152	'YBR136W'	1256
'YER078W-A'	1153	'YCR039C'	1272
'YPR152C'	1158	'YPR084W'	1279
'YBR282W'	1162	'YLR424W'	1285
'YJR103W'	1166	'YLR133W'	1293
'YOL073C'	1168	'YBR255C-A'	1301
'YDR461C-A'	1176	'YDL123W'	1302
'YBR258C'	1177	'YJL071W'	1303
'YFL030W'	1180	'YIR038C'	1308
'YJL132W'	1180	'YBR036C'	1312
'YBR166C'	1181	'YEL060C'	1318
'YBR096W'	1187	'YCR022C'	1321
'YBR152W'	1205	'YBL101C'	1322
'YCR075C'	1206	'YCR075C'	1324
'YPL006W'	1210	'YDL183C'	1324
'YCR102C'	1217	'YBR243C'	1326
'YDR215C'	1218	'YBR046C'	1329
'YLR258W'	1221	'YGR291C'	1337
'YBR056W'	1224	'YBR298C-A'	1338
'YBR197C'	1227	'YER040W'	1342
'YBL041W'	1231	'YOR037W'	1348
'YOR388C'	1232	'YMR319C'	1349
'YER103W'	1235	'YJL060W'	1359
'YEL073C'	1242	'YBR197C'	1383
'YDL238C'	1249	'YJL161W'	1389
'YBL044W'	1251	'YPR160C-A'	1401
'YBR003W'	1257	'YFR018C'	1425
'YBR283C'	1261	'YER104W'	1431
'YFL042C'	1261	'YBL037W'	1443
'YDL013W'	1264	'YBR059C'	1450
'YFR018C'	1266	'YHR105W'	1455
'YBL001C'	1267	'YLR097C'	1461
'YLR205C'	1273	'YMR020W'	1463
'YBR057C'	1278	'YMR095C'	1466
'YJR102C'	1282	'YBR065C'	1473
'YPL164C'	1288	'YOL164W'	1476
'YIL134C-A'	1289	'YKL151C'	1480
'YGR247W'	1294	'YLR174W'	1488
'YBR201W'	1297	'YBR208C'	1491
'YBL079W'	1301	'YFL041W-A'	1492
'YLL040C'	1301	'YBR053C'	1494

'YCR011C'	1304	'YLR124W'	1506
'YBL026W'	1315	'YJR035W'	1512
'YKR069W'	1324	'YKR077W'	1518
'YHR105W'	1330	'YNL334C'	1544
'YEL060C'	1330	'YJL172W'	1547
'YKL045W'	1338	'YJL056C'	1547
'YNL218W'	1354	'YGR113W'	1550
'YBR043C'	1355	'YPL098C'	1555
'YJR085C'	1373	'YGR238C'	1560
'YBR006W'	1375	'YDR123C'	1563
'YBR120C'	1376	'YBR230C'	1573
'YLR440C'	1377	'YER042W'	1576
'YPR160C-A'	1387	'YFL060C'	1583
'YLR178C'	1391	'YMR017W'	1590
'YGL133W'	1395	'YHR199C'	1596
'YMR155W'	1398	'YDR237W'	1606
'YBR016W'	1415	'YJR021C'	1620
'YDR484W'	1416	'YJR050W'	1643
'YJR115W'	1416	'YJR159W'	1644
'YLR135W'	1426	'YHL037C'	1645
'YIR028W'	1429	'YJL146W'	1649
'YJR112W-A'	1431	'YJL055W'	1655
'YBL085W'	1432	'YMR035W'	1657
'YBR157C'	1433	'YJR074W'	1660
'YGR043C'	1446	'YJR135W-A'	1661
'YOR393W'	1449	'YJR096W'	1671
'YJL133C-A'	1450	'YIL046W-A'	1676
'YJR135W-A'	1455	'YJR152W'	1694
'YBL015W'	1457	'YBR140C'	1697
'YNL331C'	1457	'YDL243C'	1701
'YBR107C'	1458	'YHR210C'	1708
'YMR157C'	1462	'YBR289W'	1715
'YBR165W'	1469	'YPL278C'	1719
'YBL093C'	1470	'YDR462W'	1725
'YBL032W'	1479	'YMR069W'	1726
'YGR213C'	1479	'YHR017W'	1728
'YLR218C'	1480	'YKR097W'	1738
'YFL060C'	1483	'YHL041W'	1739
'YOR363C'	1484	'YBR091C'	1745
'YCL039W'	1487	'YJL047C'	1750
'YDR461W'	1488	'YNL305C'	1824
'YBR289W'	1490	'YKL150W'	1829
'YJR096W'	1494	'YAL046C'	1834
'YGR287C'	1501	'YDR391C'	1835
'YEL074W'	1509	'YDL246C'	1837
'YJL170C'	1511	'YBL097W'	1844
'YNL334C'	1515	'YBL075C'	1852
'YIL171W'	1518	'YCR069W'	1853

'YDL012C'	1526	'YMR168C'	1862
'YBR188C'	1528	'YJR005C-A'	1865
'YJR130C'	1530	'YBL047C'	1866
'YER019C-A'	1531	'YBR027C'	1866
'YBL102W'	1534	'YCL032W'	1868
'YDR314C'	1534	'YJL062W-A'	1868
'YKL195W'	1548	'YMR323W'	1885
'YBR055C'	1552	'YBL021C'	1885
'YML029W'	1561	'YCL025C'	1887
'YHR040W'	1562	'YBR030W'	1888
'YBR286W'	1583	'YNL269W'	1896
'YMR084W'	1587	'YDR475C'	1909
'YMR122W-A'	1588	'YJR135C'	1911
'YAR028W'	1589	'YAL060W'	1920
'YBR104W'	1594	'YBL025W'	1922
'YGR153W'	1600	'YBR287W'	1938
'YAL043C'	1600	'YOR393W'	1951
'YPR154W'	1605	'YBL100W-C'	1958
'YFL057C'	1607	'YBR157C'	1962
'YLR327C'	1612	'YPL281C'	1976
'YLR173W'	1622	'YBR213W'	1978
'YBR247C'	1628	'YPL248C'	1981
'YJL071W'	1634	'YNR068C'	1989
'YDL243C'	1636	'YNL116W'	2009
'YBR193C'	1637	'YIL046W'	2018
'YOR227W'	1653	'YCL039W'	2039
'YNR069C'	1653	'YJR151C'	2062
'YMR323W'	1655	'YLR155C'	2075
'YBR069C'	1659	'YJR053W'	2097
'YBR052C'	1668	'YER144C'	2100
'YBL078C'	1669	'YBR298C'	2119
'YJL078C'	1676	'YBR067C'	2123
'YBR255W'	1678	'YJL052C-A'	2126
'YNL332W'	1680	'YBR293W'	2129
'YAL061W'	1691	'YBR198C'	2133
'YLR136C'	1695	'YDR223W'	2140
'YJL117W'	1700	'YBR245C'	2140
'YLR204W'	1709	'YBR185C'	2147
'YGR042W'	1710	'YCR075W-A'	2148
'YBR037C'	1733	'YBL036C'	2168
'YNL012W'	1738	'YBR102C'	2192
'YMR278W'	1739	'YBR126C'	2194
'YJL035C'	1740	'YBL064C'	2201
'YJL047C-A'	1741	'YBR095C'	2202
'YNL093W'	1745	'YBR026C'	2203
'YCL034W'	1758	'YIR028W'	2210

'YHR138C'	1770	'YNR057C'	2211
'YLL062C'	1770	'YBL084C'	2212
'YNL034W'	1779	'YPL099C'	2214
'YBR194W'	1796	'YGR231C'	2230
'YEL017W'	1801	'YAL049C'	2231
'YDR003W-A'	1803	'YBL102W'	2241
'YBR106W'	1820	'YJL147C'	2245
'YPR128C'	1820	'YLL059C'	2247
'YGR257C'	1822	'YBR029C'	2269
'YFL025C'	1830	'YBR229C'	2294
'YBL081W'	1839	'YJL058C'	2316
'YBR126C'	1843	'YIL154C'	2325
'YBL040C'	1849	'YEL029C'	2347
'YDL057W'	1857	'YLR203C'	2354
'YGR132C'	1876	'YDR403W'	2374
'YNL117W'	1889	'YBR262C'	2394
'YBR019C'	1908	'YBR021W'	2409
'YJL005W'	1913	'YJL094C'	2416
'YMR279C'	1917	'YBR122C'	2417
'YBL018C'	1918	'YJR160C'	2429
'YKR054C'	1919	'YLR361C-A'	2432
'YEL019C'	1922	'YBR193C'	2452
'YIR032C'	1925	'YBL090W'	2460
'YGL005C'	1932	'YJL164C'	2464
'YJR035W'	1943	'YBR108W'	2487
'YFL029C'	1945	'YDL247W'	2508
'YDR003W'	1953	'YBL049W'	2528
'YCR068W'	1958	'YBR251W'	2541
'YDR387C'	1958	'YFL059W'	2545
'YJR112W'	1964	'YBL087C'	2547
'YJR155W'	1972	'YBR212W'	2548
'YBR071W'	1978	'YJL054W'	2563
'YPL281C'	1983	'YBR240C'	2565
'YBR077C'	1984	'YJL035C'	2572
'YBL021C'	1988	'YNL333W'	2574
'YOL160W'	1990	'YFL053W'	2578
'YJR052W'	1992	'YBL029C-A'	2585
'YGR233C'	1997	'YBR194W'	2593
'YDR460W'	1998	'YHR200W'	2600
'YJR104C'	2004	'YBR244W'	2602
'YNR057C'	2020	'YIL101C'	2602
'YOR172W'	2042	'YIL099W'	2603
'YDR386W'	2045	'YJL051W'	2603
'YCR015C'	2047	'YBR196C-B'	2609
'YJL091C'	2050	'YER154W'	2616
'YJL094C'	2063	'YKR067W'	2625
'YHR199C-A'	2092	'YBR077C'	2645
'YFL056C'	2095	'YBR146W'	2664

'YBR227C'	2102	'YFL054C'	2664
'YNL018C'	2105	'YLR156W'	2693
'YJL160C'	2106	'YBL022C'	2704
'YBL097W'	2113	'YER184C'	2704
'YBR186W'	2123	'YBR043C'	2706
'YBR198C'	2151	'YBL020W'	2729
'YBR208C'	2178	'YBR299W'	2736
'YBR135W'	2179	'YBL103C'	2744
'YBR162W-A'	2194	'YBR045C'	2748
'YDR331W'	2199	'YOR192C'	2749
'YIR037W'	2202	'YJL063C'	2773
'YBR241C'	2204	'YNL093W'	2777
'YBL098W'	2205	'YBR268W'	2811
'YHR009C'	2215	'YBR236C'	2815
'YMR007W'	2217	'YJL034W'	2818
'YEL029C'	2225	'YJL212C'	2818
'YCR073W-A'	2229	'YIL171W'	2837
'YML041C'	2229	'YJR134C'	2837
'YBR274W'	2253	'YOL156W'	2871
'YBR095C'	2261	'YJR097W'	2889
'YJL062W-A'	2268	'YBR052C'	2893
'YBR046C'	2287	'YBR261C'	2904
'YNL335W'	2291	'YPL274W'	2917
'YDR010C'	2292	'YBR002C'	2919
'YBR110W'	2294	'YBR280C'	2931
'YIL016W'	2294	'YHR178W'	2951
'YJR021C'	2295	'YJL173C'	2952
'YMR019W'	2301	'YNR058W'	2955
'YDR235W'	2309	'YNL019C'	2967
'YJR106W'	2315	'YJR079W'	2988
'YBR061C'	2329	'YBL048W'	2999
'YIL154C'	2329	'YDL242W'	3018
'YFL061W'	2330	'YBR214W'	3025
'YIL046W'	2331	'YBR196C-A'	3066
'YLR290C'	2340	'YBR222C'	3066
'YHR104W'	2348	'YOR032W-A'	3067
'YBR210W'	2357	'YBR156C'	3072
'YBR200W-A'	2362	'YAR020C'	3078
'YJR080C'	2367	'YJR046W'	3083
'YGR131W'	2370	'YBR070C'	3090
'YDR222W'	2377	'YJL126W'	3099
'YLR380W'	2378	'YBL033C'	3115
'YBR168W'	2402	'YJR058C'	3122
'YBR298C-A'	2420	'YBR018C'	3129
'YNL126W'	2425	'YNL033W'	3137
'YPR007C'	2457	'YBL059W'	3143
'YHR175W-	2470	'YIL170W'	3169



A'			
'YBR151W'	2478	'YGR133W'	3183
'YOL164W'	2488	'YBL089W'	3209
'YBR203W'	2492	'YBL068W'	3217
'YBR221C'	2537	'YJR107W'	3264
'YJL100W'	2541	'YJL078C'	3292
'YJL155C'	2542	'YIL016W'	3381
'YHL042W'	2559	'YJR154W'	3384
'YER163C'	2559	'YLL060C'	3388
'YJL205C'	2559	'YBR233W-	
'YJL061W'	2583	A'	3404
'YNL159C'	2594	'YBL013W'	3406
'YBR280C'	2621	'YKRO66C'	3444
'YJL019W'	2623	'YBL059W'	3498
'YBR053C'	2623	'YBR109W-	
'YLL059C'	2643	A'	3498
'YKR096W'	2649	'YIL153W'	3546
'YBL056W'	2674	'YLR237W'	3599
'YBL059C-		'YBR047W'	3613
A'	2674	'YJL072C'	3628
'YBR295W'	2677	'YBR183W'	3639
'YLR055C'	2704	'YJR077C'	3647
'YAR027W'	2708	'YOR389W'	3652
'YBR004C'	2728	'YJL127C-	
'YAR023C'	2732	B'	3682
'YBR242W'	2733	'YBR078W'	3691
'YBR058C'	2757	'YEL061C'	3734
'YEL012W'	2758	'YBR110W'	3762
'YJR095W'	2796	'YBR252W'	3762
'YBR109C'	2809	'YNL092W'	3780
'YOR031W'	2867	'YOR391C'	3780
'YGR041W'	2871	'YBR260C'	3795
'YBR182C-		'YBR228W'	3843
A'	2885	'YOR388C'	3861
'YNL094W'	2901	'YBL105C'	3867
'YJL057C'	2954	'YPL005W'	3895
'YJL143W'	2976	'YBR221W-	
'YJR021C'	3004	A'	3922
'YMR315W-		'YEL059W'	3936
A'	3019	'YJL213W'	3938
'YBR132C'	3032	'YBR254C'	3955
'YDL244W'	3041	'YBR150C'	3963
'YJL204C'	3049	'YMR322C'	3977
'YBR032W'	3086	'YBR147W'	3979
'YBL101C'	3089	'YBL058W'	3986
'YBL037W'	3102	'YBR273C'	4059
'YAL051W'	3119	'YBR167C'	4124
'YJL070C'	3142	'YBR109C'	4153
'YBR195C'	3169	'YIR027C'	4162
'YBR184W'	3172	'YJL165C'	4162
		'YFL056C'	4173

'YBR073W'	3219	'YKR104W'	4184
'YMR021C'	3251	'YBR125C'	4206
'YBR261C'	3264	'YILO15W'	4269
'YOR392W'	3313	'YFLO55W'	4306
'YBR005W'	3331	'YPL280W'	4313
'YBR215W'	3373	'YBR294W'	4358
'YJR154W'	3419	'YOR394W'	4393
'YBR192W'	3420	'YBL057C'	4398
'YBR173C'	3450	'YBR288C'	4411
'YLR259C'	3472	'YBL034C'	4419
'YJLO36W'	3477	'YPL282C'	4419
'YBR062C'	3518	'YBR253W'	4421
'YBL084C'	3547	'YMR325W'	4438
'YJR057W'	3585	'YIRO29W'	4549
'YDR268W'	3594	'YBL007C'	4578
'YBL047C'	3595	'YBR069C'	4591
'YJR098C'	3662	'YJR108W'	4637
'YDL222C'	3663	'YBR290W'	4639
'YBR269C'	3672	'YBR062C'	4649
'YBR109W-A'	3683	'YBR263W'	4696
'YEL059C-A'	3684	'YBR022W'	4704
'YJLO04C'	3697	'YKR065C'	4750
'YBR293W'	3740	'YJLO03W'	4752
'YHR177W'	3770	'YBR101C'	4822
'YDL247W'	3779	'YFLO57C'	4841
'YBR044C'	3816	'YBR184W'	4887
'YML100W-A'	3835	'YJR044C'	4887
'YBR020W'	3837	'YIL152W'	4893
'YBR234C'	3865	'YOL163W'	4897
'YJL144W'	3880	'YJR155W'	5005
'YJR024C'	3970	'YBR042C'	5042
'YJLO59W'	3999	'YBR215W'	5063
'YMR324C'	3999	'YBR058C-A'	5071
'YBR204C'	4028	'YBR221C'	5164
'YMR195W'	4100	'YBR137W'	5175
'YBR222C'	4104	'YBR130C'	5254
'YBR262C'	4152	'YBR148W'	5280
'YBR127C'	4207	'YBR235W'	5328
'YBR101C'	4226	'YBR061C'	5432
'YBR235W'	4245	'YBR176W'	5444
'YBR270C'	4273	'YBR071W'	5496
'YBR070C'	4306	'YBR255W'	5607
'YBR296C'	4316	'YBR058C'	5620
'YJLO73W'	4372	'YBR272C'	5627
'YILO46W-A'	4431	'YJR033C'	6104
'YBL105C'	4509	'YBL056W'	6312
'YBR253W'	4583	'YBR271W'	6364
'YJLO43W'	4605	'YBR227C'	6381

'YJL214W'	4607	'YBR182C-A'	6551
'YBL088C'	4654	'YBL032W'	6559
'YBL036C'	4681	'YBR220C'	6740
'YJR105W'	4727	'YBR292C'	7096
'YBR221W-A'	4775	'YBR072W'	7115
'YBR176W'	4794	'YBR111W-A'	7180
'YBR281C'	4807	'YBR182C'	7242
'YBR108W'	4850	'YBR173C'	7280
'YBR229C'	4887	'YBR068C'	7334
'YBR254C'	4887	'YBR149W'	7391
'YJL093C'	4979	'YBL059C-A'	7423
'YBL033C'	5031	'YBL067C'	7475
'YBR279W'	5034	'YBL106C'	7684
'YKR068C'	5035	'YBR139W'	7795
'YBR183W'	5041	'YBR234C'	7916
'YBL058W'	5135	'YBR209W'	8058
'YBR252W'	5164	'YBR186W'	8077
'YJL095W'	5167	'YBR172C'	8080
'YDL246C'	5206	'YBR103W'	8114
'YBR228W'	5288	'YBR219C'	8114
'YBL057C'	5350	'YBL046W'	8124
'YBR058C-A'	5409	'YBL063W'	8200
'YBR102C'	5467	'YBR057C'	8344
'YJR034W'	5546	'YBL009W'	8544
'YFL058W'	5653	'YBR230W-A'	8892
'YBR214W'	5692	'YBR270C'	9032
'YBR291C'	5721	'YBL051C'	9147
'YBL035C'	5727	'YBL054W'	10139
'YBR138C'	5893	'YBL008W-A'	10759
'YBR251W'	5905	'YBR269C'	10854
'YBR059C'	5946	'YBL008W'	11003
'YBR259W'	5981	'YBL107C'	11012
'YBR111C'	6068	'YBR274W'	11106
'YBR065C'	6126	'YBL091C'	11152
'YJR156C'	6174	'YBR231C'	11418
'YBR264C'	6202	'YBR151W'	12432
'YBL048W'	6296	'YBL091C-A'	12722
'YJR153W'	6343	'YBR138C'	12989
'YBL038W'	6503	'YBR152W'	13780
'YBL059W'	6599	'YBL010C'	13995
'YBR185C'	6647	'YBR153W'	14864
'YBL049W'	6662	'YBR144C'	14907
'YBL064C'	6685	'YBL005W'	18820
'YBL059W'	6964	'YBL014C'	19196
'YBR207W'	7158		
'YBR216C'	7186		

'YBR271W'	7319
'YBR149W'	7435
'YBL010C'	7457
'YBR213W'	7498
'YBR066C'	7579
'YBR250W'	7614
'YBR255C- A'	7769
'YBL050W'	7787
'YBL060W'	7848
'YBR272C'	7873
'YBR230C'	8079
'YBL055C'	8123
'YBR097W'	8200
'YBR179C'	8271
'YBL104C'	8445
'YBR150C'	8613
'YBR148W'	8751
'YBL008W'	8769
'YBR212W'	8786
'YBR236C'	8810
'YBL089W'	8827
'YBR233W- A'	9247
'YBR140C'	9481
'YBR273C'	9573
'YBR103C- A'	9725
'YBR060C'	9737
'YBL090W'	10422
'YBR171W'	10468
'YBR147W'	10991
'YBR139W'	11135
'YBL008W- A'	11296
'YBL009W'	11720
'YBR268W'	11814
'YBR146W'	12360
'YBR275C'	12868
'YBR145W'	13639
'YBR265W'	13886
'YBL007C'	13982
'YBR137W'	14742
'YBR136W'	15551
'YBL013W'	17683