

Table 3. On left, SSL interactions used in cross-validation and in training for experimental validation.
On right, query genes and array genes used to test SSL interaction.

Gene 1 of SSL pair			Gene 2 of SSL pair			Query gene			Array gene		
SGD name	Y name	ORF name	SGD name	Y name	ORF name	SGD name	Y name	ORF name	SGD name	Y name	ORF name
S0001234	YHR191C	CTF8	S0004022	YLR032W	RAD5	S0005929	YPL008W	CHL1	S0000196	YBL100C	
S0000120	YBL024W	NCL1	S0000729	YEL003W	GIM4	S0004876	YMR263W	SAP30	S0000197	YBL101C	ECM21
S0001052	YHR010W	RPL27A	S0005194	YNL250W	RAD50	S0004047	YLR057W		S0000198	YBL102W	SFT2
S0004029	YLR039C	RIC1	S0005240	YNL296W		S0000556	YCL051W	LRE1	S0000199	YBL103C	RTG3
S0002723	YDR315C	IPK1	S0005136	YNL192W	CHS1	S0000809	YER007W	PAC2	S0005420	YOL059W	GPD2
S0000885	YER083C		S0004876	YMR263W	SAP30	S0006115	YPL194W	DDC1	S0005421	YOL060C	
S0004029	YLR039C	RIC1	S0005241	YNL297C		S0005136	YNL192W	CHS1	S0005422	YOL061W	PRS5
S0003818	YJR057W	CDC8	S0005243	YNL299W		S0004334	YLR342W	FKS1	S0005423	YOL062C	APM4
S0004029	YLR039C	RIC1	S0005243	YNL299W		S0000011	YAL013W	DEP1	S0005424	YOL063C	
S0004194	YLR204W	QRI5	S0004410	YLR418C	CDC73	S0002625	YDR217C	RAD9	S0006080	YPL159C	
S0005136	YNL192W	CHS1	S0006113	YPL192C	PRM3	S0003710	YJL174W	KRE9	S0005425	YOL064C	MET22
S0000022	YAL024C	LTE1	S0004219	YLR229C	CDC42	S0005242	YNL298W	CLA4	S0006082	YPL161C	BEM4
S0004334	YLR342W	FKS1	S0006082	YPL161C	BEM4	S0004190	YLR200W	YKE2	S0005426	YOL065C	INP54
S0000787	YEL061C	CIN8	S0003420	YGR188C	BUB1	S0003461	YGR229C	SMI1	S0006083	YPL162C	
S0000009	YAL011W		S0004593	YML124C	TUB3	S0002557	YDR150W	NUM1	S0005428	YOL067C	RTG1
S0004093	YLR103C	CDC45	S0004776	YMR166C		S0004802	YMR190C	SGS1	S0006084	YPL163C	SVS1
S0005136	YNL192W	CHS1	S0005172	YNL228W		S0000302	YBR100W	SLX2	S0005429	YOL068C	HST1
S0005136	YNL192W	CHS1	S0005175	YNL231C	PDR16	S0005177	YNL233W	BNI4	S0006085	YPL164C	
S0004324	YLR332W	MID2	S0004330	YLR338W		S0002771	YDR363W	ESC2	S0006086	YPL165C	
S0003493	YGR261C	APL6	S0004029	YLR039C	RIC1	S0005429	YOL068C	HST1	S0006087	YPL166W	
S0000398	YBR194W		S0004410	YLR418C	CDC73	S0006190	YPL269W	KAR9	S0006088	YPL167C	REV3
S0003310	YGR078C	PAC10	S0004075	YLR085C	ARP6	S0000054	YAL058W	CNE1	S0006089	YPL168W	
S0005136	YNL192W	CHS1	S0005179	YNL235C		S0003398	YGR166W	KRE11	S0002882	YDR474C	
S0004324	YLR332W	MID2	S0004334	YLR342W	FKS1	S0006339	YPR135W	CTF4	S0002883	YDR475C	
S0001171	YHR129C	ARP1	S0004365	YLR373C	VID2	S0004914	YMR299C		S0002884	YDR476C	
S0000245	YBR041W	FAT1	S0003461	YGR229C	SMI1	S0004559	YML094W	GIM5	S0002885	YDR477W	SNF1
S0005215	YNL271C	BNI1	S0005986	YPL065W	VPS28	S0001072	YHR030C	SLT2	S0002887	YDR479C	
S0004914	YMR299C		S0006162	YPL241C	CIN2	S0004593	YML124C	TUB3	S0002888	YDR480W	DIG2
S0003310	YGR078C	PAC10	S0004079	YLR089C		S0000521	YCL016C	DCC1	S0002889	YDR481C	PHO8
S0003704	YJL168C	SET2	S0004876	YMR263W	SAP30	S0002161	YDL003W	SCC1	S0005431	YOL070C	
S0002556	YDR149C		S0005853	YOR326W	MYO2	S0000097	YBL001C	ECM15	S0005432	YOL071W	
S0003659	YJL123C		S0004252	YLR262C	YPT6	S0001184	YHR142W	CHS7	S0005433	YOL072W	THP1
S0000435	YBR231C	AOR1	S0000729	YEL003W	GIM4	S0005791	YOR265W	RBL2	S0005435	YOL075C	
S0000213	YBR009C	HHF1	S0002740	YDR332W		S0004410	YLR418C	CDC73	S0006091	YPL170W	
S0004612	YMR010W		S0004651	YMR048W	CSM3	S0005972	YPL051W	ARL3	S0005436	YOL076W	1-Dec
S0000521	YCL016C	DCC1	S0000966	YER164W	CHD1	S0005795	YOR269W	PAC1	S0006092	YPL171C	OYE3
S0001015	YHL023C		S0004093	YLR103C	CDC45	S0005215	YNL271C	BNI1	S0006093	YPL172C	COX10

S0000298	YBR094W		S0005241	YNL297C		S0000566	YCL061C	MRC1	S0006094	YPL173W	MRPL40
S0001738	YKR030W		S0004029	YLR039C	RIC1	S0000818	YER016W	BIM1	S0005439	YOL079W	
S0005595	YOR069W	VPS5	S0005972	YPL051W	ARL3	S0003184	YGL216W	KIP3	S0006095	YPL174C	NIP100
S0001234	YHR191C	CTF8	S0003095	YGL127C	SOH1	S0005217	YNL273W	TOF1	S0006097	YPL176C	
S0003816	YJR055W	HIT1	S0005136	YNL192W	CHS1	S0002384	YDL225W	SHS1	S0002890	YDR482C	
S0000729	YEL003W	GIM4	S0005552	YOR026W	BUB3	S0002740	YDR332W		S0006098	YPL177C	
S0002742	YDR334W		S0004190	YLR200W	YKE2	S0004093	YLR103C	CDC45	S0006099	YPL178W	CBC2
S0004559	YML094W	GIM5	S0005742	YOR216C	RUD3	S0002459	YDR052C	DBF4	S0002891	YDR483W	KRE2
S0002728	YDR320C		S0004252	YLR262C	YPT6	S0001762	YKR054C	DYN1	S0002892	YDR484W	SAC2
S0005097	YNL153C	GIM3	S0005552	YOR026W	BUB3	S0006162	YPL241C	CIN2	S0002893	YDR485C	
S0003675	YJL139C	YUR1	S0005266	YNL322C	KRE1	S0004276	YLR286C	CTS1	S0002894	YDR486C	
S0001383	YIL121W		S0002207	YDL049C	KNH1	S0003831	YJR070C	LIA1	S0002896	YDR488C	PAC11
S0004140	YLR150W	MPT4	S0006339	YPR135W	CTF4	S0000787	YEL061C	CIN8	S0002898	YDR490C	PKH1
S0004410	YLR418C	CDC73	S0005527	YOR001W	RRP6	S0002569	YDR162C	NBP2	S0002899	YDR491C	
S0001023	YHL031C	GOS1	S0004410	YLR418C	CDC73	S0006345	YPR141C	KAR3	S0005440	YOL080C	REX4
S0004190	YLR200W	YKE2	S0005929	YPL008W	CHL1	S0006095	YPL174C	NIP100	S0005441	YOL081W	
S0003187	YGL219C		S0003398	YGR166W	KRE11	S0005366	YOL006C	TOP1	S0005442	YOL082W	CVT19
S0004651	YMR048W	CSM3	S0005895	YOR368W	RAD17	S0003836	YJR075W	HOC1	S0002100	YHR039C-B	VMA10
S0000521	YCL016C	DCC1	S0001915	YFR019W	FAB1	S0004494	YML032C	RAD52	S0005443	YOL083W	
S0000916	YER114C	BOI2	S0006095	YPL174C	NIP100	S0001224	YHR181W	SVP26	S0005444	YOL084W	
S0003962	YLL039C	UBI4	S0004322	YLR330W	CHS5	S0004924	YMR307W	GAS1	S0005445	YOL085C	
S0001915	YFR019W	FAB1	S0004559	YML094W	GIM5	S0004746	YMR138W	CIN4	S0005446	YOL086C	ADH1
S0001490	YKL007W	CAP1	S0002557	YDR150W	NUM1	S0000602	YCR009C	RVS161	S0002103	YEL017C-A	
S0002569	YDR162C	NBP2	S0004200	YLR210W	CLB4	S0002207	YDL049C	KNH1	S0005447	YOL087C	
S0000818	YER016W	BIM1	S0005721	YOR195W	SLK19	S0004200	YLR210W	CLB4	S0002104	YFR031C-A	RPL2A
S0000404	YBR200W	BEM1	S0004478	YML016C	PPZ1	S0005584	YOR058C	ASE1	S0005448	YOL088C	MPD2
S0004363	YLR371W	ROM2	S0004924	YMR307W	GAS1	S0002896	YDR488C	PAC11	S0005449	YOL089C	
S0000916	YER114C	BOI2	S0002896	YDR488C	PAC11	S0000534	YCL029C	BIK1	S0005450	YOL090W	MSH2
S0002556	YDR149C		S0003184	YGL216W	KIP3	S0004029	YLR039C	RIC1	S0005451	YOL091W	SPO21
S0004029	YLR039C	RIC1	S0004606	YMR004W	MVP1	S0002175	YDL017W	CDC7	S0005452	YOL092W	
S0002556	YDR149C		S0003185	YGL217C		S0005042	YNL098C	RAS2	S0005453	YOL093W	
S0004311	YLR319C	BUD6	S0005215	YNL271C	BNI1	S0001197	YHR154W	RTT107	S0005455	YOL095C	HMI1
S0002569	YDR162C	NBP2	S0004206	YLR216C	CPR6	S0003264	YGR032W	GSC2	S0005456	YOL096C	COQ3
S0003660	YJL124C	LSM1	S0004410	YLR418C	CDC73	S0003516	YGR284C	ERV29	S0005458	YOL098C	
S0001197	YHR154W	RTT107	S0005194	YNL250W	RAD50	S0003804	YJR043C	POL32	S0005459	YOL099C	
S0001314	YIL052C	RPL34B	S0002771	YDR363W	ESC2	S0003375	YGR143W	SKN1	S0004800	YMR188C	
S0005136	YNL192W	CHS1	S0006134	YPL213W	LEA1	S0001596	YKL113C	RAD27	S0004801	YMR189W	GCV2
S0003635	YJL099W	CHS6	S0005179	YNL235C		S0003557	YJL020C	BBC1	S0004802	YMR190C	SGS1
S0001197	YHR154W	RTT107	S0003592	YJL056C	ZAP1	S0002828	YDR420W	HKR1	S0004803	YMR191W	
S0001596	YKL113C	RAD27	S0004641	YMR038C	LYS7	S0005194	YNL250W	RAD50	S0004804	YMR192W	
S0000298	YBR094W		S0003651	YJL115W	ASF1	S0000975	YER173W	RAD24	S0005460	YOL100W	PKH2
S0002740	YDR332W		S0003420	YGR188C	BUB1	S0005551	YOR025W	HST3	S0004805	YMR193C-A	

S0002653	YDR245W	MNN10	S0004322	YLR330W	CHS5	S0002794	YDR386W	MUS81	S0005461	YOL101C	
S0000729	YEL003W	GIM4	S0004908	YMR294W	JNM1	S0001234	YHR191C	CTF8	S0004806	YMR193W	MRPL24
S0001932	YFR036W	CDC26	S0002828	YDR420W	HKR1	S0004683	YMR078C	CTF18	S0005463	YOL103W	
S0001221	YHR178W	STB5	S0003310	YGR078C	PAC10	S0003598	YJL062W	LAS21	S0004807	YMR194W	
S0000729	YEL003W	GIM4	S0002227	YDL069C		S0002796	YDR388W	RVS167	S0004808	YMR195W	ICY1
S0001338	YIL076W	SEC28	S0004410	YLR418C	CDC73	S0004103	YLR113W	HOG1	S0005464	YOL104C	NDJ1
S0002893	YDR485C		S0004093	YLR103C	CDC45	S0001520	YKL037W		S0004809	YMR196W	
S0002161	YDL003W	SCC1	S0005552	YOR026W	BUB3	S0000438	YBR234C	ARC40	S0005465	YOL105C	WSC3
S0004190	YLR200W	YKE2	S0005939	YPL018W	CTF19	S0005952	YPL031C	PHO85	S0005466	YOL106W	
S0001673	YKL190W	CNB1	S0004252	YLR262C	YPT6	S0005596	YOR070C	GYP1	S0005467	YOL107W	
S0000602	YCR009C	RVS161	S0002718	YDR310C	SUM1	S0006102	YPL181W	CTI6	S0005468	YOL108C	INO4
S0000778	YEL052W		S0004559	YML094W	GIM5	S0004322	YLR330W	CHS5	S0005469	YOL109W	ZEO1
S0003804	YJR043C	POL32	S0005670	YOR144C	ELG1	S0000298	YBR094W		S0002127	YER019C-A	SBH2
S0002235	YDL077C	VAM6	S0005972	YPL051W	ARL3	S0004219	YLR229C	CDC42	S0002128	YER087C-B	SBH1
S0004322	YLR330W	CHS5	S0005976	YPL055C		S0001562	YKL079W	SMY1	S0002129	YAR002C-A	ERP1
S0003393	YGR161C		S0005952	YPL031C	PHO85	S0004324	YLR332W	MID2	S0004811	YMR198W	CIK1
S0004029	YLR039C	RIC1	S0004612	YMR010W		S0000729	YEL003W	GIM4	S0004812	YMR199W	CLN1
S0000127	YBL031W	SHE1	S0003184	YGL216W	KIP3	S0002187	YDL029W	ARP2	S0004814	YMR201C	RAD14
S0000157	YBL061C	SKT5	S0002187	YDL029W	ARP2	S0004252	YLR262C	YPT6	S0005470	YOL110W	
S0001490	YKL007W	CAP1	S0002569	YDR162C	NBP2	S0004075	YLR085C	ARP6	S0005471	YOL111C	
S0001659	YKL176C		S0003375	YGR143W	SKN1	S0003704	YJL168C	SET2	S0004815	YMR202W	ERG2
S0000957	YER155C	BEM2	S0003461	YGR229C	SMI1	S0002832	YDR424C	DYN2	S0005472	YOL112W	
S0004121	YLR131C	ACE2	S0006363	YPR159W	KRE6	S0003635	YJL099W	CHS6	S0004817	YMR204C	
S0004715	YMR109W	MYO5	S0005097	YNL153C	GIM3	S0003814	YJR053W	BFA1	S0005473	YOL113W	SKM1
S0000818	YER016W	BIM1	S0003054	YGL086W	MAD1	S0003459	YGR227W	DIE2	S0005474	YOL114C	
S0001596	YKL113C	RAD27	S0004651	YMR048W	CSM3	S0006076	YPL155C	KIP2	S0004818	YMR205C	PFK2
S0000729	YEL003W	GIM4	S0004914	YMR299C		S0004651	YMR048W	CSM3	S0004819	YMR206W	
S0001234	YHR191C	CTF8	S0002459	YDR052C	DBF4	S0005097	YNL153C	GIM3	S0005475	YOL115W	TRF4
S0001171	YHR129C	ARP1	S0005334	YNR051C	BRE5	S0007235	YDR363W-A	SEM1	S0002133	YCR079W	
S0005429	YOL068C	HST1	S0005569	YOR043W	WHI2	S0003567	YJL030W	MAD2	S0005476	YOL116W	MSN1
S0004200	YLR210W	CLB4	S0006095	YPL174C	NIP100	S0003818	YJR057W	CDC8	S0005477	YOL117W	
S0000602	YCR009C	RVS161	S0004322	YLR330W	CHS5	S0005528	YOR002W	ALG6	S0002134	YAL034C	FUN19
S0004651	YMR048W	CSM3	S0005115	YNL171C		S0006363	YPR159W	KRE6	S0005478	YOL118C	
S0000729	YEL003W	GIM4	S0003972	YLL049W		S0000227	YBR023C	CHS3	S0002135	YER056C-A	
S0004324	YLR332W	MID2	S0004363	YLR371W	ROM2	S0003675	YJL139C	YUR1	S0002136	YAL004W	
S0003209	YGL240W	DOC1	S0003461	YGR229C	SMI1	S0004908	YMR294W	JNM1	S0005479	YOL119C	
S0003557	YJL020C	BBC1	S0004322	YLR330W	CHS5	S0005670	YOR144C	ELG1	S0002138	YAL043C-A	
S0003814	YJR053W	BFA1	S0004093	YLR103C	CDC45	S0000157	YBL061C	SKT5	S0002139	YAL056C-A	
S0004103	YLR113W	HOG1	S0005240	YNL296W		S0000409	YBR205W	KTR3	S0004820	YMR207C	
S0003129	YGL161C		S0004876	YMR263W	SAP30	S0001171	YHR129C	ARP1	S0004822	YMR209C	
S0000521	YCL016C	DCC1	S0004190	YLR200W	YKE2	S0003310	YGR078C	PAC10	S0004823	YMR210W	
S0004914	YMR299C		S0006190	YPL269W	KAR9	S0003892	YJR131W	MNS1	S0005481	YOL121C	

S0002668	YDR260C	SWM1	S0005194	YNL250W	RAD50	S0001247	YHR204W	MNL1	S0005482	YOL122C	
S0002557	YDR150W	NUM1	S0006345	YPR141C	KAR3	S0005853	YOR326W	MYO2	S0002140	YAL064C-A	
S0000507	YCL001W		S0004252	YLR262C	YPT6	S0002260	YDL102W	CDC2	S0004827	YMR214W	SCJ1
S0000375	YBR171W	SEC66	S0004219	YLR229C	CDC42	S0005031	YNL087W		S0004828	YMR215W	
S0000729	YEL003W	GIM4	S0001296	YIL034C	CAP2	S0001192	YHR149C		S0005484	YOL124C	
S0001508	YKL025C	PAN3	S0005097	YNL153C	GIM3	S0000544	YCL039W		S0002142	YAL068C	
S0004029	YLR039C	RIC1	S0006221	YPR017C	DSS4	S0000626	YCR029C-A		S0005485	YOL125W	
S0002314	YDL155W	CLB3	S0003310	YGR078C	PAC10	S0001365	YIL103W		S0004829	YMR216C	SKY1
S0000916	YER114C	BOI2	S0001171	YHR129C	ARP1	S0000628	YCR032W	BPH1	S0005486	YOL126C	MDH2
S0001072	YHR030C	SLT2	S0005023	YNL079C		S0006022	YPL101W	ELP4	S0005488	YOL128C	
S0002742	YDR334W		S0006102	YPL181W	CTI6	S0001634	YKL151C		S0005489	YOL129W	
S0001153	YHR111W		S0004219	YLR229C	CDC42	S0003432	YGR200C	ELP2	S0004832	YMR219W	
S0004252	YLR262C	YPT6	S0005013	YNL069C		S0002535	YDR128W		S0004834	YMR221C	
S0003092	YGL124C	MON1	S0004914	YMR299C		S0005797	YOR271C		S0004835	YMR222C	
S0002771	YDR363W	ESC2	S0004641	YMR038C	LYS7	S0002470	YDR063W		S0005491	YOL131W	
S0000913	YER111C	SWI4	S0004876	YMR263W	SAP30	S0002196	YDL038C		S0005492	YOL132W	
S0002175	YDL017W	CDC7	S0003567	YJL030W	MAD2	S0003453	YGR221C		S0004836	YMR223W	UBP8
S0000227	YBR023C	CHS3	S0000770	YEL044W		S0001398	YIL136W	OM45	S0004837	YMR224C	MRE11
S0003793	YJR032W	CPR7	S0005596	YOR070C	GYP1	S0006146	YPL225W		S0004838	YMR225C	MRPL44
S0000787	YEL061C	CIN8	S0003461	YGR229C	SMI1	S0000958	YER156C		S0004839	YMR226C	
S0000011	YAL013W	DEP1	S0005242	YNL298W	CLA4	S0004376	YLR384C	ELP1	S0005496	YOL136C	PFK27
S0000120	YBL024W	NCL1	S0003310	YGR078C	PAC10	S0001769	YKR061W	KTR2	S0005497	YOL137W	
S0004593	YML124C	TUB3	S0006162	YPL241C	CIN2	S0002936	YDR528W	HLR1	S0005498	YOL138C	
S0004190	YLR200W	YKE2	S0004210	YLR220W		S0005385	YOL025W	LAG2	S0002156	YBR084C-A	
S0000729	YEL003W	GIM4	S0005584	YOR058C	ASE1	S0004923	YMR306W	FKS3	S0002157	YBR090C-A	NHP6B
S0004190	YLR200W	YKE2	S0005952	YPL031C	PHO85	S0002891	YDR483W	KRE2	S0002158	YBR162W-A	YSY6
S0005097	YNL153C	GIM3	S0005584	YOR058C	ASE1	S0001798	YKR090W	PXL1	S0002159	YDL001W	
S0004410	YLR418C	CDC73	S0005556	YOR030W		S0005548	YOR022C		S0004841	YMR228W	MTF1
S0000433	YBR229C	ROT2	S0004924	YMR307W	GAS1	S0006392	YPR188C	MLC2	S0001500	YKL017C	HCS1
S0000011	YAL013W	DEP1	S0000307	YBR103W	SIF2	S0002421	YDR014W	RAD61	S0004843	YMR230W	
S0001762	YKR054C	DYN1	S0005097	YNL153C	GIM3				S0004844	YMR231W	PEP5
S0000183	YBL087C	RPL23A	S0005242	YNL298W	CLA4				S0004845	YMR232W	FUS2
S0002235	YDL077C	VAM6	S0004252	YLR262C	YPT6				S0004846	YMR233W	
S0002175	YDL017W	CDC7	S0006115	YPL194W	DDC1				S0001503	YKL020C	SPT23
S0005355	YNR072W	HXT17	S0006102	YPL181W	CTI6				S0002160	YDL002C	NHP10
S0004876	YMR263W	SAP30	S0006095	YPL174C	NIP100				S0004847	YMR234W	RNH1
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S0003131	YGL163C	RAD54	S0005242	YNL298W	CLA4
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S0000975	YER173W	RAD24	S0003804	YJR043C	POL32
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S0004322	YLR330W	CHS5	S0005853	YOR326W	MYO2
S0004103	YLR113W	HOG1	S0005115	YNL171C	
S0005235	YNL291C	MID1	S0006339	YPR135W	CTF4
S0005795	YOR269W	PAC1	S0005822	YOR296W	
S0004410	YLR418C	CDC73	S0004474	YML013C-A	
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S0005795	YOR269W	PAC1	S0005826	YOR300W	
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S0003446	YGR214W	RPS0A	S0003461	YGR229C	SMI1
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S0004334	YLR342W	FKS1	S0005334	YNR051C	BRE5
S0002260	YDL102W	CDC2	S0002411	YDR004W	RAD57
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S0000158	YBL062W		S0005215	YNL271C	BNI1
S0004190	YLR200W	YKE2	S0005822	YOR296W	
S0001596	YKL113C	RAD27	S0005194	YNL250W	RAD50
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S0000729	YEL003W	GIM4	S0001176	YHR134W	WSS1
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S0000227	YBR023C	CHS3	S0003209	YGL240W	DOC1
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S0002771	YDR363W	ESC2	S0005194	YNL250W	RAD50
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S0003476	YGR244C	LSC2
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