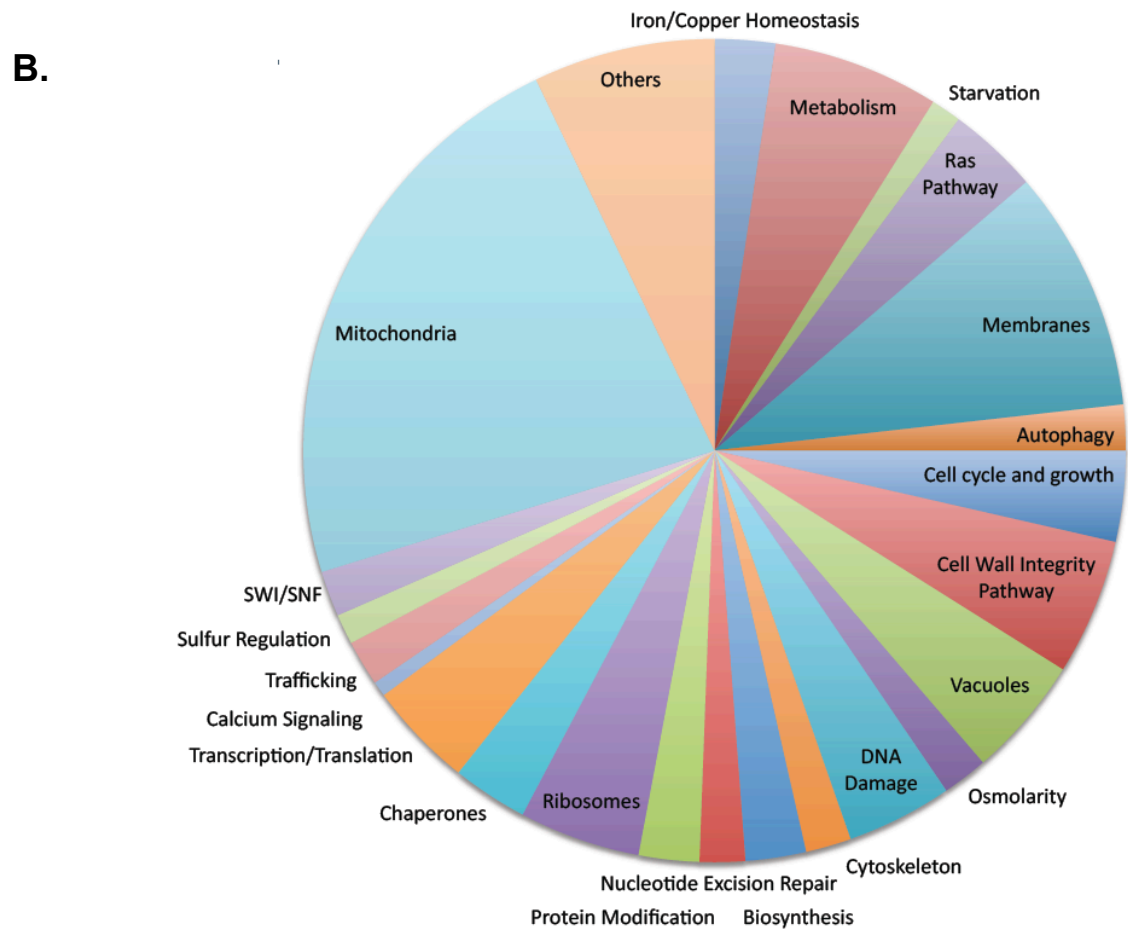


Table Supplement 1. Synthetic Genetic Array Desiccation Screen – *tps1*Δ

A.

	Number of Hits	Total Genes
Synthetic Lethal with <i>tps1</i> Δ	178	4700
Desiccation Sensitive with <i>tps1</i> Δ	174	4700
Desiccation Tolerant suppressors of <i>tps1</i> Δ after 30 Day Dry	121	4700



1. Synthetic Lethality with *tps1* Δ - SGA

Strain	Standard Name	Strain	Standard Name	Strain	Standard Name	Strain	Standard Name
YBR278W	<i>DPB3</i>	YMR154C	RIM13	YML073C	YL16A	YDR419W	<i>RAD30</i>
YBR279W	<i>PAF1</i>	YBR191W	RPL21A	YNL055C	POR1	YEL024W	<i>RIP1</i>
YBR282W	<i>MRPL27</i>	YLR370C	ARC18	YNL284C	MRPL10	YEL027W	<i>VMA3</i>
YCR020W-B	<i>HTL1</i>	YLR382C	NAM2	YPR133W-A	TOM5	YEL029C	<i>BUD16</i>
YCR024C	<i>SLM5</i>	YJR118C	ILM1	YAL044C	GCV3	YEL043W	
YCR044C	<i>PER1</i>	YJR139C	HOM6	YAL039C	CYC3	YEL044W	<i>IES6</i>
YCR063W	<i>BUD31</i>	YJL006C	CTK2	YAL013W	DEP1	YEL051W	<i>VMA8</i>
YCR071C	<i>IMG2</i>	YJR030C	RBH2	YAL002W	VPS8	YER050C	<i>RSM18</i>
YCR081W	<i>SRB8</i>	YJR033C	RAV1	YBL016W	<i>FUS3</i>	YER044C	<i>BUD18</i>
YDR363W-A	<i>SEM1</i>	YJR035W	RAD26	YBL038W	<i>MRPL16</i>	YFL036W	<i>RPO41</i>
YFR040W	<i>SAP155</i>	YJR036C	HUL4	YBL063W	<i>KIP1</i>	YFL053W	<i>DAK2</i>
YGR219W		YJR040W	GEF1	YBL066C	<i>SEF1</i>	YFR001W	<i>LOC1</i>
YGR229C	<i>SMI1</i>	YJR060W	CBF1	YBL101C	<i>ECM21</i>	YFR010W	<i>UBP6</i>
YGR237C		YJR066W	TOR1	YBR015C	<i>TTP1</i>	YGL016W	<i>PDR6</i>
YGR270W	<i>YTA7</i>	YJL136C	RPS25B	YBR042C	<i>CST26</i>	YGL025C	<i>PGD1</i>
YGR275W	<i>RTT102</i>	YJL165C	HAL5	YBR065C	<i>ECM2</i>	YGL058W	<i>RAD6</i>
YGR285C	<i>ZUO1</i>	YJL175W		YBR094W	<i>PBY1</i>	YGL124C	<i>MON1</i>
YHR039C-B	<i>VMA10</i>	YJL184W	GON7	YBR098W	<i>MMS4</i>	YGL136C	<i>MRM2</i>
YKR035W-A	<i>DID2</i>	YJL189W	RPL39	YBR188C	<i>NTC20</i>	YGL151W	<i>NUT1</i>
YKR082W	NUP133	YFR025C	HIS2	YBR221C	<i>PDB1</i>	YGL244W	<i>RTF1</i>
YLL018C-A	COX19	YJL101C	GSH1	YBR262C	<i>AIM5</i>	YGR003W	<i>CUL3</i>
YNR050C	LYS9	YKR085C	MRPL20	YCL032W	<i>STE50</i>	YGR020C	<i>VMA7</i>
YNR068C	BUL3	YLR439W	MRPL4	YCL037C	<i>SRO9</i>	YGR055W	<i>MUP1</i>
YER106W	MAM1	YLR442C	SIR3	YCR007C		YGR101W	<i>PCP1</i>
YER108C	FLO8	YNR052C	POP2	YCL039W	<i>GID7</i>	YGR104C	<i>SRB5</i>
YER141W	COX15	YPL268W	PLC1	YCL063W	<i>VAC17</i>	YGR122W	
YER145C	FTR1	YPR067W	ISA2	YDL033C	<i>SLM3</i>	YGR171C	<i>MSM1</i>
YER151C	UBP3	YBR131W	CCZ1	YDL045W-A	<i>MRP10</i>	YGR215W	<i>RSM27</i>
YER154W	OXA1	YBR289W	SNF5	YDL069C	<i>CBS1</i>	YGR217W	<i>CCH1</i>
YER161C	SPT2	YCR028C-A	RIM1	YDL072C	<i>YET3</i>	YHL027W	<i>RIM101</i>
YER177W	BMH1	YCR046C	IMG1	YDL159W	<i>STE7</i>	YHL007C	<i>STE20</i>
YMR058W	FET3	YCR047C	BUD23	YDL185W	<i>VMA1</i>	YHR121W	<i>LSM12</i>
YMR066W	SOV1	YCR084C	TUP1	YDR027C	<i>VPS54</i>	YHR132C	<i>ECM14</i>
YMR077C	<i>VSP20</i>	YNL052W	COX5A	YDR123C	<i>INO2</i>	YIL040W	<i>APQ12</i>
YOL086C	<i>ADH1</i>	YNL073W	MSK1	YDR175C	<i>RSM24</i>	YIL148W	<i>RPL40A</i>
YOL115W	TRF4	YNL107W	YAF9	YDR226W	<i>ADK1</i>	YIL149C	<i>MLP2</i>
YOL129W	<i>VPS64</i>	YDR512C	EMI1	YDR227W	<i>SIR4</i>	YIL153W	<i>RRD1</i>
YER092W	<i>IES5</i>	YFL001W	DEG1	YDR237W	<i>MRPL7</i>		
YHL025W	SNF6	YFL013C	IES1	YDR279W	<i>RNH202</i>		
YHR064C	SSZ1	YGR252W	GCN5	YDR293C	<i>SSD1</i>		
YHR168W	MTG2	YGR255C	COQ6	YDR295C	<i>HDA2</i>		
YOR096W	RPS7A	YGR257C	MTM1	YDR296W	<i>MHR1</i>		
YMR097C	MTG1	YIR023W	DAL81	YDR332W	<i>IRC3</i>		
YMR135C	GID8	YJR055W	HIT1	YDR335W	<i>MSN5</i>		
YHR005C	GPA1	YNL138W	SRV2	YDR388W	<i>RVS167</i>		
YHR041C	SRB2	YOR270C	VPH1	YDR389W	<i>SAC7</i>		
YHR067W	HTD2	YPL078C	ATP4	YDR405W	<i>MRP20</i>		

2. Desiccation Sensitive with *tps1* Δ - 6 Day Dry - SGA

Strain	Standard Name	Strain	Standard Name	Strain	Standard Name	Strain	Standard Name
YFL014W	HSP12	YJR052W	RAD7	YKL137W	CMC1	YNR002C	ATO2
YBR295W	PCA1	YJR061W		YKL150W	MCR1	YNR039C	ZRG17
YBR297W	MAL33	YFL033C	RIM15	YKL159C	RCN1	YNR047W	FPK1
YCR026C	NPP1	YAL008W	FUN14	YKL161C	KDX1	YOR061W	CKA2
YCR027C	RHB1	YBL001C	ECM15	YKL170W	MRPL38	YOR065W	CYT1
YGR256W	GND2	YBR019C	GAL10	YKL171W	NNK1	YOR086C	TCB1
YIR021W	MRS1	YBR037C	SCO1	YKL175W	ZRT3	YOR107W	RGS2
YIR023W	DAL81	YBR203W	COS111	YKL207W	EMC3	YOR115C	TRS33
YIR031C	DAL7	YBR215W	HPC2	YKR003W	OSH6	YOR118W	RTC5
YIR033W	MGA2	YBR227C	MCX1	YKR055W	RHO4	YOR149C	SMP3
YIR038C	GTT1	YCR009C	RVS161	YKR059W	TIF1	YOR161C	PNS1
YLR423C	ATG17	YDL107W	MSS2	YLL006W	MMM1	YOR166C	SWT1
YLR425W	TUS1/SOP10	YDR148C	KGD2	YLL014W	EMC6	YOR178C	GAC1
YLR447C	VMA6	YDR194C	MSS116	YLL019C	KNS1	YOR182C	RPS30B
YER118C	SSU81	YDR197W	CBS2	YLL026W	HSP104	YOR191W	ULS1
YER128W	VFA1	YDR204W	COQ4	YLL040C	VPS13	YOR231W	MKK1
YER153C	PET122	YDR350C	TCM10	YLL043W	FPS1	YOL015W	IRC10
YER155C	BEM2	YDR375C	BCS1	YLL051C	FRE6	YOL083W	ATG34
YER167W	BCK2	YER030W	CHZ1	YLR025W	SNF7	YOL084W	PHM7
YMR070W	MOT3	YFL016C	MDJ1	YLR006C	SSK1	YPL274W	SAM3
YOL095C	HMI1	YGL107C	RMD9	YLR064W	PER33	YPL273W	SAM4
YOL096C	COQ3	YGL115W	SNF4	YLR079W	SIC1	YPL249C	GYP5
YER078C	ICP55	YGL135W	RPL1B	YLR080W	EMP46	YPL193W	RSA1
YER008C	SEC3	YGL203C	KEX1	YLR083C	EMP70	YPL178W	CBC2
YDR424C	DYN2	YGL213C	SKI8	YLR093C	NYV1	YPL105C	SYH1
YER090W	TRP2	YGL234W	ADE5,7	YLR114C	AVL9	YPL096W	PNG1
YEL011W	GLC3	YGR078C	PAC10	YLR134W	PDC5	YPL089C	RLM1
YLR034C	SMF3	YGR105W	VMA21	YLR375W	STP3	YPL057C	SUR1
YMR315W		YGR183C	QCR9	YMR035W	IMP2	YPL049C	DIG1
YMR316C-A		YHL038C	CBP2	YMR256C	COX7	YPR003C	
YML095C	RAD10	YHL023C	NPR3	YNL339C	YRF1-6	YPR004C	AIM25
YML108C		YHR010W	RPL27A	YNL330C	RPD3	YPR124W	CTR1
YML110C	COQ5	YHR011W	DIA4	YNL329C	PEX6	YPR194C	OPT2
YMR099C		YHR016C	YSC84	YNL233W	BN14	YJR004C	SAG1
YER063W	THO1	YHR021C	RPS27B	YNL229C	URE2		
YER066W	RRT13	YIL013C	PDR11	YNL225C	CNM67		
YLR246W	ERF2	YIL162W	SUC2	YNL218W	MGS1		
YLR346C		YJL168C	EZL1	YNL162W	RPL41A		
YPL217C	BMS1	YJL046W	AIM22	YNL145W	MFA2		
YPL224C	MMT2	YKL002W	DID4	YNL139C	THO2		
YCL023C		YKL037W	AIM26	YNL144C			
YJR087W		YKL048C	ELM1	YNL098C	RAS2		
YJR134C	SGM1	YKL055C	OAR1	YNL091W	NST1		
YML072C	TCB3	YKL101W	HSL1	YNL077W	APJ1		
YML085C	TUB1	YKL134C	OCT1.	YNL054W	VAC7		
YJL005W	CYR1	YKL146W	AVT3	YNL001W	DOM34		
YJL028W		YKL148C	SDH1	YNR001C	CIT1		

3. Desiccation Tolerant Suppressors of *tps1* Δ - 30 Day Dry - SGA

Strain	Standard Name	Strain	Standard Name	Strain	Standard Name
YER093C-A	AIM11	YDR108W	GSG1	YIR013C	GAT4
YMR142C	RPL14B	YDR159W	SAC3	YJL170C	ASG7
YMR319C	FET4	YDR162C	NBP2	YJL165C	HAL5
YML094W	GIM5	YDR173C	ARG82	YJL079C	PRY1
YMR106C	YKU80	YDR207C	UME6	YJL038C	LOH1
YMR116C	ASC1	YDR231C	COX2	YJR092W	BUD4
YER031C	YPT8	YDR264C	AKR1	YKL096W	CWP1
YER046W	SPO73	YDR320C	SWA2	YKL103C	APE1
YGR204W	ADE3	YDR360W	OPI7	YKL114C	APN1
YHR119W	YTX1	YDR369C	XRS2	YKL119C	VPH2
YJR121W	ATP2	YDR432W	NPL3	YKL126W	YPK1
YJR140C	HIR3	YDR441C	APT2	YKL127W	PGM1
YAL054C	ACS1	YDR457W	TOM1	YKL185W	ASH1
YJR010W	MET4	YDR511W	ACN9	YKL187C	FAT3
YJR063W	RPA12	YDR524C	AGE1	YKL197C	PEX1
YJR066W	TOR1	YEL007W	MIT1	YKR007W	MEH1
YGR239C	PEX21	YEL052W	AFG1	YLL001W	DNM1
YJL137C	GLG2	YER005W	YND1	YLL021W	SPA2
YBR083W	TEC1	YFL011W	HXT10	YLL052C	AQY2
YBR084C-A	RPL19A	YFL030W	AGX1	YLR068W	FYV7
YBR125C	PTC4	YFL055W	AGP3	YLR070C	XYL2
YBR168W	PEX32	YFL008W	SMC1	YLR074C	BUD20
YNL079C	TPM1	YGL006W	PMC1	YLR121C	YPS3
YNL080C	EOS1	YGL028C	SCW11	YLR172C	DPH5
YOR265W	RBL2	YGL110C	CUE3	YLR191W	PEX13
YNL059C	ARP5	YGL153W	PEX14	YLR206W	ENT2
YOL148C	SPT20	YGL216W	KIP3	YLR216C	CPR6
YAL059W	SIM1	YGL227W	VID30	YLR248W	RCK2
YAL035W	FUN12	YGL229C	SAP4		
YAL011W	SWC3	YGL236C	MTO1		
YBL027W	RPL19B	YGR007C	MUQ1		
YBL006C	LDB7	YGR016W			
YBL021C	HAP3	YGR025W			
YBL045C	COR1	YGR059W	SPR3		
YBL080C	PET112	YGR141W	VPS62		
YBL089W	AVT5	YGR144W	THI4		
YBR136W	ESR1	YGR157W	CHO2		
YBR229C	ROT2	YHL044W			
YDL009C		YHR109W	CTM1		
YDL021W	GPM2	YHR113W	APE4		
YDL038C		YHR115C	DMA1		
YDL116W	NUP84	YHR132C	ECM14		
YDL137W	ARF2	YIL011W	TIR3		
YDL191W	RPL35A	YIL039W	TED1		
YDL215C	GDH2	YIL088C	AVT7		
YDR024W	FYV1	YIL090W	ICE2		
YDR025W	RPS11A	YIL095W	PRK1		