

Targeted Ubiquitin System (TUS) library

93 mutant *Saccharomyces cerevisiae* strains of most of the non-essential E2s and E3s are included in the library and used for the experiments described in Fig. 2A.

	1	2	3	4	5	6	7	8	9	10	11	12
A	VPS8	SEA4	YBR062C	RAD16	AMN1	COS111	SAF1	RAD18	SLX5	BRE1	UFD2	VMS1
B	STE5	YDR131C	SAN1	MFB1	RMD5	PEX10	HEL2	YDR306C	PIB1	TOM1	<i>empty</i>	MOT2/NOT4
C	SLX8	CDH1	SNT2	HUL5	CUL3	UBR1	ETP1	DMA1	SSM4/DOA10	FYV10	RTT101	DAS1
D	FAR1	RCY1	PEX2	HUL4	RAD7	GRR1	UFD4	TUL1	HEL1	<i>empty</i>	RAD5	HRT3
E	PEP3/VPS18	YLR224W	IRC20	YLR352W	MDM30	MAG2	ITT1	UFO1	PEX12	ASI1	PEP5/VPS11	RKR1/LTN1
F	YMR258C	ASI3	FAP1	DMA2	ELA1	SKP2	HRD1	PSH1	RTC1	DIA2	ULS1	ASR1
G	GIR2	YIH1	GCN2	MTC4/SEA3	DOA4	SHP1/UBX1	UBX2	UBX3	UBX4	UBX5	UBX6	UBX7
H	DOA1	UBC2	UBC4	UBC5	UBC6*	UBC7	UBC8	UBC10	UBC11	UBC12	UBC13	<i>empty</i>

The library was obtained from Mark Hochstrasser's lab, and used previously by T. Ravid and M. Hochstrasser (Nat Cell Biol 9, 422-27)