

Supplementary Table S1. Confirmed HU-sensitive gene-deletion strains

ORF	HU-sensitive gene deletion	Overlap with other genome-wide screens [‡]	GO classification
YAL021c	<i>CCR4</i>	4	Transcription/mRNA catabolism
YCL016c	<i>DCC1</i>	4	Sister chromatid cohesion
YDR004w	<i>RAD57</i>	4	DNA recombination
YDR076w	<i>RAD55</i>	4	DNA recombination
YDR369c	<i>XRS2</i>	4	Double-strand break repair
YDR386w	<i>MUS81</i>	4	DNA repair
YER095w	<i>RAD51</i>	4	DNA repair
YJR043c	<i>POL32</i>	4	DNA replication
YLR235c	<i>TOP3 3'</i>	4	DNA recombination
YLR320w	<i>MMS22</i>	4	Double-strand break repair
YML032c	<i>RAD52</i>	4	DNA recombination
YMR190c	<i>SGS1</i>	4	DNA replication
YNL250w	<i>RAD50</i>	4	Double-strand break repair
YPR135w	<i>CTF4</i>	4	DNA replication
YBL093c	<i>ROX3</i>	3	RNA pol II transcription
YBR094w		3	Unknown
YBR098w	<i>MMS4*</i>	3	DNA repair
YBR100w	<i>MMS4-B*</i>	3	DNA repair
YCR009c	<i>RVS161</i>	3	Bud site selection
YCR077c	<i>PAT1</i>	3	RNA processing
YDL006w	<i>PTC1</i>	3	Protein dephosphorylation
YDL059c	<i>RAD59</i>	3	Double-strand break repair
YDL101c	<i>DUN1</i>	3	Cell cycle checkpoint
YDR264c	<i>AKR1</i>	3	Mating pathway
YDR364c	<i>CDC40</i>	3	mRNA splicing
YGL163c	<i>RAD54</i>	3	Chromatin remodelling
YHR041c	<i>SRB2</i>	3	RNA pol II transcription
YHR154w	<i>ESC4/RTT107</i>	3	Double-strand break repair
YIL128w	<i>MET18</i>	3	RNA pol II transcription
YJR090c	<i>GRR1</i>	3	Cell cycle transition
YLR032w	<i>RAD5</i>	3	DNA repair
YLR234w	<i>TOP3</i>	3	DNA recombination
YMR198w	<i>CIK1</i>	3	Mitotic spindle orientation
YMR224c	<i>MRE11</i>	3	Double-strand break repair
YNR052c	<i>CAF1/POP2</i>	3	Transcription/mRNA catabolism
YPR141c	<i>KAR3</i>	3	Mitotic spindle orientation
YGR104c	<i>SRB5</i>	2	Transcription
YGR180c	<i>RNR4</i>	2	DNA replication
YJR104c	<i>SOD1</i>	2	Oxidative stress metabolism
YNL171c		2	Unknown
YOR290c	<i>SNF2</i>	2	Chromatin remodelling
YPL031c	<i>PHO85</i>	2	Cell cycle/cyclin-dependent kinase
YPL254w	<i>HF11</i>	2	Chromatin modification
YPR099c		2	Unknown
YDR140w		1	Unknown
YER070w	<i>RNR1</i>	1	DNA replication
YGL024w		1	Unknown
YKL126w	<i>YPK1</i>	1	Protein kinase
YOR080w	<i>DIA2</i>	1	DNA replication

[‡]Overlap with genome-wide screens detailed in Results; *YBR098w and YBR100w are merged ORFs.