

**Table S2:** Non-essential genes whose individual deletion was tested for an effect on the levels of Histone H3 K42me2.

NUMBER	ORF	NUMBER	ORF	NUMBER	ORF
1	YAL021C	51	YGL042C	101	YML010W
2	YBL006C	52	YGL043W	102	YML014W
3	YBL008W	53	YGL050W	103	YML036W
4	YBL013W	54	YGL136C	104	YML062C
5	YBL024W	55	YGL167C	105	YML107C
6	YBR030W	56	YGL168W	106	YML110C
7	YBR034C	57	YGL223C	107	YMR060C
8	YBR061C	58	YGL224C	108	YMR070W
9	YBR069C	59	YGL244W	109	YMR091C
10	YBR081C	60	YGR001C	110	YMR125W
11	YBR133C	61	YGR056W	111	YMR126C
12	YBR176W	62	YGR057C	112	YMR179W
13	YBR215W	63	YGR063C	113	YMR272C
14	YBR279W	64	YGR064W	114	YMR275C
15	YCL009C	65	YGR157W	115	YMR304W
16	YCL055W	66	YGR275W	116	YNL063W
17	YCR020W	67	YHL039W	117	YNL068C
18	YCR047C	68	YHR109w	118	YNL136W
19	YDL033C	69	YHR151C	119	YNL139C
20	YDL101C	70	YHR167W	120	YNL147W
21	YDL112W	71	YHR207C	121	YNL206C
22	YDL172C	72	YHR209W	122	YNL220W
23	YDL173W	73	YIL038C	123	YNL230C
24	YDL200C	74	YIL064W	124	YNR052C
25	YDL201W	75	YIL097W	125	YOL006C
26	YDR120C	76	YIL131C	126	YOL051W
27	YDR138W	77	YJL105W	127	YOL072W
28	YDR140W	78	YJL127C	128	YOL093W
29	YDR198C	79	YJL168C	129	YOL096C
30	YDR257C	80	YJR073C	130	YOL124C
31	YDR289C	81	YJR119C	131	YOL125W
32	YDR315C	82	YJR140C	132	YOL141W
33	YDR316W	83	YKL155C	133	YOL145C
34	YDR393W	84	YKL160W	134	YOL148C
35	YDR408C	85	YKL176C	135	YOR038C
36	YDR410C	86	YKR029C	136	YOR123C
37	YDR435C	87	YKR056W	137	YOR144C
38	YDR440W	88	YKR069W	138	YOR201C
39	YDR463W	89	YKR072C	139	YOR221C
40	YDR465C	90	YKR073C	140	YOR239W
41	YER051W	91	YLL002W	141	YPL030W
42	YER068W	92	YLL062C	142	YPL046C
43	YER091C	93	YLR055C	143	YPL157W
44	YER151C	94	YLR172C	144	YPL165C
45	YER161C	95	YLR285W	145	YPL183C
46	YER164W	96	YLR357W	146	YPL208W
47	YER169W	97	YLR418C	147	YPL234C
48	YER175C	98	YML005W	148	YPL273W
49	YFL018C	99	YML006C	149	YPR072W
50	YGL020C	100	YML008C		

Methyl-Transferases
<b>Demethylases</b>
6AU Sensitive Mutants
Elongation Factors
<i>spt</i> and <i>rtt</i> Mutants