

Table S1 Functional annotation of M regions along chromosome II

#peak	M region start	M region stop	Systematic name	Standard name
1	1	5856	TEL02L	
1			TEL02L-YP	
1			YBL113C	
1			YBL113W-A	
1			TEL02L-YP_repeat_region	
1			YBL112C	
1			YBL111C	
1			YBL109W	
1			TEL02L-XR	
1	5905	8310	YBL109W	
1			TEL02L-XR	
1			TEL02L-XC	
1			YBL108C-A	<i>PAU9</i>
1			YBL108W	
1	8328	8420	YBL108W	
1	8864	8915	YBLWdelta2	
1	8944	9012	YBLWdelta2	
1	9080	9434	YBLWdelta3	
1	9569	9684	tL(UAA)B1	
2	29623	35611	YBLWdelta4	
2			YBLWty2-1	
2			YBLWdelta5	
2			YBWdelta6	
2	35838	36229	YBLCtau1	
2	36385	36496	tF(GAA)B	
3	59834	60099	YBL087C	<i>RPL23A</i>
3	60101	60192	YBL087C	<i>RPL23A</i>
4	68267	68356	YBL084C	<i>CDC27</i>
5	72337	72410	YBL081C	
6	88512	89126	YBL072C	<i>RPS8A</i>
6	92826	92875	YBL068W	<i>PRS4</i>
7	166365	166436	YBL029W	
7	168808	168889	YBL027W	<i>RPL19B</i>
7	168927	169201	YBL027W	<i>RPL19B</i>
7	169209	169379	YBL027W	<i>RPL19B</i>
7	175875	175929	YBL023C	<i>MCM2</i>
8	187312	187368	YBL017C	<i>PEP1</i>
8	187673	187781	YBL017C	<i>PEP1</i>
8	187991	188054	YBL017C	<i>PEP1</i>
8	188351	188418	YBL017C	<i>PEP1</i>
8	188477	188590	YBL017C	<i>PEP1</i>
8	188592	188742	YBL017C	<i>PEP1</i>
8	188877	188928	YBL017C	<i>PEP1</i>
8	188930	188994	YBL017C	<i>PEP1</i>
8	189002	189051	YBL017C	<i>PEP1</i>
9	197488	197583	tI(AAU)B	
10	197616	198069	tG(GCC)B	
10			YBLWsigma1	
11	205746	205813	YBL011W	<i>SCT1</i>
12	221028	226963	YBLWdelta8	
12			YBLWdelta9	
12			YBLWty1-1	
12			YBLWdelta10	
12	227062	227177	tS(AGA)B	

13	235403	235810	YBL003C	HTA2
13	236618	236763	YBL002W	HTB2
13	255367	255688	ARS209	ARS209
13			YBR009C	HHF1
13	256374	256624	YBR010W	HHT1
13	256683	256737	YBR010W	HHT1
13	258689	258810	YBRCdelta11	
13	258859	258926	YBRCdelta11	
13	259564	263149	YBR012C	
13			YBRWdelta12	
13			YBRWTy1-2	
13	263164	265504	YBRWTy1-2	
13	266172	266256	YBRCdelta14	
13	266367	266465	tT(AGU)B	
13	270424	270488	YBR016W	
14	300159	301247	YBR031W	RPL4A
15	326780	326872	tV(UAC)B	
15	327163	327352	YBRWdelta15	
16	332826	332880	YBR048W	RPS11B
16	333383	333810	YBR048W	RPS11B
16	343123	343181	YBR054W	YRO2
16	343564	343616	YBR054W	YRO2
17	347591	347704	/	
17	350815	350906	tQ(UUG)B	
17	353582	353664	/	
17	372325	372392	YBR067C	TIP1
18	405845	406059	tR(UCU)B	
18			tD(GUC)B	
19	414180	414350	YBR084C-A	RPL19A
19	414358	414632	YBR084C-A	RPL19A
19	414670	414751	YBR084C-A	RPL19A
20	427755	428109	YBR092C	PHO3
20	428336	428399	YBR092C	PHO3
20	428485	428576	YBR092C	PHO3
20	428671	428830	YBR092C	PHO3
20	428883	428984	YBR092C	PHO3
20	429576	429959	YBR093C	PHO5
20	430186	430249	YBR093C	PHO5
20	430335	430426	YBR093C	PHO5
20	430521	430680	YBR093C	PHO5
20	430698	430834	YBR093C	PHO5
20	430881	430936	YBR093C	PHO5
21	463997	464290	YBR112C	CYC8
22	477659	479049	YBR118W	TEF2
23	541431	541526	YBR150C	TBS1
23	541577	541639	YBR150C	TBS1
24	591706	592422	YBR181C	RPS6B
25	604937	605061	YBR189W	RPS9B
25	605069	605152	YBR189W	RPS9B
25	605195	605451	YBR189W	RPS9B
25	606653	606731	YBR191W	RPL21A
25	606734	606918	YBR191W	RPL21A
25	606920	607131	YBR191W	RPL21A
25	627307	627364	YBR202W	MCM7
26	642988	643084	tC(GCA)B	
26	643470	643865	YBRctau2	
26			YBRWdelta18	
26	645147	645250	tE(UUC)B	
26	646075	646133	/	

27	659261	659328	YBR218C	<i>PYC2</i>
27	659576	659630	YBR218C	<i>PYC2</i>
27	659645	659730	YBR218C	<i>PYC2</i>
27	659774	659853	YBR218C	<i>PYC2</i>
27	660212	660594	YBR218C	<i>PYC2</i>
27	660610	660759	YBR218C	<i>PYC2</i>
27	660791	660948	YBR218C	<i>PYC2</i>
27	661274	661362	YBR218C	<i>PYC2</i>
27	661406	661455	YBR218C	<i>PYC2</i>
27	661460	661757	YBR218C	<i>PYC2</i>
27	661835	661965	YBR218C	<i>PYC2</i>
27	701990	702056	/	
27	780350	780468	YBR289W	<i>SNF5</i>
28	801690	801919	YBR297W	<i>MAL33</i>
29	804863	808394	YBR298C-A	
29			YBR299W	<i>MAL32</i>
29	808396	813178	YBR300C	
29			YBR301W	<i>PAU24</i>
29			YBR302C	<i>COS2</i>
