

Table S6: Mec1-100 dependent phosphopeptides

red: S/TQ phosphopeptides

Protein	Variable modifications (position)	pRS site	log2 Ratio				T-test				Normalized abundance												m/z	Charge	Best peptide match/Score												
			mutant vs WT			rad53 vs. tel1	mutant vs WT			rad53 vs. tel1	wt			rad53			mec1-100-tel1			mec1-100-tel1-pph3																	
			rad53 vs. WT	tel1 vs. WT	mec1-100 vs. WT		rad53 vs. WT	tel1 vs. WT	pph3 vs. WT		rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT				rad53 vs. WT	tel1 vs. WT	pph3 vs. WT									
SwissProt	SGD	Sequence	n	rad53 vs. WT	tel1 vs. WT	mec1-100 vs. WT	tel1 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT	rad53 vs. WT	tel1 vs. WT	pph3 vs. WT
NOG2	YNR053C	AASFQDSTI	[3]	Phospho	100.0	-0.85	-1.65	-0.59	0.80	0.002	0.000	0.005	0.00	2.74E+05	2.97E+05	3.44E+05	1.61E+05	1.61E+05	1.85E+05	9.05E+04	9.14E+04	1.09E+05	2.00E+05	1.88E+05	2.20E+05	729.8174	2	58.35									
SRP40	YKR092C	AETPASSN	[7]	Phospho	49.8	-0.54	-1.56	-1.05	1.02	0.119	0.015	0.032	0.02	8.91E+04	4.45E+04	6.37E+04	5.99E+04	3.83E+04	3.73E+04	2.04E+04	1.83E+04	2.82E+04	3.91E+04	2.76E+04	2.86E+04	769.3148	3	22.17									
ENA2	YDR039C	AHNPENDL	[10]	Phospho	100.0	0.17	-1.88	-1.50	2.05	0.256	0.005	0.008	0.00	1.37E+04	7.84E+03	1.09E+04	1.16E+04	1.38E+04	1.10E+04	2.69E+03	2.53E+03	3.56E+03	4.55E+03	2.92E+03	3.99E+03	781.3183	2	31.96									
SRO9	YCL037C	DATSQENG	[3]	Phospho	50.0	0.82	-1.09	-0.49	1.91	0.093	0.044	0.125	0.02	4.20E+03	2.89E+03	2.23E+03	5.59E+03	3.05E+03	7.78E+03	2.29E+03	7.31E+02	1.33E+03	2.42E+03	1.54E+03	2.65E+03	785.3351	3	30.45									
ZRT2	YLR130C	DHYSHEND	[4]	Phospho	48.2	-0.53	-2.26	-0.79	1.73	0.085	0.002	0.014	0.04	2.51E+04	2.42E+04	2.95E+04	2.70E+04	1.22E+04	1.54E+04	1.17E+04	3.08E+03	1.65E+03	1.64E+04	9.67E+03	1.45E+04	558.7333	4	17.67									
RPC31	YNL151C	ELAEDVDD	[10]	Phospho	92.6	-0.53	-1.76	-0.04	1.23	0.010	0.000	0.427	0.00	3.14E+04	2.78E+04	3.52E+04	1.96E+04	2.42E+04	2.16E+04	1.15E+04	8.10E+03	8.25E+03	3.50E+04	2.29E+04	3.38E+04	872.3522	2	54.54									
BCD1	YHR040W	FIDNAREEE	[15]	Phospho	100.0	1.01	-1.44	-1.16	2.45	0.001	0.004	0.006	0.00	6.13E+04	4.76E+04	7.41E+04	1.29E+05	1.22E+05	1.17E+05	2.30E+04	2.10E+04	2.34E+04	2.56E+04	2.55E+04	3.05E+04	962.4076	3	53.88									
STB1	YNL309W	FSHIKPSAS	[10]	Phospho	99.2	-0.72	-1.70	-0.09	0.99	0.012	0.032	0.367	0.16	3.41E+04	4.77E+04	4.23E+04	2.71E+04	2.06E+04	2.78E+04	3.38E+04	1.62E+03	2.65E+03	3.30E+04	3.41E+04	4.96E+04	610.2928	3	19.02									
FBA1	YKL060C	GISNMQN	[14]	Phospho	100.0	-0.40	-1.51	-0.62	1.11	0.103	0.005	0.041	0.01	2.98E+04	1.94E+04	2.23E+04	2.24E+04	1.67E+04	1.51E+04	6.28E+03	7.98E+03	1.09E+04	1.89E+04	1.26E+04	1.51E+04	649.2921	2	23.98									
PCL6	YER059W	HESPSNESS	[3]	Phospho	100.0	0.28	-2.07	-1.06	2.35	0.303	0.045	0.100	0.01	6.95E+03	2.54E+03	3.23E+03	6.73E+03	3.61E+03	5.12E+03	1.55E+03	4.38E+01	1.42E+03	1.71E+03	1.45E+03	2.93E+03	705.282	2	40.69									
SKY1	YMR216C	HVSRSDSIT	[3]	Phospho	92.6, 53.5	-0.94	-1.64	-0.68	0.71	0.046	0.014	0.124	0.07	9.40E+03	5.19E+03	5.73E+03	4.43E+03	3.87E+03	2.31E+03	1.50E+03	2.25E+03	2.73E+03	6.83E+03	3.54E+03	2.33E+03	669.9284	3	33.94									
YSL1	YML100W	IASPIQHEH	[3]	Phospho	100.0	0.34	-1.22	-0.24	1.55	0.010	0.004	0.035	0.00	2.31E+04	2.80E+04	2.44E+04	3.15E+04	3.35E+04	3.02E+04	1.52E+04	6.89E+03	1.03E+04	2.12E+04	2.23E+04	2.04E+04	807.3566	2	33.97									
YSH1	YLR277C	DEPKENEEL	[14]	Phospho	100.0	2.54	-1.10	-1.77	3.64	0.000	0.006	0.003	0.00	9.71E+03	1.46E+04	1.43E+04	7.44E+04	7.11E+04	7.93E+04	6.21E+03	5.81E+03	6.03E+03	2.51E+03	4.04E+03	4.75E+03	1090.983	2	38.79									
SAP190	YKR028W	ISEHRDGN	[9]	Phospho	83.9	-0.86	-1.28	-0.48	0.41	0.006	0.018	0.032	0.22	3.70E+03	2.71E+03	2.79E+03	1.61E+03	1.63E+03	1.80E+03	8.15E+02	7.15E+02	2.24E+03	2.37E+03	1.93E+03	2.29E+03	863.3454	3	15.07									
BEM3	YPL115C	ITIKSPNK	[5]	Phospho	100.0	-0.78	-2.33	-1.01	1.55	0.056	0.006	0.032	0.03	1.54E+04	1.13E+04	8.70E+03	9.58E+03	4.78E+03	6.34E+03	2.59E+03	6.60E+02	3.80E+03	4.15E+03	5.12E+03	8.38E+03	490.7625	2	16.51									
ESBP6	YNL125C	KLSISR	[3]	Phospho	100.0	-0.27	-1.09	-0.22	0.82	0.079	0.033	0.135	0.07	8.11E+03	6.12E+03	7.93E+03	5.73E+03	5.82E+03	6.84E+03	6.32E+03	1.95E+03	2.12E+03	5.69E+03	5.89E+03	7.39E+03	392.2085	2	22.36									
HRK1	YOR267C	KLSMSQLR	[3]	Phospho	99.9	-0.08	-1.10	0.51	1.11	0.464	0.020	0.212	0.20	2.94E+03	4.52E+03	2.78E+03	1.95E+03	6.73E+03	1.03E+03	1.77E+03	1.91E+03	1.07E+03	2.26E+03	1.76E+03	1.51E+03	521.7595	2	32.75									
PDS1	YDR113C	KLSQISR	[3]	Phospho	100.0	0.47	-1.17	-0.79	1.63	0.127	0.026	0.112	0.02	1.28E+04	9.90E+03	8.37E+03	1.96E+04	1.10E+04	1.23E+04	2.72E+03	3.16E+03	7.93E+03	2.41E+03	4.05E+03	1.14E+04	456.2389	2	21.02									
PIB2	YGL023C	KLSSEFK	[3]	Phospho	50.0	0.64	-1.05	-0.18	1.70	0.016	0.042	0.254	0.01	2.53E+03	2.78E+03	2.94E+03	4.15E+03	3.58E+03	5.18E+03	2.36E+03	2.32E+02	1.36E+03	1.74E+03	2.31E+03	3.23E+03	395.1988	2	22.17									
LEO1	YOR123C	KQSILR	[3]	Phospho	100.0	1.40	-1.15	-0.69	2.55	0.002	0.007	0.013	0.00	3.37E+03	2.32E+03	3.05E+03	7.47E+03	6.59E+03	9.06E+03	1.69E+03	1.35E+03	8.74E+02	1.96E+03	1.65E+03	1.80E+03	476.7519	2	41.17									
TOF2	YKR010C	KSSLEIK	[3]	Phospho	99.5	-0.13	-1.05	-0.25	0.92	0.343	0.037	0.239	0.03	1.73E+03	9.12E+02	1.49E+03	1.49E+03	1.24E+03	1.04E+03	1.00E+03	5.37E+02	4.41E+02	1.31E+03	1.27E+03	8.94E+02	442.7279	2	15.3									
SWI3	YIL176C	LDSQETPSI	[3]	Phospho	100.0	3.31	-2.95	-2.50	6.25	0.000	0.036	0.040	0.00	5.35E+02	7.03E+02	1.61E+03	9.19E+03	1.04E+04	9.01E+03	2.67E+02	0.00E+00	7.53E+01	2.35E+02	8.82E+01	1.55E+02	779.8177	2	40.95									
ABF1	YKL112W	NDTDDSDI	[7]	Phospho	100.0	4.92	-1.94	-0.50	6.81	0.019	0.031	0.290	0.02	1.22E+02	4.41E+01	6.17E+01	4.05E+03	1.16E+03	2.67E+03	0.00E+00	1.40E+01	2.37E+01	1.17E+02	2.67E+01	1.14E+01	615.7305	2	15.88									
HXT1	YHR094C	NESFHDLN	[11]	Phospho	97.3	-0.23	-1.10	-0.44	0.88	0.295	0.013	0.081	0.07	3.87E+04	2.38E+04	3.56E+04	3.38E+04	1.47E+04	3.54E+04	1.21E+04	1.92E+04	1.43E+04	2.57E+04	2.02E+04	2.66E+04	662.3019	4	22.72									
YDR348C	YDR348C	NLSLRDNY	[3]	Phospho	95.2	-0.41	-1.94	-0.10	1.53	0.031	0.009	0.313	0.03	2.20E+04	2.16E+04	2.58E+04	2.04E+04	1.42E+04	1.77E+04	1.45E+04	1.58E+03	1.95E+03	2.46E+04	1.67E+04	2.35E+04	737.9978	3	31.47									
KDL1	YHR158C	NNSPILETL	[3]	Phospho	100.0	-0.51	-2.24	-0.48	1.73	0.011	0.000	0.000	0.00	8.19E+04	8.64E+04	7.93E+04	6.65E+04	6.18E+04	4.53E+04	1.78E+04	1.30E+04	2.15E+04	6.04E+04	5.95E+04	5.81E+04	874.9283	2	24.33									
GIN4	YDR507C	NRESLIVT	[4]	Phospho	99.7	-0.35	-1.01	-0.82	0.66	0.081	0.009	0.024	0.00	4.88E+03	7.62E+03	6.33E+03	4.86E+03	4.87E+03	5.02E+03	3.11E+03	2.78E+03	3.44E+03	2.47E+03	3.97E+03	4.21E+03	714.8461	2	24.95									
HXT1	YHR094C	NSTPDLSP	[2]	Phospho	99.8	-0.05	-1.20	-0.47	1.15	0.464	0.049	0.226	0.06	1.16E+04	1.11E+04	2.27E+04	1.00E+04	1.14E+04	2.24E+04	9.13E+03	5.83E+03	4.76E+03	1.74E+04	6.05E+03	9.35E+03	640.3004	2	30.3									
FEN1	YCR034W	NVPTSPSPF	[4]	Phospho	100.0, 99.5	-0.68	-1.42	-0.95	0.74	0.009	0.001	0.003	0.02	1.40E+06	1.16E+06	1.16E+06	9.46E+05	7.13E+05	6.69E+05	5.04E+05	3.53E+05	5.39E+05	7.78E+05	5.40E+05	6.08E+05	851.3798	2	17.01									
GNP1	YDR508C	RAEGSHAN	[26]	Phospho	68.2, 86.7	-0.69	-1.13	-0.11	0.45	0.038	0.012	0.350	0.07	1.44E+05	8.64E+04	1.22E+05	8.82E+04	6.94E+04	6.20E+04	4.43E+04	6.72E+04	4.94E+04	1.29E+05	8.26E+04	1.15E+05	984.1688	4	36.86									
MHP1	YIL042W	RASFSLHNT	[3]	Phospho	50.0	-0.10	-1.41	-0.83	1.31	0.131	0.003	0.021	0.00	2.07E+04	2.25E+04	1.93E+04	2.05E+04	1.91E+04	1.88E+04	1.24E+04	5.33E+03	5.68E+03	7.47E+03	1.03E+04	1.74E+04	592.6236	3	21.16									
PAH1	YMR165C	RASSAAAT	[3]	Phospho	98.9	-0.10	-1.26	-0.66	1.17	0.382	0.038	0.105	0.02	3.91E+04	2.69E+04	2.08E+04	2.72E+04	2.33E+04	3.07E+04	1.53E+04	2.96E+03	1.79E+04	1.33E+04	1.42E+04	2.75E+04	629.2951	2	51.99									
MSB1	YOR188W	RDSAPDNG	[3]	Phospho																																	