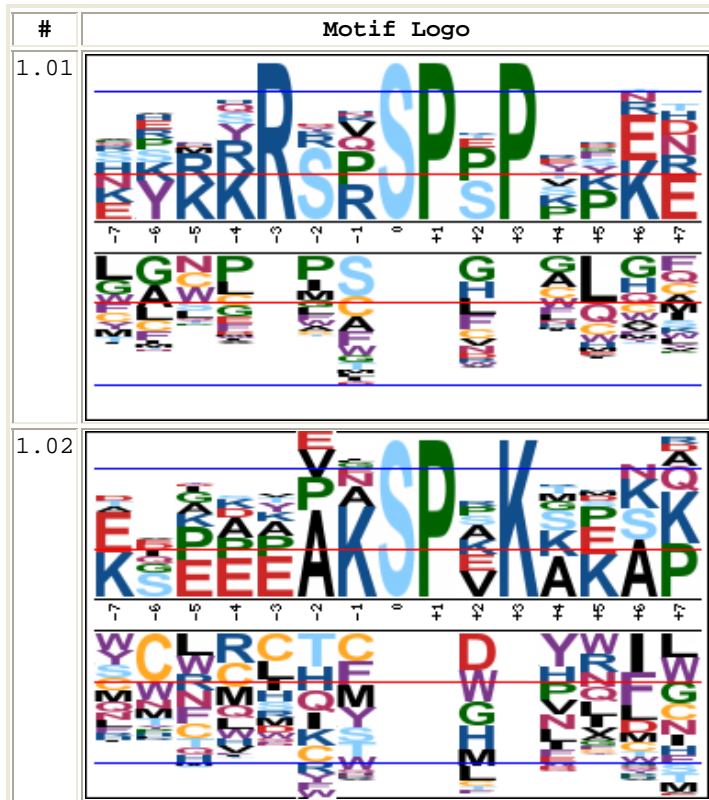


xxxxmotif-xxxxx

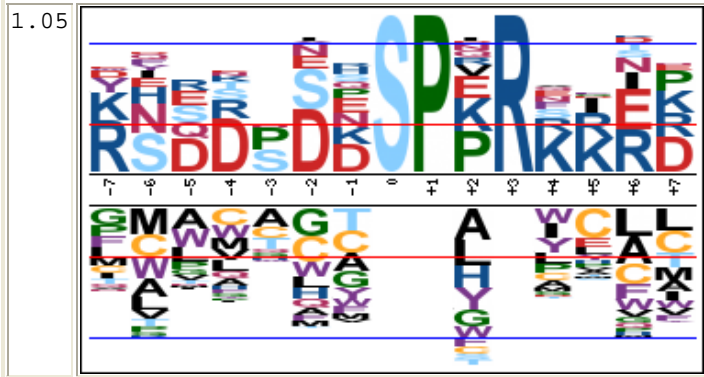
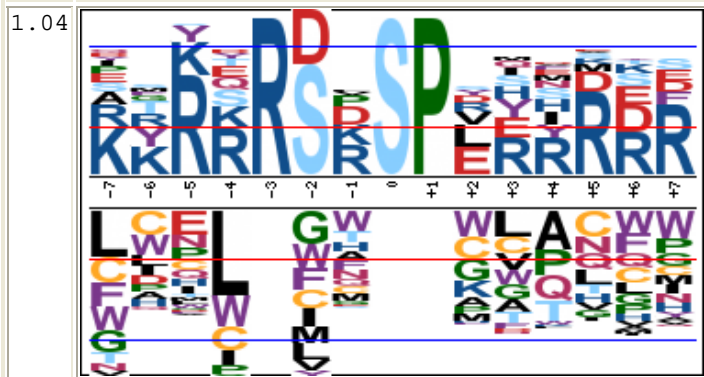
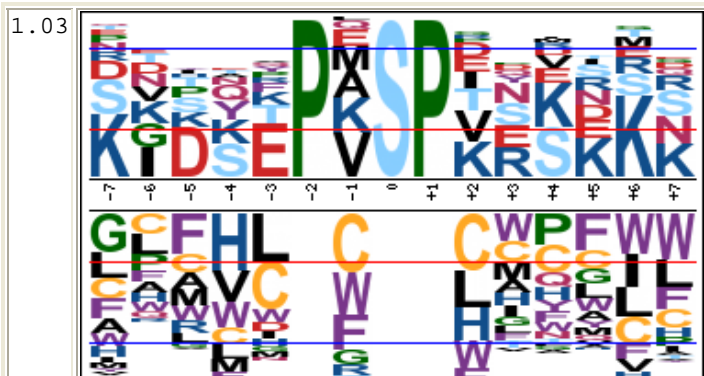
v1.2 10.05.06

Supplementary Table 4 Human Serine and Threonine Phosphorylation Motifs

Serine Phosphorylation Motifs



#	Motif	Motif Score	Foreground Matches	Foreground Size	Background Matches	Background Size	Fold Increase	-Log(P) Value
1.01R..SP.P....	386.42	117	11741	626	1088700	17.33	98.6924
1.02SP.K....	366.86	326	11624	3161	1088074	9.65	197.3139
1.03P.SP.....	360.67	623	11298	8933	1084913	6.70	291.6096
1.04R..SP.....	358.34	304	10675	3710	1075980	8.26	165.7580
1.05SP.R....	350.38	272	10371	3808	1072270	7.39	136.7805
1.06SP.....K	341.06	167	10099	2443	1068462	7.23	82.8922
1.07SP....K.	337.56	148	9932	2377	1066019	6.68	69.1975
1.08SP...RR.	347.60	50	9784	333	1063642	16.32	41.5263
1.09	.R.R..S..E....	473.12	71	9734	302	1063309	25.68	71.8597
1.10SP.....	324.00	1657	9663	55618	1063007	3.28	324.0000
1.11	.R.R..S.....	433.55	438	8006	4870	1007389	11.32	294.2096
1.12SD.E.E..	466.07	127	7568	503	1002519	33.45	141.9587
1.13SQE.....	294.63	222	7441	3782	1002016	7.90	117.7324
1.14SD.E.D..	337.21	64	7219	311	998234	28.46	67.6498
1.15	...RR.S.....	295.05	269	7155	4189	997923	8.96	155.6580
1.16DSE.E....	326.11	94	6886	480	993734	28.26	98.6610
1.17SQD.....	201.18	119	6792	2503	993254	6.95	57.6700
1.18SDDE....	253.27	43	6673	225	990751	28.37	45.7157
1.19SE.E.E..	234.22	88	6630	687	990526	19.14	78.1595
1.20SQG.....	162.01	131	6542	3506	989839	5.65	53.4847
1.21RS.S.....	175.73	211	6411	5520	986333	5.88	88.8284
1.22SD.E....	185.85	174	6200	3161	980813	8.71	98.9593



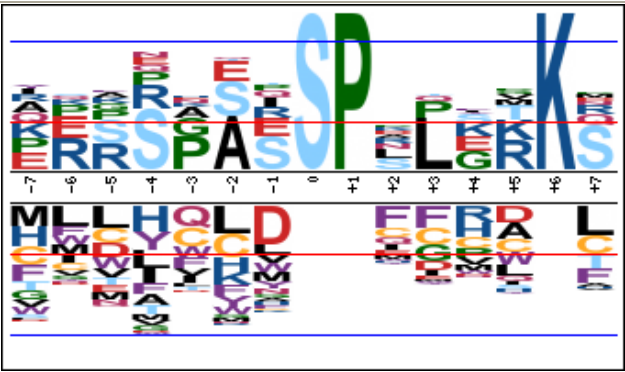
1.23	<u>.....DSD.D.....</u>	207.21	66	6026	348	977652	30.77	71.9246
1.24	<u>.....SQ.....</u>	118.31	673	5960	40155	977304	2.75	118.3113
1.25	<u>..K.R.S.....</u>	114.08	85	5287	2193	937149	6.87	41.1139
1.26	<u>.....SD.D....</u>	136.96	140	5202	2583	934956	9.74	85.9347
1.27	<u>.....SE.E.D...</u>	132.12	39	5062	283	932373	25.38	39.7445
1.28	<u>.....S.E.E...</u>	101.68	135	5023	4326	932090	5.79	56.3899
1.29	<u>...R.S.....</u>	76.23	516	4888	39378	927764	2.49	76.2322
1.30	<u>.....S.DE....</u>	95.52	104	4372	2554	888386	8.27	57.5043
1.31	<u>...KR.S.....</u>	82.14	93	4268	2845	885832	6.78	44.5307
1.32	<u>.....SE.D....</u>	75.78	105	4175	2925	882987	7.59	54.6256
1.33	<u>.....S..S..E.</u>	61.70	129	4070	6100	880062	4.57	43.2858
1.34	<u>.....R.S.S....</u>	53.99	102	3941	4908	873962	4.61	34.6506
1.35	<u>.....S.EE....</u>	56.63	104	3839	4900	869054	4.80	36.8202
1.36	<u>.....DS.D....</u>	47.44	61	3735	2143	864154	6.59	28.8422
1.37	<u>.....S...D.D.</u>	41.13	59	3674	2216	862011	6.25	26.7769
1.38	<u>.R..S..S.....</u>	37.86	87	3615	5970	859795	3.47	21.5378
1.39	<u>.....S...S...</u>	26.13	592	3528	92235	853825	1.55	26.1328
1.40	<u>...K..S.....</u>	23.75	292	2936	40122	761590	1.89	23.7474
1.41	<u>.....R.S.....</u>	22.79	250	2644	34623	721468	1.97	22.7874
1.42	<u>.....S..EE...</u>	32.39	62	2394	3860	686845	4.61	21.4613
1.43	<u>.....SD.....</u>	17.87	190	2332	27948	682985	1.99	17.8738
1.44	<u>...S..S.....</u>	14.76	358	2142	72178	655037	1.52	14.7554
1.45	<u>.....S.S.....</u>	15.99	292	1784	58475	582859	1.63	15.9912
1.46	<u>.....S.E.....</u>	11.11	149	1492	29093	524384	1.80	11.1053
1.47	<u>.....S.D.....</u>	11.46	125	1343	23748	495291	1.94	11.4614
1.48	<u>.....S..E....</u>	10.21	128	1218	27022	471543	1.83	10.2057
1.49	<u>.....S.....</u>	0.00	1090	1090	444521	444521	1.00	0.0000

Motif search time: 5 minutes, 20 seconds

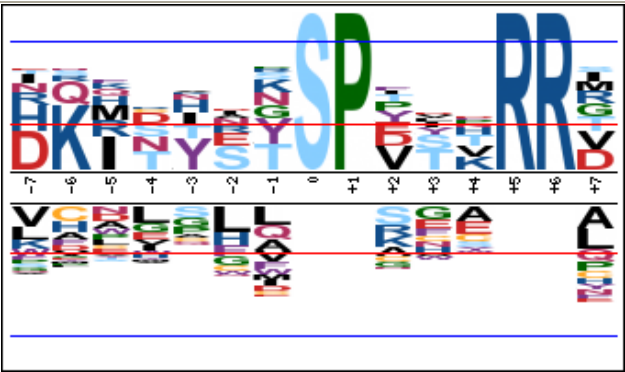
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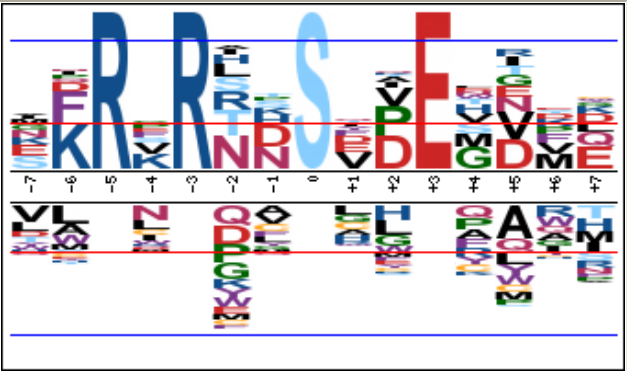
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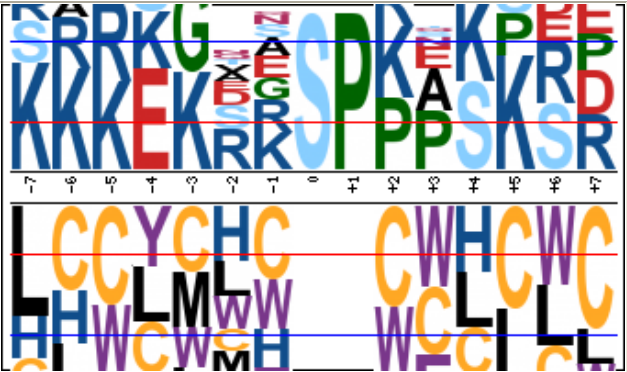
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1.09



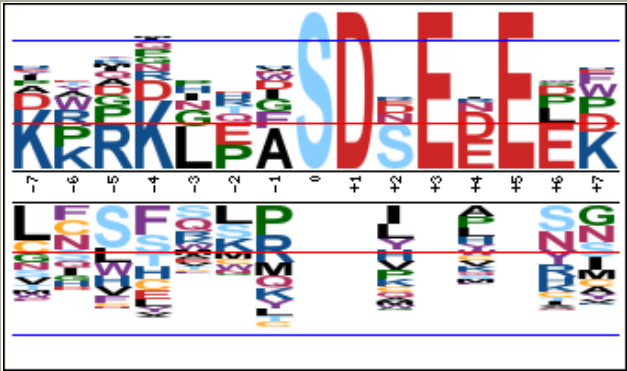
1.10



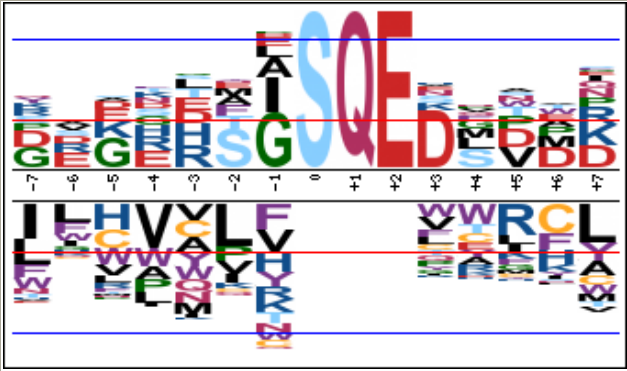
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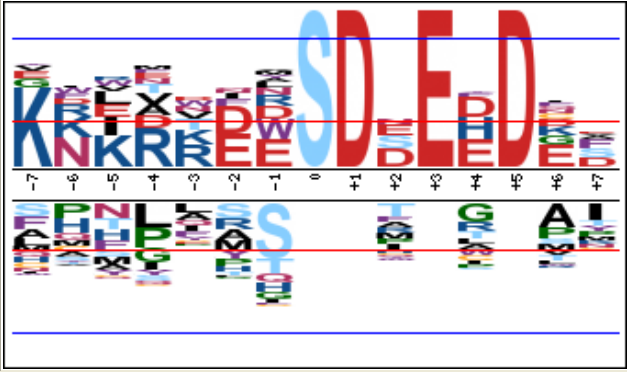
1.12



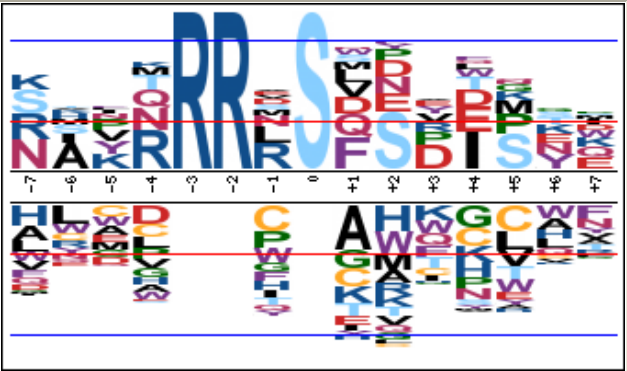
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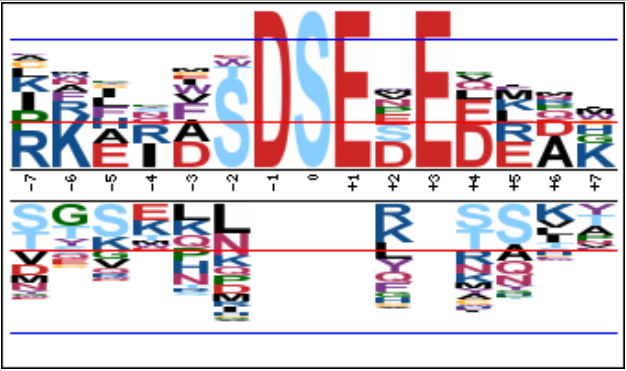
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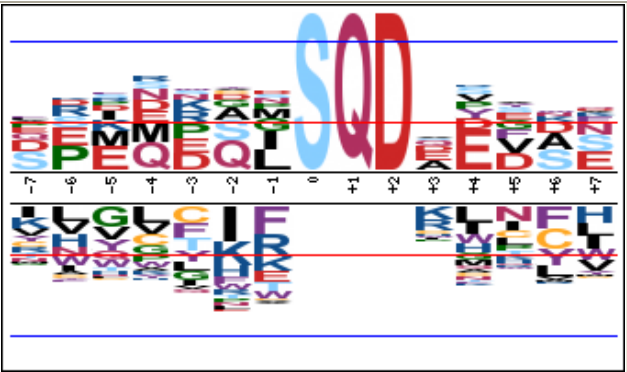
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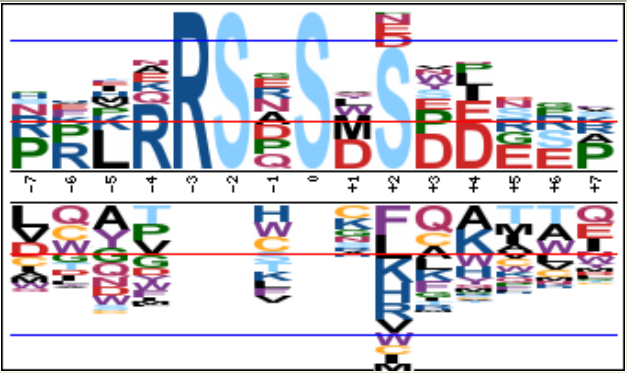
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1.17



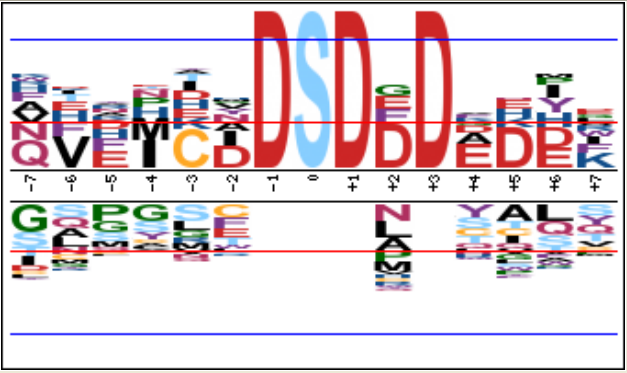
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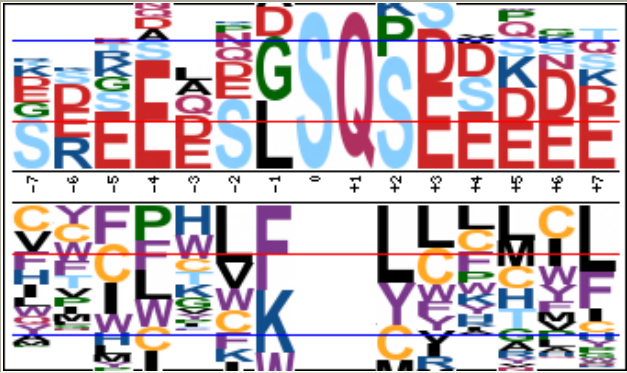
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1.23



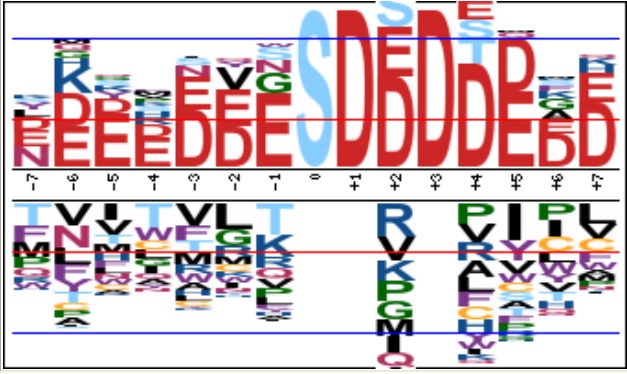
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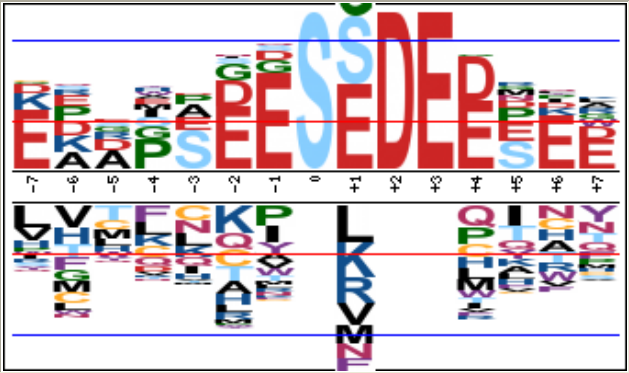
1.25



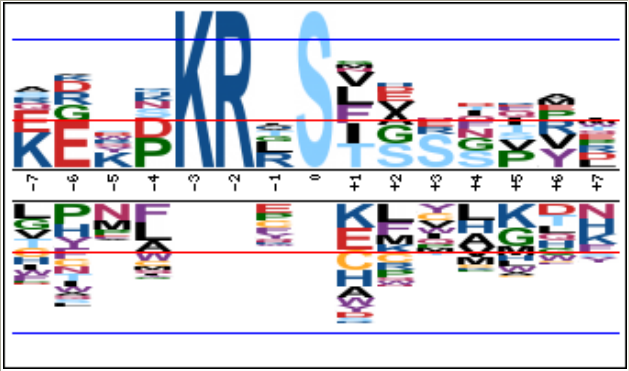
1.26



1.30



1.31



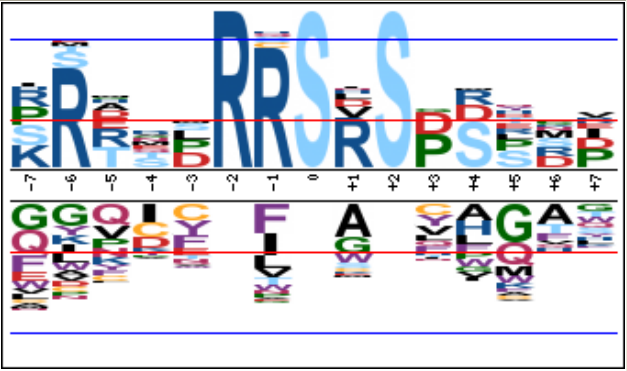
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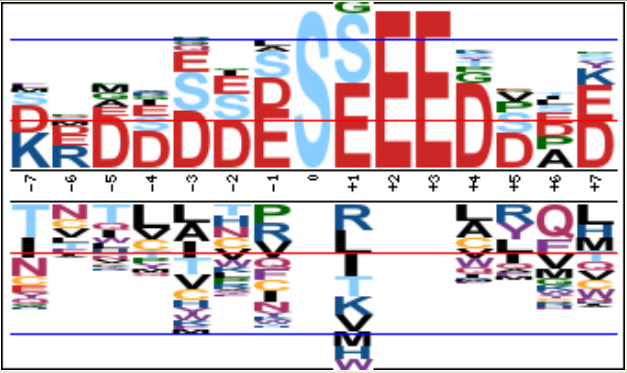
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1.34



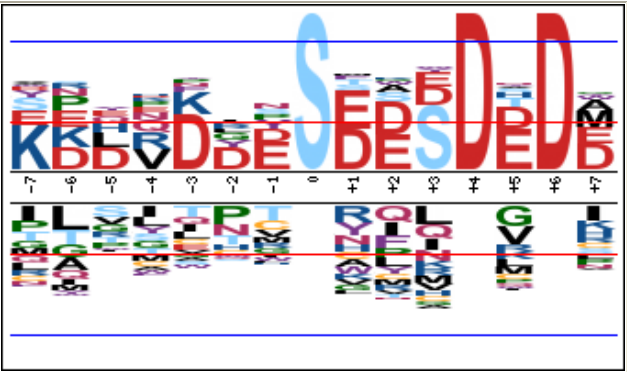
1.35



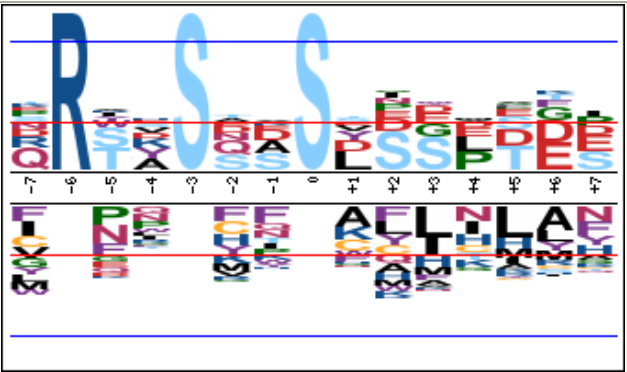
1.36



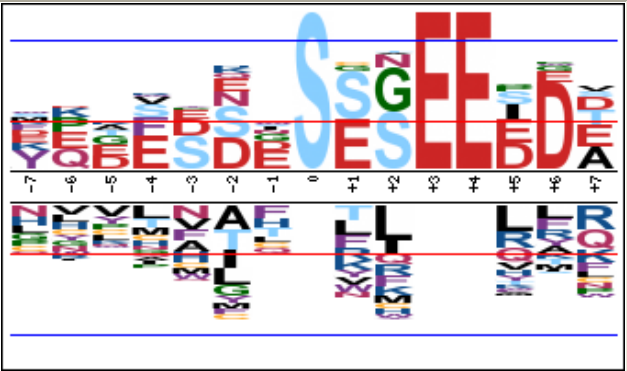
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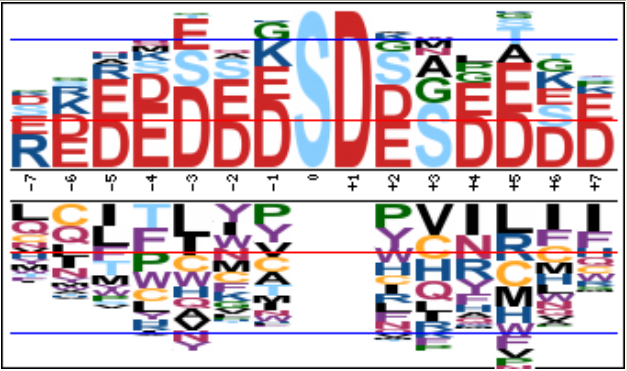
1.38



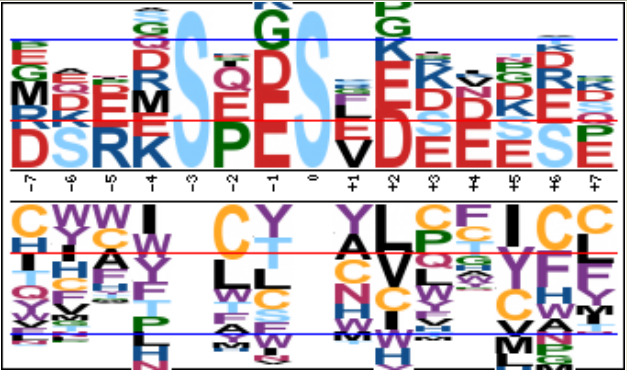
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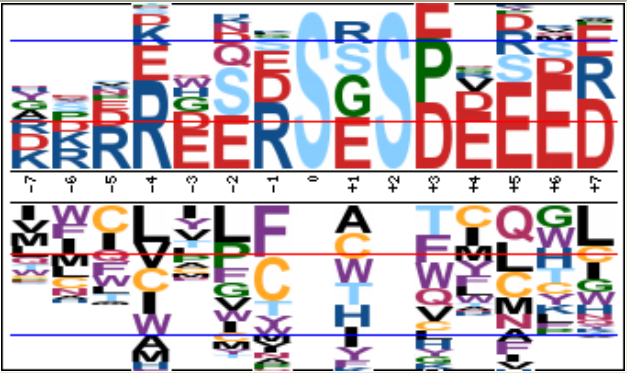
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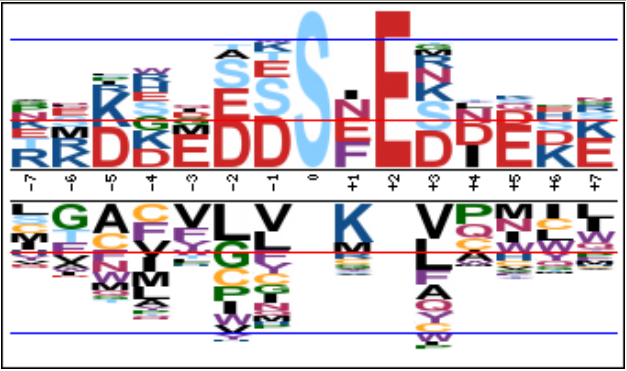
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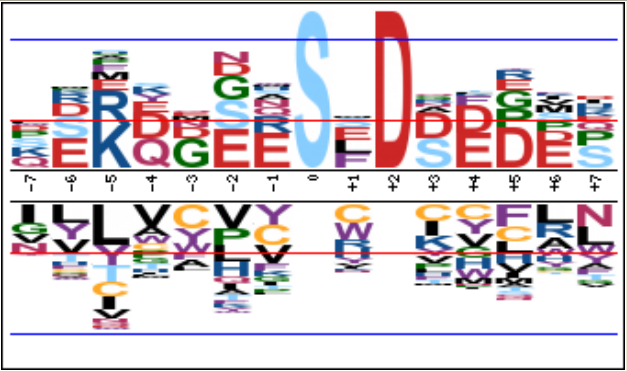
1.45



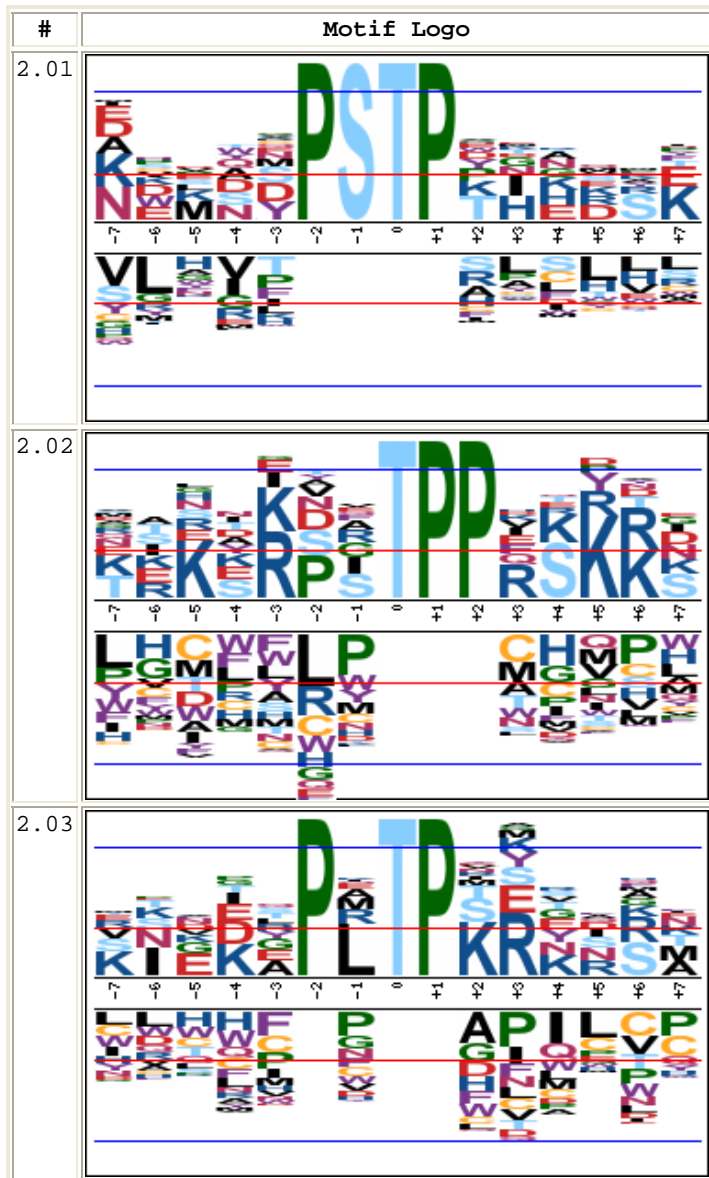
1.46



1.47



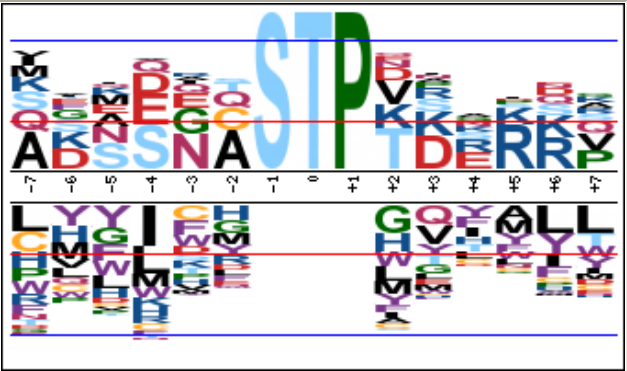
Threonine Phosphorylation Motifs



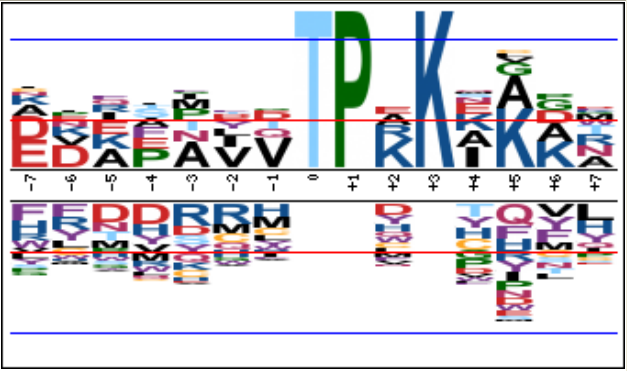
#	Motif	Motif Score	Foreground Matches	Foreground Size	Background Matches	Background Size	Fold Increase	-Log(P) Value
2.01	<u>.....PSTP.....</u>	377.77	71	3028	516	689058	31.31	77.9933
2.02	<u>.....TPP.....</u>	354.34	229	2957	3948	688542	13.51	171.7378
2.03	<u>.....P.TP.....</u>	346.60	203	2728	4328	684594	11.77	141.0301
2.04	<u>.....STP.....</u>	353.51	182	2525	3689	680266	13.29	135.3844
2.05	<u>.....TP.K....</u>	247.07	80	2343	1565	676577	14.76	62.9766
2.06	<u>.....TP.....</u>	184.20	515	2263	33617	675012	4.57	184.2047
2.07	<u>..R.R..T.....</u>	88.83	76	1748	2537	641395	10.99	51.0128
2.08	<u>.....TQ.....</u>	52.88	243	1672	30058	638858	3.09	52.8799
2.09	<u>....R..T.....</u>	32.73	193	1429	31299	608800	2.63	32.7313
2.10	<u>.....TD.E....</u>	64.52	73	1236	2155	577501	15.83	59.9886
2.11	<u>.....T..D....</u>	12.61	114	1163	26911	575346	2.10	12.6050
2.12	<u>.....T.....</u>	0.00	1049	1049	548435	548435	1.00	0.0000

Motif search time: 1 minute, 14 seconds

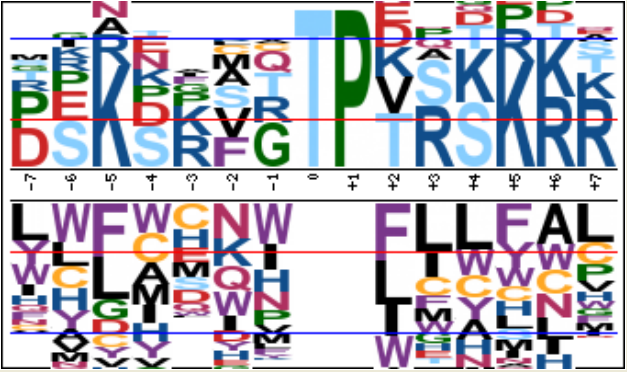
2.04



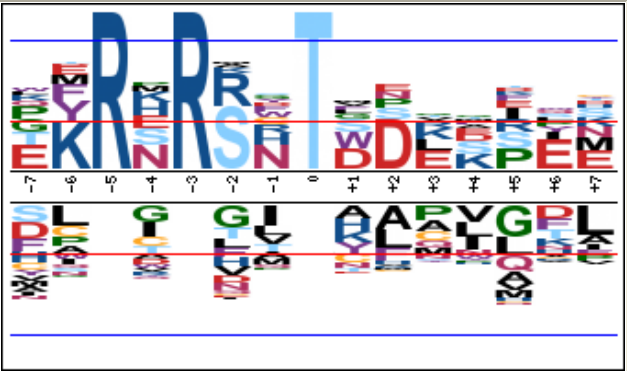
2.05



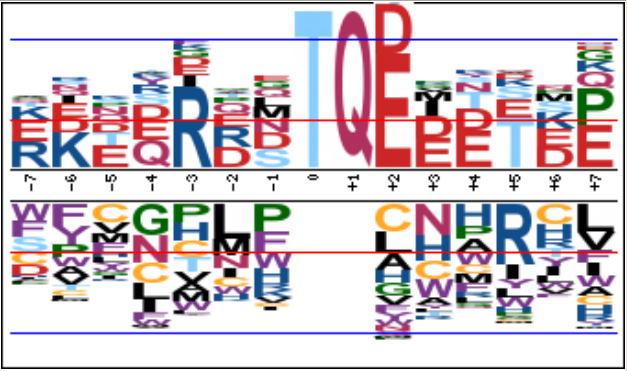
2.06



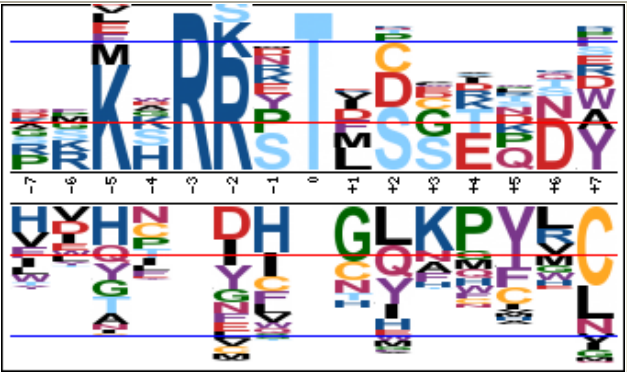
2.07



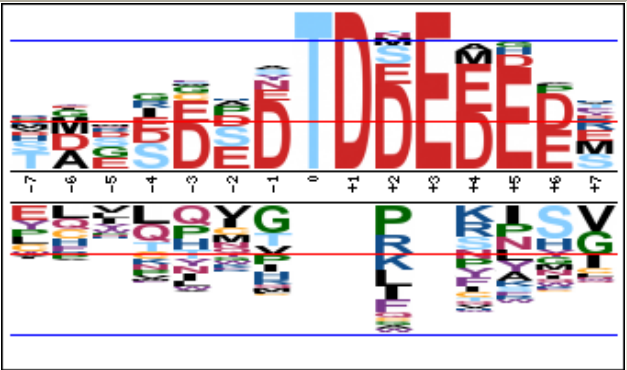
2.08



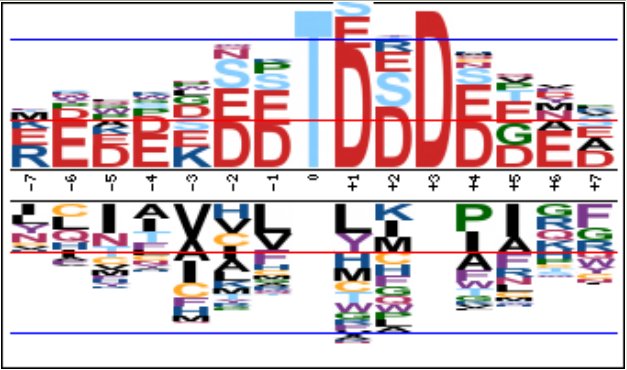
2.09



2.10



2.11



2.12

