

Structure of smAKAP and its regulation by PKA-mediated phosphorylation

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Supplementary Table 1: Identified PKAR1 α peptides of the hydrogen/deuterium exchange experiment displaying their individual deuterium incorporation over time.

Sequence	Protein	Start	End	Molecular hydrophobicity	Charge
ASGTTASEEERSLRE	PKA_R1a	2	16	1622.7616	2.64
ASGTTASEEERSLRECE	PKA_R1a	2	18	1854.8134	2.68
LYVQKHNIQAL	PKA_R1a	19	29	1326.7528	2.59
YVQKHNIQ	PKA_R1a	20	27	1029.5476	2.17
YVQKHNIQAL	PKA_R1a	20	29	1213.6688	2.3
ALLKDSIVQL	PKA_R1a	28	37	1099.6721	1.97
KDSIVQL	PKA_R1a	31	37	802.4669	1.44
CTARPERPMA	PKA_R1a	38	47	1131.5398	2.33
CTARPERPMAF	PKA_R1a	38	48	1278.6082	2.59
CTARPERPMAFL	PKA_R1a	38	49	1391.6922	2.65
ARPERPMAF	PKA_R1a	40	48	1074.5513	2
EKEEAKQIQNL	PKA_R1a	57	67	1329.7009	2.36
IQNLQKA	PKA_R1a	64	70	814.4781	2
VYTEEDAAS	PKA_R1a	103	111	984.4156	1.38
LAKAIEKNVL	PKA_R1a	127	136	1098.6881	2.38
AKAIEKNVL	PKA_R1a	128	136	985.6041	1.97
FSHLDDNE	PKA_R1a	137	144	976.4007	1.86
FSHLDDNERSDIF	PKA_R1a	137	149	1594.7132	2.64
DAMFPVSF	PKA_R1a	150	157	913.4124	1.32
IAGETVIQQGDEGDN	PKA_R1a	158	172	1545.7027	2.01
IAGETVIQQGDEGDNF	PKA_R1a	158	173	1692.7711	2.04
TVIQQGDEGDNF	PKA_R1a	162	173	1322.5859	1.87
YVIDQGEM	PKA_R1a	174	181	954.4237	1.22
YVIDQGEMD	PKA_R1a	174	182	1069.4507	1.44
YVIDQGEMDV	PKA_R1a	174	183	1168.5191	1.51
DVYVNNE	PKA_R1a	182	188	852.3734	1.19
WATSVGEGGSF	PKA_R1a	189	199	1097.4898	1.36
WATSVGEGGSFGEL	PKA_R1a	189	202	1396.6379	1.89
FGELALI	PKA_R1a	199	205	762.4396	1
ALIYGTTPRAAT	PKA_R1a	203	213	1133.6313	1.94
WGIDRDSY	PKA_R1a	223	230	1011.453	1.9
RRILMGSTL	PKA_R1a	231	239	1046.6139	1.99
FLSKVSIL	PKA_R1a	248	255	906.5659	1.94
LSKVSIL	PKA_R1a	249	255	759.4975	1.72
ESLDKWERLTVA	PKA_R1a	256	267	1446.7587	2.66
TVADALE	PKA_R1a	265	271	718.3618	1.03
DALEPVQF	PKA_R1a	268	275	918.4567	1.5
ALEPVQF	PKA_R1a	269	275	803.4298	1.5
PVQFEDGQKIVVQGEPEGDEF	PKA_R1a	272	291	2218.0663	2.7
PVQFEDGQKIVVQGEPEGDEFF	PKA_R1a	272	292	2365.1347	2.87
EDGQKIVVQGEPEGDEF	PKA_R1a	276	291	1746.8181	2.12
IILEGSA	PKA_R1a	293	299	702.4032	1.02
AVLQRRSENEEF	PKA_R1a	300	311	1477.7394	2.42

VLQRRSENEEF	PKA_R1a	301	311	1406.7023	2.36
FVEVGRLGPSD	PKA_R1a	311	321	1175.6055	2.08
FVEVGRLGPSDY	PKA_R1a	311	322	1338.6688	1.98
FVEVGRLGPSDYFGE	PKA_R1a	311	325	1671.8013	2.07
VEVGRLGPSDY	PKA_R1a	312	322	1191.6004	1.95
VEVGRLGPSDYFGE	PKA_R1a	312	325	1524.7329	2.01
LLMNRPRAAT	PKA_R1a	328	337	1142.6463	2.46
LLMNRPRAATV	PKA_R1a	328	338	1241.7147	2.6
LMNRPRAAT	PKA_R1a	329	337	1029.5622	2.16
LMNRPRAATV	PKA_R1a	329	338	1128.6306	2.26
VVARGPLKC	PKA_R1a	338	346	942.5553	2.18
VARGPLKC	PKA_R1a	339	346	843.4869	2
ARGPLKC	PKA_R1a	340	346	744.4185	2
ERVLGPCSD	PKA_R1a	355	363	975.4564	1.82
ERVLGPCSDIL	PKA_R1a	355	365	1201.6245	1.95
ILKRNIQQYNSF	PKA_R1a	364	375	1523.8329	2.44
KRNIQQYNSF	PKA_R1a	366	375	1297.6648	2.12

Retention time	Intensity	smAKAP_plus_H2O_1(0.00)	smAKAP_plus_H2O_2(0.00)
5.09	61777	1623.6551	1623.6313
5.96	12989	1855.964	1855.8029
6	35923	1327.5533	1327.5358
3.84	12072	1030.1373	1029.8837
5.46	142595	1214.4019	1214.3348
7.73	8051	1100.4074	1100.3364
6.69	29138	802.9622	803.0198
4.36	7684	1132.4095	1132.0996
6.27	270630	1279.4869	1279.5195
7.44	20214	1392.51	1392.1277
6.27	13836	1075.1989	1075.1286
5.45	13738	1330.4493	1330.3759
5.3	1812	814.8471	814.8697
4.91	2369	984.921	984.842
5.74	69670	1100.7698	1099.2284
5.27	76748	986.0894	986.045
5.24	55036	976.8437	976.8271
7.08	96943	1595.5392	1595.5304
9.24	2066	913.9138	914.0201
5.76	19976	1546.496	1546.3102
7.06	175961	1693.6983	1693.509
6.61	14563	1323.2404	1323.2087
6.93	25547	954.8391	954.7445
6.62	4542	1070.0193	1069.9411
7.44	66654	1169.0322	1168.9465
5.26	10873	852.7378	852.6928
7.64	50215	1097.9725	1097.8846
8.5	43102	1397.3272	1397.2119
9.22	1451	762.834	762.7913
5.98	27204	1134.209	1134.189
7.13	200458	1011.9335	1011.8899
6.42	49509	1047.1248	1047.1232
7.66	27578	907.0568	906.993
6.87	195210	759.8188	759.8066
7.28	6539	1447.5676	1447.5549
6.11	35184	718.6219	718.5698
8.03	1351	918.9297	918.9009
7.86	1398	804.1861	803.7553
7.36	76724	2219.4705	2219.2618
8.27	2992	2366.5001	2366.3522
6.74	19121	1747.8057	1747.7613
6.38	20657	702.6944	702.6198
5.73	14244	1478.6029	1478.548

5.52	3790	1407.5281	1407.487
6.69	14511	1176.4058	1176.1895
7.13	261994	1339.3113	1339.2901
7.99	4127	1673.091	1673.4046
6.51	122086	1192.1561	1192.116
7.55	8130	1525.5558	1525.5684
5.04	3564	1143.3199	1143.3229
5.56	2023	1242.3398	1242.4987
4.19	29180	1030.1548	1030.1206
4.84	11210	1129.3203	1129.2919
5.09	51184	943.1142	943.0589
5.09	15525	843.9872	843.9017
5.09	10021	744.8005	744.7476
5.69	63850	975.9352	975.9051
7.89	270741	1202.2178	1202.1835
6.2	81474	1524.5727	1524.634
6.29	32024	1298.2529	1302.6753

smAKAP_plus_H2O_3(0.00)	smAKAP_plus_D20_10sec_1(0.17)	smAKAP_plus_D20_10sec_2(0.17)
1623.6106	1629.4372	1629.8832
1855.553	1861.8118	1863.2039
1327.4737	1327.7947	1328.3368
1029.9126	1029.9288	1030.4023
1214.3198	1214.6593	1214.9669
1100.3581	1100.393	1100.5438
802.9506	803.1643	803.1378
1132.0891	1132.8932	1133.184
1279.4288	1280.5123	1280.6794
1392.3391	1393.3637	1393.2941
1075.1759	1075.9619	1075.9547
1330.2198	1332.3518	1332.6541
814.9246	815.547	815.8612
984.8503	987.8936	987.9859
1099.205	1100.5156	1100.5937
986.0434	987.2114	987.2594
976.8023	977.3884	977.469
1595.5041	1595.9343	1596.213
913.9306	914.0587	914.0001
1546.3697	1547.3497	1547.7229
1693.4806	1694.8419	1694.9296
1323.1259	1323.9588	1324.1231
954.7337	955.0356	955.1813
1069.9282	1070.2916	1070.2888
1168.935	1169.2818	1169.3737
852.6764	853.2028	853.1575
1097.8666	1098.7028	1098.7933
1397.1979	1398.1486	1398.2146
762.7674	762.9802	762.9991
1134.189	1134.7818	1134.8164
1011.8958	1012.1234	1012.2404
1047.1014	1048.0804	1047.9883
906.9769	908.0996	908.1818
759.7975	760.7284	760.8164
1447.5337	1447.924	1448.8111
718.5686	718.8292	718.8719
918.7649	919.1123	918.8557
803.6615	804.7995	804.5886
2219.2056	2220.1139	2220.4085
2366.3818	2366.7158	2366.6049
1747.734	1748.405	1748.5541
702.5993	702.8751	702.9328
1478.5523	1480.3947	1480.4111

1407.4898	1409.3326	1409.7353
1176.2343	1176.9513	1177.2443
1339.2693	1339.8514	1339.9177
1673.1187	1673.6001	1673.7094
1192.1199	1192.5757	1192.6002
1525.5672	1526.1201	1526.1144
1143.3323	1144.2508	1144.4343
1242.4482	1243.0364	1243.093
1030.1047	1030.8331	1030.8546
1129.2968	1129.9295	1129.8798
943.0441	943.3612	943.4555
843.8833	844.1934	843.8555
744.7773	744.9674	745.0085
975.9132	976.6656	976.7076
1202.1899	1202.8031	1202.895
1524.638	1526.7724	1526.5428
1302.6753	1299.9569	1299.8663

smAKAP_plus_D20_10sec_3(0.17)	smAKAP_plus_D20_1min_1(1.00)
1629.7644	1631.2297
1861.7811	1864.0784
1328.0174	1328.7843
1030.1358	1030.6524
1214.7332	1214.9513
1100.5827	1100.5331
803.0575	803.1697
1132.8557	1132.8102
1280.3237	1280.3842
1393.3289	1393.0839
1075.7735	1075.8316
1332.2389	1333.305
815.6296	816.7909
987.7898	988.7435
1100.1974	1101.5303
987.091	988.0497
977.3166	977.7144
1596.0904	1596.55
914.2753	914.266
1547.267	1548.701
1694.9238	1695.918
1323.9777	1324.5849
955.0291	955.1586
1070.2231	1070.2754
1169.2633	1169.3736
853.2066	853.4672
1098.6628	1099.4637
1398.1123	1398.8102
762.9792	763.0096
1134.699	1135.2281
1012.1894	1012.1843
1047.4004	1048.53
907.9748	908.5794
760.6352	761.187
1448.1928	1448.9395
718.8114	718.8742
919.1601	919.3534
804.9021	804.3012
2220.2112	2220.6299
2366.494	2365.8174
1748.3335	1748.8516
702.9304	703.0066
1480.0585	1481.2973

1409.0235	1409.8029
1176.9824	1177.4814
1339.8323	1340.237
1673.9542	1673.8247
1192.5489	1192.7131
1526.0271	1526.2027
1144.1172	1144.5261
1242.8794	1243.5403
1030.7173	1030.9598
1129.8182	1130.1446
943.3626	943.4432
844.2557	844.2771
745.0009	744.953
976.5794	976.9452
1202.7796	1203.2698
1526.3709	1527.474
1299.7983	1300.6128

smAKAP_plus_D20_1min_2(1.00)	smAKAP_plus_D20_1min_3(1.00)
1630.7909	1630.7853
1864.0943	1864.08635
1327.8164	1328.0256
1030.277	1030.1772
1214.6719	1214.8644
1100.4711	1100.3356
803.0997	803.0835
1132.5132	1132.9523
1280.0056	1280.1616
1392.6116	1393.2201
1075.5687	1075.6131
1331.4501	1333.5027
816.3814	816.4127
987.8075	988.5978
1101.1913	1101.395
987.8192	987.9304
977.6288	977.6625
1596.9852	1596.4635
914.3386	914.1588
1547.8368	1548.3256
1695.4191	1695.9642
1324.4725	1324.6604
955.1334	955.1703
1070.2774	1070.3761
1169.3515	1169.3629
853.4603	853.4618
1099.3933	1099.4806
1398.6183	1399.0223
763.0507	763.036
1135.149	1135.1358
1012.2175	1012.2409
1048.5138	1048.4965
908.4823	908.509
761.0984	761.1309
1448.2815	1449.2465
718.8902	718.8721
919.1573	919.2972
804.3461	804.2248
2220.7628	2220.9573
2365.8174	2365.8174
1748.8436	1748.8842
702.9696	702.978
1481.089	1480.9021

1410.1362	1410.2455
1177.4598	1177.4594
1340.2012	1340.2139
1674.6239	1674.6248
1192.6957	1192.6955
1526.1407	1526.1363
1144.3108	1144.5906
1242.743	1243.2209
1030.9187	1030.8694
1130.0545	1130.0198
943.4186	943.4334
844.2716	844.2417
744.9486	745.0882
976.8777	976.8567
1203.2026	1203.2381
1527.3907	1527.1478
1300.6499	1300.5856

smAKAP_plus_D20_10min_1(10.00)

smAKAP_plus_D20_10min_2(10.00)

1632.0932	1632.2956
1866.2056	1865.6573
1328.9026	1328.6091
1030.241	1030.241
1215.503	1215.6318
1101.5392	1100.307
803.0115	802.8874
1133.7032	1133.0916
1280.9467	1280.9042
1393.8214	1393.8214
1076.2976	1076.0782
1335.9972	1333.0694
816.9909	816.6116
989.0291	989.4447
1101.8777	1101.8288
988.8607	988.8168
978.2482	978.2174
1597.573	1597.3274
914.4315	914.3643
1549.505	1549.505
1697.1903	1696.953
1325.4488	1325.4385
955.4915	955.4591
1070.6493	1070.5074
1169.7351	1169.6941
853.7372	853.618
1101.2621	1101.1851
1401.1467	1401.0525
763.5048	763.2619
1136.3458	1136.3443
1012.4824	1012.4257
1049.1151	1049.124
909.4543	909.3874
761.6383	761.6039
1449.8795	1449.3525
719.031	718.9839
919.5733	919.3953
804.7166	804.7057
2221.9987	2222.1625
2369.2939	2369.2939
1749.6245	1749.57
703.5147	703.5242
1481.8422	1481.7186

1410.7329
1177.5971
1340.3952
1674.9933
1192.7682
1526.4465
1145.4238
1243.7916
1031.5389
1130.5981
943.4447
844.2178
745.0463
977.7641
1204.6881
1529.6452
1302.6753

1410.7022
1177.6466
1340.3816
1674.8584
1192.7739
1526.4681
1144.7147
1243.8959
1031.499
1130.5907
943.4418
844.1926
744.9686
977.7088
1204.6285
1529.5294
1302.5474

smAKAP_plus_D20_10min_3(10.00)	smAKAP_plus_D20_1hr_1(60.00)
1631.9741	1632.0706
1866.8389	1866.1349
1328.5424	1330.1418
1030.1346	1031.2498
1215.6115	1215.6294
1100.3242	1100.5385
802.7886	803.2519
1132.48	1134.7134
1282.1566	1282.1425
1393.8214	1394.4809
1075.7341	1076.1933
1330.1416	1336.5585
816.8477	816.8841
989.2369	988.0364
1102.4562	1102.7287
988.6142	988.9586
978.1629	978.3729
1597.3332	1597.9565
914.3279	914.345
1549.505	1552.291
1696.7551	1697.7635
1325.4926	1326.5111
955.4361	955.8336
1070.4008	1070.9182
1169.6565	1170.1131
853.5997	853.7598
1101.0626	1101.95
1400.534	1402.7796
763.3123	764.333
1136.0783	1137.4075
1012.5041	1012.6088
1048.8979	1049.2841
909.1273	909.777
761.488	761.9838
1449.616	1449.9877
718.9589	719.5177
919.0048	919.574
804.7987	804.697
2221.5179	2222.6902
2369.2939	2369.8195
1749.4043	1749.8385
703.3222	703.6401
1481.0695	1481.8457

1411.4005	1411.0177
1177.7007	1178.2137
1340.3239	1340.5634
1674.1221	1674.993
1192.7255	1192.9737
1526.219	1526.6916
1145.1901	1146.0059
1243.5615	1244.2316
1031.2579	1031.9901
1130.3393	1131.116
943.5122	943.6292
844.214	844.2368
744.9588	745.1579
977.5523	978.2433
1204.4539	1205.3661
1528.98	1530.5145
1301.4916	1303.2861

smAKAP_plus_D20_1hr_2(60.00)	smAKAP_plus_D20_1hr_3(60.00)
1632.2747	1632.3099
1865.81275	1865.4906
1328.021	1329.4293
1030.3661	1032.5833
1214.9255	1215.8396
1100.4011	1100.6592
802.9712	803.0616
1132.2503	1133.48185
1280.1119	1281.7929
1392.7249	1394.3248
1075.7052	1076.4954
1336.7916	1336.601
816.9618	815.9807
989.0066	989.3814
1102.5033	1104.0626
988.741	989.7753
978.3316	978.4317
1597.6925	1597.5747
914.308	914.7185
1552.291	1552.291
1697.9897	1698.5366
1326.1929	1327.0511
955.7884	956.2486
1070.5024	1071.4367
1170.034	1170.4973
854.0515	854.3033
1101.9554	1102.9462
1402.588	1403.3154
764.4101	765.3101
1137.4593	1139.313
1012.7175	1013.2678
1049.5797	1050.3531
909.7869	910.4826
761.9625	762.9027
1449.8687	1453.1495
719.4694	721.625
919.5855	920.1093
804.3991	804.7031
2223.1307	2224.3224
2369.8195	2369.8195
1749.8197	1751.0913
703.5133	703.9858
1482.1621	1482.1853

1411.0218	1411.1732
1177.97	1178.4141
1340.6101	1341.3272
1675.0418	1674.508
1193.0012	1193.7374
1526.7232	1527.4061
1146.2234	1147.0654
1244.6679	1245.9338
1032.0189	1033.4749
1130.9404	1132.3653
943.5476	944.282
844.2855	845.0215
745.0151	745.8486
978.3194	979.1285
1205.3039	1206.2149
1530.8414	1531.378
1303.2758	1303.28095

smAKAP_plus_D20_4hr_1(240.00)	smAKAP_plus_D20_4hr_2(240.00)
1632.4161	1632.1055
1867.4267	1866.5932
1329.9894	1329.6698
1030.433	1031.2901
1216.7962	1216.2876
1100.3927	1100.8712
803.1009	803.1279
1133.8398	1133.8312
1282.9887	1282.5653
1392.8158	1392.8158
1076.253	1076.2556
1336.5482	1335.7116
816.7903	816.8857
989.5022	989.363
1103.4348	1103.4844
989.2743	989.1746
978.388	978.3628
1598.1126	1598.094
914.3708	914.2437
1551.2064	1551.2064
1698.787	1697.9757
1326.8433	1326.8006
956.0665	955.9251
1071.1145	1071.1276
1170.2873	1170.073
854.5138	854.1979
1102.7193	1102.6108
1403.771	1403.8219
765.3222	764.742
1138.3319	1138.1362
1013.2292	1013.1182
1049.815	1049.6955
910.5111	910.4395
762.5294	762.4716
1451.1233	1450.6798
720.2967	720.1221
919.9156	919.8365
804.4656	804.6996
2224.2166	2224.2401
2371.4775	2371.4775
1750.7114	1750.4891
703.7939	703.74
1482.4889	1482.4706

1411.0552	1411.0843
1178.5394	1178.6029
1341.0057	1340.9363
1675.2682	1676.1183
1193.3879	1193.3315
1527.1319	1527.1651
1146.7099	1146.6615
1245.7817	1245.5905
1032.7098	1032.5918
1131.8419	1131.5762
943.9581	943.9008
844.5632	844.5019
745.4973	745.4278
978.643	978.5704
1205.9097	1205.756
1531.1716	1531.0761
1303.8849	1303.4445

smAKAP_plus_D20_4hr_3(240.00)	PKA_R1a_H2O_2(0.00)	PKA_R1a_H2O_3(0.00)
1632.3434	1623.5594	1623.6052
1866.4589	1855.864	1855.8718
1329.688	1327.4531	1327.4176
1030.433	1030.0833	1030.1086
1216.0267	1214.2539	1214.3674
1100.5026	1100.2394	1100.3331
802.8823	802.7928	802.8896
1133.8355	1132.3649	1132.3021
1283.0412	1279.3413	1279.393
1393.0698	1392.5673	1392.5496
1076.2093	1075.1656	1075.2145
1336.6758	1330.3965	1330.421
817.0207	814.865	814.9047
989.4313	984.8562	984.9595
1103.3803	1099.2134	1099.1812
989.1951	986.0535	986.1104
978.4305	976.8046	976.875
1598.0594	1595.5394	1595.4162
914.3573	913.8122	913.8744
1551.2064	1546.3956	1546.3745
1698.4484	1693.513	1693.6777
1326.6905	1323.1635	1323.2155
955.9077	954.754	954.8616
1070.8104	1069.925	1069.9476
1170.1647	1168.9544	1169.0253
854.2586	852.6871	852.7655
1102.5892	1097.8753	1097.925
1403.3565	1397.2357	1397.3267
764.9309	762.7794	762.8871
1138.1968	1134.1676	1134.2666
1013.1225	1011.8657	1011.9088
1049.897	1047.1035	1047.2359
910.424	906.9839	907.0495
762.5159	759.8092	759.8196
1450.8569	1447.5568	1447.5726
720.1042	718.5766	718.6484
919.9233	918.8682	918.9699
804.7332	803.7737	803.6904
2224.2471	2219.254	2219.2574
2371.4775	2366.3925	2366.3856
1750.4209	1747.7158	1747.745
703.6876	702.6167	702.6827
1482.501	1478.5431	1478.5003

1410.9157	1407.4555	1407.6025
1178.3121	1176.2065	1176.2915
1340.9452	1339.2806	1339.3108
1675.277	1672.7593	1672.7588
1193.3058	1192.1261	1192.195
1527.1078	1525.5521	1525.6022
1146.6108	1143.3241	1143.2133
1245.4746	1242.432	1242.449
1032.5476	1030.1	1030.158
1131.5339	1129.2856	1129.2478
943.8951	943.0566	943.0882
844.5415	843.9477	843.9817
745.4437	744.8025	744.7981
978.6102	975.8841	975.9472
1205.7878	1202.1875	1202.2337
1531.3233	1524.6375	1524.6421
1303.1775	1298.1018	1298.2457

PKA_RIa_H20_4(0.00)	PKA_RIa_D20_10sec_1(0.17)	PKA_RIa_D20_10sec_2(0.17)
1623.6178	1630.7325	1630.031
1855.851	1864.3972	1863.6359
1327.5326	1328.5104	1328.3469
1030.1202	1030.6071	1030.0997
1214.3403	1215.1133	1215.1101
1100.9454	1100.5408	1100.5046
802.934	803.011	802.964
1132.3372	1133.5686	1133.4699
1279.3954	1280.7	1280.5178
1392.55845	1393.8112	1393.6691
1075.1967	1076.1746	1076.0569
1330.4029	1333.0532	1332.9852
814.6954	815.8603	815.8603
984.7251	987.9968	987.3098
1099.2838	1100.6175	1100.4794
986.115	987.2782	987.1143
976.8625	977.5457	977.4342
1595.4531	1596.2651	1596.0258
913.717	914.0543	913.9601
1546.38505	1548.1002	1548.0345
1693.59535	1695.1979	1695.01
1322.9798	1324.2181	1324.1453
954.8753	955.1606	955.0354
1069.7719	1070.4213	1070.2702
1168.98985	1169.4428	1169.3391
852.7819	853.312	853.2392
1097.90015	1098.7757	1098.5599
1397.3828	1398.2551	1398.0944
762.7213	763.0128	762.963
1134.2406	1134.8831	1134.8711
1011.88725	1012.161	1012.1506
1047.157	1047.9616	1048.0184
906.9047	908.1826	907.9517
759.8344	760.8263	760.6451
1447.5647	1447.7388	1448.3769
718.6408	718.918	718.8546
918.91905	918.8808	918.8864
803.73205	804.7184	803.9865
2220.4424	2220.3769	2220.0965
2365.768	2367.5871	2367.0177
1747.8353	1748.475	1748.4119
702.7109	702.9572	702.8358
1478.5152	1480.6088	1480.2669

1407.2686	1409.8822	1409.1479
1176.2749	1177.0938	1176.8716
1339.2957	1339.885	1339.7953
1672.75905	1673.3462	1673.1691
1192.2056	1192.6211	1192.5318
1525.2088	1526.0867	1525.9382
1143.0372	1144.4217	1143.9806
1242.1219	1243.1461	1242.753
1030.1568	1030.8235	1030.7272
1129.2072	1129.899	1129.784
943.0987	943.4169	943.2465
843.977	844.1565	844.111
744.7848	745.0767	744.9386
975.9994	976.768	976.637
1202.2106	1202.9152	1202.7948
1524.7109	1526.7531	1526.5887
1297.9579	1299.9239	1299.5505

PKA_Rla_D20_10sec_3(0.17)	PKA_Rla_D20_1min_1(1.00)	PKA_Rla_D20_1min_2(1.00)
1629.2998	1631.3075	1629.9867
1862.8768	1865.8167	1865.3032
1328.2616	1329.5654	1329.4041
1030.402	1031.05655	1031.0859
1214.9655	1215.879	1215.7416
1100.4609	1100.587	1100.4774
802.9939	803.0449	802.998
1133.2127	1133.797	1133.8617
1280.4263	1280.9351	1280.737
1393.4898	1394.0103	1393.8724
1075.9914	1076.2901	1076.119
1332.6623	1334.1748	1333.7315
815.8603	816.6963	816.2239
987.4656	988.997	988.997
1100.2652	1101.4847	1101.098
986.9359	987.9796	987.6835
977.3727	977.8732	977.704
1596.0803	1596.6323	1596.3856
913.8192	914.4285	914.2062
1547.1559	1549.2256	1549.2256
1694.7912	1696.0068	1695.6949
1323.9135	1324.8326	1324.605
955.0632	955.2073	955.1588
1070.1802	1070.4888	1070.1577
1169.3406	1169.4913	1169.3098
853.211	853.5448	853.4324
1098.5112	1099.3819	1099.0072
1398.0452	1399.0224	1398.0182
762.8344	763.0692	762.8329
1134.7396	1135.1752	1135.0833
1012.1746	1012.2135	1012.1941
1048.0736	1048.5239	1047.9644
907.8086	908.5912	908.2783
760.5331	761.1561	760.9867
1447.9544	1448.3427	1448.3744
718.8461	718.9755	718.885
918.9229	919.1594	919.1594
803.7472	804.2238	804.3003
2220.0087	2220.9233	2220.3398
2367.3024	2366.7651	2366.7651
1748.3342	1748.9757	1748.7671
702.8482	703.0826	702.9862
1480.0132	1481.1487	1480.989

1409.51505	1410.3597	1409.5457
1176.7302	1177.3995	1177.2994
1339.7319	1340.1419	1340.0718
1673.1787	1673.6975	1673.0737
1192.5261	1192.6852	1192.643
1525.9405	1534.6349	1525.9542
1143.778	1144.7013	1144.2224
1242.94955	1242.9717	1242.9717
1030.6106	1030.9649	1030.7682
1129.6732	1129.9402	1129.7619
943.2635	943.4397	943.3659
844.0891	844.1639	844.1503
744.9357	745.0916	744.9789
976.5561	976.9948	976.7958
1202.7446	1203.3378	1203.1236
1526.3424	1527.2944	1526.885
1299.4491	1300.5948	1300.1637

PKA_RIa_D20_1min_3(1.00)	PKA_RIa_D20_10min_1(10.00)	PKA_RIa_D20_10min_2(10.00)
1630.3371	1632.3478	1631.2989
1863.8433	1866.8189	1866.5992
1329.1367	1331.6514	1331.2802
1031.0272	1032.4451	1032.1347
1215.7656	1217.2745	1216.9853
1100.3141	1101.2602	1101.1612
802.8397	803.1643	803.2823
1133.6956	1135.0336	1134.5427
1280.6803	1281.8721	1281.6338
1393.6688	1394.9347	1394.7173
1076.1628	1077.0876	1076.9164
1333.9839	1336.1689	1335.5026
816.4601	817.2453	816.8601
988.997	989.3712	989.0904
1101.1411	1102.6706	1102.3618
987.7832	988.9445	988.6286
977.4967	978.3375	978.3488
1596.0494	1597.7406	1597.5398
913.8491	914.4423	914.241
1549.2256	1550.0899	1550.09875
1695.85085	1697.3064	1696.8456
1324.7188	1325.7546	1325.6286
954.9055	955.5026	955.5472
1069.8437	1070.6617	1070.5445
1169.1772	1169.7533	1169.7926
853.2724	853.742	853.6879
1098.9583	1101.1901	1100.8095
1398.4848	1401.2349	1401.0638
762.95105	763.3957	763.1497
1134.949	1136.3289	1136.0798
1012.0798	1012.4496	1012.4676
1048.329	1048.91	1051.8509
908.2705	909.5284	909.1975
760.931	761.6967	761.5252
1448.35855	1450.3521	1450.0625
718.7355	719.0318	719.0798
919.1594	919.6027	919.469
804.26205	804.5468	804.342
2220.3546	2222.356	2221.9165
2366.7651	2369.0453	2368.84085
1748.402	1749.7568	1749.604
702.7815	703.4701	703.3844
1480.3324	1482.0928	1481.6963

1409.2193	1411.2744	1411.5452
1176.9187	1177.7175	1178.0554
1340.0148	1340.4082	1340.2751
1673.2722	1674.1268	1673.6448
1192.5603	1192.7744	1192.6913
1525.9225	1526.392	1526.0523
1144.46185	1145.2258	1145.1025
1242.9717	1243.7424	1243.5757
1030.8428	1031.5552	1031.333
1129.7284	1130.5699	1130.3502
943.1891	943.4223	943.5187
843.9982	844.2416	844.1005
744.8713	745.0787	745.0449
976.6745	977.7713	977.5943
1202.8595	1204.672	1204.5377
1527.0113	1529.5682	1529.0331
1300.37925	1302.4932	1301.7179

PKA_RIa_D20_10min_3(10.00)	PKA_RIa_D20_1hr_1(60.00)	PKA_RIa_D20_1hr_2(60.00)
1631.3943	1632.1786	1632.1943
1865.6343	1866.8067	1865.725
1331.4637	1332.0648	1332.0097
1032.3814	1032.5659	1032.1756
1217.4195	1217.4769	1218.4752
1101.421	1102.601	1102.7258
803.2769	803.8311	804.1718
1135.0922	1135.5006	1135.47475
1281.8992	1282.3171	1282.6233
1394.9055	1395.3558	1395.6999
1077.1235	1077.5495	1077.7037
1335.9956	1337.1416	1336.8535
815.2566	817.0761	817.0761
988.8967	989.2298	989.32955
1102.4521	1102.9933	1103.2066
988.8581	989.1037	989.32705
978.2548	978.5848	978.8837
1597.1531	1598.3479	1597.4828
914.4283	914.5389	914.5868
1550.1076	1551.3239	1550.5758
1696.8205	1698.4226	1697.8718
1325.6316	1326.7294	1326.2761
955.4849	956.1072	955.8455
1070.6668	1071.2787	1070.9616
1169.7002	1170.3678	1170.1164
853.731	854.0424	854.4084
1101.1142	1102.1838	1102.7235
1401.4497	1402.7191	1403.4278
763.4974	764.3532	764.7189
1136.9533	1137.3576	1138.5599
1012.4058	1012.8887	1012.7274
1049.2997	1049.784	1049.8481
909.2362	909.9896	910.0753
761.595	762.0261	762.2592
1449.531	1450.8283	1451.5264
719.1685	719.4938	720.1941
919.7627	919.6929	920.1146
804.2132	805.1144	804.6234
2222.1494	2223.0175	2223.7346
2368.6364	2371.1493	2371.1493
1749.5297	1750.1448	1750.1512
703.6115	703.7226	703.7667
1481.6715	1481.8825	1481.7628

1410.6237	1411.7913	1410.6978
1177.4647	1178.2311	1177.8614
1340.3916	1340.5129	1340.7497
1674.1154	1674.5445	1674.8709
1192.7974	1192.9291	1193.128
1526.4549	1526.7535	1526.9736
1145.2062	1145.9062	1146.54755
1243.7489	1245.1366	1245.1366
1031.6418	1031.9321	1032.53275
1130.5874	1130.7603	1131.5318
943.3253	943.5802	943.92625
844.1974	844.3167	844.6789
745.01	745.2167	745.48675
977.8037	978.3673	978.5757
1204.581	1205.5086	1205.4777
1529.647	1530.8834	1530.8197
1303.8232	1303.8942	1302.3964

PKA_RIa_D20_1hr_3(60.00)	PKA_RIa_D20_4hr_1(240.00)	PKA_RIa_D20_4hr_2(240.00)
1632.21	1632.3291	1632.1527
1866.5499	1866.774	1866.3567
1331.8153	1332.3988	1332.2804
1031.7853	1032.5704	1032.4847
1217.3353	1217.7566	1218.0249
1103.4899	1103.747	1104.5491
804.869	804.5526	805.512
1135.4489	1135.6227	1136.3194
1282.4968	1282.6788	1283.2974
1395.8456	1396.3977	1396.6611
1077.5434	1077.7129	1078.1303
1336.5654	1336.6518	1336.5393
817.0761	816.9819	816.1742
989.4293	989.4975	989.4149
1103.9451	1103.6409	1105.2213
989.5504	989.445	990.3366
978.3963	978.6146	978.4788
1598.0391	1598.6515	1598.3148
914.3708	914.8553	915.1502
1550.94985	1552.2259	1552.97195
1699.4027	1699.2021	1700.2717
1327.3047	1327.063	1327.5523
956.6462	956.2947	957.1195
1071.7226	1071.4295	1072.1908
1171.036	1170.7552	1171.7864
854.7744	854.4626	855.1616
1103.3351	1103.058	1103.8476
1404.2027	1403.7429	1404.5459
765.4883	764.8864	765.5991
1139.068	1138.1768	1139.683
1013.4941	1013.3857	1013.761
1050.3585	1049.8802	1050.8923
910.6199	910.5568	910.7334
762.8203	762.5153	763.0023
1454.8791	1450.5521	1454.1988
721.7671	720.2744	722.1067
919.90375	919.9509	921.0004
804.5755	804.7697	804.962
2225.3282	2224.8832	2225.9405
2371.1493	2373.3079	2373.3079
1751.6573	1750.8475	1752.2915
704.0356	703.9233	704.369
1482.1156	1482.7292	1482.4864

1411.7554	1411.3512	1411.4754
1178.4249	1178.7173	1178.9045
1341.5133	1340.891	1341.9991
1675.0935	1674.7423	1675.5964
1193.9014	1193.304	1194.338
1527.5435	1527.143	1528.1953
1147.1889	1147.3306	1147.2804
1245.1366	1247.13565	1246.9455
1033.1334	1032.3818	1033.535
1132.3033	1131.299	1133.0433
944.2723	943.8421	944.8594
845.0411	844.4011	845.5541
745.7568	745.3203	746.3675
979.1247	978.6389	979.576
1206.6587	1205.9395	1207.073
1531.2121	1531.2976	1531.505
1303.5917	1303.4015	1303.5229

PKA_R1a_D20_4hr_3(240.00)

1632.2608

1866.4138

1332.3309

1032.6202

1218.0949

1104.8726

805.7769

1136.4441

1283.6368

1396.9601

1078.4902

1336.606

817.1

989.2177

1105.4717

990.6719

978.5067

1598.4604

915.2483

1553.718

1700.6569

1328.0177

957.6152

1072.9143

1172.3965

855.4041

1104.0759

1405.0528

765.5022

1139.9

1013.9698

1051.2109

910.8087

763.0493

1454.4499

722.2215

920.9393

805.0754

2226.9725

2373.3079

1752.7366

704.7474

1482.7065

1411.5712
1179.3396
1342.3999
1676.5199
1194.743
1528.5329
1147.7831
1247.3258
1033.806
1133.2826
945.277
845.9412
746.6672
979.8575
1207.2868
1531.5291
1302.3268

Supplementary Table 2: The entire list of smAKAP peptides of the hydrogen/deuterium exchange displaying the large amount of deuterium incorporation in the AKB domain after ten seconds.

Sequence	Protein	Start	End	Molecular hydrophobicity	Charge
MLVPRGSL	smAKAP	25	32	872.5022	1.96
MLVPRGSLM	smAKAP	25	33	1003.5427	1.98
KSKQTFPFPTIY	smAKAP	37	48	1456.7835	2.28
SKQTFPFPTIY	smAKAP	38	48	1328.6885	1.96
SKQTFPFPTIYE	smAKAP	38	49	1457.7311	1.99
KQTFPFPTIY	smAKAP	39	48	1241.6565	1.97
QTFPFPTI	smAKAP	40	47	950.4982	1.57
QTFPFPTIY	smAKAP	40	48	1113.5615	1.66
QTFPFPTIYE	smAKAP	40	49	1242.6041	1.72
QTFPFPTIYEGEK	smAKAP	40	52	1556.7631	2.06
QTFPFPTIYEGEKQHESEE	smAKAP	40	58	2296.0404	2.84
QTFPFPTIYEGEKQHESEEPFM	smAKAP	40	61	2671.2021	2.94
QTFPFPTIYEGEKQHESEEPFMPEE	smAKAP	40	64	3026.34	3.05
QTFPFPTIYEGEKQHESEEPFMPEE	smAKAP	40	64	3042.3349	3.1
TFPFPTIY	smAKAP	41	48	985.5029	1.43
TFPFPTIYE	smAKAP	41	49	1114.5455	1.53
TFPFPTIYEGEKQHESEE	smAKAP	41	58	2167.9819	2.79
TFPFPTIYEGEKQHESEEPFM	smAKAP	41	61	2543.1435	2.9
TFPFPTIYEGEKQHESEEPFMPEE	smAKAP	41	64	2898.2815	3
TFPFPTIYEGEKQHESEEPFMPEE	smAKAP	41	64	2914.2764	3.07
FPTIYEGEKQHESEE	smAKAP	44	58	1822.813	2.67
FPTIYEGEKQHESEEPFMPEE	smAKAP	44	64	2553.1126	2.88
TIYEGEK	smAKAP	46	52	839.4145	1.78
TIYEGEKQHESEE	smAKAP	46	58	1578.6918	2.54
TIYEGEKQHESEEPFM	smAKAP	46	61	1953.8535	2.62
TIYEGEKQHESEEPFMPEE	smAKAP	46	64	2308.9914	2.72
TIYEGEKQHESEEPFMPEE	smAKAP	46	64	2324.9863	2.8
TIYEGEKQHESEEPFMPEERC	smAKAP	46	66	2568.1017	3.48
TIYEGEKQHESEEPFMPEERCLPRMA	smAKAP	46	71	3136.4173	4.59
IYEGEKQHESEEPFM	smAKAP	47	61	1852.8058	2.58
IYEGEKQHESEEPFMPEE	smAKAP	47	64	2207.9438	2.72
YEGEKQHESEEPFMPEE	smAKAP	48	64	2094.8597	2.64
EGEKQHESEEPFM	smAKAP	49	61	1576.6584	2.4
EGEKQHESEEPFMPEE	smAKAP	49	64	1931.7964	2.5
EGEKQHESEEPFMPEE	smAKAP	49	64	1947.7913	2.65
EGEKQHESEEPFMPEERCLP	smAKAP	49	68	2401.0435	2.81
EGEKQHESEEPFMPEERCLPRMA	smAKAP	49	71	2759.2222	4.18
GEKQHESEEPFMPEE	smAKAP	50	64	1802.7538	2.51
QHESEEPFMPEE	smAKAP	53	64	1488.5948	1.97
PFMPEER	smAKAP	59	65	905.4186	1.93
PFMPEERCLPRMA	smAKAP	59	71	1576.7433	2.9
MPEERCLPR	smAKAP	61	69	1130.5445	2.54
PEERCLPRMA	smAKAP	62	71	1201.5816	2.68
RCLPRMA	smAKAP	65	71	846.4437	1.95
RCLPRMASPVN	smAKAP	65	75	1243.6398	2.12
ASPVNVKE	smAKAP	71	78	843.4571	1.75

ASPVNVKEEVKEPPGTNT	smAKAP	71	88	1895.9709	2.68
SPVNVKE	smAKAP	72	78	772.4199	1.56
SPVNVKEE	smAKAP	72	79	901.4625	1.82
SPVNVKEEVKEPPG	smAKAP	72	85	1508.7955	2.7
SPVNVKEEVKEPPGTN	smAKAP	72	87	1723.8861	2.67
SPVNVKEEVKEPPGTNT	smAKAP	72	88	1824.9338	2.71
SPVNVKEEVKEPPGTNTVI	smAKAP	72	90	2037.0863	2.77
SPVNVKEEVKEPPGTNTVIL	smAKAP	72	91	2150.1703	2.78
PVNVKEEVKEPPGTNT	smAKAP	73	88	1737.9018	2.78
VNVKEEVKEPPGTN	smAKAP	74	87	1539.8013	2.53
NVKEEVKEPPGTN	smAKAP	75	87	1440.7329	2.38
NVKEEVKEPPGTNT	smAKAP	75	88	1541.7806	2.45
VKEEVKEPPGTN	smAKAP	76	87	1326.69	2.31
VKEEVKEPPGTNT	smAKAP	76	88	1427.7376	2.45
KEEVKEPPGTN	smAKAP	77	87	1227.6216	2.06
KEEVKEPPGTNTV	smAKAP	77	89	1427.7376	2.42
KEEVKEPPGTNTVILE	smAKAP	77	92	1782.9484	2
EEVKEPPGTN	smAKAP	78	87	1099.5266	2
EEVKEPPGTNT	smAKAP	78	88	1200.5743	1.9
EVKEPPGTN	smAKAP	79	87	970.484	1.8
EVKEPPGTNT	smAKAP	79	88	1071.5317	1.87
VKEPPGTN	smAKAP	80	87	841.4414	1.75
YAHRLSQDIL	smAKAP	93	102	1215.648	1.98
YAHRLSQDILCDALQQWACNNIKYH	smAKAP	93	117	3003.4352	3.08
HRLSQDILC	smAKAP	95	103	1084.5568	2
CDALQQW	smAKAP	103	109	863.3716	1.4
CDALQQWACNNIKYHDIPYIESEGP	smAKAP	103	127	2907.3076	3.13
DALQQWA	smAKAP	104	110	831.3995	1.32
DALQQWACN	smAKAP	104	112	1048.4517	1.56
DALQQWACNN	smAKAP	104	113	1162.4946	1.76
DALQQWACNNIKYHDIPYIE	smAKAP	104	123	2434.1496	2.84
DALQQWACNNIKYHDIPYIESEGP	smAKAP	104	127	2804.2985	3.13
ALQQWACN	smAKAP	105	112	933.4247	1.29
ALQQWACNNIKY	smAKAP	105	116	1451.71	2.13
ALQQWACNNIKYHDIPYIESEGP	smAKAP	105	127	2689.2715	3.05
WACNNIKY	smAKAP	109	116	1011.4717	1.85
WACNNIKYH	smAKAP	109	117	1148.5306	2.43
WACNNIKYHDIPYIESEGP	smAKAP	109	127	2249.0332	2.8
ACNNIKY	smAKAP	110	116	825.3923	1.73
ACNNIKYHDIPYIE	smAKAP	110	123	1692.805	2.53
ACNNIKYHDIPYIESEGP	smAKAP	110	127	2062.9539	2.69
NIKYHDIPY	smAKAP	113	121	1162.5891	2.31
NIKYHDIPYIE	smAKAP	113	123	1404.7158	2.29
IKYHDIPYIESEGP	smAKAP	114	127	1660.8217	2.51
YHDIPYIESEGP	smAKAP	116	127	1419.6427	1.98
HDIPYIESEGP	smAKAP	117	127	1256.5794	1.83
DIPYIESEGP	smAKAP	118	127	1119.5204	1.45
IPYIESEGP	smAKAP	119	127	1004.4935	1.49

Retention time	Intensity	Rla_plus_1(0.00)	Rla_plus_2(0.00)	Rla_plus_3(0.00)	Rla_plus_1(0.17)
6.59	11543	872.9458	872.9833	873.085	875.102
7.12	8322	1004.1596	1004.2816	1004.2206	1006.9232
7.98	18775	1457.585	1457.4831	1457.6016	1461.239
8.43	18674	1329.5045	1329.396	1329.4049	1333.0113
8.25	10830	1458.6551	1458.4834	1458.5854	1462.3953
8.44	2585	1242.2992	1242.2937	1242.3342	1245.1754
9.08	2783	950.8343	950.7876	950.881	952.9842
9.14	158096	1114.9802	1114.9545	1114.9174	1117.8615
8.94	80149	1243.2128	1243.1999	1243.1422	1246.5893
8.01	3336	1557.5556	1557.6087	1557.4266	1562.1877
7.47	47956	2297.2199	2297.3466	2297.353	2303.3662
8.27	35265	2672.9204	2672.8829	2672.8478	2679.8546
8.1	174465	3028.2049	3028.1489	3028.1465	3035.847
7.82	10863	3044.1406	3044.1499	3044.0808	3052.0598
9.34	88112	986.0421	985.942	985.8919	988.3305
9.67	72162	1115.0541	1115.0548	1114.983	1117.8656
7.67	50496	2169.2551	2169.2493	2169.1995	2174.7159
8.36	49791	2544.8238	2544.7458	2544.7371	2550.9807
8.45	171571	2900.0957	2900.0148	2900.0365	2907.0403
7.85	16522	2915.9853	2916.0736	2915.9739	2923.1252
6.16	4947	1823.8948	1823.7361	1823.7299	1828.7912
7.44	24359	2554.6748	2554.6806	2554.6496	2561.0231
4.73	3568	839.8859	839.8017	839.8446	841.5725
4.52	11658	1579.5713	1579.5633	1579.5513	1583.7421
6.78	22832	1955.0993	1955.0786	1955.0395	1959.6615
6.79	206689	2310.3523	2310.3486	2310.376	2315.7816
6.16	7846	2326.314	2326.3476	2326.3812	2331.9889
6.52	8325	2569.4905	2569.463	2569.5528	2575.5152
7.91	5792	3139.8455	3137.893	3138.2114	3143.1339
6.73	3186	1853.5257	1853.7442	1853.8747	1857.5316
6.76	29484	2209.2348	2209.2719	2209.2998	2213.9718
6.69	8854	2095.8179	2096.0284	2096.1016	2100.0726
6.53	30406	1577.5298	1577.6199	1577.5556	1580.3878
6.59	213067	1932.918	1932.9083	1932.9068	1936.5304
5.82	15837	1948.9236	1948.9546	1949.9266	1952.7716
7.55	14464	2402.3478	2402.3684	2402.426	2407.8132
8.43	2832	2761.9262	2760.7374	2766.1337	2765.1132
6.55	148095	1803.81	1803.7492	1803.7981	1807.0851
6.95	22112	1489.5268	1489.4443	1489.5005	1491.9716
6.09	6683	905.8596	905.9824	905.9895	907.3994
7.17	46967	1577.8424	1577.8215	1577.8134	1581.7959
6.05	2442	1130.9195	1131.1858	1131.0335	1133.3382
5.82	97956	1202.3624	1202.349	1202.3469	1205.2061
5.54	664803	846.8917	846.8667	846.926	848.4842
5.59	8724	1244.4249	1244.4615	1244.3478	1247.0467
4.62	7816	843.9166	843.9354	843.8704	846.7438

5.1	10160	1896.874	1897.0407	1896.9756	1903.6143
4.46	343345	772.7799	772.7505	772.7215	775.6332
4.53	2674	901.7423	902.0106	901.9487	904.7747
5.01	1731	1509.4907	1509.6459	1509.965	1514.218
4.94	900226	1724.8115	1724.7733	1724.7477	1730.841
5.12	287929	1825.9395	1825.8986	1825.8974	1832.4476
6.02	6646	2038.5578	2038.3935	2038.3812	2046.0713
6.56	8272	2151.7761	2151.7947	2151.7259	2160.6866
4.94	8818	1738.9367	1739.0189	1738.9071	1744.7699
4.74	1794	1542.4388	1542.4836	1542.4612	1547.3921
4.3	48112	1441.5311	1441.5314	1441.5319	1445.9966
4.42	21714	1542.4459	1542.4729	1542.5963	1547.54
4.03	58284	1327.433	1327.43	1327.4606	1330.8235
4.2	39379	1428.5054	1428.5331	1428.5384	1432.8183
3.72	2380	1228.0834	1228.2265	1228.241	1231.5492
4.5	8539	1428.556	1428.3395	1428.4643	1432.7588
4.93	6913	1783.7438	1783.9195	1786.2557	1790.009
4.62	1314	1099.9313	1100.0693	1100.0132	1102.9822
4.32	4162	1201.1649	1201.7647	1201.8173	1205.3859
3.74	143797	970.9947	970.979	970.9477	973.5294
4.04	95150	1072.1138	1072.0899	1072.0831	1075.2579
2.96	3138	841.7576	841.8532	841.8399	844.1189
6.55	74276	1216.2846	1216.2572	1216.312	1216.0735
8.52	4263	3004.85	3004.9619	3005.9725	3011.4948
6.52	50872	1085.1024	1085.1569	1085.1294	1086.0095
7.96	4178	863.7635	863.6589	863.7582	865.9686
8.27	4032	2909.493	2909.3128	2908.6704	2919.6321
7.74	2565	831.682	831.863	831.6191	833.8514
7.7	11020	1048.847	1049.2107	1048.7788	1053.4637
7.58	3867	1162.9026	1162.9026	1162.9026	1169.2714
8.41	3696	2436.4965	2435.528	2435.7267	2440.872567
8.29	21495	2806.013	2805.987	2805.964	2814.6936
6.99	4512	933.8635	934.0648	933.8941	936.5009
7.47	1930	1452.0013	1452.8105	1452.1585	1458.2975
7.72	14032	2691.2056	2690.9277	2690.733	2699.5497
6.99	84300	1011.9457	1011.9693	1011.8991	1014.4534
6.03	3206	1148.7662	1149.4071	1149.7758	1149.5712
7.48	365375	2250.7489	2250.7335	2251.7603	2256.5496
5.44	5736	825.8672	825.9365	825.8525	827.8754
6.88	3175	1693.5974	1693.5839	1693.5423	1694.9989
6.86	29768	2064.2027	2064.2646	2064.3213	2069.6282
6.27	2200	1163.9229	1164.0951	1163.2143	1164.4915
6.92	22349	1405.4212	1405.5233	1405.5219	1407.9963
6.88	30720	1661.4501	1661.7477	1661.8012	1665.4242
7.11	5673	1420.4885	1420.4446	1420.4502	1423.5942
6.68	962435	1257.1598	1257.1539	1257.135	1260.3333
7.4	27445	1120.1513	1120.1286	1120.3633	1122.7869
7.02	5041	1005.0355	1004.9514	1004.9703	1008.1075

Rla_plus_2(0.17)	Rla_plus_3(0.17)	Rla_plus_1(1.00)	Rla_plus_2(1.00)	Rla_plus_3(1.00)
875.1871	875.2297	875.4276	875.4751	875.6079
1006.5854	1006.7766	1007.2157	1007.1986	1007.0442
1460.9171	1461.6686	1461.9078	1461.4351	1461.0019
1332.8238	1333.0388	1333.2268	1333.2939	1333.2594
1462.1507	1462.3811	1462.9017	1462.9008	1463.1563
1245.5617	1245.36855	1245.0176	1244.2985	1244.65805
953.0013	952.99275	953.0767	953.0767	953.0767
1117.3996	1117.4179	1118.0626	1117.8471	1117.5506
1246.264	1246.57	1246.9565	1247.0159	1246.8086
1561.9095	1562.2987	1562.5338	1562.6639	1562.3054
2303.2057	2303.3437	2304.0898	2303.9774	2303.8255
2679.7236	2679.7315	2680.7129	2680.5774	2680.3212
3035.8098	3035.9248	3037.1068	3036.8613	3036.6089
3051.9913	3052.1762	3052.7409	3053.2656	3052.6607
988.1658	988.2159	988.6087	988.5883	988.4872
1117.7402	1117.7843	1118.1792	1118.1925	1118.0335
2174.5899	2174.6665	2175.3092	2175.3423	2175.153
2551.0446	2551.224	2551.9861	2551.9917	2551.5741
2906.8982	2907.2549	2908.1596	2908.3637	2907.8966
2923.9026	2923.5834	2924.2174	2924.5979	2924.1323
1828.5311	1828.6081	1829.2787	1829.0607	1828.6553
2561.1748	2561.5739	2561.9661	2561.9401	2561.5069
841.8016	841.8062	842.2448	842.3229	842.3695
1583.698	1583.6536	1583.9846	1584.3474	1583.7598
1959.7658	1959.9101	1960.2605	1960.2704	1960.0452
2315.7967	2315.8599	2316.4614	2316.4941	2316.2618
2331.9758	2331.966	2332.7556	2332.951	2332.8084
2575.0949	2575.30505	2576.5885	2578.3812	2577.48485
3145.6025	3146.1362	3147.4348	3145.7303	3144.1246
1856.864	1856.1373	1858.2543	1857.4766	1857.3248
2214.0472	2213.9707	2214.5024	2214.4987	2214.3255
2100.2005	2101.2568	2100.7168	2099.3445	2100.8058
1580.3459	1580.1689	1580.7655	1581.0104	1580.6623
1936.465	1936.5538	1937.032	1937.0426	1936.8447
1952.3015	1953.3749	1953.0933	1953.0353	1952.9921
2407.1087	2407.5754	2408.2551	2408.2367	2407.5101
2762.3321	2762.7592	2766.8861	2764.2688	2766.6744
1806.9585	1807.1026	1807.6085	1807.6854	1807.4834
1491.9255	1491.9975	1492.4959	1492.4556	1492.3147
907.2958	907.4633	907.9789	907.8982	907.7503
1581.5673	1581.7774	1582.3388	1582.3902	1582.3833
1133.3382	1133.3382	1133.4719	1133.5132	1133.49255
1205.0523	1205.2205	1205.5829	1205.5371	1205.426
848.3146	848.2272	848.687	848.5586	848.5664
1247.7208	1247.9155	1247.8478	1247.7666	1247.7741
846.6445	846.6964	847.2471	847.1148	846.8431

1903.6365	1903.6622	1904.4582	1904.4834	1903.9129
775.6216	775.6084	775.9511	775.9405	775.7705
905.2466	905.0635	905.4167	905.4066	905.3967
1515.04	1514.3155	1514.6677	1514.5583	1514.8235
1730.8103	1730.9086	1731.5389	1731.5261	1731.1907
1832.4407	1832.5374	1833.1345	1833.2622	1832.9648
2046.3144	2045.8982	2047.1671	2047.6667	2046.5733
2159.6615	2160.1973	2161.3486	2161.4306	2160.8536
1744.8477	1745.0451	1745.4596	1745.6177	1745.1961
1547.048	1547.0567	1547.9493	1547.7677	1547.2906
1445.8451	1445.9587	1446.4985	1446.4795	1446.1643
1547.4216	1547.6346	1548.2061	1548.288	1547.8619
1331.1591	1330.9505	1331.0943	1331.2555	1331.1724
1432.9717	1432.8881	1433.1568	1433.1216	1433.1957
1231.517	1231.5331	1232.1057	1232.1057	1232.1057
1432.386	1432.7354	1433.1985	1433.2849	1432.6284
1789.9283	1790.0127	1790.6404	1790.7162	1790.3461
1103.0802	1103.5294	1103.2023	1103.2023	1103.2023
1204.9522	1204.6548	1205.186	1205.1794	1205.1191
973.5045	973.5156	973.7919	973.7653	973.6291
1075.1597	1075.2192	1075.526	1075.5482	1075.3488
843.9291	843.8644	844.0761	844.1822	844.2892
1216.6191	1216.0821	1218.1788	1216.648	1217.4134
3009.6801	3011.5122	3012.8436	3011.3225	3011.7997
1086.5688	1086.1487	1087.4091	1086.6949	1087.19
866.2798	865.8788	865.4553	866.4079	865.9316
2915.8472	2919.9179	2917.9045	2917.4191	2923.2215
833.7693	833.26	834.7566	834.3382	834.3521
1052.5835	1053.0108	1053.6906	1053.3434	1053.5441
1169.3278	1169.2849	1169.3875	1169.3256	1169.3081
2440.872567	2440.872567	2446.1194	2445.7282	2445.6366
2815.7147	2815.0207	2817.8293	2818.5196	2816.8455
936.9814	937.4567	937.8849	937.0579	937.4714
1458.3157	1458.2793	1459.2161	1459.2577	1459.2369
2698.7473	2699.4104	2701.7473	2701.5559	2700.874
1014.5341	1014.6103	1015.268	1015.2394	1015.1216
1149.4369	1149.4318	1149.7826	1149.7123	1149.7487
2256.5224	2256.5394	2257.7335	2257.8038	2257.5961
827.8688	827.8614	828.3949	828.3335	828.25
1695.01	1695.2223	1696.0376	1695.8605	1695.7599
2069.8591	2070.3313	2070.5552	2070.9063	2070.5532
1163.9572	1164.4154	1164.5347	1164.4943	1164.5145
1408.0426	1408.4247	1408.8304	1408.4259	1408.6906
1665.172	1665.5793	1665.9004	1665.9666	1665.7025
1423.6361	1423.6622	1424.1241	1424.4678	1424.211
1260.2564	1260.3917	1260.9665	1260.9293	1260.7846
1122.6349	1122.8003	1123.2357	1123.2632	1123.1171
1008.0078	1007.9982	1008.453	1008.3292	1008.5644

Rla_plus_1(10.00)	Rla_plus_2(10.00)	Rla_plus_3(10.00)	Rla_plus_1(60.00)	Rla_plus_2(60.00)
875.3667	875.5779	875.9715	875.1792	875.8102
1007.3822	1007.388	1007.5709	1007.7008	1007.534
1461.5155	1462.3249	1461.5711	1461.7293	1461.2602
1333.2563	1333.2116	1333.5711	1333.5782	1333.5604
1462.6472	1462.7213	1463.1897	1463.2131	1463.4045
1245.871	1246.0196	1245.7224	1245.7539	1245.3199
952.9749	952.9749	952.9749	953.32165	953.32165
1117.4441	1118.5565	1118.2107	1118.2315	1118.2577
1247.1487	1247.0392	1247.2	1246.9856	1247.189
1563.1425	1562.9041	1563.5359	1563.3093	1563.426
2304.4437	2304.2412	2304.3749	2304.3879	2303.0683
2681.182	2680.9356	2680.8876	2681.162	2681.4658
3037.5593	3037.2594	3037.4008	3037.6751	3037.2668
3053.4908	3052.9276	3053.7816	3053.6789	3053.7673
988.713	988.6331	988.795	988.7679	988.8637
1118.2898	1118.1654	1118.3188	1118.4789	1118.4991
2175.3971	2175.2624	2175.752	2175.6063	2175.8401
2552.3317	2552.1261	2552.5147	2552.3849	2552.5213
2908.5746	2908.1948	2908.5977	2908.7655	2908.8
2925.413	2924.3389	2924.9417	2924.8964	2925.4297
1829.4725	1828.4837	1829.4379	1829.59905	1829.5821
2562.6657	2562.1997	2562.666	2562.6639	2562.4368
842.7578	842.1384	842.799	842.7565	842.5896
1584.3112	1583.7342	1584.4242	1583.9212	1584.2081
1960.4927	1960.4091	1960.6286	1960.3406	1960.865
2316.7728	2316.6752	2316.8357	2316.9618	2316.943
2333.0648	2333.126	2332.9906	2333.0559	2333.6536
2577.68805	2575.7696	2579.6065	2579.0081	2581.1769
3148.1773	3145.8324	3147.2027	3148.3556	3141.9808
1858.3954	1856.4344	1856.165	1856.9199	1856.9199
2214.7683	2214.4922	2214.7761	2214.4267	2214.8776
2099.3107	2100.2668	2101.4887	2099.3187	2100.9054
1580.894	1580.6201	1581.0704	1580.4668	1580.9699
1937.3644	1937.0254	1937.264	1937.441	1937.4096
1953.0406	1952.9107	1953.2639	1953.4703	1952.6436
2409.5666	2408.1207	2408.3174	2408.6625	2407.6929
2761.3433	2766.2101	2763.4465	2763.7217	2763.9911
1807.8866	1807.7329	1807.9235	1807.7635	1808.0186
1492.7129	1492.5784	1492.645	1492.608	1492.5965
908.0608	908.13	908.1624	908.1825	908.1863
1582.6175	1582.6175	1582.8021	1582.7463	1583.0526
1133.999	1133.999	1133.999	1133.6579	1133.6579
1205.614	1205.5288	1205.8264	1205.763	1206.157
848.6206	848.4819	848.8318	848.828	848.908
1247.8285	1247.7013	1248.3775	1247.5474	1248.6596
847.4059	847.3817	847.302	847.384	847.4486

1904.7953	1904.9746	1904.8503	1904.9975	1905.102
776.037	776.0593	776.0786	776.1319	776.1749
905.4945	905.5537	905.5332	905.772	905.6492
1515.0721	1515.1883	1515.7739	1515.3063	1514.9602
1731.8311	1731.6198	1731.8464	1731.891	1732.0355
1833.5168	1833.3585	1833.6218	1833.6583	1833.7603
2047.4847	2048.5801	2047.6097	2047.8605	2046.5464
2162.1069	2162.3059	2160.8948	2161.3477	2161.8726
1745.9282	1745.6299	1745.7294	1745.8948	1746.0255
1548.1801	1547.8577	1547.9909	1546.2594	1548.0778
1446.6581	1446.4215	1446.7175	1446.6275	1446.82
1548.2984	1547.4821	1548.6068	1548.2849	1548.4871
1331.4263	1331.2202	1331.7827	1331.3831	1331.6238
1433.205	1433.303	1433.592	1433.5667	1433.5962
1231.6071	1231.6071	1231.6071	1231.5416	1231.5416
1433.63	1433.3729	1433.5164	1433.4598	1433.0262
1791.0318	1790.9191	1791.0228	1791.0223	1791.2912
1103.0758	1103.4717	1103.5963	1103.7706	1103.9133
1205.3336	1205.0921	1205.4813	1205.1076	1205.741
973.8588	973.8079	973.9239	973.8816	973.9979
1075.6789	1075.4946	1075.6695	1075.691	1075.743
844.3446	843.9695	844.3595	844.4533	844.3807
1217.2353	1217.3933	1217.5513	1219.9828	1219.7664
3015.4364	3016.704	3014.9189	3016.9699	3018.1449
1086.806	1087.9898	1088.0051	1087.86045	1087.1108
866.8299	866.9915	866.9782	866.8747	866.8747
2918.3039	2917.4949	2920.1584	2924.8014	2921.3827
834.502	835.5347	834.7108	834.8679	835.329
1053.9431	1053.9643	1054.2791	1054.0085	1054.37
1169.682	1169.7667	1169.5952	1170.1297	1170.0216
2447.1366	2445.9563	2446.54645	2446.52525	2446.7829
2818.6996	2819.1519	2818.9923	2818.1783	2819.1509
937.5655	937.4615	938.0313	937.4445	938.4308
1459.7337	1459.6988	1459.8322	1459.8298	1459.8177
2702.7901	2702.6489	2702.425	2703.0583	2702.6957
1015.7582	1015.5134	1015.6098	1015.545	1015.554
1150.58	1150.5515	1150.7443	1151.3235	1151.4252
2258.2582	2258.0412	2258.2694	2258.5487	2258.5096
828.5539	828.4461	828.5447	828.7663	828.7798
1696.6924	1696.816	1696.9342	1697.9614	1697.9968
2070.2929	2070.7999	2071.3066	2071.1795	2071.3925
1164.4127	1163.9546	1164.8441	1165.0158	1165.0158
1408.7328	1408.2887	1409.2181	1409.09655	1408.8224
1666.4456	1665.9748	1666.1677	1666.2885	1666.4736
1424.945	1424.3035	1424.7758	1424.3735	1424.4959
1261.1039	1261.0187	1261.1661	1261.1315	1261.2619
1123.4827	1123.2859	1123.7459	1123.51	1123.5511
1008.2494	1008.3247	1008.465	1008.7759	1008.5449

Rla_plus_3(60.00)	Rla_plus_1(240.00)	Rla_plus_2(240.00)	Rla_plus_3(240.00)	smAKAP_1(0.00)
875.5163	875.6789	875.5641	875.5921	872.9681
1007.5541	1007.751	1007.6053	1007.542	1004.1607
1462.1984	1462.2286	1462.0088	1462.4983	1457.5743
1333.596	1333.6242	1333.2927	1333.6167	1329.4246
1463.1489	1463.1711	1463.037	1463.1561	1458.5572
1246.1879	1246.0539	1245.5528	1245.8416	1242.3874
953.32165	953.6684	953.6684	953.6684	950.9699
1118.077	1118.134	1118.0002	1117.9387	1114.9496
1247.2403	1247.3237	1247.174	1247.2593	1243.1523
1563.2416	1563.4706	1563.378	1563.0656	1557.6723
2304.5121	2304.8221	2304.4315	2304.6099	2297.3534
2681.4182	2681.5941	2681.3709	2681.2244	2672.8106
3037.6396	3037.7206	3037.6611	3037.7203	3028.1024
3053.951	3053.9224	3053.7037	3053.7083	3044.3838
988.8469	988.8653	988.84	988.8204	985.9171
1118.4356	1118.5946	1118.5136	1118.2493	1115.0149
2175.8053	2175.9713	2175.7268	2175.6922	2169.2113
2552.5065	2552.7865	2552.4285	2552.4576	2544.7169
2908.7605	2909.1247	2908.6807	2908.8247	2900.0303
2924.8739	2925.0732	2924.8348	2925.0253	2916.1319
1829.616	1829.5765	1829.6244	1829.4971	1823.8426
2562.5156	2562.533	2562.2221	2562.3625	2554.6965
842.4918	842.6023	842.5585	842.7875	839.8534
1584.3067	1584.4681	1584.33	1584.2916	1579.5578
1960.7803	1960.8391	1960.638	1960.6436	1955.0549
2316.8793	2317.1781	2316.7933	2316.8217	2310.2974
2332.9459	2333.2108	2333.2572	2333.0503	2326.3471
2576.8393	2577.5514	2577.022	2576.2269	2569.7465
3147.8095	3147.846	3147.9769	3146.2869	3137.9572
1856.9199	1859.6173	1858.3159	1857.2924	1853.9577
2214.9455	2215.0348	2214.5888	2214.9002	2209.2677
2100.8525	2101.6573	2101.2163	2100.7255	2096.1082
1581.0022	1581.1048	1580.9836	1580.9512	1577.5969
1937.254	1937.5627	1937.229	1937.268	1932.8489
1953.2247	1953.6558	1953.439	1953.3863	1949.0095
2409.6321	2408.5081	2410.0361	2409.5598	2402.5411
2766.7994	2768.5238	2768.3183	2767.2112	2761.1891
1807.8832	1808.1828	1807.9273	1807.9016	1803.743
1492.7056	1492.7517	1492.5851	1492.6483	1489.4138
908.2455	908.3346	908.3039	908.1836	905.9455
1582.9311	1583.045	1582.7088	1582.8193	1577.8265
1133.6579	1133.616	1133.6451	1133.6392	1131.2184
1205.8597	1205.9926	1205.8483	1205.8368	1202.268
848.7641	848.9217	848.7522	848.765	846.9461
1247.8864	1248.5869	1248.4633	1248.4315	1244.43
847.4048	847.4597	847.4197	847.4714	843.8986

1905.0211	1905.1314	1904.9346	1905.0592	1897.0748
776.1772	776.2265	776.1909	776.1398	772.7478
905.6447	905.6863	905.3817	905.4007	901.9271
1516.0289	1515.8275	1515.5722	1515.7768	1509.5685
1731.9977	1732.2036	1731.9156	1732.0355	1724.7588
1833.8093	1833.8769	1833.736	1833.6782	1825.8684
2047.9044	2047.9553	2047.7484	2048.0127	2038.3509
2161.9986	2162.6965	2161.3305	2161.9014	2151.7992
1745.8405	1746.3042	1745.8782	1745.9588	1738.9657
1548.2107	1548.1229	1547.8326	1547.9367	1542.6349
1446.767	1446.913	1446.7213	1446.742	1441.4976
1548.1549	1548.7251	1547.9412	1548.2072	1542.479
1331.8662	1331.7332	1331.5604	1331.8444	1327.46
1433.5372	1433.7173	1433.4493	1433.5826	1428.5136
1231.5416	1231.9766	1233.1675	1231.5459	1228.2448
1433.3344	1433.8387	1433.3726	1433.7627	1428.5674
1791.2161	1791.3474	1791.0625	1791.1788	1783.9485
1103.6279	1103.6558	1104.3101	1104.0352	1100.095
1205.6158	1205.6278	1205.4205	1205.5045	1201.183
973.966	974.0541	973.9694	973.9219	970.9229
1075.7642	1075.8184	1075.7107	1075.7495	1072.0388
844.0966	844.3851	844.203	844.3952	841.8932
1220.1992	1220.5208	1220.5424	1220.7137	1216.23
3017.7649	3019.135	3018.6063	3018.8596	3005.2134
1088.6101	1088.2934	1088.3969	1087.9497	1085.0762
866.8747	867.0084	866.5718	866.6031	863.8259
2917.608	2920.1536	2918.6591	2918.461	2908.966
835.8739	835.5462	835.3292	834.9847	831.6893
1054.0688	1053.9252	1054.1171	1054.0777	1048.9461
1170.0248	1170.2175	1170.208	1170.2522	1163.0893
2446.2676	2448.6028	2446.9349	2446.2278	2435.5446
2819.1453	2819.21	2819.1481	2819.501	2806.0526
938.0558	938.4142	938.0037	938.4481	933.8785
1459.8056	1459.7265	1459.837	1459.78175	1452.6784
2703.1102	2702.7065	2702.9804	2702.9903	2690.884
1015.5737	1015.6465	1015.4248	1015.8402	1012.0543
1151.3819	1151.4394	1151.2898	1151.3322	1149.4724
2258.6526	2258.7044	2258.2241	2258.5355	2250.5919
828.8274	828.8545	828.8757	828.6018	825.8565
1697.9285	1698.8381	1698.4361	1698.5417	1693.9021
2071.3258	2071.6723	2070.8197	2071.1244	2064.2845
1165.0158	1165.19895	1165.3344	1165.0635	1163.3006
1409.3707	1408.8434	1409.3347	1408.8386	1405.4918
1666.3087	1666.0864	1666.3938	1666.3195	1661.7418
1424.6369	1424.6027	1424.5403	1424.6257	1420.4736
1261.2415	1261.328	1261.1764	1261.2047	1257.1702
1123.5751	1123.8492	1123.6708	1123.6825	1120.2633
1008.9597	1008.8404	1008.6456	1008.8374	1004.9356

smAKAP_2(0.00)	smAKAP_3(0.00)	smAKAP_1(0.17)	smAKAP_2(0.17)	smAKAP_3(0.17)
873.0429	873.0484	876.0087	875.8238	875.6153
1004.2165	1004.0906	1007.4223	1007.2484	1007.1472
1457.6341	1457.608	1461.7963	1461.5163	1461.5227
1329.3969	1329.3938	1333.4258	1333.2604	1333.0362
1458.5449	1458.5509	1463.1721	1462.9523	1462.6336
1242.3826	1242.2621	1246.1314	1245.5396	1245.8248
950.9233	950.8219	953.5454	953.8153	953.1706
1115.0174	1114.9828	1117.7482	1117.806	1117.6817
1243.2436	1243.218	1246.9991	1246.8741	1246.6361
1557.7121	1557.6729	1562.6451	1562.5097	1562.1558
2297.3423	2297.5016	2303.4475	2303.4388	2302.7219
2672.7239	2673.1599	2679.9598	2679.6439	2679.0045
3028.222	3028.1528	3036.1674	3035.9556	3035.2301
3044.3529	3044.1237	3052.2952	3052.0475	3051.3344
985.9951	985.943	988.7184	988.565	988.4122
1115.1029	1115.0434	1118.1972	1118.1133	1117.9386
2169.2587	2169.2828	2174.8907	2174.7994	2174.1617
2544.7692	2544.726	2551.2586	2550.9555	2550.6431
2900.0468	2900.0219	2907.4128	2907.0902	2906.5715
2916.0888	2916.0685	2923.6481	2923.2004	2922.4722
1823.8246	1823.7806	1828.756	1828.5719	1828.0071
2554.6948	2554.6697	2561.228	2561.1515	2560.504
839.9052	839.8793	842.6168	842.3831	842.3481
1579.5784	1579.5681	1584.1664	1583.9139	1583.7115
1955.0797	1955.086	1959.8661	1959.7979	1959.3008
2310.372	2310.3723	2316.0636	2315.9336	2315.3753
2326.391	2326.3995	2332.2133	2332.0906	2331.5579
2569.6986	2569.6395	2575.8722	2576.851	2574.9102
3138.379	3138.8289	3146.5862	3154.4227	3158.2278
1853.9282	1853.8398	1857.7422	1857.6919	1857.2904
2209.2827	2209.2573	2214.1676	2214.0188	2213.5214
2096.0737	2095.9884	2100.4678	2100.391	2099.556
1577.6339	1577.5777	1580.8225	1580.6858	1580.414
1932.9059	1932.9382	1936.9968	1936.8739	1936.4709
1948.9348	1948.963	1953.1533	1952.962	1952.4937
2402.6171	2402.1894	2408.6939	2408.3974	2408.1678
2761.0444	2760.5944	2767.8487	2766.7337	2769.0155
1803.7849	1803.7558	1807.6664	1807.5109	1807.1576
1489.4499	1489.4659	1492.7362	1493.8732	1490.9911
906.0027	905.9719	908.0885	907.8715	907.9903
1577.8198	1577.819	1582.5508	1582.3711	1581.9309
1131.2271	1131.1756	1134.0753	1133.8515	1133.734
1202.3137	1202.3546	1205.9734	1205.7107	1205.5577
846.8874	846.8337	849.1598	849.0129	849.056
1244.3563	1244.4046	1248.8935	1248.5028	1248.5067
843.9311	843.91485	847.357	847.2393	846.9559

1897.0796	1897.0772	1904.534	1904.3305	1903.8235
772.763	772.7554	776.0845	775.9412	775.7821
901.8878	901.90745	905.3851	905.2252	905.0683
1509.6243	1509.5964	1515.2025	1515.1735	1514.6341
1724.7735	1724.76615	1731.6577	1731.39	1730.9144
1825.8966	1825.8825	1833.2807	1833.0151	1832.4625
2038.3376	2038.4418	2046.9669	2046.7423	2046.2232
2151.6722	2151.6925	2160.7818	2160.3215	2159.704
1738.9592	1738.96245	1745.733	1745.5079	1744.9437
1542.4976	1542.56625	1548.6787	1548.2197	1547.786
1441.5374	1441.5175	1446.8058	1446.5699	1446.2333
1542.4598	1542.4694	1548.6498	1548.3152	1547.8931
1327.5337	1327.49685	1331.8161	1331.559	1331.3405
1428.548	1428.5308	1433.6688	1433.4584	1433.0459
1228.2623	1228.25355	1231.9624	1231.5928	1231.5321
1428.5372	1428.5523	1433.8949	1433.2884	1433.0878
1783.971	1783.95975	1790.8425	1790.6063	1790.0278
1100.0124	1100.0537	1103.431	1103.3609	1103.2938
1201.2493	1201.21615	1205.6026	1205.2011	1205.0007
970.9651	970.944	973.8876	973.7681	973.6256
1072.0608	1072.0498	1075.6854	1075.5061	1075.3539
841.8434	841.8683	844.3244	844.2043	844.0165
1216.2786	1216.3211	1220.0174	1219.9584	1219.766
3005.2953	3005.1329	3014.4991	3013.5679	3012.9434
1085.081	1085.1366	1088.4096	1088.2623	1088.1549
863.9327	863.8842	867.0263	866.7708	866.3806
2909.0792	2908.7211	2917.919	2918.6185	2920.7841
831.8216	831.6624	834.9932	834.8278	834.7781
1049.1103	1049.0503	1053.9932	1053.309	1053.5777
1163.2817	1163.1014	1168.8927	1169.0491	1167.9533
2435.6253	2435.6215	2445.8272	2445.285	2446.9274
2806.0977	2805.8654	2817.9841	2817.3397	2815.8432
933.9882	933.9583	937.9754	937.6103	937.4999
1452.6386	1452.4019	1459.1958	1459.1795	1459.4977
2690.9204	2690.7946	2701.924	2701.1552	2700.7322
1012.1391	1012.2719	1015.3401	1015.1345	1015.0244
1149.4536	1149.3522	1152.8412	1152.5374	1152.4303
2250.7525	2250.7418	2257.3905	2257.0327	2256.5633
825.8747	825.87	828.6392	828.4946	828.4265
1693.9243	1693.8611	1698.49	1698.1381	1698.8491
2064.3204	2064.1739	2070.3857	2070.1052	2069.6791
1163.2179	1163.1806	1165.0082	1164.7663	1164.4685
1405.4794	1405.4495	1408.7473	1408.5992	1408.508
1661.7716	1661.7803	1665.8588	1665.8121	1665.73
1420.4448	1420.4607	1424.3109	1424.2294	1424.0503
1257.167	1257.1752	1260.9887	1260.8475	1260.5695
1120.2917	1120.1529	1123.3201	1123.302	1123.0382
1005.0476	1004.9925	1008.5751	1008.4498	1007.9399

smAKAP_1(1.00)	smAKAP_2(1.00)	smAKAP_3(1.00)	smAKAP_1(10.00)	smAKAP_2(10.00)
875.8858	876.0172	875.8219	876.1925	876.0058
1007.2897	1007.5994	1007.2951	1007.6729	1007.3806
1461.9247	1461.9445	1461.5497	1462.1398	1462.0198
1333.2635	1333.4741	1333.1679	1333.6059	1333.2878
1462.8979	1463.1583	1462.7994	1463.3384	1463.0983
1245.6105	1246.25	1245.3866	1246.1259	1245.6383
953.6252	953.6387	953.4761	954.0269	953.5518
1117.9293	1117.833	1117.8449	1118.0838	1118.5103
1247.0279	1247.0409	1246.8594	1247.3036	1247.0861
1562.4127	1562.893	1562.3475	1562.8739	1562.6251
2302.9321	2303.749	2303.228	2303.7755	2303.3614
2679.2679	2680.1936	2679.496	2680.2904	2679.3808
3035.3151	3036.4336	3035.72	3036.5224	3035.7876
3051.1431	3052.5783	3051.691	3052.6855	3051.9177
988.6885	988.7739	988.5443	988.8685	988.7439
1118.2609	1118.34	1118.1384	1118.3965	1118.3081
2174.3471	2175.0752	2174.5287	2175.2001	2174.7808
2550.5406	2551.4906	2550.6352	2551.5333	2550.9829
2906.6098	2907.6331	2906.8637	2907.7906	2907.133
2922.4077	2923.9464	2923.0936	2923.9036	2923.029
1828.0794	1828.8081	1828.2185	1829.0177	1828.4852
2560.3588	2561.5366	2560.9805	2561.4461	2560.9208
842.6748	842.6066	842.4061	842.8592	842.6453
1583.8743	1584.1384	1583.7428	1584.4372	1584.1407
1959.2665	1960.0058	1959.558	1960.1391	1959.7044
2315.3617	2316.2982	2315.6938	2316.3756	2315.8614
2331.5592	2332.4917	2331.7713	2332.5346	2331.9457
2577.6599	2577.7422	2575.8117	2576.1261	2576.1022
3145.4997	3147.7261	3154.3579	3149.5649	3147.7575
1857.4291	1857.7656	1857.4782	1858.0232	1857.4199
2213.5429	2214.3378	2213.8073	2214.4348	2213.9641
2099.8325	2100.5657	2101.0499	2100.742	2099.6341
1580.4646	1580.8921	1580.5032	1580.9927	1580.6613
1936.5731	1937.071	1936.6516	1937.1975	1936.8528
1952.6331	1953.1205	1952.656	1953.2797	1952.8681
2408.2478	2408.9663	2409.0342	2409.2895	2409.3967
2767.1872	2767.6838	2766.0793	2767.4297	2768.4579
1807.2486	1807.7485	1807.3085	1807.8965	1807.4999
1492.7156	1492.7503	1490.9624	1492.8108	1490.3374
908.2689	908.2381	908.075	908.5674	908.2334
1582.3425	1582.6528	1582.2906	1582.8625	1582.5343
1134.0817	1134.0427	1133.8216	1134.3559	1134.0269
1205.8589	1206.0414	1205.6667	1206.1719	1205.8941
849.2942	849.1933	848.864	849.3356	849.1499
1248.8358	1249.0089	1248.2654	1249.1763	1248.7363
847.3546	847.4011	847.016	847.4721	847.3946

1904.3192	1904.7572	1904.1539	1905.0152	1904.5226
776.1359	776.1347	775.8751	776.2782	776.1321
905.5995	905.4997	905.1164	905.7431	905.747
1515.4785	1515.1825	1514.908	1515.5882	1515.3341
1731.4671	1731.8395	1731.1858	1732.0592	1731.6784
1833.0402	1833.4327	1832.7709	1833.7263	1833.3044
2046.5151	2047.3281	2046.6879	2047.372	2047.0787
2160.6341	2161.1396	2160.3171	2161.5518	2160.9393
1745.5287	1745.8491	1745.1946	1746.2146	1745.7317
1548.5093	1548.7034	1547.9557	1549.0817	1548.4479
1446.7996	1446.9244	1446.4141	1447.1657	1446.8711
1547.9806	1548.6767	1548.2066	1548.988	1548.6146
1331.7783	1331.9128	1331.4778	1332.1291	1331.8104
1433.6161	1433.7262	1433.3643	1433.8635	1433.6377
1231.7737	1231.7723	1231.8513	1232.1151	1231.5874
1433.5629	1433.7939	1433.2733	1434.1861	1433.7699
1790.6486	1790.9143	1790.1193	1791.0781	1790.8356
1103.6217	1103.627	1103.2816	1103.8845	1103.2931
1205.5605	1205.4494	1205.111	1205.6749	1205.3183
973.8603	973.9143	973.6998	974.0428	973.9161
1075.6926	1075.7201	1075.4623	1075.8685	1075.7256
844.3171	844.3415	844.1408	844.4883	844.2681
1220.5549	1220.2231	1219.9429	1220.3886	1220.3082
3014.8869	3015.6189	3014.6135	3017.3525	3016.8336
1088.3916	1088.5518	1088.1592	1088.4904	1088.5372
867.0068	867.0633	866.453	866.9513	866.9122
2918.0338	2918.4274	2922.7781	2916.7191	2922.8923
835.3653	835.013	834.8282	835.2869	835.0237
1053.9346	1053.9206	1053.5354	1054.1178	1053.7464
1168.4818	1168.9695	1169.2822	1169.5888	1168.6231
2445.9925	2446.1049	2446.8449	2446.4595	2445.6183
2817.9269	2818.0083	2817.2216	2818.6923	2817.9753
937.8919	937.7735	937.5546	938.0211	937.9539
1459.6245	1459.6621	1459.6329	1460.126	1459.7549
2701.7095	2702.1784	2701.0048	2702.6673	2701.9087
1015.2343	1015.535	1015.2232	1015.6255	1015.3959
1152.6613	1152.863	1152.3934	1152.9993	1152.7159
2256.7627	2257.664	2257.0851	2257.7205	2257.1294
828.7439	828.825	828.5841	828.9355	828.7928
1698.2972	1698.6917	1698.49445	1698.6796	1698.5866
2070.0134	2070.6002	2070.0962	2070.685	2070.4019
1165.3907	1165.3136	1165.2575	1165.5043	1166.0602
1409.1447	1408.949	1408.799	1408.9828	1408.7475
1665.8823	1666.1063	1665.7551	1666.1241	1666.0235
1424.2331	1424.4983	1424.1066	1424.6663	1424.4602
1260.8052	1261.0949	1260.7469	1261.2206	1260.9565
1123.243	1123.4257	1123.1298	1123.8418	1123.5416
1008.4313	1008.6187	1008.2446	1008.6265	1008.4629

smAKAP_3(10.00)	smAKAP_1(60.00)	smAKAP_2(60.00)	smAKAP_3(60.00)	smAKAP_4(60.00)
876.0179	876.1909	876.1744	875.9948	875.932
1007.6136	1007.7477	1007.7346	1007.5659	1007.5454
1461.9457	1462.1125	1462.0498	1462.2995	1462.5164
1333.5443	1333.6758	1333.6774	1333.656	1334.1251
1463.4182	1463.3568	1463.4143	1463.3586	1463.4199
1245.9732	1246.2566	1245.9326	1245.7898	1245.9263
953.8103	953.808	953.7448	953.9579	953.9444
1118.5378	1117.6159	1118.5888	1118.2793	1118.5442
1247.1807	1247.285	1247.34	1247.247	1247.375
1562.9117	1563.0675	1563.0359	1562.9063	1562.9479
2303.9185	2303.9565	2304.0129	2303.9784	2304.1342
2680.1476	2680.2836	2680.403	2680.4602	2680.7187
3036.506	3036.6732	3036.7418	3036.5834	3036.9192
3052.8085	3052.6953	3052.5981	3052.6586	3053.4937
988.802	988.8859	988.8534	988.8581	988.8802
1118.4287	1118.5233	1118.4025	1118.4593	1118.4484
2175.2289	2175.2878	2175.3084	2175.1723	2175.457
2551.4824	2551.5851	2551.5726	2551.5363	2552.4087
2907.6875	2907.8106	2907.8346	2907.7332	2908.4215
2923.8009	2923.8965	2923.896	2923.9086	2924.5554
1828.9876	1829.2029	1828.9956	1828.8994	1829.1562
2561.669	2561.5515	2561.718	2561.6032	2561.9571
842.6579	842.7321	842.7121	842.7303	842.6717
1584.2908	1584.4598	1584.3566	1584.3446	1584.361
1960.0942	1960.201	1960.1814	1960.0333	1960.3485
2316.356	2316.4227	2316.4548	2316.3643	2316.6432
2332.5306	2332.5847	2332.5944	2332.3414	2332.7608
2577.1279	2575.5134	2578.1274	2576.0038	2578.0639
3148.5383	3148.2879	3147.987	3147.7701	3148.3981
1857.9273	1857.8577	1857.9605	1857.8899	1857.5287
2214.3956	2214.45	2214.4846	2214.3032	2214.528
2100.6015	2100.7763	2100.7932	2101.1821	2101.1873
1580.8735	1581.042	1580.9705	1580.9163	1581.0321
1937.1759	1937.284	1937.2643	1937.1518	1937.3054
1953.2073	1953.4549	1953.3336	1953.2144	1953.2749
2409.1238	2409.6282	2409.3145	2410.9009	2409.3412
2769.137	2769.7331	2767.1375	2768.5798	2768.975
1807.8169	1807.926	1807.8497	1807.7829	1807.8953
1491.1072	1492.9747	1491.1505	1491.044	1492.6321
908.3126	908.5147	908.3572	908.3421	908.3024
1582.7998	1582.8467	1582.8422	1582.7618	1582.9899
1134.0602	1134.31	1134.1049	1134.0301	1134.1681
1206.0524	1206.2143	1206.1433	1206.1134	1206.0472
849.2258	849.3919	849.3265	849.3119	849.204
1248.9136	1249.0105	1249.1567	1249.0496	1249.1946
847.4813	847.5377	847.555	847.4807	847.5092

1905.031	1905.0325	1905.0345	1904.907	1905.1728
776.1862	776.302	776.271	776.2756	776.2399
905.6925	905.7601	905.7837	905.6382	905.8295
1515.9225	1515.5163	1515.3848	1515.4113	1515.7305
1731.9506	1732.1174	1732.0937	1732.0027	1732.0562
1833.629	1833.8416	1833.7609	1833.6354	1833.7355
2047.5664	2047.6057	2047.6407	2047.5662	2047.8458
2161.6186	2161.6243	2161.6016	2161.6077	2161.6334
1746.0564	1746.2848	1746.23	1746.0428	1746.2099
1548.675	1548.9938	1548.9207	1548.7396	1548.6109
1447.0006	1447.1948	1447.142	1447.0961	1447.0354
1548.7612	1548.8999	1548.9553	1548.8599	1548.7114
1331.9378	1332.0824	1332.0536	1332.0065	1331.9107
1433.8243	1433.937	1433.8513	1433.7734	1433.7332
1231.9863	1232.1621	1232.1867	1232.1232	1232.1822
1433.9226	1434.1829	1433.9632	1433.8413	1433.8623
1791.0323	1791.2348	1791.238	1791.1708	1791.1836
1103.5847	1103.9028	1103.7794	1103.877	1103.7586
1205.4893	1205.8379	1205.5801	1205.5944	1205.5597
973.97	974.0793	974.0273	974.0541	974.0366
1075.7883	1075.8766	1075.8522	1075.8713	1075.8301
844.3904	844.4418	844.4203	844.4225	844.3837
1220.3423	1220.3894	1220.3127	1220.4795	1220.6081
3017.2259	3017.9518	3017.9789	3017.781	3017.2919
1088.386	1088.6309	1088.6313	1088.6736	1088.7407
866.759	867.0618	867.0854	866.9376	866.7061
2918.3052	2917.534	2918.3757	2918.1909	2919.5007
835.4444	835.4338	835.734	834.9084	835.314
1054.1001	1052.8726	1054.1171	1054.3386	1054.0146
1169.125	1169.4454	1169.5325	1169.48895	1169.2504
2446.1956	2446.9403	2446.2447	2446.5443	2447.9431
2818.3707	2818.4838	2818.4596	2818.3566	2816.7242
937.9784	938.2965	938.1071	938.3547	938.0416
1459.8927	1460.1991	1459.9172	1459.7549	1459.8404
2702.3907	2702.6257	2702.3487	2702.1991	2702.9813
1015.5823	1015.6537	1015.6473	1015.5976	1015.7047
1152.8855	1153.0446	1153.4222	1152.8196	1153.1493
2257.6753	2257.7664	2257.8096	2257.7053	2258.5448
828.8866	828.9966	828.9462	829.0525	828.8645
1698.5962	1698.7494	1698.5133	1698.6111	1699.796
2070.7352	2070.7373	2070.7873	2070.8825	2071.2329
1165.3437	1165.4111	1165.4429	1165.427	1165.4429
1409.0854	1409.0021	1409.1746	1409.0105	1409.0013
1666.066	1666.227	1666.2843	1666.345	1666.3461
1424.5728	1424.6908	1424.6866	1424.6344	1424.6687
1261.1609	1261.2517	1261.239	1261.18	1261.2465
1123.8655	1123.8985	1123.502	1123.6751	1123.6624
1008.8313	1008.7981	1008.8033	1008.6137	1008.7398

smAKAP_1(240.00)	smAKAP_2(240.00)	smAKAP_3(240.00)
875.8919	875.8594	875.957
1007.6004	1007.3396	1007.4556
1462.1042	1462.0767	1462.3124
1333.45	1333.4894	1333.6238
1463.3552	1463.4057	1463.1822
1245.8831	1245.9557	1245.6232
953.4971	953.6838	954.0297
1117.5689	1118.5366	1118.5581
1247.2826	1247.3738	1247.2323
1562.9356	1563.1172	1563.1381
2303.9567	2304.4565	2304.2508
2680.324	2681.2925	2681.3794
3036.6821	3037.6892	3037.4463
3052.9276	3054.301	3053.5516
988.7854	988.895	988.8787
1118.3954	1118.5208	1118.5882
2175.3613	2175.6588	2175.5532
2552.2985	2552.4825	2552.365
2907.8888	2908.7478	2908.6913
2924.0129	2924.9009	2924.6793
1828.9176	1829.2995	1829.1713
2561.9515	2562.4363	2562.4514
842.6102	842.8911	842.8228
1584.0962	1584.5541	1584.4905
1960.2164	1960.6312	1960.4939
2316.478	2316.9274	2316.8877
2332.6924	2333.0238	2333.0097
2576.8356	2577.3115	2576.9989
3148.1723	3148.4537	3148.4082
1857.5122	1857.8501	1858.0729
2214.5545	2214.8271	2214.8302
2101.2968	2100.4889	2100.9269
1580.842	1580.9901	1581.0846
1937.1342	1937.3818	1937.3408
1953.0428	1953.4793	1953.5085
2409.6354	2410.0418	2410.5207
2769.3235	2767.7141	2767.3243
1807.748	1807.982	1807.9014
1491.6141	1492.2592	1492.1886
908.2586	908.3629	908.2639
1582.7264	1582.8024	1582.9049
1133.7566	1133.902	1134.0707
1205.8891	1206.0098	1205.9363
849.0236	848.881	848.8471
1248.9168	1248.6478	1248.9952
847.4409	847.4733	847.488

1904.9373	1905.2606	1905.1726
776.1741	776.233	776.2281
905.6447	905.5989	905.6563
1515.5451	1515.4482	1515.5454
1731.8818	1732.1272	1732.0984
1833.4844	1833.8233	1833.7325
2047.5914	2048.0167	2047.799
2161.4954	2161.9418	2161.6655
1746.0044	1746.1204	1746.0942
1548.4028	1547.7537	1548.2088
1446.8517	1447.0457	1446.9717
1548.6147	1548.8476	1548.7792
1331.748	1331.9558	1331.8818
1433.6065	1433.8056	1433.7444
1231.8176	1232.0214	1231.8315
1433.7228	1433.7029	1433.6977
1791.0976	1791.161	1791.2064
1103.6197	1103.5272	1103.9694
1205.4566	1205.6999	1205.585
973.8728	974.0907	974.0306
1075.7236	1075.9272	1075.8456
844.3086	844.4049	844.4442
1220.4366	1220.8105	1220.6212
3017.8258	3018.7662	3018.9751
1088.3912	1088.8178	1088.4594
866.9934	867.2012	866.9239
2923.8179	2918.6907	2919.4248
835.1484	835.7312	834.5124
1054.0498	1054.4195	1053.9034
1169.3726	1169.2573	1169.31495
2447.1238	2447.122	2447.2869
2818.2366	2819.3626	2819.2392
938.076	938.3915	937.9586
1459.7546	1459.7808	1459.8942
2702.2085	2702.7865	2703.0162
1015.5507	1015.7444	1015.6581
1153.0595	1153.0002	1153.02985
2257.8035	2258.3928	2258.3845
828.838	828.8123	828.8313
1698.9426	1699.4143	1698.895
2070.9026	2071.1633	2071.1389
1165.4415	1165.4415	1165.4415
1408.8838	1409.542	1409.2365
1666.2223	1666.2762	1666.43
1424.5031	1424.692	1424.6286
1261.1384	1261.3051	1261.2578
1123.5481	1123.6347	1123.6656
1008.5786	1008.8795	1008.8171

Supplementary Table 3: The smAKAP peptides of the hydrogen/deuterium exchange displaying the percentage of deuterium incorporation in the AKB

Sequence	Start	End	Theoretical deuterium incorporation	
MLVPRGSL	25	32	6	872.9681
MLVPRGSLM	25	33	7	1004.1607
KSKQTFPFPTIY	37	48	9	1457.5743
SKQTFPFPTIY	38	48	8	1329.4246
SKQTFPFPTIYE	38	49	9	1458.5572
KQTFPFPTIY	39	48	7	1242.3874
QTFPFPTI	40	47	5	950.9699
QTFPFPTIY	40	48	6	1114.9496
QTFPFPTIYE	40	49	7	1243.1523
QTFPFPTIYEGEK	40	52	10	1557.6723
QTFPFPTIYEGEKQHESEE	40	58	16	2297.3534
QTFPFPTIYEGEKQHESEEPFM	40	61	18	2672.8106
QTFPFPTIYEGEKQHESEEPFMPEE	40	64	20	3028.1024
QTFPFPTIYEGEKQHESEEPFMPEE	40	64	20	3044.3838
TFPFPTIY	41	48	5	985.9171
TFPFPTIYE	41	49	6	1115.0149
TFPFPTIYEGEKQHESEE	41	58	15	2169.2113
TFPFPTIYEGEKQHESEEPFM	41	61	17	2544.7169
TFPFPTIYEGEKQHESEEPFMPEE	41	64	19	2900.0303
TFPFPTIYEGEKQHESEEPFMPEE	41	64	19	2916.1319
FPTIYEGEKQHESEE	44	58	13	1823.8426
FPTIYEGEKQHESEEPFMPEE	44	64	17	2554.6965
TIYEGEK	46	52	6	839.8534
TIYEGEKQHESEE	46	58	12	1579.5578
TIYEGEKQHESEEPFM	46	61	14	1955.0549
TIYEGEKQHESEEPFMPEE	46	64	16	2310.2974
TIYEGEKQHESEEPFMPEE	46	64	16	2326.3471
TIYEGEKQHESEEPFMPEERC	46	66	18	2569.7465
TIYEGEKQHESEEPFMPEERCLPRMA	46	71	22	3137.9572
IYEGEKQHESEEPFM	47	61	13	1853.9577
IYEGEKQHESEEPFMPEE	47	64	15	2209.2677
YEGEKQHESEEPFMPEE	48	64	14	2096.1082
EGEKQHESEEPFM	49	61	11	1577.5969
EGEKQHESEEPFMPEE	49	64	13	1932.8489
EGEKQHESEEPFMPEE	49	64	13	1949.0095
EGEKQHESEEPFMPEERCLP	49	68	16	2402.5411
EGEKQHESEEPFMPEERCLPRMA	49	71	19	2761.1891
GEKQHESEEPFMPEE	50	64	12	1803.743
QHESEEPFMPEE	53	64	9	1489.4138
PFMPEER	59	65	4	905.9455
PFMPEERCLPRMA	59	71	9	1577.8265
MPEERCLPR	61	69	6	1131.2184
PEERCLPRMA	62	71	7	1202.268
RCLPRMA	65	71	5	846.9461
RCLPRMASPVN	65	75	8	1244.43
ASPVNVKE	71	78	6	843.8986
ASPVNVKEEVKEPPGTNT	71	88	14	1897.0748
SPVNVKE	72	78	5	772.7478
SPVNVKEE	72	79	6	901.9271
SPVNVKEEVKEPPG	72	85	10	1509.5685
SPVNVKEEVKEPPGTN	72	87	12	1724.7588
SPVNVKEEVKEPPGTNT	72	88	13	1825.8684
SPVNVKEEVKEPPGTNTVI	72	90	15	2038.3509
SPVNVKEEVKEPPGTNTVIL	72	91	16	2151.7992
PVNVKEEVKEPPGTNT	73	88	12	1738.9657
VNVKEEVKEPPGTN	74	87	11	1542.6349
NVKEEVKEPPGTN	75	87	10	1441.4976
NVKEEVKEPPGTNT	75	88	11	1542.479
VKEEVKEPPGTN	76	87	9	1327.46
VKEEVKEPPGTNT	76	88	10	1428.5136
KEEVKEPPGTN	77	87	8	1228.2448
KEEVKEPPGTNTV	77	89	10	1428.5674
KEEVKEPPGTNTVILE	77	92	13	1783.9485
EEVKEPPGTN	78	87	7	1100.095

EEVKEPPGTNT	78	88	8	1201.183
EVKEPPGTN	79	87	6	970.9229
EVKEPPGTNT	79	88	7	1072.0388
VKEPPGTN	80	87	5	841.8932
YAHRLSQDIL	93	102	9	1216.23
YAHRLSQDILCDALQQWACNNIKYH	93	117	24	3005.2134
HRLSQDILC	95	103	8	1085.0762
CDALQQW	103	109	6	863.8259
CDALQQWACNNIKYHDIPYIESEGP	103	127	22	2908.966
DALQQWA	104	110	6	831.6893
DALQQWACN	104	112	8	1048.9461
DALQQWACNN	104	113	9	1163.0893
DALQQWACNNIKYHDIPYIE	104	123	18	2435.5446
DALQQWACNNIKYHDIPYIESEGP	104	127	21	2806.0526
ALQQWACN	105	112	7	933.8785
ALQQWACNNIKY	105	116	11	1452.6784
ALQQWACNNIKYHDIPYIESEGP	105	127	20	2690.884
WACNNIKY	109	116	7	1012.0543
WACNNIKYH	109	117	8	1149.4724
WACNNIKYHDIPYIESEGP	109	127	16	2250.5919
ACNNIKY	110	116	6	825.8565
ACNNIKYHDIPYIE	110	123	12	1693.9021
ACNNIKYHDIPYIESEGP	110	127	15	2064.2845
NIKYHDIPY	113	121	7	1163.3006
NIKYHDIPYIE	113	123	9	1405.4918
IKYHDIPYIESEGP	114	127	11	1661.7418
YHDIPYIESEGP	116	127	9	1420.4736
HDIPYIESEGP	117	127	8	1257.1702
DIPYIESEGP	118	127	7	1120.2633
IPYIESEGP	119	127	6	1004.9356

P

smAKAP @ 0 min

smAKAP @ 10 sec

smAKAP @ 1 min

873.0429	873.0484	876.0087	875.8238	875.6153	875.8858	876.0172	875.8219
1004.2165	1004.0906	1007.4223	1007.2484	1007.1472	1007.2897	1007.5994	1007.2951
1457.6341	1457.608	1461.7963	1461.5163	1461.5227	1461.9247	1461.9445	1461.5497
1329.3969	1329.3938	1333.4258	1333.2604	1333.0362	1333.2635	1333.4741	1333.1679
1458.5449	1458.5509	1463.1721	1462.9523	1462.6336	1462.8979	1463.1583	1462.7994
1242.3826	1242.2621	1246.1314	1245.5396	1245.8248	1245.6105	1246.25	1245.3866
950.9233	950.8219	953.5454	953.8153	953.1706	953.6252	953.6387	953.4761
1115.0174	1114.9828	1117.7482	1117.806	1117.6817	1117.9293	1117.833	1117.8449
1243.2436	1243.218	1246.9991	1246.8741	1246.6361	1247.0279	1247.0409	1246.8594
1557.7121	1557.6729	1562.6451	1562.5097	1562.1558	1562.4127	1562.893	1562.3475
2297.3423	2297.5016	2303.4475	2303.4388	2302.7219	2302.9321	2303.749	2303.228
2672.7239	2673.1599	2679.9598	2679.6439	2679.0045	2679.2679	2680.1936	2679.496
3028.222	3028.1528	3036.1674	3035.9556	3035.2301	3035.3151	3036.4336	3035.72
3044.3529	3044.1237	3052.2952	3052.0475	3051.3344	3051.1431	3052.5783	3051.691
985.9951	985.943	988.7184	988.565	988.4122	988.6885	988.7739	988.5443
1115.1029	1115.0434	1118.1972	1118.1133	1117.9386	1118.2609	1118.34	1118.1384
2169.2587	2169.2828	2174.8907	2174.7994	2174.1617	2174.3471	2175.0752	2174.5287
2544.7692	2544.726	2551.2586	2550.9555	2550.6431	2550.5406	2551.4906	2550.6352
2900.0468	2900.0219	2907.4128	2907.0902	2906.5715	2906.6098	2907.6331	2906.8637
2916.0888	2916.0685	2923.6481	2923.2004	2922.4722	2922.4077	2923.9464	2923.0936
1823.8246	1823.7806	1828.756	1828.5719	1828.0071	1828.0794	1828.8081	1828.2185
2554.6948	2554.6697	2561.228	2561.1515	2560.504	2560.3588	2561.5366	2560.9805
839.9052	839.8793	842.6168	842.3831	842.3481	842.6748	842.6066	842.4061
1579.5784	1579.5681	1584.1664	1583.9139	1583.7115	1583.8743	1584.1384	1583.7428
1955.0797	1955.086	1959.8661	1959.7979	1959.3008	1959.2665	1960.0058	1959.558
2310.372	2310.3723	2316.0636	2315.9336	2315.3753	2315.3617	2316.2982	2315.6938
2326.391	2326.3995	2332.2133	2332.0906	2331.5579	2331.5592	2332.4917	2331.7713
2569.6986	2569.6395	2575.8722	2576.851	2574.9102	2577.6599	2577.7422	2575.8117
3138.379	3138.8289	3146.5862	3154.4227	3158.2278	3145.4997	3147.7261	3154.3579
1853.9282	1853.8398	1857.7422	1857.6919	1857.2904	1857.4291	1857.7656	1857.4782
2209.2827	2209.2573	2214.1676	2214.0188	2213.5214	2213.5429	2214.3378	2213.8073
2096.0737	2095.9884	2100.4678	2100.391	2099.556	2099.8325	2100.5657	2101.0499
1577.6339	1577.5777	1580.8225	1580.6858	1580.414	1580.4646	1580.8921	1580.5032
1932.9059	1932.9382	1936.9968	1936.8739	1936.4709	1936.5731	1937.071	1936.6516
1948.9348	1948.963	1953.1533	1952.962	1952.4937	1952.6331	1953.1205	1952.656
2402.6171	2402.1894	2408.6939	2408.3974	2408.1678	2408.2478	2408.9663	2409.0342
2761.0444	2760.5944	2767.8487	2766.7337	2769.0155	2767.1872	2767.6838	2766.0793
1803.7849	1803.7558	1807.6664	1807.5109	1807.1576	1807.2486	1807.7485	1807.3085
1489.4499	1489.4659	1492.7362	1493.8732	1490.9911	1492.7156	1492.7503	1490.9624
906.0027	905.9719	908.0885	907.8715	907.9903	908.2689	908.2381	908.075
1577.8198	1577.819	1582.5508	1582.3711	1581.9309	1582.3425	1582.6528	1582.2906
1131.2271	1131.1756	1134.0753	1133.8515	1133.734	1134.0817	1134.0427	1133.8216
1202.3137	1202.3546	1205.9734	1205.7107	1205.5577	1205.8589	1206.0414	1205.6667
846.8874	846.8337	849.1598	849.0129	849.056	849.2942	849.1933	848.864
1244.3563	1244.4046	1248.8935	1248.5028	1248.5067	1248.8358	1249.0089	1248.2654
843.9311	843.91485	847.357	847.2393	846.9559	847.3546	847.4011	847.016
1897.0796	1897.0772	1904.534	1904.3305	1903.8235	1904.3192	1904.7572	1904.1539
772.763	772.7554	776.0845	775.9412	775.7821	776.1359	776.1347	775.8751
901.8878	901.90745	905.3851	905.2252	905.0683	905.5995	905.4997	905.1164
1509.6243	1509.5964	1515.2025	1515.1735	1514.6341	1515.4785	1515.1825	1514.908
1724.7735	1724.76615	1731.6577	1731.39	1730.9144	1731.4671	1731.8395	1731.1858
1825.8966	1825.8825	1833.2807	1833.0151	1832.4625	1833.0402	1833.4327	1832.7709
2038.3376	2038.4418	2046.9669	2046.7423	2046.2232	2046.5151	2047.3281	2046.6879
2151.6722	2151.6925	2160.7818	2160.3215	2159.704	2160.6341	2161.1396	2160.3171
1738.9592	1738.96245	1745.733	1745.5079	1744.9437	1745.5287	1745.8491	1745.1946
1542.4976	1542.56625	1548.6787	1548.2197	1547.786	1548.5093	1548.7034	1547.9557
1441.5374	1441.5175	1446.8058	1446.5699	1446.2333	1446.7996	1446.9244	1446.4141
1542.4598	1542.4694	1548.6498	1548.3152	1547.8931	1547.9806	1548.6767	1548.2066
1327.5337	1327.49685	1331.8161	1331.559	1331.3405	1331.7783	1331.9128	1331.4778
1428.548	1428.5308	1433.6688	1433.4584	1433.0459	1433.6161	1433.7262	1433.3643
1228.2623	1228.25355	1231.9624	1231.5928	1231.5321	1231.7737	1231.7723	1231.8513
1428.5372	1428.5523	1433.8949	1433.2884	1433.0878	1433.5629	1433.7939	1433.2733
1783.971	1783.95975	1790.8425	1790.6063	1790.0278	1790.6486	1790.9143	1790.1193
1100.0124	1100.0537	1103.431	1103.3609	1103.2938	1103.6217	1103.627	1103.2816

1201.2493	1201.21615	1205.6026	1205.2011	1205.0007	1205.5605	1205.4494	1205.111
970.9651	970.944	973.8876	973.7681	973.6256	973.8603	973.9143	973.6998
1072.0608	1072.0498	1075.6854	1075.5061	1075.3539	1075.6926	1075.7201	1075.4623
841.8434	841.8683	844.3244	844.2043	844.0165	844.3171	844.3415	844.1408
1216.2786	1216.3211	1220.0174	1219.9584	1219.766	1220.5549	1220.2231	1219.9429
3005.2953	3005.1329	3014.4991	3013.5679	3012.9434	3014.8869	3015.6189	3014.6135
1085.081	1085.1366	1088.4096	1088.2623	1088.1549	1088.3916	1088.5518	1088.1592
863.9327	863.8842	867.0263	866.7708	866.3806	867.0068	867.0633	866.453
2909.0792	2908.7211	2917.919	2918.6185	2920.7841	2918.0338	2918.4274	2922.7781
831.8216	831.6624	834.9932	834.8278	834.7781	835.3653	835.013	834.8282
1049.1103	1049.0503	1053.9932	1053.309	1053.5777	1053.9346	1053.9206	1053.5354
1163.2817	1163.1014	1168.8927	1169.0491	1167.9533	1168.4818	1168.9695	1169.2822
2435.6253	2435.6215	2445.8272	2445.285	2446.9274	2445.9925	2446.1049	2446.8449
2806.0977	2805.8654	2817.9841	2817.3397	2815.8432	2817.9269	2818.0083	2817.2216
933.9882	933.9583	937.9754	937.6103	937.4999	937.8919	937.7735	937.5546
1452.6386	1452.4019	1459.1958	1459.1795	1459.4977	1459.6245	1459.6621	1459.6329
2690.9204	2690.7946	2701.924	2701.1552	2700.7322	2701.7095	2702.1784	2701.0048
1012.1391	1012.2719	1015.3401	1015.1345	1015.0244	1015.2343	1015.535	1015.2232
1149.4536	1149.3522	1152.8412	1152.5374	1152.4303	1152.6613	1152.863	1152.3934
2250.7525	2250.7418	2257.3905	2257.0327	2256.5633	2256.7627	2257.664	2257.0851
825.8747	825.87	828.6392	828.4946	828.4265	828.7439	828.825	828.5841
1693.9243	1693.8611	1698.49	1698.1381	1698.8491	1698.2972	1698.6917	1698.49445
2064.3204	2064.1739	2070.3857	2070.1052	2069.6791	2070.0134	2070.6002	2070.0962
1163.2179	1163.1806	1165.0082	1164.7663	1164.4685	1165.3907	1165.3136	1165.2575
1405.4794	1405.4495	1408.7473	1408.5992	1408.508	1409.1447	1408.949	1408.799
1661.7716	1661.7803	1665.8588	1665.8121	1665.73	1665.8823	1666.1063	1665.7551
1420.4448	1420.4607	1424.3109	1424.2294	1424.0503	1424.2331	1424.4983	1424.1066
1257.167	1257.1752	1260.9887	1260.8475	1260.5695	1260.8052	1261.0949	1260.7469
1120.2917	1120.1529	1123.3201	1123.302	1123.0382	1123.243	1123.4257	1123.1298
1005.0476	1004.9925	1008.5751	1008.4498	1007.9399	1008.4313	1008.6187	1008.2446

smAKAP @ 10 min			smAKAP @ 60 min				
876.1925	876.0058	876.0179	876.1909	876.1744	875.9948	875.932	875.8919
1007.6729	1007.3806	1007.6136	1007.7477	1007.7346	1007.5659	1007.5454	1007.6004
1462.1398	1462.0198	1461.9457	1462.1125	1462.0498	1462.2995	1462.5164	1462.1042
1333.6059	1333.2878	1333.5443	1333.6758	1333.6774	1333.656	1334.1251	1333.45
1463.3384	1463.0983	1463.4182	1463.3568	1463.4143	1463.3586	1463.4199	1463.3552
1246.1259	1245.6383	1245.9732	1246.2566	1245.9326	1245.7898	1245.9263	1245.8831
954.0269	953.5518	953.8103	953.808	953.7448	953.9579	953.9444	953.4971
1118.0838	1118.5103	1118.5378	1117.6159	1118.5888	1118.2793	1118.5442	1117.5689
1247.3036	1247.0861	1247.1807	1247.285	1247.34	1247.247	1247.375	1247.2826
1562.8739	1562.6251	1562.9117	1563.0675	1563.0359	1562.9063	1562.9479	1562.9356
2303.7755	2303.3614	2303.9185	2303.9565	2304.0129	2303.9784	2304.1342	2303.9567
2680.2904	2679.3808	2680.1476	2680.2836	2680.403	2680.4602	2680.7187	2680.324
3036.5224	3035.7876	3036.506	3036.6732	3036.7418	3036.5834	3036.9192	3036.6821
3052.6855	3051.9177	3052.8085	3052.6953	3052.5981	3052.6586	3053.4937	3052.9276
988.8685	988.7439	988.802	988.8859	988.8534	988.8581	988.8802	988.7854
1118.3965	1118.3081	1118.4287	1118.5233	1118.4025	1118.4593	1118.4484	1118.3954
2175.2001	2174.7808	2175.2289	2175.2878	2175.3084	2175.1723	2175.457	2175.3613
2551.5333	2550.9829	2551.4824	2551.5851	2551.5726	2551.5363	2552.4087	2552.2985
2907.7906	2907.133	2907.6875	2907.8106	2907.8346	2907.7332	2908.4215	2907.8888
2923.9036	2923.029	2923.8009	2923.8965	2923.896	2923.9086	2924.5554	2924.0129
1829.0177	1828.4852	1828.9876	1829.2029	1828.9956	1828.8994	1829.1562	1828.9176
2561.4461	2560.9208	2561.669	2561.5515	2561.718	2561.6032	2561.9571	2561.9515
842.8592	842.6453	842.6579	842.7321	842.7121	842.7303	842.6717	842.6102
1584.4372	1584.1407	1584.2908	1584.4598	1584.3566	1584.3446	1584.361	1584.0962
1960.1391	1959.7044	1960.0942	1960.201	1960.1814	1960.0333	1960.3485	1960.2164
2316.3756	2315.8614	2316.356	2316.4227	2316.4548	2316.3643	2316.6432	2316.478
2332.5346	2331.9457	2332.5306	2332.5847	2332.5944	2332.3414	2332.7608	2332.6924
2576.1261	2576.1022	2577.1279	2575.5134	2578.1274	2576.0038	2578.0639	2576.8356
3149.5649	3147.7575	3148.5383	3148.2879	3147.987	3147.7701	3148.3981	3148.1723
1858.0232	1857.4199	1857.9273	1857.8577	1857.9605	1857.8899	1857.5287	1857.5122
2214.4348	2213.9641	2214.3956	2214.45	2214.4846	2214.3032	2214.528	2214.5545
2100.742	2099.6341	2100.6015	2100.7763	2100.7932	2101.1821	2101.1873	2101.2968
1580.9927	1580.6613	1580.8735	1581.042	1580.9705	1580.9163	1581.0321	1580.842
1937.1975	1936.8528	1937.1759	1937.284	1937.2643	1937.1518	1937.3054	1937.1342
1953.2797	1952.8681	1953.2073	1953.4549	1953.3336	1953.2144	1953.2749	1953.0428
2409.2895	2409.3967	2409.1238	2409.6282	2409.3145	2410.9009	2409.3412	2409.6354
2767.4297	2768.4579	2769.137	2769.7331	2767.1375	2768.5798	2768.975	2769.3235
1807.8965	1807.4999	1807.8169	1807.926	1807.8497	1807.7829	1807.8953	1807.748
1492.8108	1490.3374	1491.1072	1492.9747	1491.1505	1491.044	1492.6321	1491.6141
908.5674	908.2334	908.3126	908.5147	908.3572	908.3421	908.3024	908.2586
1582.8625	1582.5343	1582.7998	1582.8467	1582.8422	1582.7618	1582.9899	1582.7264
1134.3559	1134.0269	1134.0602	1134.31	1134.1049	1134.0301	1134.1681	1133.7566
1206.1719	1205.8941	1206.0524	1206.2143	1206.1433	1206.1134	1206.0472	1205.8891
849.3356	849.1499	849.2258	849.3919	849.3265	849.3119	849.204	849.0236
1249.1763	1248.7363	1248.9136	1249.0105	1249.1567	1249.0496	1249.1946	1248.9168
847.4721	847.3946	847.4813	847.5377	847.555	847.4807	847.5092	847.4409
1905.0152	1904.5226	1905.031	1905.0325	1905.0345	1904.907	1905.1728	1904.9373
776.2782	776.1321	776.1862	776.302	776.271	776.2756	776.2399	776.1741
905.7431	905.747	905.6925	905.7601	905.7837	905.6382	905.8295	905.6447
1515.5882	1515.3341	1515.9225	1515.5163	1515.3848	1515.4113	1515.7305	1515.5451
1732.0592	1731.6784	1731.9506	1732.1174	1732.0937	1732.0027	1732.0562	1731.8818
1833.7263	1833.3044	1833.629	1833.8416	1833.7609	1833.6354	1833.7355	1833.4844
2047.372	2047.0787	2047.5664	2047.6057	2047.6407	2047.5662	2047.8458	2047.5914
2161.5518	2160.9393	2161.6186	2161.6243	2161.6016	2161.6077	2161.6334	2161.4954
1746.2146	1745.7317	1746.0564	1746.2848	1746.23	1746.0428	1746.2099	1746.0044
1549.0817	1548.4479	1548.675	1548.9938	1548.9207	1548.7396	1548.6109	1548.4028
1447.1657	1446.8711	1447.0006	1447.1948	1447.142	1447.0961	1447.0354	1446.8517
1548.988	1548.6146	1548.7612	1548.8999	1548.9553	1548.8599	1548.7114	1548.6147
1332.1291	1331.8104	1331.9378	1332.0824	1332.0536	1332.0065	1331.9107	1331.748
1433.8635	1433.6377	1433.8243	1433.937	1433.8513	1433.7734	1433.7332	1433.6065
1232.1151	1231.5874	1231.9863	1232.1621	1232.1867	1232.1232	1232.1822	1231.8176
1434.1861	1433.7699	1433.9226	1434.1829	1433.9632	1433.8413	1433.8623	1433.7228
1791.0781	1790.8356	1791.0323	1791.2348	1791.238	1791.1708	1791.1836	1791.0976
1103.8845	1103.2931	1103.5847	1103.9028	1103.7794	1103.877	1103.7586	1103.6197

1205.6749	1205.3183	1205.4893	1205.8379	1205.5801	1205.5944	1205.5597	1205.4566
974.0428	973.9161	973.97	974.0793	974.0273	974.0541	974.0366	973.8728
1075.8685	1075.7256	1075.7883	1075.8766	1075.8522	1075.8713	1075.8301	1075.7236
844.4883	844.2681	844.3904	844.4418	844.4203	844.4225	844.3837	844.3086
1220.3886	1220.3082	1220.3423	1220.3894	1220.3127	1220.4795	1220.6081	1220.4366
3017.3525	3016.8336	3017.2259	3017.9518	3017.9789	3017.781	3017.2919	3017.8258
1088.4904	1088.5372	1088.386	1088.6309	1088.6313	1088.6736	1088.7407	1088.3912
866.9513	866.9122	866.759	867.0618	867.0854	866.9376	866.7061	866.9934
2916.7191	2922.8923	2918.3052	2917.534	2918.3757	2918.1909	2919.5007	2923.8179
835.2869	835.0237	835.4444	835.4338	835.734	834.9084	835.314	835.1484
1054.1178	1053.7464	1054.1001	1052.8726	1054.1171	1054.3386	1054.0146	1054.0498
1169.5888	1168.6231	1169.125	1169.4454	1169.5325	1169.48895	1169.2504	1169.3726
2446.4595	2445.6183	2446.1956	2446.9403	2446.2447	2446.5443	2447.9431	2447.1238
2818.6923	2817.9753	2818.3707	2818.4838	2818.4596	2818.3566	2816.7242	2818.2366
938.0211	937.9539	937.9784	938.2965	938.1071	938.3547	938.0416	938.076
1460.126	1459.7549	1459.8927	1460.1991	1459.9172	1459.7549	1459.8404	1459.7546
2702.6673	2701.9087	2702.3907	2702.6257	2702.3487	2702.1991	2702.9813	2702.2085
1015.6255	1015.3959	1015.5823	1015.6537	1015.6473	1015.5976	1015.7047	1015.5507
1152.9993	1152.7159	1152.8855	1153.0446	1153.4222	1152.8196	1153.1493	1153.0595
2257.7205	2257.1294	2257.6753	2257.7664	2257.8096	2257.7053	2258.5448	2257.8035
828.9355	828.7928	828.8866	828.9966	828.9462	829.0525	828.8645	828.838
1698.6796	1698.5866	1698.5962	1698.7494	1698.5133	1698.6111	1699.796	1698.9426
2070.685	2070.4019	2070.7352	2070.7373	2070.7873	2070.8825	2071.2329	2070.9026
1165.5043	1166.0602	1165.3437	1165.4111	1165.4429	1165.427	1165.4429	1165.4415
1408.9828	1408.7475	1409.0854	1409.0021	1409.1746	1409.0105	1409.0013	1408.8838
1666.1241	1666.0235	1666.066	1666.227	1666.2843	1666.345	1666.3461	1666.2223
1424.6663	1424.4602	1424.5728	1424.6908	1424.6866	1424.6344	1424.6687	1424.5031
1261.2206	1260.9565	1261.1609	1261.2517	1261.239	1261.18	1261.2465	1261.1384
1123.8418	1123.5416	1123.8655	1123.8985	1123.502	1123.6751	1123.6624	1123.5481
1008.6265	1008.4629	1008.8313	1008.7981	1008.8033	1008.6137	1008.7398	1008.5786

smAKAP @ 240 min

Average mass of peptide (Daltons)

		Time (min)	0	0.167	1	10
875.8594	875.957					
1007.3396	1007.4556		873.0198	875.8159333	875.9083	876.0720667
1462.0767	1462.3124		1004.155933	1007.272633	1007.394733	1007.5557
1333.4894	1333.6238		1457.605467	1461.611767	1461.8063	1462.0351
1463.4057	1463.1822		1329.4051	1333.2408	1333.301833	1333.479333
1245.9557	1245.6232		1458.551	1462.919333	1462.951867	1463.284967
953.6838	954.0297		1242.344033	1245.831933	1245.749033	1245.912467
1118.5366	1118.5581		950.9050333	953.5104333	953.58	953.7963333
1247.3738	1247.2323		1114.983267	1117.7453	1117.869067	1118.3773
1563.1172	1563.1381		1243.204633	1246.836433	1246.976067	1247.190133
2304.4565	2304.2508		1557.685767	1562.436867	1562.551067	1562.803567
2681.2925	2681.3794		2297.3991	2303.202733	2303.303033	2303.685133
3037.6892	3037.4463		2672.898133	2679.536067	2679.6525	2679.9396
3054.301	3053.5516		3028.159067	3035.784367	3035.8229	3036.272
988.895	988.8787		3044.2868	3051.892367	3051.804133	3052.470567
1118.5208	1118.5882		985.9517333	988.5652	988.6689	988.8048
2175.6588	2175.5532		1115.053733	1118.083033	1118.246433	1118.377767
2552.4825	2552.365		2169.250933	2174.617267	2174.650333	2175.069933
2908.7478	2908.6913		2544.737367	2550.9524	2550.8888	2551.332867
2924.9009	2924.6793		2900.033	2907.024833	2907.035533	2907.537033
1829.2995	1829.1713		2916.0964	2923.1069	2923.149233	2923.577833
2562.4363	2562.4514		1823.815933	1828.445	1828.368667	1828.830167
842.8911	842.8228		2554.687	2560.961167	2560.958633	2561.3453
1584.5541	1584.4905		839.8793	842.4493333	842.5625	842.7208
1960.6312	1960.4939		1579.5681	1583.9306	1583.9185	1584.289567
2316.9274	2316.8877		1955.073533	1959.654933	1959.6101	1959.979233
2333.0238	2333.0097		2310.347233	2315.790833	2315.784567	2316.197667
2577.3115	2576.9989		2326.3792	2331.953933	2331.940733	2332.336967
3148.4537	3148.4082		2569.694867	2575.8778	2577.071267	2576.452067
1857.8501	1858.0729		3138.388367	3153.0789	3149.194567	3148.620233
2214.8271	2214.8302		1853.908567	1857.574833	1857.557633	1857.790133
2100.4889	2100.9269		2209.269233	2213.9026	2213.896	2214.264833
1580.9901	1581.0846		2096.056767	2100.138267	2100.4827	2100.325867
1937.3818	1937.3408		1577.602833	1580.640767	1580.619967	1580.8425
1953.4793	1953.5085		1932.897667	1936.780533	1936.765233	1937.0754
2410.0418	2410.5207		1948.9691	1952.869667	1952.8032	1953.118367
2767.7141	2767.3243		2402.4492	2408.4197	2408.749433	2409.27
1807.982	1807.9014		2760.942633	2767.865967	2766.983433	2768.341533
1492.2592	1492.1886		1803.761233	1807.444967	1807.4352	1807.737767
908.3629	908.2639		1489.4432	1492.5335	1492.142767	1491.418467
1582.8024	1582.9049		905.9733667	907.9834333	908.194	908.3711333
1133.902	1134.0707		1577.821767	1582.284267	1582.428633	1582.7322
1206.0098	1205.9363		1131.207033	1133.886933	1133.982	1134.147667
848.881	848.8471		1202.3121	1205.747267	1205.855667	1206.039467
1248.6478	1248.9952		846.8890667	849.0762333	849.1171667	849.2371
847.4733	847.488		1244.396967	1248.634333	1248.703367	1248.942067
1905.2606	1905.1726		843.91485	847.1840667	847.2572333	847.4493333
776.233	776.2281		1897.0772	1904.229333	1904.4101	1904.856267
905.5989	905.6563		772.7554	775.9359333	776.0485667	776.1988333
1515.4482	1515.5454		901.90745	905.2262	905.4052	905.7275333
1732.1272	1732.0984		1509.5964	1515.003367	1515.189667	1515.614933
1833.8233	1833.7325		1724.76615	1731.3207	1731.497467	1731.896067
2048.0167	2047.799		1825.8825	1832.919433	1833.081267	1833.553233
2161.9418	2161.6655		2038.376767	2046.644133	2046.8437	2047.339033
1746.1204	1746.0942		2151.7213	2160.2691	2160.696933	2161.3699
1547.7537	1548.2088		1738.96245	1745.394867	1745.524133	1746.0009
1447.0457	1446.9717		1542.56625	1548.228133	1548.389467	1548.734867
1548.8476	1548.7792		1441.5175	1446.536333	1446.7127	1447.012467
1331.9558	1331.8818		1542.4694	1548.286033	1548.287967	1548.787933
1433.8056	1433.7444		1327.49685	1331.571867	1331.722967	1331.9591
1232.0214	1231.8315		1428.5308	1433.391033	1433.568867	1433.775167
1433.7029	1433.6977		1228.25355	1231.695767	1231.7991	1231.896267
1791.161	1791.2064		1428.5523	1433.4237	1433.543367	1433.959533
1103.5272	1103.9694		1783.95975	1790.4922	1790.560733	1790.982

1205.6999	1205.585	1100.0537	1103.3619	1103.5101	1103.587433
974.0907	974.0306	1201.21615	1205.268133	1205.373633	1205.494167
1075.9272	1075.8456	970.944	973.7604333	973.8248	973.9763
844.4049	844.4442	1072.0498	1075.515133	1075.625	1075.794133
1220.8105	1220.6212	841.8683	844.1817333	844.2664667	844.3822667
3018.7662	3018.9751	1216.276567	1219.913933	1220.2403	1220.346367
1088.8178	1088.4594	3005.213867	3013.670133	3015.039767	3017.137333
867.2012	866.9239	1085.097933	1088.2756	1088.367533	1088.4712
2918.6907	2919.4248	863.8809333	866.7259	866.8410333	866.8741667
835.7312	834.5124	2908.9221	2919.1072	2919.746433	2919.305533
1054.4195	1053.9034	831.7244333	834.8663667	835.0688333	835.2516667
1169.2573	1169.31495	1049.035567	1053.626633	1053.796867	1053.9881
2447.122	2447.2869	1163.157467	1168.6317	1168.911167	1169.1123
2819.3626	2819.2392	2435.597133	2446.0132	2446.3141	2446.091133
938.3915	937.9586	2806.005233	2817.055667	2817.718933	2818.3461
1459.7808	1459.8942	933.9416667	937.6952	937.74	937.9844667
2702.7865	2703.0162	1452.572967	1459.291	1459.639833	1459.924533
1015.7444	1015.6581	2690.866333	2701.270467	2701.6309	2702.322233
1153.0002	1153.02985	1012.1551	1015.166333	1015.330833	1015.534567
2258.3928	2258.3845	1149.426067	1152.602967	1152.639233	1152.8669
828.8123	828.8313	2250.6954	2256.9955	2257.1706	2257.5084
1699.4143	1698.895	825.8670667	828.5201	828.7176667	828.8716333
2071.1633	2071.1389	1693.895833	1698.4924	1698.49445	1698.6208
1165.4415	1165.4415	2064.2596	2070.056667	2070.2366	2070.607367
1409.542	1409.2365	1163.233033	1164.747667	1165.3206	1165.636067
1666.2762	1666.43	1405.473567	1408.618167	1408.964233	1408.938567
1424.692	1424.6286	1661.764567	1665.8003	1665.914567	1666.0712
1261.3051	1261.2578	1420.4597	1424.196867	1424.279333	1424.566433
1123.6347	1123.6656	1257.1708	1260.8019	1260.882333	1261.112667
1008.8795	1008.8171	1120.235967	1123.2201	1123.266167	1123.749633
		1004.9919	1008.3216	1008.431533	1008.640233

60	240		0.167	1
876.073025	875.9027667	MLVPRGSL	46.60222222	48.14166667
1007.6484	1007.4652	MLVPRGSLM	44.52428571	46.26857143
1462.24455	1462.164433	KSKQTFPPFTIY	44.51444444	46.67592593
1333.783575	1333.521067	SKQTFPPFTIY	47.94625	48.70916667
1463.3874	1463.314367	SKQTFPPFTIYE	48.53703704	48.89851852
1245.976325	1245.820667	KQTFPPFTIY	49.82714286	48.64285714
953.863775	953.7368667	QTFPPFTI	52.108	53.49933333
1118.25705	1118.2212	QTFPPFTIY	46.03388889	48.09666667
1247.31175	1247.296233	QTFPPFTIYE	51.88285714	53.87761905
1562.9894	1563.063633	QTFPPFTIYEGEK	47.511	48.653
2304.0205	2304.221333	QTFPPFTIYEGEKQHESEE	36.27270833	36.89958333
2680.466375	2680.998633	QTFPPFTIYEGEKQHESEEPFM	36.87740741	37.52425926
3036.7294	3037.272533	QTFPPFTIYEGEKQHESEEPFMPEE	38.1265	38.31916667
3052.861425	3053.5934	QTFPPFTIYEGEKQHESEEPFMPEE	38.02783333	37.58666667
988.8694	988.8530333	TFPPFTIY	52.26933333	54.34333333
1118.458375	1118.501467	TFPPFTIYE	50.48833333	53.21166667
2175.306375	2175.524433	TFPPFTIYEGEKQHESEE	35.77555556	35.996
2551.775675	2552.382	TFPPFTIYEGEKQHESEEPFM	36.55901961	36.18490196
2907.949975	2908.442633	TFPPFTIYEGEKQHESEEPFMPEE	36.79912281	36.8554386
2924.064125	2924.531033	TFPPFTIYEGEKQHESEEPFMPEE	36.89736842	37.12017544
1829.063525	1829.129467	FPTIYEGEKQHESEE	35.60820513	35.02102564
2561.70745	2562.279733	FPTIYEGEKQHESEEPFMPEE	36.90686275	36.89196078
842.71155	842.7747	TIYEGEK	42.83388889	44.72
1584.3805	1584.380267	TIYEGEKQHESEE	36.35416667	36.25333333
1960.19105	1960.447167	TIYEGEKQHESEEPFM	32.72428571	32.40404762
2316.47125	2316.764367	TIYEGEKQHESEEPFMPEE	34.0225	33.98333333
2332.570325	2332.908633	TIYEGEKQHESEEPFMPEE	34.84208333	34.75958333
2576.927125	2577.048667	TIYEGEKQHESEEPFMPEERC	34.34962963	40.98
3148.110775	3148.344733	TIYEGEKQHESEEPFMPEERCLPRMA	66.77515152	49.11909091
1857.8092	1857.811733	IYEGEKQHESEEPFM	28.20205128	28.06974359
2214.44145	2214.737267	IYEGEKQHESEEPFMPEE	30.88911111	30.84511111
2100.984725	2100.9042	YEGEKQHESEEPFMPEE	29.15357143	31.61380952
1580.990225	1580.972233	EGEKQHESEEPFM	27.61757576	27.42848485
1937.251375	1937.2856	EGEKQHESEEPFMPEE	29.86820513	29.75051282
1953.31945	1953.343533	EGEKQHESEEPFMPEE	30.00435897	29.49307692
2409.7962	2410.065967	EGEKQHESEEPFMPEERCLP	37.315625	39.37645833
2768.60635	2768.120633	EGEKQHESEEPFMPEERCLPRMA	36.43859649	31.79368421
1807.863475	1807.877133	GEKQHESEEPFMPEE	30.69777778	30.61638889
1491.950325	1492.020633	QHESEEPFMPEE	34.33666667	29.99518519
908.3791	908.2951333	PFMPEER	50.25166667	55.51583333
1582.86015	1582.811233	PFMPEERCLPRMA	49.58333333	51.18740741
1134.153275	1133.909767	MPEERCLPR	44.665	46.24944444
1206.12955	1205.945067	PEERCLPRMA	49.07380952	50.62238095
849.308575	848.9172333	RCLPRMA	43.74333333	44.562
1249.10285	1248.853267	RCLPRMASPVN	52.96708333	53.83
847.52065	847.4674	ASPVNVKE	54.48694444	55.70638889
1905.0367	1905.1235	ASPVNVKEEVKEPPGTNT	51.08666667	52.37785714
776.272125	776.2117333	SPVNVKE	63.61066667	65.86333333
905.752875	905.6333	SPVNVKEE	55.3125	58.29583333
1515.510725	1515.5129	SPVNVKEEVKEPPG	54.06966667	55.93266667
1732.0675	1732.0358	SPVNVKEEVKEPPGTN	54.62125	56.09430556
1833.74335	1833.680067	SPVNVKEEVKEPPGTNT	54.13025641	55.37512821
2047.6646	2047.802367	SPVNVKEEVKEPPGTNTVI	55.11577778	56.44622222
2161.61675	2161.7009	SPVNVKEEVKEPPGTNTVIL	53.42375	56.09770833
1746.191875	1746.073	PVNVKEEVKEPPGTNT	53.60347222	54.68069444
1548.81625	1548.121767	VNVKEEVKEPPGTN	51.47166667	52.93833333
1447.117075	1446.956367	NVKEEVKEPPGTN	50.18833333	51.952
1548.856625	1548.747167	NVKEEVKEPPGTNT	52.87848485	52.89606061
1332.0133	1331.861867	VKEEVKEPPGTN	45.27796296	46.95685185
1433.823725	1433.718833	VKEEVKEPPGTNT	48.60233333	50.38066667
1232.16355	1231.890167	KEEVKEPPGTN	43.02770833	44.319375
1433.962425	1433.7078	KEEVKEPPGTNTV	48.714	49.91066667
1791.2068	1791.155	KEEVKEPPGTNTVILE	50.24961538	50.77679487

1103.82945	1103.705433	EEVKEPPGTN	47.26	49.37714286
1205.643025	1205.5805	EEVKEPPGTNT	50.64979167	51.96854167
974.049325	973.9980333	EVKEPPGTN	46.94055556	48.01333333
1075.85755	1075.832133	EVKEPPGTNT	49.5047619	51.07428571
844.417075	844.3859	VKEPPGTN	46.26866667	47.96333333
1220.447425	1220.622767	YAHRLSQDIL	40.41518519	44.04148148
3017.7509	3018.522367	YAHRLSQDILCDALQQWACNNIKYH	35.23444444	40.94125
1088.669125	1088.556133	HRLSQDILC	39.72083333	40.87
866.947725	867.0395	CDALQQW	47.41611111	49.335
2918.400325	2920.644467	CDALQQWACNNIKYHDIPYIESEGP	46.29590909	49.20151515
835.34755	835.1306667	DALQQWA	52.36555556	55.74
1053.835725	1054.124233	DALQQWACN	57.38833333	59.51625
1169.429313	1169.31495	DALQQWACNN	60.82481481	63.93
2446.9181	2447.177567	DALQQWACNNIKYHDIPYIE	57.86703704	59.5387037
2818.00605	2818.946133	DALQQWACNNIKYHDIPYIESEGP	52.62111111	55.77952381
938.199975	938.1420333	ALQQWACN	53.62190476	54.26190476
1459.9279	1459.809867	ALQQWACNNIKY	61.0730303	64.24424242
2702.5387	2702.6704	ALQQWACNNIKYHDIPYIESEGP	52.02066667	53.82283333
1015.650825	1015.651067	WACNNIKY	43.01761905	45.36761905
1153.108925	1153.02985	WACNNIKYH	39.71125	40.16458333
2257.956525	2258.1936	WACNNIKYHDIPYIESEGP	39.375625	40.47
828.96495	828.8272	ACNNIKY	44.21722222	47.51
1698.91745	1699.083967	ACNNIKYHDIPYIE	38.30472222	38.32180556
2070.91	2071.068267	ACNNIKYHDIPYIESEGP	38.64711111	39.84666667
1165.430975	1165.4415	NIKYHDIPY	21.63761905	29.82238095
1409.047125	1409.220767	NIKYHDIPYIE	34.94	38.78518519
1666.3006	1666.3095	IKYHDIPYIESEGP	36.68848485	37.72727273
1424.670125	1424.6079	YHDIPYIESEGP	41.52407407	42.44037037
1261.2293	1261.233767	HDIPYIESEGP	45.38875	46.39416667
1123.6845	1123.616133	DIPYIESEGP	42.63047619	43.28857143
1008.738725	1008.7584	IPYIESEGP	55.495	57.32722222

like w.r.t. theoretical - (%)

10	60	240	Sequence
50.87111111	50.88708333	48.04944444	MLVPRGSL
48.56809524	49.89238095	47.2752381	MLVPRGSLM
49.21814815	51.54537037	50.65518519	KSKQTFPFPTIY
50.92791667	54.7309375	51.44958333	SKQTFPFPTIY
52.59962963	53.73777778	52.9262963	SKQTFPFPTIYE
50.97761905	51.88988095	49.66619048	KQTFPFPTIY
57.826	59.17483333	56.63666667	QTFPFPTI
56.56722222	54.56305556	53.96555556	QTFPFPTIY
56.93571429	58.67309524	58.45142857	QTFPFPTIYE
51.178	53.03633333	53.77866667	QTFPFPTIYEGEK
39.28770833	41.38375	42.63895833	QTFPFPTIYEGEKQHESEE
39.11925926	42.04578704	45.00277778	QTFPFPTIYEGEKQHESEEPFM
40.56466667	42.85166667	45.56733333	QTFPFPTIYEGEKQHESEEPFMPEE
40.91883333	42.873125	46.533	QTFPFPTIYEGEKQHESEEPFMPEE
57.06133333	58.35333333	58.026	TFPFPTIY
55.40055556	56.74402778	57.46222222	TFPFPTIYE
38.79333333	40.36961111	41.82333333	TFPFPTIYEGEKQHESEE
38.79705882	41.40181373	44.96843137	TFPFPTIYEGEKQHESEEPFM
39.49491228	41.66828947	44.26122807	TFPFPTIYEGEKQHESEEPFMPEE
39.37596491	41.93539474	44.39280702	TFPFPTIYEGEKQHESEEPFMPEE
38.57102564	40.36608974	40.87333333	FPTIYEGEKQHESEE
39.16647059	41.29676471	44.66313725	FPTIYEGEKQHESEEPFMPEE
47.35833333	47.20416667	48.25666667	TIYEGEK
39.34555556	40.10333333	40.10138889	TIYEGEKQHESEE
35.04071429	36.55369048	38.38309524	TIYEGEKQHESEEPFM
36.56520833	38.27510417	40.10708333	TIYEGEKQHESEEPFMPEE
37.23604167	38.69453125	40.80895833	TIYEGEKQHESEEPFMPEE
37.54	40.17921296	40.85444444	TIYEGEKQHESEEPFMPEERC
46.50848485	44.19276515	45.25621212	TIYEGEKQHESEEPFMPEERCLPRMA
29.85820513	30.00487179	30.02435897	IYEGEKQHESEEPFM
33.304	34.48144444	36.45355556	IYEGEKQHESEEPFMPEE
30.49357143	35.19970238	34.62452381	YEGEKQHESEEPFMPEE
29.45151515	30.7944697	30.63090909	EGEKQHESEEPFM
32.13641026	33.4900641	33.75333333	EGEKQHESEEPFMPEE
31.9174359	33.46423077	33.64948718	EGEKQHESEEPFMPEE
42.63	45.91875	47.60479167	EGEKQHESEEPFMPEERCLP
38.94157895	40.33535088	37.77894737	EGEKQHESEEPFMPEERCLPRMA
33.13777778	34.18534722	34.29916667	GEKQHESEEPFMPEE
21.94740741	27.85694444	28.63814815	QHESEEPFMPEE
59.94416667	60.14333333	58.04416667	PFMPEER
54.56037037	55.98203704	55.43851852	PFMPEERCLPRMA
49.01055556	49.10402778	45.04555556	MPEERCLPR
53.24809524	54.535	51.89952381	PEERCLPRMA
46.96066667	48.39016667	40.56333333	RCLPRMA
56.81375	58.82354167	55.70375	RCLPRMASPVN
58.90805556	60.09666667	59.20916667	ASPVNVKE
55.5647619	56.85357143	57.47357143	ASPVNVKEEVKEPPGTNT
68.86866667	70.3345	69.12666667	SPVNVKE
63.66805556	64.09041667	62.0975	SPVNVKEE
60.18533333	59.14325	59.165	SPVNVKEEVKEPPG
59.41597222	60.84458333	60.58041667	SPVNVKEEVKEPPGTN
59.00564103	60.46807692	59.98128205	SPVNVKEEVKEPPGTNT
59.74844444	61.91888889	62.83733333	SPVNVKEEVKEPPGTNTVI
60.30375	61.8465625	62.3725	SPVNVKEEVKEPPGTNTVIL
58.65375	60.24520833	59.25458333	PVNVKEEVKEPPGTNT
56.07833333	56.81818182	50.50469697	VNVKEEVKEPPGTN
54.94966667	55.99575	54.38866667	NVKEEVKEPPGTN
57.44121212	58.06568182	57.07060606	NVKEEVKEPPGTNT
49.58055556	50.18277778	48.50018519	VKEEVKEPPGTN
52.44366667	52.92925	51.88033333	VKEEVKEPPGTNT
45.53395833	48.875	45.45770833	KEEVKEPPGTN
54.07233333	54.10125	51.555	KEEVKEPPGTNTV
54.01730769	55.74653846	55.34807692	KEEVKEPPGTNTVILE

50.48190476	53.93928571	52.16761905
53.47520833	55.3359375	54.554375
50.53833333	51.75541667	50.90055556
53.49047619	54.39642857	54.03333333
50.27933333	50.9755	50.352
45.22	46.34287037	48.29111111
49.68111111	52.23763889	55.45208333
42.16583333	44.63989583	43.2275
49.88722222	51.11319444	52.64277778
47.19742424	43.08284091	53.28348485
58.78722222	60.38527778	56.77055556
61.90666667	60.00197917	63.60833333
66.16481481	69.68717593	68.41648148
58.3	62.89425926	64.33574074
58.76603175	57.14674603	61.62333333
57.75428571	60.83297619	60.0052381
66.83242424	66.8630303	65.79
57.2795	58.36183333	59.02033333
48.27809524	49.93892857	49.94238095
43.01041667	46.03572917	45.04729167
42.58125	45.38203125	46.86375
50.07611111	51.63138889	49.33555556
39.37472222	41.84680556	43.23444444
42.31844444	44.336	45.39111111
34.32904762	31.39916667	31.54952381
38.5	39.7062037	41.63555556
39.15121212	41.23666667	41.31757576
45.63037037	46.7825	46.09111111
49.27333333	50.73125	50.78708333
50.1952381	49.2647619	48.28809524
60.80555556	62.44708333	62.775

EEVKEPPGTN
EEVKEPPGTNT
EVKEPPGTN
EVKEPPGTNT
VKEPPGTN
YAHRLSQDIL
YAHRLSQDILCDALQQWACNNIKYH
HRLSQDILC
CDALQQW
CDALQQWACNNIKYHDIPYIESEGP
DALQQWA
DALQQWACN
DALQQWACNN
DALQQWACNNIKYHDIPYIE
DALQQWACNNIKYHDIPYIESEGP
ALQQWACN
ALQQWACNNIKY
ALQQWACNNIKYHDIPYIESEGP
WACNNIKY
WACNNIKYH
WACNNIKYHDIPYIESEGP
ACNNIKY
ACNNIKYHDIPYIE
ACNNIKYHDIPYIESEGP
NIKYHDIPY
NIKYHDIPYIE
IKYHDIPYIESEGP
YHDIPYIESEGP
HDIPYIESEGP
DIPYIESEGP
IPYIESEGP

Difference uptake 240 min and 10 sec (%)

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