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Large-scale global identification of protein lysine methylation in vivo

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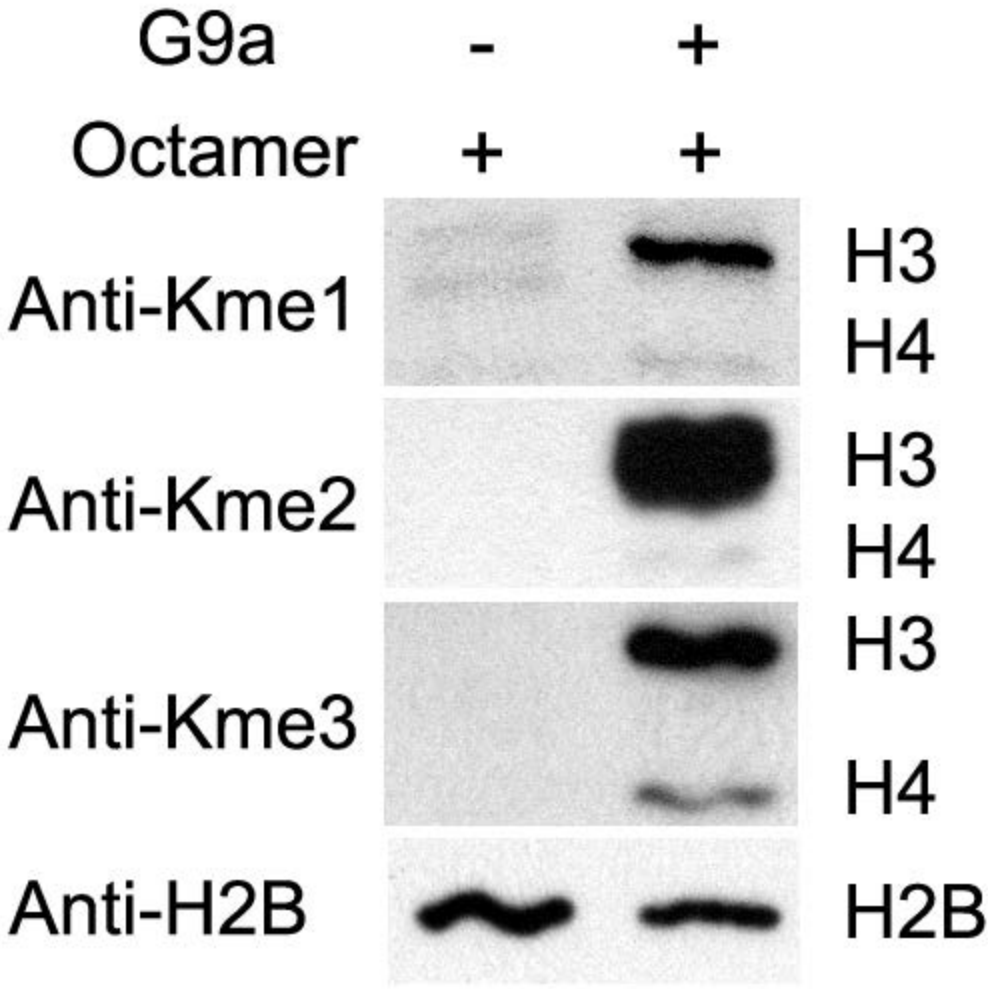
Supplement Figure 1: **Detection of methylation levels in wild type (WT), shRNA control transfected (shRNA control) and EZH2-knockdown (EZH2 KD) 293 cells.** The grey arrows are pointed to the protein bands that methylation levels decreased in the EZH2-knockdown 293 cells compared to those in shRNA control transfected 293 cells.

Supplement Figure 2: Recognition of histone H3 and H4 methylation by methyltransferase G9a. Recombinant histone octamers were incubated with GST control and recombinant G9a, respectively, and then subjected to western blotting, detected by pan methyl lysine antibodies respectively.

Table S1: Methylated peptides identified in our work. Kme1, Kme2, Kme3 and Mox denote mono-, di- and tri-methylation of lysine, and oxidation of methionine, respectively.

Table S2: Methylation sites identified in our work. The positions of methylation sites are where they are in the protein sequences in the IPI human database (version 3.87).


G9a
-
+
Octamer
+
+
Anti-Kme1
H3
H4
Anti-Kme2
H3
H4
Anti-Kme3
H3
H4
Anti-H2B
H2B

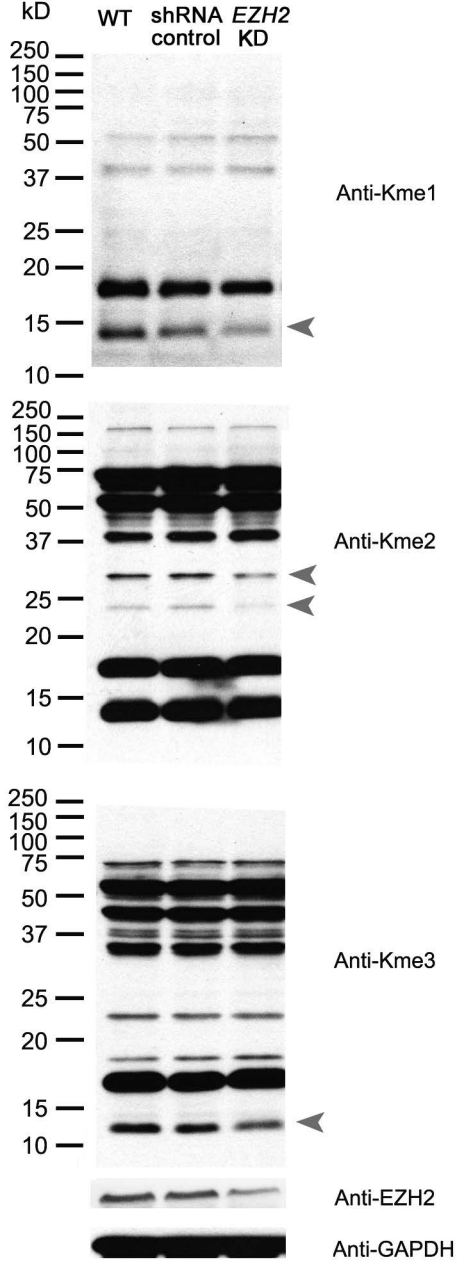

kD
WT
shRNA control
EZH2 KD
250
150
100
75
50
37
25
20
15
10
Anti-Kme1
Anti-Kme2
Anti-Kme3
Anti-EZH2
Anti-GAPDH

Table S1:Methylated peptides identified in our work. Kme1, Kme2, Kme3 and Mox denote mo

Methylated Peptide	Peptide s	PTM postion	pFind Score	Calc_M	Delta_M	ppm
TKme1AAAAAAAAAPA	TKAAAAA	2,K(Mono-met	2.85.E-19	2610.3613	0.00065	0.248912
LKme1HMVLDKMHAR	LKHMVLD	2,K(Mono-met	1.37.E-18	1491.8166	0.00193	1.29285
LAALALASSENSSSTPE	LAALALA	25,K(Mono-me	2.60.E-13	2865.326	-0.00334	-1.16525
GYAFVTFCTKme1	GYAFVTF	8,C(carboxyar	3.73.E-13	1206.5743	-0.0032	-2.64993
HFCPNVPIILVGNKKme	HFCPNVF	3,C(carboxyar	9.22.E-11	1748.976	-0.00038	-0.21715
QEVDKme1DRLK	QEVDKDF	5,K(Mono-met	1.97.E-10	1143.6248	-0.01048	-9.15586
MoxFIGGLSWDTSKme	MFIGGLS	1,M(Oxidation	2.85.E-10	1498.749	0.00757	5.047461
Kme1GCLLEPIR	KGCLLEP	1,K(Mono-met	1.12.E-09	1098.6219	0.00047	0.427417
HFPKme1GMoxR	HFPKGMF	4,K(Mono-met	8.92.E-09	901.45923	0.00217	2.404516
PEPAKme1SAPAPK	PEPAKSA	5,K(Mono-met	1.48.E-08	1105.6132	-0.00024	-0.21688
TAFGRMoxLSYKme1YF	TAFGRML	6,M(Oxidation	1.54.E-08	1521.7762	-0.01493	-9.80451
Kme1CHYEALGVRR	KCHYEAL	1,K(Mono-met	1.67.E-08	1401.7299	-0.01164	-8.29813
IMKme1AQALR	IMKAQAL	3,K(Mono-met	4.54.E-08	943.5637	-0.00002	-0.02117
WGPMoxKEPTIKme1	WGPMKE	4,M(Oxidation	7.00.E-08	1215.6322	0.00267	2.194565
TGEGFLCVFAINNSKme	TGEGFLC	7,C(carboxyar	1.09.E-07	1669.8134	0.00488	2.920712
LKme1QQSELQSQVR	LKQQSEL	2,K(Mono-met	1.46.E-07	1456.7998	-0.00437	-2.99766
MoxPKVMoxKme1DVVH	MPKVMKD	1,M(Oxidation	1.57.E-07	2353.1592	-0.00557	-2.36602
Kme1ECTWQVKANDR	KECTWQV	1,K(Mono-met	2.02.E-07	1547.7515	-0.01001	-6.46328
YVQDCFMWKme1	YVQDCFM	5,C(carboxyar	2.22.E-07	1289.5573	-0.00263	-2.03787
KENMAATNWKme1EPK	KENMAAT	10,K(Mono-me	2.84.E-07	1559.7766	0.00541	3.466195
GAQLAKme1DIAR	GAQLAKD	6,K(Mono-met	2.93.E-07	1055.6087	-0.00398	-3.76676
Kme1Kme1GFGAMoxLF	KKGFGAM	1,K(Mono-met	4.41.E-07	1050.6008	-0.00882	-8.38723
IHAEVQLKme1NYGKm	IHAEVQLK	8,K(Mono-met	4.80.E-07	1426.7933	0.01121	7.851175
NREMKme1IAIR	NREMKIA	5,K(Mono-met	5.01.E-07	1143.6546	-0.01138	-9.9419
RKMoxNLKme1IQELR	RKMNLKI	3,M(Oxidation	5.53.E-07	1457.85	-0.01098	-7.5265
EQSKme1ELQMKLEKL	EQSKELQ	4,K(Mono-met	5.84.E-07	1772.9819	-0.01265	-7.13087
QIKMFKGFEKme1VK	QIKMFKG	10,K(Mono-me	8.11.E-07	1495.8585	-0.01489	-9.94755
NYAKASRNVEESEKme	NYAKASR	14,K(Mono-me	8.40.E-07	1637.8009	0.0141	8.60374
Kme1KKEQGQER	KKKEQGQ	1,K(Mono-met	9.49.E-07	1143.636	0.00348	3.040239
LDLRDDKme1DTIEK	LDLRDDK	7,K(Mono-met	1.02.E-06	1473.7675	0.0092	6.238202
SVKEVKEVSPEVKme1	SVKEVKE	13,K(Mono-me	1.10.E-06	1470.8294	-0.00391	-2.65655
LTVTSQNLQLENLRMox	LTVTSQN	15,M(Oxidatio	1.17.E-06	2269.2828	-0.01529	-6.73487
IYHEQQVKme1TR	IYHEQQV	8,K(Mono-met	1.18.E-06	1314.7044	-0.00364	-2.76657
FQYHIEIAPGKGDLPVL	FQYHIEIA	20,K(Mono-me	1.38.E-06	2555.3822	-0.00144	-0.5633
Kme1RDAQVIADMEAQ	KRDAQVI	1,K(Mono-met	1.47.E-06	1851.9625	0.01439	7.765852
LRELCRQWLQPEMoxH	LRELCRQ	5,C(carboxyar	1.51.E-06	2140.067	0.01917	8.953369
PFCFSVKme1GHVKme	PFCFSVK	3,C(carboxyar	1.65.E-06	1732.9269	0.00424	2.4453
MoxVSNTKme1SVDTK	MVSNTKS	1,M(Oxidation	1.77.E-06	1698.8458	-0.00963	-5.66523
PSTQHKme1HER	PSTQHKH	6,K(Mono-met	1.78.E-06	1132.5738	0.00809	7.136625
TKme1ATMNAIREER	TKATMNA	2,K(Mono-met	1.83.E-06	1432.7456	-0.00332	-2.31561
VFPRSTLGKme1LFR	VFPRSTL	9,K(Mono-met	2.10.E-06	1433.8507	0.00117	0.815411
MGDVKme1ALLFVVAA	MGDVKAL	5,K(Mono-met	2.72.E-06	1730.0025	-0.01057	-6.1063
TKme1DKme1VNK	TKDKVNK	2,K(Mono-met	2.74.E-06	859.51272	0.00336	3.904601
Kme1SLIGGNHSKme1	KSLIGGN	1,K(Mono-met	2.97.E-06	1067.6088	-0.00331	-3.09747
Kme1EMPSVFGKme1E	KEMPSVF	1,K(Mono-met	3.64.E-06	1434.7541	0.00733	5.105279
PQNLLINEKGELKme1	PQNLLINE	13,K(Mono-me	3.65.E-06	1508.8562	-0.01478	-9.78906

TKme1ETLQSEEQQRR	TKETLQS	2,K(Mono-met	3.68.E-06	1645.8384	0.00812	4.930614
LQKEKme1EELERR	LQKEKEE	5,K(Mono-met	3.94.E-06	1470.8154	-0.00041	-0.27857
LQYEDKme1FRNN	LQYEDKF	6,K(Mono-met	4.03.E-06	1339.6521	0.00071	0.52959
MTMDKme1TGLLLLSD	MTMDKT	5,K(Mono-met	4.40.E-06	1804.9315	0.00752	4.164022
RPFSFKme1KR	RPFSFKK	6,K(Mono-met	4.54.E-06	1078.64	-0.00956	-8.85482
LQEETGAKme1ISVLGK	LQEETGA	8,K(Mono-met	4.57.E-06	1499.8559	-0.015	-9.99435
MMKme1RQLHR	MMKRQLI	3,K(Mono-met	4.58.E-06	1112.6059	-0.00014	-0.12572
Kme1PSSVR	KPSSVR	1,K(Mono-met	5.10.E-06	686.40752	-0.00208	-3.02584
LFNLAKme1DIFPNEKm	LFNLAKD	6,K(Mono-met	5.40.E-06	1575.8661	-0.00518	-3.28499
YYELKme1LAEMoxQR	YYELKLA	5,K(Mono-met	5.51.E-06	1472.7333	-0.00509	-3.45381
LCDSYEIRPGKme1HL	LCDSYEIF	2,C(carboxyar	6.13.E-06	2671.3323	0.02492	9.325075
SLQQGPDGLRKme1	SLQQGPD	11,K(Mono-me	7.01.E-06	1211.6622	-0.01013	-8.35354
EMoxESVMoxKme1	EMESVMK	2,M(Oxidation	7.68.E-06	898.37759	0.00223	2.479466
QKme1MoxRSTKLLR	QKMRSTK	2,K(Mono-met	7.93.E-06	1289.7602	-0.00717	-5.55487
TLKEQLNLLSRAEEAKr	TLKEQLN	16,K(Mono-me	9.51.E-06	1984.1317	-0.01945	-9.7979
Kme1GNCEVSSVEGTL	KGNCEVS	1,K(Mono-met	9.99.E-06	2354.161	-0.00295	-1.25257
Kme1AEAGAGSATEFQ	KAEAGAC	1,K(Mono-met	1.18.E-05	1582.774	0.01323	8.353357
FWAKme1MoxRYHMox	FWAKMR	4,K(Mono-met	1.36.E-05	1638.8163	-0.00975	-5.9458
Kme1YIMoxLEIK	KYIMLEIK	1,K(Mono-met	1.39.E-05	1066.6096	-0.00641	-6.00406
RAVDEKYRYKme1	RAVDEKY	10,K(Mono-me	1.43.E-05	1340.7201	-0.0073	-5.44078
KVHTGERPYECGECGK	KVHTGER	11,C(carboxya	1.52.E-05	1919.8618	-0.00384	-1.9991
MoxVWEQKme1SATIVM	MVWEQK	1,M(Oxidation	2.17.E-05	2320.2283	-0.00534	-2.3005
SNCVKme1EVEKLQEK	SNCVKEV	3,C(carboxyar	2.18.E-05	1617.8396	0.00538	3.323342
FNSTEYQVVTRVDKme	FNSTEYQ	14,K(Mono-me	2.42.E-05	1698.8577	0.00296	1.741312
MKEQPVLERLQSQKme	MKEQPVL	14,K(Mono-me	2.56.E-05	2241.2304	0.01689	7.532597
NGHDKVVQLLLKme1K	NGHDKV	12,K(Mono-me	3.27.E-05	1518.9246	0.00846	5.566008
HNAEKme1LLNVVK	HNAEKLL	5,K(Mono-met	3.61.E-05	1277.7456	-0.0104	-8.13299
MAVTKme1ELLQMDLY	MAVTKEL	5,K(Mono-met	3.61.E-05	2820.5017	0.0004	0.141768
GFAFVTFDDHDSVDKm	GFAFVTF	15,K(Mono-me	3.77.E-05	1712.7682	0.00086	0.501816
SEKme1EQRQALQR	SEKEQRC	3,K(Mono-met	4.35.E-05	1385.7375	-0.00016	-0.11538
GYISPYFINTSKGKme1	GYISPYFI	14,K(Mono-me	5.29.E-05	1701.8726	0.00626	3.676112
EYKme1LLYSMK	EYKLLYSI	3,K(Mono-met	5.55.E-05	1187.626	-0.00145	-1.21989
LQNIMoxMoxLLRKme1	LQNIMML	5,M(Oxidation	5.62.E-05	1304.7308	-0.00288	-2.20565
TKme1EELEAEKme1RD	TKEELEA	2,K(Mono-met	6.61.E-05	1756.9683	-0.00565	-3.21393
EQIKme1VLNDKFASFID	EQIKVLN	4,K(Mono-met	7.50.E-05	2163.2052	-0.00908	-4.19554
FFPLESWQIGKme1IGT	FFPLESW	11,K(Mono-me	7.70.E-05	2243.17	-0.01468	-6.54142
MRSALNYRKme1HYED	MRSALNY	9,K(Mono-met	8.03.E-05	1938.9734	-0.0142	-7.31971
PAVPMKme1PMSINSNL	PAVPMKP	6,K(Mono-met	8.15.E-05	3370.8179	-0.0006	-0.17795
YKme1VNPIKVDPTMox	YKVNPIK	2,K(Mono-met	8.26.E-05	2077.0918	0.00497	2.391603
GKme1FKVIALTVLASV	GKFKVIAL	2,K(Mono-met	8.42.E-05	2501.4522	0.00231	0.923091
Kme1LKAHQTPVDILKQ	KLKAHQT	1,K(Mono-met	8.54.E-05	1774.0829	-0.00989	-5.57158
KRPVWVMLMVNSLTEV	KRPVWV	19,K(Mono-me	8.58.E-05	2514.3815	0.02323	9.235068
SWPVLWVVTVGWLVTV	SWPVLW	20,K(Mono-me	8.81.E-05	2308.346	-0.01814	-7.85508
EYAIEQALDKme1MEK	EYAIEQAL	10,K(Mono-me	8.91.E-05	1580.7756	0.01273	8.047816
PQMoxVRSVEALCDAY	PQMVRSV	3,M(Oxidation	9.85.E-05	3547.8279	0.02861	8.061735
HMoxQEMKKme1Kme1	HMQEMK	2,M(Oxidation	1.03.E-04	1258.6638	-0.00374	-2.96904
MoxITSLSKDQQIGEKm	MITSLSK	1,M(Oxidation	1.03.E-04	2066.0314	-0.00978	-4.73143
IYKKme1RKme1	IYKKRK	4,K(Mono-met	1.07.E-04	862.57525	0.00097	1.123227
WEEGKme1KWQAKme	WEEGKK	5,K(Mono-met	1.08.E-04	1885.021	-0.00584	-3.09646

SQSFGVASASSIKme1C	SQSFGVA	13,K(Mono-me	1.10.E-04	2380.2209	0.01585	6.656185
Kme1PNFEVGSSRQLM	KPNFEVG	1,K(Mono-met	1.17.E-04	2078.1194	-0.00443	-2.13071
ILLEKme1MoxELEVAEF	ILLEKMEL	5,K(Mono-met	1.21.E-04	1743.9805	0.00865	4.95703
Kme1KLMoxPGTYTLEI	KKLMPGT	1,K(Mono-met	1.24.E-04	2239.2538	0.00355	1.584634
HWLFTEFPELAPSQNQ	HWLFTEF	20,K(Mono-me	1.25.E-04	2449.2179	-0.02063	-8.41971
VFFFMoxIILEKme1Kme	VFFFMIIL	5,M(Oxidation	1.40.E-04	1457.8356	0.00109	0.747167
VQNHSGSSARGNLSGI	VQNHSGS	16,K(Mono-me	1.40.E-04	2754.278	-0.00354	-1.28481
Kme1KSPDFNLTGSQS	KKSPDFN	1,K(Mono-met	1.42.E-04	1923.9724	-0.00423	-2.19743
TKme1LKDCEYPLISR	TKLKDCE	2,K(Mono-met	1.46.E-04	1578.844	-0.00037	-0.2342
IAFNREQRMoxFKme1S	IAFNREQ	9,M(Oxidation	1.51.E-04	1711.894	0.00426	2.487002
IIAMoxLSPDEQALFKme	IIAMLSPD	4,M(Oxidation	1.57.E-04	1604.8484	-0.01396	-8.69326
FKme1NEIGMLKVEFQA	FKNEIGM	2,K(Mono-met	1.72.E-04	2294.2344	0.00219	0.954147
GTEVPMoxDSLIQELSV	GTEVPMD	6,M(Oxidation	1.78.E-04	2857.366	0.02825	9.883146
MKETAEAYLGQPVKme	MKETAEA	14,K(Mono-me	1.85.E-04	3276.6601	-0.02677	-8.16746
Kme1ILHRVR	KILHRVR	1,K(Mono-met	1.94.E-04	934.61885	0.00932	9.961145
IMQSSSEVGYDAMAGD	IMQSSSE	23,K(Mono-me	1.97.E-04	2521.1175	0.00684	2.711992
ILQEHEQIKme1Kme1K	ILQEHEQ	9,K(Mono-met	2.04.E-04	1791.0731	0.0051	2.845846
MoxNISKSEITKETSLKn	MNISKSE	1,M(Oxidation	2.14.E-04	2078.1041	0.01873	9.008575
SLYGEKme1FDDENFIL	SLYGEKF	6,K(Mono-met	2.16.E-04	1830.904	0.00218	1.190013
VMoxEKme1PSPLLVGF	VMEKPSF	2,M(Oxidation	2.17.E-04	3729.9487	-0.0191	-5.11936
FHRSVMoxGPKme1GS	FHRSVMG	6,M(Oxidation	2.22.E-04	1387.7143	-0.01099	-7.91382
EPSSGEEAAPVTAMox/	EPSSGEE	14,M(Oxidatio	2.25.E-04	2530.2109	0.00047	0.185681
FKme1LELQEKme1ETE	FKLELQE	2,K(Mono-met	2.27.E-04	1619.877	-0.00147	-0.90691
Kme1VACIGAWHPAR	KVACIGA	1,K(Mono-met	2.44.E-04	1378.7292	0.00766	5.551754
MoxPKme1VMoxKDVVH	MPKVMKD	1,M(Oxidation	2.48.E-04	2353.1592	0.00455	1.93274
PAKme1STCDSENLAVI	PAKSTCD	3,K(Mono-met	2.53.E-04	2033.0212	-0.01018	-5.00487
Kme1FSEWGNNAFFYY	KFSEWGN	1,K(Mono-met	2.60.E-04	2571.1971	0.00213	0.828083
SDKme1EFLESVQR	SDKEFLE	3,K(Mono-met	2.76.E-04	1350.6779	-0.00977	-7.22807
ELTIDSIMNKme1VR	ELTIDSIM	10,K(Mono-me	3.05.E-04	1431.7755	-0.00243	-1.696
VIDTQQKVKme1LADIQ	VIDTQQK	9,K(Mono-met	3.11.E-04	2365.3329	0.00353	1.491753
MoxYGNYSHFMoxKme	MYGNYSH	1,M(Oxidation	3.15.E-04	1322.5424	-0.00503	-3.8004
WVNAQFSKme1ATQKn	WVNAQF	8,K(Mono-met	3.23.E-04	2190.1797	-0.01251	-5.70927
QKme1KLVLGDQHQLV	QKKLVLG	2,K(Mono-met	3.24.E-04	1674.9893	-0.00507	-3.02508
FSMPGFKme1GEGPEV	FSMPGFK	7,K(Mono-met	3.34.E-04	2061.0241	0.0005	0.242479
NFHKme1VTELHNIK	NFHKVTE	4,K(Mono-met	3.37.E-04	1492.815	-0.01347	-9.01722
VVKme1AAAQVLNTLW	VVKAAAQ	3,K(Mono-met	3.40.E-04	1873.0574	0.00549	2.929453
RPWEKme1KEATR	RPWEKKE	5,K(Mono-met	3.61.E-04	1313.7204	0.00369	2.806657
HCDKme1AFNYSSYLR	HCDKAFN	2,C(carboxyar	3.95.E-04	1673.762	-0.00718	-4.28718
KYINSTLPNDSENIKme	KYINSTLF	15,K(Mono-me	3.98.E-04	2028.064	-0.00315	-1.55244
QQLVKVYEKYGYHISKT	QQLVKVY	22,C(carboxya	4.28.E-04	3595.8425	-0.02586	-7.18968
HWYQQCTKme1ISKGR	HWYQQC	6,C(carboxyar	4.49.E-04	1704.8518	-0.00355	-2.08107
Kme1LLNKme1HGIKme	KLLNKHG	1,K(Mono-met	4.51.E-04	1091.7179	0.00017	0.155574
MLVIKme1Kme1VSKme	MLVIKKVS	5,K(Mono-met	4.76.E-04	1086.7199	0.00829	7.621338
RALRPCGRPGLPGKme	RALRPCG	6,C(carboxyar	5.00.E-04	1547.8831	-0.00508	-3.27978
Kme1NHSIILSAPNPEG	KNHSIILS	1,K(Mono-met	5.25.E-04	1873.0785	-0.01773	-9.4607
KLFIGMVSKme1K	KLFIGMVS	9,K(Mono-met	5.30.E-04	1163.71	0.00567	4.86811
TQSKLLDKme1MoxTTS	TQSKLLD	8,K(Mono-met	5.93.E-04	1842.955	0.00349	1.89266
Kme1PFSFHSDLVLNRK	KPFSFHS	1,K(Mono-met	6.15.E-04	1986.1051	0.00382	1.922384
Kme1EHTNKme1KPK	KEHTNKK	1,K(Mono-met	6.60.E-04	1136.6666	0.0077	6.76815

Kme1AIVKme1EVIDKY	KAIVKEVI	1,K(Mono-met	6.83.E-04	1831.1183	-0.00426	-2.32517
MoxKme1SQMELRIKDL	MKSQME	1,M(Oxidation	7.83.E-04	1939.0271	-0.00832	-4.2886
GILTLKme1YPIEHGIVT	GILTLKYP	6,K(Mono-met	7.85.E-04	2585.32	0.01706	6.596183
YLLTMoxDKme1LWR	YLLTMDK	5,M(Oxidation	8.05.E-04	1367.7271	0.01282	9.366229
MKme1ELASLHDKHLN	MKELASL	2,K(Mono-met	8.11.E-04	1704.9094	-0.0055	-3.22408
Kme1FVEAMAEYNEAQ	KFVEAMA	1,K(Mono-met	8.17.E-04	2560.2744	0.00613	2.393327
FFAPWCGHCKme1	FFAPWC	6,C(carboxyar	8.89.E-04	1322.5689	0.00908	6.860155
Kme1ISSQGRLAVFTKm	KISSQGR	1,K(Mono-met	9.28.E-04	1461.8668	-0.00349	-2.38572
KYYDAKme1TEDKme1	KYYDAKT	6,K(Mono-met	9.52.E-04	1542.8042	0.00401	2.597461
SKme1PYAMoxR	SKPYAMF	2,K(Mono-met	2.72.E-06	881.4429	0.00804	9.110913
Kme1EKme1PGSEVLTL	KEKPGSE	1,K(Mono-met	7.29.E-03	2338.4087	0.00262	1.119936
DTDVIMKRKme1	DTDVIMK	9,K(Mono-met	8.31.E-05	1118.6118	0.00471	4.20677
LKme1HMVDDKIHSR	LKHMVDI	2,K(Mono-met	1.32.E-24	1491.798	-0.00089	-0.59619
LKme1ANKDSLYKPILR	LKANKDS	2,K(Mono-met	4.39.E-20	1672.0036	0.00046	0.274953
KQSGYGGQTKme1PIF	KQSGYG	10,K(Mono-me	5.26.E-18	1579.8471	0.00286	1.809145
LHNKme1PTFSQTIALL	LHNKPTF	4,K(Mono-met	6.38.E-18	3496.8175	0.02199	6.286725
KQSGYGGQTKme1PIF	KQSGYG	10,K(Mono-me	5.94.E-16	1707.942	0.00353	2.065592
Kme1VLRDNIQGITKPA	KVLRDNI	1,K(Mono-met	4.34.E-15	1835.1105	-0.00572	-3.11528
Kme1SAPATGGVKme1	KSAPATG	1,K(Mono-met	9.79.E-13	1460.8576	0.00015	0.102609
MFIGGLSWDTSKme1	MFIGGLS	12,K(Mono-me	7.25.E-12	1354.6591	0.0004	0.295058
EITALAPSAMoxKme1	EITALAPS	10,M(Oxidatio	8.28.E-12	1160.6111	-0.00016	-0.13774
ALAKme1MMGGAGPG	ALAKMM	4,K(Mono-met	3.08.E-11	1716.8651	0.00877	5.105126
Kme1SAPATGGVKme1	KSAPATG	1,K(Mono-met	1.61.E-10	1474.8732	-0.00096	-0.65046
MAAKme1VFESIGKme	MAAKVFE	4,K(Mono-met	1.16.E-09	3559.8973	-0.01786	-5.01561
AAESPDQKDTDGGPKr	AAESPDQ	15,K(Mono-me	1.20.E-09	2198.9815	-0.00221	-1.00455
YYALCGFGGVLSCGLT	YYALCGF	5,C(carboxyar	1.37.E-09	2923.4976	-0.00369	-1.26175
Kme1SAPATGGVK	KSAPATG	1,K(Mono-met	1.78.E-09	928.53418	0.00018	0.193644
HTGPGLLSMANSGPNT	HTGPGLL	27,K(Mono-me	3.39.E-09	2807.3007	0.00694	2.471233
Kme1SAPSTGGVKme1	KSAPSTG	1,K(Mono-met	7.60.E-09	1476.8525	0.00082	0.554856
QSGYGGQTKme1PIFR	QSGYGG	9,K(Mono-met	1.16.E-08	1451.7521	0.00521	3.586266
SKme1VSSQFDPNKQT	SKVSSQF	2,K(Mono-met	1.35.E-08	1847.9377	0.00239	1.292627
AQKme1NAGMETDR	AQKNAG	3,K(Mono-met	1.57.E-08	1233.5772	-0.00698	-5.65376
SKme1VSSQFDPNKQT	SKVSSQF	2,K(Mono-met	1.73.E-08	1976.0327	0.00176	0.890219
LHNKme1PTFSQTIALL	LHNKPTF	4,K(Mono-met	2.55.E-08	2142.195	0.00331	1.544416
QSGYGGQTKme1PIFR	QSGYGG	9,K(Mono-met	4.85.E-08	1579.8471	0.00071	0.449124
MFIGGLSWDTSKme1K	MFIGGLS	12,K(Mono-me	2.88.E-07	1482.7541	0.00775	5.223185
CPLLKme1PWALTFSY	CPLLKPW	1,C(carboxyar	4.00.E-07	1821.96	0.00312	1.711492
GITIDISLWKme1FETTK	GITIDISLV	10,K(Mono-me	5.41.E-07	1778.9818	0.00402	2.258436
DKme1NLMLQR	DKNLMLQ	2,K(Mono-met	1.02.E-06	1030.5593	0.00084	0.814295
DKme1VRRCSLGIFLPF	DKVRRCS	2,K(Mono-met	1.54.E-06	1729.9774	-0.01332	-7.6951
DILQNVFKme1LEKme1	DILQNVF	8,K(Mono-met	9.20.E-06	1676.9614	0.00047	0.280101
APKme1ISMPEVDLNLK	APKISMP	3,K(Mono-met	1.25.E-05	1581.88	0.01357	8.572868
EKme1IFLTLENVQSQK	EKIFLTLE	2,K(Mono-met	2.36.E-05	1703.9458	0.0043	2.522057
AYSNIKDYIDEAEKVAK	AYSNIKD	17,K(Mono-me	4.45.E-05	2298.1743	-0.01345	-5.84994
SEIATDKme1LSFPLKN	SEIATDKL	7,K(Mono-met	5.29.E-05	2074.1786	0.00811	3.908068
PSLAKme1ALQAGPLKr	PSLAKAL	5,K(Mono-met	6.32.E-05	1448.9079	0.01421	9.800477
MoxEVKPVGEPTQEVS	MEVKPVC	1,M(Oxidation	8.13.E-05	2405.2876	-0.00636	-2.64308
EELERVKMoxEYETLSK	EELERVK	8,M(Oxidation	9.12.E-05	1912.9452	-0.01905	-9.95332
DFRIKme1HYAGDVT	DFRIKHY	5,K(Mono-met	9.46.E-05	1434.7256	-0.00113	-0.78706

AFPAWADTSVLSRQQK	AFPAWAD	16,K(Mono-me	1.12.E-04	1817.9424	0.01237	6.800582
ATIPEDRIKme1NIRLLK	ATIPEDRI	9,K(Mono-met	1.56.E-04	1793.0887	-0.00174	-0.96985
AEKme1LSLEEGGKme	AEKLSLE	3,K(Mono-met	1.58.E-04	2226.2332	-0.01435	-6.44299
EHMoxALKme1AVR	EHMALKA	3,M(Oxidation	3.58.E-04	1083.5859	0.00662	6.103634
CSVISKme1AVCSRTSF	CSVISKA	1,C(carboxyar	3.67.E-04	2123.0728	-0.00345	-1.62424
VEKme1EMoxGLLSQN	VEKEMGL	3,K(Mono-met	5.04.E-04	2321.2777	-0.01849	-7.96205
MRAAAISTPKLDKMPG	MRAAAIS	24,K(Mono-me	8.06.E-04	2622.3484	0.02505	9.548747
AFRLYLQLSQHQKme1	AFRLYLQ	13,K(Mono-me	1.17.E-03	2312.239	0.0095	4.106766
Kme1LHVLGLKme1	KLHVLGL	1,K(Mono-met	1.21.E-03	934.63278	-0.00461	-4.92713
GVWIPEGESIKme1IPV	GVWIPEG	11,K(Mono-me	1.38.E-03	1938.0649	0.01172	6.044091
LATCSKme1DLSGFSN	LATCSKD	4,C(carboxyar	1.52.E-03	2829.3239	0.01884	6.65642
GIGREMoxAYHLAKme1	GIGREMA	6,M(Oxidation	2.16.E-03	2611.3839	-0.02085	-7.98126
MLAPTGAVSTRTRQKG	MLAPTGA	25,K(Mono-me	2.42.E-03	2593.4738	-0.02045	-7.88218
PFYNMKme1PLSEADK	PFYNMKF	6,K(Mono-met	3.79.E-03	2079.0571	-0.01348	-6.48061
MoxTEFGNLALIDQDAG	MTEFGNL	1,M(Oxidation	4.93.E-03	3716.8138	0.01166	3.136236
QRTYGSVIPHILPLHVLI	QRTYGSV	18,K(Mono-me	5.83.E-03	2830.6698	-0.01696	-5.98942
VKQAMMoxQLYVLKLLK	VKQAMM	6,M(Oxidation	9.47.E-03	2291.3473	-0.00408	-1.77983
Kme1LGVNPVWVLIAKr	KLGVNPV	1,K(Mono-met	3.09.E-02	2567.6295	-0.01118	-4.35252
IQEMoxKme1AKme1TT	IQEMKAK	4,M(Oxidation	3.85.E-02	2771.5255	-0.00827	-2.98284
MoxAMoxKEEQVHLEQ	MAMKEE	1,M(Oxidation	3.98.E-02	3453.7596	-0.00074	-0.2142
RMoxKANIKme1LVGSG	RMKANIK	2,M(Oxidation	1.73.E-01	3447.7443	-0.01632	-4.73217
Kme2LEDLELKRGLR	KLEDLEL	1,K(Di-methyla	8.57.E-12	1496.9039	0.00328	2.189711
Kme2HGLEVIYMoxIEPI	KHGLEVI	1,K(Di-methyla	2.43.E-09	2748.3866	-0.01387	-5.04477
Kme2SRDFHSKLK	KSRDFHS	1,K(Di-methyla	6.26.E-09	1272.7303	-0.00225	-1.76646
KMKme2GIHR	KMKGIHR	3,K(Di-methyla	1.96.E-08	896.53782	-0.00336	-3.74356
MMoxMKme2MMoxMR	MMMKMM	2,M(Oxidation	2.75.E-08	1148.4707	0.00382	3.323237
LKme2AACNLLQR	LKAACNL	2,K(Di-methyla	2.85.E-08	1156.675	-0.00554	-4.78545
Kme2RMoxDSRPR	KRMDSRF	1,K(Di-methyla	3.11.E-08	1088.5873	0.00529	4.854993
EMANMoxKme2EEFEK	EMANMKI	5,M(Oxidation	3.50.E-08	1685.8005	-0.01151	-6.82359
YMKme2SQTILR	YMKSQTI	3,K(Di-methyla	3.95.E-08	1166.6482	0.01153	9.874391
FLKTPGKme2MoxVQDI	FLKTPGK	7,K(Di-methyla	5.27.E-08	1434.7905	-0.00108	-0.7522
NQQRILEQNKme2NQK	NQQRILE	10,K(Di-methy	6.61.E-08	1667.9067	-0.00995	-5.962
Kme2IALYELMoxK	KIALYELM	1,K(Di-methyla	1.24.E-07	1151.6624	-0.00325	-2.81955
GKme2LRNPAGGLSVS	GKLRNPA	2,K(Di-methyla	1.35.E-07	1438.8368	0.00808	5.611687
VKMoxEKme2EALMTEI	VKMEKEA	3,M(Oxidation	1.85.E-07	1879.9999	-0.00623	-3.31207
Kme2MoxVQIK	KMVQIK	1,K(Di-methyla	2.58.E-07	789.47824	-0.00298	-3.76985
YLKme2MoxLKme2EEK	YLKMLKE	3,K(Di-methyla	3.23.E-07	1252.7101	0.00027	0.215359
HIAKme2PGWKme2NS	HIAKPGW	4,K(Di-methyla	8.16.E-07	1461.8569	-0.01082	-7.3965
Kme2YDQLKme2VYLE	KYDQLKV	1,K(Di-methyla	8.45.E-07	2250.2008	-0.0071	-3.15387
GPTSKme2Kme2EPR	GPTSKKE	5,K(Di-methyla	8.60.E-07	1054.6135	-0.00062	-0.58733
YQEALDVIRGKme2LGE	YQEALDV	11,K(Di-methy	1.03.E-06	1745.9676	-0.00954	-5.4609
MoxESGFTSKme2DTYL	MESGFTS	1,M(Oxidation	1.47.E-06	2159.9946	-0.00973	-4.50256
SNSVEMDWVLKme2HT	SNSVEMD	11,K(Di-methy	1.71.E-06	3000.4036	-0.00766	-2.55214
KLCLMoxEEAVSEFEPC	KLCLMEE	3,C(carboxyar	2.22.E-06	2210.0963	0.00042	0.18995
MoxVKme2ALMDNPTLY	MVKALMD	1,M(Oxidation	2.64.E-06	1808.9416	0.01147	6.337155

MENDRVQLLKme2EQE	MENDRV(	10,K(Di-methy	3.17.E-06	1814.9309	0.00409	2.252274
MALKIPAKme2R	MALKIPAI	8,K(Di-methyla	3.33.E-06	1054.6685	-0.00668	-6.32774
SFRSKme2RSK	SFRSKRS	5,K(Di-methyla	3.55.E-06	1022.5985	-0.00979	-9.56432
TAFDEAIAELDTLSEES	TAFDEAIA	19,K(Di-methy	4.83.E-06	3329.6588	-0.00843	-2.53103
MoxVRTDPLWKme2GL	MVRTDPL	1,M(Oxidation	5.23.E-06	1730.9138	-0.01372	-7.9219
Kme2QQEELMKme2AF	KQQEELM	1,K(Di-methyla	6.33.E-06	2176.1198	-0.0209	-9.5999
MDSTEPAYSEKme2R	MDSTEPA	11,K(Di-methy	8.30.E-06	1440.6555	0.00144	0.998846
MoxEDEERQKKme2LE	MEDEERC	1,M(Oxidation	1.02.E-05	1733.8618	-0.00962	-5.54512
PDKme2VPRDMoxR	PDKVPRI	3,K(Di-methyla	1.27.E-05	1156.6023	0.01015	8.767992
TQLYATVVRKme2SSFI	TQLYATV	10,K(Di-methy	1.56.E-05	1893.0836	-0.0166	-8.76418
LADYLKme2VLIDNK	LADYLKV	6,K(Di-methyla	1.67.E-05	1431.8337	0.01228	8.570312
Kme2GFEVIYMoxSEPI	KGFEVIYI	1,K(Di-methyla	1.84.E-05	2619.26	0.01642	6.266497
NSFKme2NNYEK	NSFKNNY	4,K(Di-methyla	1.85.E-05	1170.5669	-0.00129	-1.10108
Kme2HYFEVLMRK	KHYFEVL	1,K(Di-methyla	1.87.E-05	1377.7591	0.00326	2.364427
Kme2SLDNEVEKTANL	KSLDNEV	1,K(Di-methyla	1.96.E-05	2698.429	-0.01781	-6.59772
GLKme2NYQKme2SLI	GLKNYQK	3,K(Di-methyla	2.00.E-05	1688.9825	-0.01573	-9.30784
MoxRLEQDLKme2Kme	MRLEQDL	1,M(Oxidation	2.01.E-05	1929.0466	0.00674	3.492118
NELEARLSSAAEKEAK	NELEARL	16,K(Di-methy	2.03.E-05	2649.4337	0.02062	7.779777
MVHKme2HGLEFYGYI	MVHKHGI	4,K(Di-methyla	2.31.E-05	1748.9072	-0.01173	-6.70323
MMSKme2PQTSGAYVL	MMSKPQ	4,K(Di-methyla	2.74.E-05	2398.2977	-0.00047	-0.19589
FAELVEKme2LGDLLQA	FAELVEK	7,K(Di-methyla	2.78.E-05	2342.2482	-0.01872	-7.98895
IKme2APTPTCFDEAQK	IKAPTPTC	2,K(Di-methyla	2.78.E-05	2610.3437	0.00489	1.87259
TCRKme2AFGHYDNLK	TCRKAFG	2,C(carboxyar	4.21.E-05	1636.8144	0.01287	7.857937
Kme2LCFLLQADR	KLCFLLQ	1,K(Di-methyla	4.46.E-05	1290.7118	0.00777	6.015204
PIADGGSDISGYFLEKm	PIADGGS	16,K(Di-methy	4.47.E-05	2251.1848	0.00989	4.391258
HLLYAVTKme2LPQITE	HLLYAVTI	8,K(Di-methyla	4.51.E-05	2238.2922	-0.01357	-6.05997
LYRTFKme2DNK	LYRTFKD	6,K(Di-methyla	5.25.E-05	1211.6662	0.00209	1.723462
RHLKme2MoxMoxHIAA	RHLKMMI	4,K(Di-methyla	5.46.E-05	1878.0444	-0.00107	-0.56944
NKQVKme2QAFKme2S	NKQVKQA	5,K(Di-methyla	6.86.E-05	1718.9866	-0.0124	-7.20938
Kme2FKme2SLMELVE	KFKSLME	1,K(Di-methyla	6.89.E-05	1732.9474	0.0025	1.441789
RLMQTDKLKme2QLR	RLMQTDI	9,K(Di-methyla	7.48.E-05	1556.9185	-0.00584	-3.74859
SNEKme2QELQELNDR	SNEKQEL	4,K(Di-methyla	9.24.E-05	1629.7958	0.00834	5.114019
FCFKme2VFDVDRDGV	FCFKVFD	2,C(carboxyar	1.13.E-04	2484.2947	0.0088	3.540805
TAVVTGANSGIGKme2	TAVVTGA	13,K(Di-methy	1.30.E-04	2087.1409	-0.00828	-3.96525
ISKme2FRCVWIEKESI	ISKFRCV	3,K(Di-methyla	1.32.E-04	3496.8137	0.0099	2.830326
YKNYSYLHCEWATEEC	YKNYSYL	19,K(Di-methy	1.68.E-04	2688.2894	0.01161	4.317095
RYNESKme2KPFSFHS	RYNESKK	6,K(Di-methyla	2.05.E-04	2364.2339	-0.02246	-9.49595
Kme2MVKme2EKme2E	KMVKEKE	1,K(Di-methyla	2.24.E-04	1571.9069	-0.00619	-3.93539
TMoxLLWVFLQLNYKm	TMLLWVF	2,M(Oxidation	2.71.E-04	3497.8383	-0.01456	-4.16139
IHTGEKPYVCPECGKm	IHTGEKP	15,K(Di-methy	2.79.E-04	3260.6488	-0.00587	-1.7997
PLGLKme2PTCSVCKT	PLGLKPT	5,K(Di-methyla	2.86.E-04	2353.2208	0.00605	2.569838
Kme2RRQHSHSYSSDE	KRRQHSI	1,K(Di-methyla	2.87.E-04	2114.0365	-0.00418	-1.97632
VKme2EKme2FQQLRH	VKEKFQC	2,K(Di-methyla	3.18.E-04	1523.9049	-0.00892	-5.84955

KMoxVEQLKme2IEASL	KMVEQLK	2,M(Oxidation	3.28.E-04	1989.1115	0.01653	8.305968
QELCNDVLAMoxKme2I	QELCNDV	4,C(carboxyar	3.51.E-04	1519.7487	-0.0087	-5.72087
QFQALPGPPALRCKme	QFQALPG	13,C(carboxya	4.07.E-04	2869.4691	0.00267	0.930158
LAWQAEKme2EQVIRY	LAWQAEK	7,K(Di-methyla	4.81.E-04	1917.0472	0.01559	8.127962
KSRLEQVAFKme2EHA	KSRLEQV	10,K(Di-methy	6.15.E-04	2364.339	-0.00688	-2.90867
LDKme2MoxPGMFFSA	LDKMPGM	3,K(Di-methyla	6.49.E-04	1996.0162	0.00183	0.916363
GSFKme2YAWVLDKLK	GSFKYAV	4,K(Di-methyla	1.06.E-21	1581.8919	0.00088	0.555942
QLIVGVNKMDSTEPPY	QLIVGVN	19,K(Di-methy	3.65.E-19	2317.21	0	0
GSFKme2YAWVLDK	GSFKYAV	4,K(Di-methyla	9.67.E-14	1340.7129	-0.00098	-0.73041
QLIVGVNKMoxDSTEPF	QLIVGVN	9,M(Oxidation	4.49.E-10	2333.2049	0.00508	2.176318
QLIVGVNKMDSTEPAY	QLIVGVN	19,K(Di-methy	3.69.E-09	2292.1784	0.0059	2.572833
ADLEMQIESLKme2EEL	ADLEMQI	11,K(Di-methy	5.37.E-09	2150.1181	-0.00302	-1.40392
MoxDSTEPPYSQKme2I	MDSTEPF	1,M(Oxidation	9.13.E-09	1481.682	0.00214	1.443321
MDSTEPPYSQKme2R	MDSTEPF	11,K(Di-methy	9.29.E-08	1465.6871	0.00156	1.063615
MoxDSTEPAYSEKme2F	MDSTEPA	1,M(Oxidation	1.30.E-07	1456.6504	0.00232	1.591592
EKme2TCNDYMoxKR	EKTCNDY	2,K(Di-methyla	2.49.E-07	1387.6224	0.00889	6.401954
GKme2EGSDANPFLSK	GKEGSDA	2,K(Di-methyla	5.07.E-07	1376.6936	-0.00171	-1.2412
GITIDISLWKme2FETTK	GITIDISLV	10,K(Di-methy	2.65.E-06	1778.9818	0.00238	1.337085
EKme2HLMEK	EKHLMEK	2,K(Di-methyla	2.84.E-06	941.50043	0.00107	1.135268
EEIINCAQGKme2K	EEIINCAQ	6,C(carboxyar	1.65.E-05	1316.6758	0.00876	6.647988
DKme2CEPVFLFSVMM	DKCEPVF	2,K(Di-methyla	1.67.E-05	2276.1481	0.00663	2.911519
SGSQQPNKme2VIDK	SGSQQPN	8,K(Di-methyla	1.95.E-05	1327.7096	-0.00966	-7.27023
DMMKKme2EITKme2EF	DMMKKEI	5,K(Di-methyla	2.41.E-05	1463.784	-0.00237	-1.61798
QRTYGSVIPHILPLHVLI	QRTYGSV	19,K(Di-methy	2.42.E-05	2830.6698	-0.01565	-5.52679
EIKme2EIPSCEREEKTS	EIKEIPSC	3,K(Di-methyla	3.17.E-05	1990.0041	0.00421	2.114499
Kme2SAPATGGVKme2	KSAPATG	1,K(Di-methyla	6.97.E-05	1488.8889	0.00048	0.32217
GITIDISLWKme2FETSK	GITIDISLV	10,K(Di-methy	2.20.E-04	1764.9662	0.00442	2.502863
DSNLKme2LTLAFGIGM	DSNLKLT	5,K(Di-methyla	2.88.E-04	2715.4027	0.01419	5.223779
DSLLNIARGKKme2HGE	DSLLNIAF	11,K(Di-methy	4.73.E-04	1692.9635	0.0157	9.268079
Kme2VLRDNIQGITKPA	KVLRDNI	1,K(Di-methyla	1.40.E-03	1849.1262	-0.00058	-0.31349
QKme2SSEAPVQSPQF	QKSSEAF	2,K(Di-methyla	2.67.E-03	3719.718	-0.00571	-1.53465
QDHPLPGKme2GASLD	QDHPLPG	8,K(Di-methyla	1.74.E-02	3465.6008	0.0286	8.250071
Kme3MFPGLAAPSLPK	KMFPGLA	1,K(Tri-methyl	1.90.E-17	1397.8105	0.00118	0.843569
Kme3LEEMoxHQR	KLEEMHQ	1,K(Tri-methyl	6.44.E-15	1127.5757	-0.00438	-3.88099
Kme3QEMoxKKR	KQEMKKF	1,K(Tri-methyl	8.43.E-15	1004.5801	0.00204	2.028661
Kme3IQNQWK	KIQNQWK	1,K(Tri-methyl	3.11.E-10	985.5709	0.00812	8.2304
Kme3QERDR	KQERDR	1,K(Tri-methyl	6.04.E-09	872.48281	0.00425	4.865515
Kme3DFMoxER	KDFMER	1,K(Tri-methyl	6.60.E-09	882.42693	0.00321	3.633534
HQKKme3ANTNTDLR	HQKKANT	4,K(Tri-methyl	1.15.E-08	1466.7954	-0.00979	-6.66988
Kme3QMoxEELQALKVK	KQMEELQ	1,K(Tri-methyl	1.25.E-08	1501.8538	-0.00627	-4.17206
IKme3VPNYSPSR	IKVPNYSF	2,K(Tri-methyl	1.36.E-08	1201.6819	0.00046	0.382476
MGKme3EEEKme3LMo	MGKEEEK	3,K(Tri-methyl	2.26.E-08	1462.7888	-0.0028	-1.91284
MoxLTINPSKme3R	MLTINPSK	1,M(Oxidation	3.60.E-08	1116.6325	0.00934	8.356827

NKme3TLQMEKIKme3A	NKTLQME	2,K(Tri-methyl	6.36.E-08	1542.928	0.00271	1.755252
Kme3MKme3LMoxR	KMKLMR	1,K(Tri-methyl	7.03.E-08	905.55545	-0.00049	-0.5405
QCRAEYDTKme3EVK	QCRAEYD	2,C(carboxyar	8.36.E-08	1567.7664	-0.01407	-8.96887
Kme3TTVSMPR	KTTVSMP	1,K(Tri-methyl	2.44.E-07	960.54263	-0.00403	-4.19117
WKme3Kme3LTNAQR	WKKLTNA	2,K(Tri-methyl	2.47.E-07	1227.7452	0	0
WCMAGKCITVGKme3K	WCMAGK	2,C(carboxyar	2.65.E-07	1579.8037	-0.01328	-8.40082
MSLWVDKme3YRPCSL	MSLWVDI	7,K(Tri-methyl	5.80.E-07	1908.9702	0.01143	5.984328
FLKme3DPQWKNLK	FLKDPQV	3,K(Tri-methyl	8.85.E-07	1457.8395	0.00013	0.089111
Kme3MFPGLAAPSLPK	KMFPGLA	1,K(Tri-methyl	1.17.E-06	1525.9054	0.00125	0.818645
Kme3YNPTWHCIVGR	KYNPTWH	1,K(Tri-methyl	1.47.E-06	1571.8031	0.0087	5.531469
MTQKme3PHK	MTQKPHK	4,K(Tri-methyl	3.30.E-06	910.50585	-0.00273	-2.99503
MoxLDQRIKme3MK	MLDQRIK	1,M(Oxidation	3.99.E-06	1219.6781	-0.01162	-9.51933
NLMNSLEQKme3IR	NLMNSLE	9,K(Tri-methyl	4.97.E-06	1386.7653	-0.01033	-7.44364
WICRKme3R	WICRKR	3,C(carboxyar	5.11.E-06	959.54872	0.00922	9.598515
Kme3KMoxYSR	KKMYSR	1,K(Tri-methyl	5.37.E-06	869.47929	0.00781	8.971913
WFQLEDLIKme3R	WFQLEDL	9,K(Tri-methyl	7.97.E-06	1388.7816	0.01289	9.274704
MKme3DSVPQGVISLKI	MKDSVPC	2,K(Tri-methyl	8.32.E-06	1699.9542	0.01194	7.01951
Kme3LLEEDVKRWK	KLLEEDV	1,K(Tri-methyl	8.68.E-06	1484.8715	-0.01218	-8.19724
KLDKme3EDKme3VR	KLDKEDK	4,K(Tri-methyl	9.95.E-06	1213.7394	-0.00974	-8.0182
ENVPPKNLAKme3AMo	ENVPPKN	10,K(Tri-methy	1.13.E-05	2481.4141	-0.01183	-4.76553
KWCSLTKme3NFNKDR	KWCSLTK	3,C(carboxyar	1.19.E-05	1737.8985	-0.01089	-6.2626
ELKme3ASHPIPEDK	ELKASHP	3,K(Tri-methyl	1.55.E-05	1404.7613	-0.00011	-0.07825
ICLKme3TLKEEFQQDM	ICLKTLKE	2,C(carboxyar	1.86.E-05	2239.1453	0.00752	3.356903
VTKVEHKSNQKme3ER	VTKVEHK	11,K(Tri-methy	2.49.E-05	1623.9057	-0.00123	-0.75696
MoxLKme3EEILNLKTHI	MLKEEILN	1,M(Oxidation	2.80.E-05	2170.1238	0.00606	2.791164
QLWSSKme3ISLKme3E	QLWSSKI	6,K(Tri-methyl	3.17.E-05	1529.9181	0.00902	5.891827
GKFNLQLPSLDEQVIPA	GKFNLQL	21,K(Tri-methy	3.25.E-05	2889.644	0.006	2.075652
VQPVKme3DTAHDFR	VQPVKDT	5,K(Tri-methyl	4.05.E-05	1453.7678	-0.00175	-1.20294
Kme3RLEDDKR	KRLEDDK	1,K(Tri-methyl	7.02.E-05	1100.6302	0.00867	7.870041
NHTGEKPYKme3CNKC	NHTGEKP	9,K(Tri-methyl	7.76.E-05	1861.8927	-0.00581	-3.1188
TKEEVEAAKAAALLAKr	TKEEVEA	16,K(Tri-methy	7.76.E-05	2515.3567	0.01893	7.522702
Kme3AIPINNKSF	KAIPINNK	1,K(Tri-methyl	8.32.E-05	1172.6917	0.01154	9.832066
NYPVMoxKme3RKIIR	NYPVMKP	5,M(Oxidation	1.30.E-04	1474.8806	0.00061	0.41331
Kme3DLALWTVQR	KDLALWT	1,K(Tri-methyl	1.32.E-04	1270.7398	0.01244	9.781724
SRKme3RPCEQEVGTC	SRKRPCE	3,K(Tri-methyl	1.39.E-04	3532.6827	0.02417	6.839829
IVLKme3ELEDSLLAR	IVLKELED	4,K(Tri-methyl	1.48.E-04	1539.9236	0.01404	9.111293
VLRVPNPSSKme3RNE	VLRVPNP	10,K(Tri-methy	1.87.E-04	1821.0333	0.01455	7.985488
KIILEFKEKme3CK	KIILEFKE	9,K(Tri-methyl	1.89.E-04	1476.8738	-0.00595	-4.02605
VLSENPMACKme3EILK	VLSENPM	9,C(carboxyar	2.04.E-04	1672.8892	-0.00086	-0.51377
VLELEPSMQKme3AVR	VLELEPS	10,K(Tri-methy	2.05.E-04	1696.9658	0.01669	9.82927
FPVHPRKme3AVGSLA	FPVHPRK	7,K(Tri-methyl	2.46.E-04	2043.1742	0.01971	9.641908
Kme3NFYQEHPDLARR	KNFYQEH	1,K(Tri-methyl	2.46.E-04	1714.8903	0.01706	9.942219
MNTGEKme3TTMRDLS	MNTGEKT	6,K(Tri-methyl	2.87.E-04	2041.0006	0.01769	8.662967

GDAWVYKme3RLVEDI	GDAWVYI	7,K(Tri-methyl	3.00.E-04	2321.2453	-0.01948	-8.38848
TCNQDLNECGLKme3P	TCNQDLN	2,C(carboxyar	5.23.E-04	1745.8189	-0.01465	-8.38671
GVLTLKme3YPIEHGVV	GVLTLKY	6,K(Tri-methyl	5.25.E-04	2601.3149	0.00299	1.148972
ESTGTSGPLQRPQLSK	ESTGTSG	16,K(Tri-methy	5.50.E-04	2110.1859	0.01104	5.229243
TYYRSKWYIDYAVSVK	TYYRSKW	16,K(Tri-methy	5.54.E-04	2326.211	0.01605	6.896598
KKme3IKme3PTLPLR	KKIKPTLF	2,K(Tri-methyl	8.17.E-04	1276.8959	0.00216	1.690266
GITIDISLWKme3FETSK	GITIDISLV	10,K(Tri-methy	2.14.E-22	1778.9818	0.00117	0.657307
GSFKme3YGWVLDK	GSFKYGV	4,K(Tri-methyl	2.47.E-15	1340.7129	0.00054	0.402468
Kme3MoxFPGLAAPSLF	KMFPGLA	1,K(Tri-methyl	3.82.E-15	1413.8054	0.00684	4.834539
AQQAADKme3YLYVDK	AQQAADK	7,K(Tri-methyl	7.93.E-14	3335.7302	-0.03327	-9.97092
Kme3VLRDNIQGITKPA	KVLRDNI	1,K(Tri-methyl	1.88.E-13	1863.1418	-0.00091	-0.48816
QYKme3GIIDCVVRIPK	QYKGIIDC	3,K(Tri-methyl	4.52.E-12	1729.9913	0.00265	1.530906
QYKme3GIVDCIVRIPK	QYKGIVD	3,K(Tri-methyl	1.86.E-11	1729.9913	0.00217	1.25361
DICEGYLKme3QCRK	DICEGYLI	3,C(carboxyar	4.95.E-11	1610.7909	0.00228	1.414567
Kme3SAPATGGVKKPH	KSAPATG	1,K(Tri-methyl	1.12.E-10	1474.8732	-0.00443	-3.00161
Kme3SAPATGGVK	KSAPATG	1,K(Tri-methyl	1.16.E-10	956.56548	-0.00104	-1.08608
Kme3MoxFPGLAAPSLF	KMFPGLA	1,K(Tri-methyl	6.10.E-10	1541.9004	0.00378	2.449914
QYKme3GIIDCVVR	QYKGIIDC	3,K(Tri-methyl	1.52.E-09	1391.7595	0.00009	0.06462
SKme3RPSYAPPPTPA	SKRPSYA	2,K(Tri-methyl	5.95.E-09	4336.1164	-0.03526	-8.12988
Kme3SAPSTGGVK	KSAPSTG	1,K(Tri-methyl	9.70.E-09	972.56039	-0.00149	-1.53046
SKme3PHSEAGTAFIQT	SKPHSEA	2,K(Tri-methyl	3.48.E-08	4749.3102	-0.03845	-8.09426
QYKme3GIVDCIVR	QYKGIVD	3,K(Tri-methyl	1.99.E-07	1391.7595	-0.00013	-0.09334
AEKENNDKme3IQR	AEKENNI	8,K(Tri-methyl	7.03.E-07	1385.7263	0.00791	5.704019
EDGSIIKme3R	EDGSIIKR	7,K(Tri-methyl	9.76.E-07	958.54474	-0.00018	-0.18759
ALVIGKme3DHESKNSC	ALVIGKDH	6,K(Tri-methyl	1.82.E-06	2312.2488	-0.00271	-1.17151
Kme3STSFRPGSVGSG	KSTSFRP	1,K(Tri-methyl	2.43.E-06	3872.9405	-0.00657	-1.69595
GSFKme3YGWVLDKLK	GSFKYGV	4,K(Tri-methyl	3.30.E-06	1581.8919	-0.0028	-1.76891
DDKDTIEKLKme3EK	DDKDTIEI	10,K(Tri-methy	3.68.E-06	1502.8192	-0.0017	-1.13045
EFPNFDKme3QELR	EFPNFDK	7,K(Tri-methyl	4.61.E-06	1463.7409	-0.01347	-9.19621
EGENF**Kme3**ALYR	EGENFKA	6,K(Tri-methyl	5.80.E-06	1267.6561	-0.00611	-4.81612
AFKDTGKme3TPVEPE	AFKDTGK	7,K(Tri-methyl	7.39.E-06	2036.1055	-0.01946	-9.55283
GSRGTTMoxVKKme3R	GSRGTTM	7,M(Oxidation	1.90.E-05	1277.7238	0.0125	9.77522
GKme3QATGEEKme3A	GKQATGE	2,K(Tri-methyl	2.08.E-05	3719.7367	-0.0278	-7.47168
SKme3PHSEAGTAFIQT	SKPHSEA	2,K(Tri-methyl	3.49.E-05	4749.3102	-0.02658	-5.59545
Kme3SAPATGGVKKme	KSAPATG	1,K(Tri-methyl	6.88.E-05	1516.9202	0.00462	3.043614
SKme3PHSEAGTAFIQT	SKPHSEA	2,K(Tri-methyl	8.46.E-05	3554.6857	-0.0288	-8.09975
SGSQQPNKme3VIDK	SGSQQPI	8,K(Tri-methyl	8.79.E-05	1341.7252	-0.01079	-8.03592
EKme3ADMoxKHLR	EKADMKH	2,K(Tri-methyl	1.46.E-04	1184.6336	0.01025	8.645039
AESEEMETSQAGSKme	AESEEME	14,K(Tri-methy	2.47.E-04	2833.3474	-0.02005	-7.07397
Kme3IMoxHTDAMIIDMC	KIMHTDA	1,K(Tri-methyl	5.17.E-04	1647.8146	-0.00427	-2.58974
HGLHLEMLMAVALPKN	HGLHLEM	23,K(Tri-methy	1.08.E-03	3087.7064	-0.01292	-4.18299
HHVPQQCNKme3MoxF	HHVPQQC	7,C(carboxyar	1.11.E-03	2595.3778	-0.01823	-7.02135
ARKme3SWRDEASVQL	ARKSWRI	3,K(Tri-methyl	6.81.E-03	2354.2819	-0.00858	-3.64288

AERQRFSEEVEMoxLK	AERQRFS	12,M(oxidatior	6.72E-09	1788.9222	-0.00999	-5.58126
AFTLNETLKme1IHER	AFTLNETI	9,K(Mono-met	0.00000687	1588.8846	-0.00162	-1.01894
CLKme1VGMRREAVQF	CLKVGMF	1,C(Carbamid	0.00000303	1623.9119	-0.00812	-4.9972
DKMoxHNIMoxLLPEPK	DKMHNIM	3,M(oxidation)	0.000541	1622.8826	-0.01332	-8.20259
DQLNEMKEFKme1	DQLNEMK	10,K(Mono-me	0.000018	1302.6583	0.0053	4.065443
DSCPAVSKme1ILER	DSCPAVS	3,C(Carbamid	0.000204	1391.7351	0.01387	9.95867
EMIETKVVKEEKANDSI	EMIETKV	23,K(Mono-me	0.0000199	2669.3159	-0.01217	-4.55752
ERQDNPKme1LDSMox	ERQDNPK	7,K(Mono-met	2.37E-11	1525.77	0.01023	6.700343
ERQDNPKme1LDSMR	ERQDNPK	7,K(Mono-met	4.73E-10	1509.7663	0.00217	1.436348
EVSELRSELWEKme1E	EVSELRS	12,K(Mono-me	0.0000186	2530.3679	-0.01214	-4.79584
FCKVMVDNIPKme1	FCKVMVD	2,C(Carbamid	5.98E-08	1371.7348	-0.01065	-7.75826
GITALQADIKLPGIPIKm	GITALQAI	17,K(Mono-me	0.00433	3265.9505	0.03161	9.675575
GLNALVQLSVVVGPSL	GLNALVQ	33,K(Mono-me	0.00439	3673.1687	0.02841	7.732286
GWDEALLTMSKGEKm	GWDEALL	14,K(Mono-me	0.0000918	1812.9498	0.0121	6.670455
HKme1DYYDDLFRSQK	HKDYYDI	2,K(Mono-met	0.00000188	1731.8489	-0.00618	-3.56638
HQGVMoxVGMGQKme	HQGVMV	5,M(oxidation)	3.49E-07	2392.1365	-0.00843	-3.52258
HQGVMVGMGQKme1D	HQGVMV	11,K(Mono-me	3.03E-07	2532.234	-0.00255	-1.00662
Kme1Kme1MoxRAEDG	KKMRAEI	1,K(Mono-met	0.00000224	1659.8916	-0.00929	-5.59339
Kme1LDLPVLFPNRLGK	KLDLPVLI	1,K(Mono-met	0.000201	2518.5739	-0.01297	-5.14771
Kme1LPELR	KLPELR	1,K(Mono-met	2.04E-07	772.50796	-0.00112	-1.44794
Kme1NITEYCRDLIK	KNITEYCI	1,K(Mono-met	5.21E-07	1569.8457	-0.00862	-5.48749
Kme1SAPATGGVKme1	KSAPATG	1,K(Mono-met	5.34E-18	1468.902	0.00072	0.489826
Kme1SAPSTGGVKme1	KSAPSTG	1,K(Mono-met	3.68E-09	1484.8969	-0.00179	-1.20466
KHTLPLVSVHWQKme1	KHTLPLV	13,K(Mono-me	0.000508	1589.9315	0.0041	2.577088
KQSGYGGQTKme1PIF	KQSGYG	10,K(Mono-me	4.95E-20	1583.8693	-0.00101	-0.63727
KTKme1AAAAAAAAAP/	KTKAAAA	1,K(Mono-met	4.14E-16	2742.4785	-0.01037	-3.77988
LKme1ADKme1EFR	LKADKEF	2,K(Mono-met	4.03E-07	1041.6364	-0.00756	-7.25085
LKme1HMVDDKIHSR	LKHMVDI	2,K(Mono-met	4.39E-07	1499.8336	0.00887	5.909985
LKme1HMVLDKMoxHA	LKHMVLD	2,K(Mono-met	5.5E-08	1519.8694	0.00954	6.272659
LTTYPQTTIRKme1	LTTYPQT	11,K(Mono-me	0.00000288	1338.778	-0.01174	-8.76268
MoxLADWTKYRSTKme	MLADWTK	1,M(oxidation)	0.00000102	1536.8152	-0.00712	-4.62995
MoxMoxTYIEKme1R	MMTYIEK	1,M(oxidation)	0.00000209	1128.5973	0.00994	8.799462
MoxSILGVRSFGIEDKm	MSILGVR	1,M(oxidation)	0.0000341	1588.8676	0.00765	4.811676
MDSQTVGKme1SSKme	MDSQTV	8,K(Mono-met	9.62E-09	1206.6492	-0.00298	-2.4676
NGITNLLMYVKSMKme	NGITNLL	14,K(Mono-me	0.0000177	1636.9171	-0.00844	-5.15289
QEHKme1LKme1VARLI	QEHKLKV	4,K(Mono-met	0.000253	2116.2662	0.00736	3.476157
QLFSSQLKme1NLHPG	QLFSSQL	8,K(Mono-met	0.0000121	1843.0225	-0.01803	-9.7776
QSGYGGQTKme1PIFR	QSGYGG	9,K(Mono-met	8.88E-14	1455.7743	-0.00245	-1.68179
QSGYGGQTKme1PIFR	QSGYGG	9,K(Mono-met	8.04E-08	1583.8693	-0.00241	-1.52063
SKLPSGKme1NILVFGE	SKLPSGK	7,K(Mono-met	0.000302	1950.0695	0.00079	0.404904
SMoxLQPQDIETEKme1	SMLQPQI	2,M(oxidation)	0.0000142	1455.7308	-0.00879	-6.03407
TFELFRGKme1	TFELFRG	8,K(Mono-met	1.16E-07	1014.5771	-0.00068	-0.66957
TKme1AAAAAAAAAPA/	TKAAAAA	2,K(Mono-met	1.29E-13	2614.3835	-0.00622	-2.37824

TPSSDVLVFDYTKHPAI	TPSSDVL	17,K(Mono-me	9.61E-07	3259.5728	-0.03233	-9.91551
TQIKKLCSWRDKme1	TQIKKLCS	7,C(Carbamid	2.65E-07	1579.8777	-0.00867	-5.4843
TSACFEPSLDYMVTKm	TSACFEP	4,C(Carbamid	0.0000639	2136.0689	-0.00959	-4.48746
TSVVLNHLAEKme1WF	TSVVLNH	11,K(Mono-me	0.000412	1999.0912	-0.01655	-8.27466
VSHKSTSGQAKWQGH	VSHKSTS	22,C(Carbami	7.17E-07	2786.4307	0.00797	2.859248
VYRAVTDYVTVTMoxG	VYRAVTD	13,M(oxidation	0.0000654	1868.9735	-0.00062	-0.33155
YDEELGKAARFSCDIE	YDEELGK	13,C(Carbami	0.000431	2289.122	0.0191	8.340071
YLAATPLQRKme1PHG	YLAATPL	10,K(Mono-me	0.00297	2352.4067	-0.00218	-0.92632
YNQRQKme1NKNHEQ	YNQRQK	6,K(Mono-met	0.0000282	1846.9419	0.00575	3.111548
AMoxKIDHLSIEKme2LL	AMKIDHL	2,M(oxidation)	0.00000293	2344.3602	-0.0207	-8.82599
CQVCHKme2AFTQTSH	CQVCHKA	1,C(Carbamid	0.0000754	1879.9578	-0.00265	-1.40885
EANDSDVQPSGAQRAI	EANDSDV	24,K(Di-methy	0.000619	2797.4653	0.02763	9.873146
EKme2LCEYK	EKLCEYK	2,K(Di-methyla	0.00035	1004.5394	0.0029	2.883995
GSFKme2YAWVLDKLK	GSFKYAV	4,K(Di-methyla	4.2E-10	1589.9363	0.00351	2.206233
ILEMoxDIEEIQNCYYDK	ILEMDIEE	4,M(oxidation)	0.000458	2400.2007	0.00251	1.045306
Kme2ELEEQPTR	KELEEQP	1,K(Di-methyla	0.0000013	1164.6532	0.00707	6.065194
Kme2LQSGLVWTNCWI	KLQSGLV	1,K(Di-methyla	0.000263	1909.0789	-0.00066	-0.34553
Kme2MoxSSSCSGLSR	KMSSSCS	1,K(Di-methyla	0.000924	1254.6362	-0.00902	-7.18362
Kme2SAPATGGVKme2	KSAPATG	1,K(Di-methyla	0.0000586	1504.9776	-0.00173	-1.14875
KLLSKme2EPNPPIDQV	KLLSKEPI	5,K(Di-methyla	0.00112	2618.5665	-0.00478	-1.82473
KNPNKEDKme2R	KNPNKED	8,K(Di-methyla	5.21E-07	1163.6804	-0.00274	-2.35257
LKme2WAFSMYDLDGN	LKWAFSM	2,K(Di-methyla	0.000457	2611.3277	-0.01269	-4.85775
LTLAKme2GEYK	LTLAKGE	5,K(Di-methyla	0.00000376	1057.6565	-0.00157	-1.483
MoxDSTEPPYSQKme2	MDSTEPF	1,M(oxidation)	0.0000294	1493.7486	0.00248	1.659131
NTGKme2EEQRAR	NTGKEEC	4,K(Di-methyla	0.00000418	1223.6764	-0.00812	-6.63033
PDLCAQDNPMNPKme2	PDLCAQD	4,C(Carbamid	0.00000274	1666.8473	-0.00354	-2.12249
QLIVGVNKMoxDSTEPF	QLIVGVN	9,M(oxidation)	0.000516	2345.2715	-0.00851	-3.62703
QLIVGVNKMDSTEPPY	QLIVGVN	19,K(Di-methy	8.89E-15	2329.2766	0.00391	1.677904
RMAIEILAWGLRNMKm	RMAIEILA	15,K(Di-methy	0.000701	1973.2005	0.00367	1.85897
TIMoxKme2HDGTKTEK	TIMKHDG	3,M(oxidation)	0.000106	1842.0335	0.00918	4.980874
ASPAGWAGRAKme3LF	ASPAGW	11,K(Tri-methy	9.81E-07	1393.8608	0.01123	8.050876
FKme3YASDLQRHR	FKYASDL	2,K(Tri-methyl	0.0000111	1473.8506	-0.0124	-8.40766
Kme3ESVFISGDQEVR	KESVFIS	1,K(Tri-methyl	0.000166	1546.8657	0.00129	0.833401
Kme3MFPGLAAPSLPK	KMFPGLA	1,K(Tri-methyl	1.87E-14	1413.8992	-0.00877	-6.19833
Kme3SAPATGGVK	KSAPATG	1,K(Tri-methyl	1.53E-11	968.63204	0.0018	1.856357
QIAADKQYKme3GIVDC	QIAADKQ	9,K(Tri-methyl	7.82E-07	2030.1648	0.00304	1.496671
QITADKQYKme3GIIDC	QITADKQ	9,K(Tri-methyl	1.69E-09	2060.1754	0.00388	1.882411
QYKme3GIIDCVVR	QYKGIIDC	3,K(Tri-methyl	1.67E-10	1403.8261	0.00099	0.704709
QYKme3GIIDCVVRIPK	QYKGIIDC	3,K(Tri-methyl	0.0000269	1742.0578	0.00143	0.820393
QYKme3GIVDCIVR	QYKGIVD	3,K(Tri-methyl	0.00000167	1403.8261	0.01079	7.680567

ono-, di- and tri-methylation of lysine, and oxidation of methionine, respectively.

Protein IP	Protein S	Gene Syn	Protein Na	Methylation type	Sample source
IPI002934	SWISS-PF	SRP14	Signal rec	Mono-methylation	normal
IPI003013	SWISS-PF	POLR3B	DNA-direc	Mono-methylation	normal
IPI004119	SWISS-PF	SNORD11	Nucleolar p	Mono-methylation	normal
IPI000181	SWISS-PF	SYNCRIP	Isoform 1 c	Mono-methylation	normal
IPI000274	SWISS-PF	RHOC	Rho-relate	Mono-methylation	normal
IPI003825	TREMBL:(	PNKD	Myofibrillog	Mono-methylation	normal
IPI000112	SWISS-PF	HNRPDL	Isoform 1 c	Mono-methylation	normal
IPI003752	SWISS-PF	LAMA1	Laminin su	Mono-methylation	normal
IPI000098	SWISS-PF	VCAN	Isoform V0	Mono-methylation	normal
IPI000039	SWISS-PF	HIST2H2E	Histone H2	Mono-methylation	normal
IPI000695	SWISS-PF	C3orf49	Putative ur	Mono-methylation	normal
IPI001427	SWISS-PF	DNAJC21	Isoform 1 c	Mono-methylation	normal
IPI003824	SWISS-PF	HSP90AA	Isoform 2 c	Mono-methylation	normal
IPI004127	SWISS-PF	MAP3K15	Isoform 1 c	Mono-methylation	normal
IPI000000	SWISS-PF	NRAS	GTPase N	Mono-methylation	normal
IPI000008	SWISS-PF	LASP1	Isoform 1 c	Mono-methylation	normal
IPI003838	SWISS-PF	DCST2	Isoform 2 c	Mono-methylation	normal
IPI000128	SWISS-PF	ATP8B1	Probable p	Mono-methylation	normal
IPI000207	SWISS-PF	C14orf91	Putative ur	Mono-methylation	normal
IPI000690	SWISS-PF	TRRAP	Isoform 1 c	Mono-methylation	normal
IPI002974	SWISS-PF	SNRPA1	U2 small n	Mono-methylation	normal
IPI000439	SWISS-PF	PARD3B	Isoform 1 c	Mono-methylation	normal
IPI001649	SWISS-PF	KIAA1033	Isoform 2 c	Mono-methylation	normal
IPI007841	SWISS-PF	GPCRLTM	Putative ol	Mono-methylation	normal
IPI007831	SWISS-PF	CCDC150	Isoform 1 c	Mono-methylation	normal
IPI000300	SWISS-PF	FAM50A	Protein FA	Mono-methylation	normal
IPI000177	SWISS-PF	TIMP4	Metallopro	Mono-methylation	normal
IPI007829	SWISS-PF	ZFP106	Zinc finger	Mono-methylation	normal
IPI000102	SWISS-PF	KRCC1	Lysine-rich	Mono-methylation	normal
IPI000102	SWISS-PF	RAC2	Ras-relate	Mono-methylation	normal
IPI009262	TREMBL:I	MAP2	Uncharacte	Mono-methylation	normal
IPI000229	SWISS-PF	CD74	Isoform 1 c	Mono-methylation	normal
IPI002938	SWISS-PF	RIF1	Isoform 1 c	Mono-methylation	normal
IPI003294	SWISS-PF	NDST3	Isoform 1 c	Mono-methylation	normal
IPI003850	SWISS-PF	CEP112	Isoform 1 c	Mono-methylation	normal
IPI000100	SWISS-PF	ZKSCAN3	Zinc finger	Mono-methylation	normal
IPI000060	SWISS-PF	CKLF-CM	Isoform 1 c	Mono-methylation	normal
IPI000188	SWISS-PF	C12orf35	Uncharacte	Mono-methylation	normal
IPI000129	TREMBL:I	SPRY2	Uncharacte	Mono-methylation	normal
IPI000119	SWISS-PF	MCC	Isoform 1 c	Mono-methylation	normal
IPI004566	SWISS-PF	RLTPR	Leucine-ric	Mono-methylation	normal
IPI007927	SWISS-PF	LTBP4	Isoform 3 c	Mono-methylation	normal
IPI005558	TREMBL:(	ANKRD11	Ankyrin rep	Mono-methylation	normal
IPI002171	SWISS-PF	SLITRK4	SLIT and N	Mono-methylation	normal
IPI000055	SWISS-PF	EHD4	EH domain	Mono-methylation	normal
IPI003769	SWISS-PF	CDK17	Cyclin-dep	Mono-methylation	normal

IPI000108	SWISS-PF	CD72	B-cell diffe	Mono-methylation	normal
IPI006454	SWISS-PF	MTUS2	Isoform 2 c	Mono-methylation	normal
IPI009644	TREMBL:I	SIL1	Uncharacte	Mono-methylation	normal
IPI002181	SWISS-PF	ITIH4	Isoform 2 c	Mono-methylation	normal
IPI010120	-	ATG16L2	Protein	Mono-methylation	normal
IPI000085	SWISS-PF	KHDRBS1	Isoform 1 c	Mono-methylation	normal
IPI004567	SWISS-PF	SH3BP1	Isoform 1 c	Mono-methylation	normal
IPI000000	SWISS-PF	LDLR	Low-densit	Mono-methylation	normal
IPI005525	SWISS-PF	ERCC6L	DNA excisi	Mono-methylation	normal
IPI009107	TREMBL:I	SUGP2	cDNA FLJ5	Mono-methylation	normal
IPI000120	SWISS-PF	HNRNPR	Isoform 1 c	Mono-methylation	normal
IPI001487	SWISS-PF	TRIOBP	TRIO and I	Mono-methylation	normal
IPI003355	SWISS-PF	UBR3	Isoform 1 c	Mono-methylation	normal
IPI001654	SWISS-PF	WDR60	WD repeat	Mono-methylation	normal
IPI000046	SWISS-PF	GOLGB1	Golgin sub	Mono-methylation	normal
IPI002173	SWISS-PF	CD302	CD302 ant	Mono-methylation	normal
IPI000084	SWISS-PF	RPS10	40S riboso	Mono-methylation	normal
IPI000219	SWISS-PF	IL18RAP	Interleukin-	Mono-methylation	normal
IPI000096	SWISS-PF	ARHGAP2	Isoform 2 c	Mono-methylation	normal
IPI007902	SWISS-PF	CCDC39	Isoform 1 c	Mono-methylation	normal
IPI000128	TREMBL:I	ZNF211	zinc finger	Mono-methylation	normal
IPI000116	SWISS-PF	PTPRE	Receptor-t	Mono-methylation	normal
IPI000103	SWISS-PF	KIF2A	Uncharacte	Mono-methylation	normal
IPI000205	SWISS-PF	LRP1	Prolow-der	Mono-methylation	normal
IPI001513	SWISS-PF	TRPM6	Isoform TR	Mono-methylation	normal
IPI000159	SWISS-PF	TRPA1	Transient r	Mono-methylation	normal
IPI003064	SWISS-PF	ZNF24	Isoform 1 c	Mono-methylation	normal
IPI000187	SWISS-PF	DNAJC17	DnaJ hom	Mono-methylation	normal
IPI002159	SWISS-PF	HNRNPA1	Isoform A1	Mono-methylation	normal
IPI004654	SWISS-PF	RUFY1	Isoform 2 c	Mono-methylation	normal
IPI009159	TREMBL:I	HSPD1	Uncharacte	Mono-methylation	normal
IPI007439	SWISS-PF	URGCP	up-regulate	Mono-methylation	normal
IPI000105	SWISS-PF	HELLS	Isoform 1 c	Mono-methylation	normal
IPI007426	SWISS-PF	TPR	Nucleoprot	Mono-methylation	normal
IPI003293	SWISS-PF	KRT74	Keratin, typ	Mono-methylation	normal
IPI002938	SWISS-PF	DDT	D-dopachr	Mono-methylation	normal
IPI003033	SWISS-PF	NEB	Nebulin	Mono-methylation	normal
IPI000226	SWISS-PF	SEPT3	Isoform 3 c	Mono-methylation	normal
IPI002912	SWISS-PF	PARP14	Isoform 6 c	Mono-methylation	normal
IPI002203	SWISS-PF	PHKG1	PHKG1 pro	Mono-methylation	normal
IPI000106	SWISS-PF	PLCE1	Isoform 1 c	Mono-methylation	normal
IPI008557	SWISS-PF	C2orf89	Isoform 2 c	Mono-methylation	normal
IPI004423	TREMBL:(	BRAT1	FLJ00321	Mono-methylation	normal
IPI000021	SWISS-PF	DNAH1	Isoform 2 c	Mono-methylation	normal
IPI002983	SWISS-PF	ATM	Serine-pro	Mono-methylation	normal
IPI000282	SWISS-PF	SEMA3D	Semaphori	Mono-methylation	normal
IPI009221	TREMBL:I	MCM2	cDNA FLJ5	Mono-methylation	normal
IPI001035	SWISS-PF	SORCS1	Isoform 1 c	Mono-methylation	normal
IPI007842	-	CEP290	291 kDa pr	Mono-methylation	normal

IPI003948	SWISS-PF	SMTNL2	Isoform 1 c	Mono-methylation	normal
IPI009084	TREMBL:F	CIAPIN1	cDNA FLJ5	Mono-methylation	normal
IPI000046	SWISS-PF	GOLGB1	Golgin sub	Mono-methylation	normal
IPI000194	SWISS-PF	FBN2	Isoform 1 c	Mono-methylation	normal
IPI001819	SWISS-PF	METTL2B	Isoform 2 c	Mono-methylation	normal
IPI002974	SWISS-PF	SLC45A4	Isoform 3 c	Mono-methylation	normal
IPI001778	SWISS-PF	LENG8	Uncharacte	Mono-methylation	normal
IPI000297	SWISS-PF	GRIN2A	Glutamate	Mono-methylation	normal
IPI003865	SWISS-PF	RASSF4	Isoform 2 c	Mono-methylation	normal
IPI004387	SWISS-PF	MBD1	Isoform 5 c	Mono-methylation	normal
IPI006516	SWISS-PF	DNAH2	Isoform 2 c	Mono-methylation	normal
IPI000071	SWISS-PF	ANKRD26	Isoform 2 c	Mono-methylation	normal
IPI000057	SWISS-PF	ST18	Suppressio	Mono-methylation	normal
IPI003392	SWISS-PF	HSPA6	Heat shock	Mono-methylation	normal
IPI009813	TREMBL:F	MICU1	Uncharacte	Mono-methylation	normal
IPI007841	SWISS-PF	HSPD1	60 kDa hea	Mono-methylation	normal
IPI000290	SWISS-PF	EIF3A	Eukaryotic	Mono-methylation	normal
IPI009773	TREMBL:F	ANO3	Uncharacte	Mono-methylation	normal
IPI009836	-	LOC65015	peptidyl-pr	Mono-methylation	normal
IPI000124	SWISS-PF	G3BP1	Ras GTPa	Mono-methylation	normal
IPI000222	SWISS-PF	HDLBP	Vigilin	Mono-methylation	normal
IPI009417	SWISS-PF	TCEB3	Transcripti	Mono-methylation	normal
IPI004018	SWISS-PF	MIPOL1	Isoform 3 c	Mono-methylation	normal
IPI002193	SWISS-PF	RPL3L	60S riboso	Mono-methylation	normal
IPI003838	SWISS-PF	DCST2	Isoform 2 c	Mono-methylation	normal
IPI001581	SWISS-PF	NFX1	Isoform 2 c	Mono-methylation	normal
IPI000258	SWISS-PF	BCHE	Butyrylcho	Mono-methylation	normal
IPI007831	SWISS-PF	C2orf63	Isoform 1 c	Mono-methylation	normal
IPI001511	SWISS-PF	TTK	Dual speci	Mono-methylation	normal
IPI000000	SWISS-PF	PFDN1	Prefoldin s	Mono-methylation	normal
IPI000097	SWISS-PF	RXRG	Retinoic ac	Mono-methylation	normal
IPI010147	TREMBL:(	DMD	Uncharacte	Mono-methylation	normal
IPI000659	SWISS-PF	CATSPER	Isoform 1 c	Mono-methylation	normal
IPI000218	SWISS-PF	AHNAK	Neuroblast	Mono-methylation	normal
IPI004008	SWISS-PF	DOK6	Docking pr	Mono-methylation	normal
IPI000210	SWISS-PF	PKP4	Plakophilin	Mono-methylation	normal
IPI005140	SWISS-PF	C9orf104	Uncharacte	Mono-methylation	normal
IPI000168	SWISS-PF	ZNF670	Zinc finger	Mono-methylation	normal
IPI009653	SWISS-PF	DTHD1	Uncharacte	Mono-methylation	normal
IPI001733	SWISS-PF	PGM2L1	Glucose 1,	Mono-methylation	normal
IPI000024	SWISS-PF	OAS3	2'-5'-oligoa	Mono-methylation	normal
IPI000087	SWISS-PF	RSL1D1	Ribosomal	Mono-methylation	normal
IPI005500	SWISS-PF	GPBP1L1	Vasculin-lik	Mono-methylation	normal
IPI002987	SWISS-PF	POLRMT	Similar to D	Mono-methylation	normal
IPI002212	SWISS-PF	STX2	Isoform 1 c	Mono-methylation	normal
IPI004102	SWISS-PF	CELF2	Isoform 3 c	Mono-methylation	normal
IPI001790	SWISS-PF	MRPL35	Isoform 1 c	Mono-methylation	normal
IPI002358	SWISS-PF	ZNF483	Zinc finger	Mono-methylation	normal
IPI004018	SWISS-PF	CNNM2	Isoform 3 c	Mono-methylation	normal

IPI000175	SWISS-PF	KIN	DNA/RNA-	Mono-methylation	normal
IPI010181	TREMBL:(	ANKRD26	cDNA FLJ4	Mono-methylation	normal
IPI000214	SWISS-PF	ACTB	Actin, cyto	Mono-methylation	normal
IPI000232	SWISS-PF	UBA2	SUMO-act	Mono-methylation	normal
IPI000231	SWISS-PF	STX16-NF	Isoform B (	Mono-methylation	normal
IPI002212	SWISS-PF	STX2	Isoform 1 (	Mono-methylation	normal
IPI001714	SWISS-PF	TXNDC5;N	Thioredoxi	Mono-methylation	normal
IPI000442	SWISS-PF	PRLR	Isoform 4 (	Mono-methylation	normal
IPI000277	SWISS-PF	CASP4	Caspase-4	Mono-methylation	normal
IPI000029	SWISS-PF	GJC1	Gap junctio	Mono-methylation	normal
IPI002938	SWISS-PF	RIF1	Isoform 1 (	Mono-methylation	normal
IPI002980	SWISS-PF	MB21D1	Isoform 1 (	Mono-methylation	normal
IPI000278	SWISS-PF	POLR2B	DNA-direct	Mono-methylation	normal
IPI000060	SWISS-PF	BMS1	Ribosome	Mono-methylation	normal
IPI000564	SWISS-PF	RPL36AL	60S riboso	Mono-methylation	normal
IPI000056	SWISS-PF	U2AF1	Splicing fa	Mono-methylation	normal
IPI000564	SWISS-PF	RPL36AL	60S riboso	Mono-methylation	normal
IPI004534	SWISS-PF	HIST2H4B	Histone H4	Mono-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Mono-methylation	normal
IPI000112	SWISS-PF	HNRPDL	Isoform 1 (	Mono-methylation	normal
IPI005562	-	LOC64493	Actin/actin-	Mono-methylation	normal
IPI002955	SWISS-PF	WIZ	Isoform 1 (	Mono-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Mono-methylation	normal
IPI000173	SWISS-PF	PHB	Prohibitin	Mono-methylation	normal
IPI000246	SWISS-PF	SLC16A1	Monocarbo	Mono-methylation	normal
IPI002157	SWISS-PF	SLC25A3	Isoform B (	Mono-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Mono-methylation	normal
IPI000093	SWISS-PF	PPIE	Isoform A (	Mono-methylation	normal
IPI002190	SWISS-PF	H3F3A;H3	Histone H3	Mono-methylation	normal
IPI000564	SWISS-PF	RPL36AL	60S riboso	Mono-methylation	normal
IPI000094	SWISS-PF	EXOSC10	Isoform 1 (	Mono-methylation	normal
IPI004114	SWISS-PF	CERKL	Isoform 2 (	Mono-methylation	normal
IPI000094	SWISS-PF	EXOSC10	Isoform 1 (	Mono-methylation	normal
IPI000056	SWISS-PF	U2AF1	Splicing fa	Mono-methylation	normal
IPI000564	SWISS-PF	RPL36AL	60S riboso	Mono-methylation	normal
IPI000112	SWISS-PF	HNRPDL	Isoform 1 (	Mono-methylation	normal
IPI004654	SWISS-PF	ALDOA	Fructose-b	Mono-methylation	normal
IPI000144	SWISS-PF	EEF1A2	Elongation	Mono-methylation	normal
IPI007978	TREMBL:I	CCHCR1	cDNA FLJ5	Mono-methylation	normal
IPI001636	SWISS-PF	CASC5	Isoform 3 (	Mono-methylation	normal
IPI001784	SWISS-PF	RECQL	ATP-deper	Mono-methylation	normal
IPI000218	SWISS-PF	AHNAK	Neuroblast	Mono-methylation	normal
IPI009558	SWISS-PF	ZBED6	Zinc finger	Mono-methylation	normal
IPI002187	-	LAMA2	laminin sul	Mono-methylation	normal
IPI000049	TREMBL:I	PIEZO2	Uncharacte	Mono-methylation	normal
IPI003058	SWISS-PF	PRR11	Proline-rich	Mono-methylation	normal
IPI002996	SWISS-PF	RGL1	Isoform B (	Mono-methylation	normal
IPI000046	SWISS-PF	GOLGB1	Golgin sub	Mono-methylation	normal
IPI008958	SWISS-PF	MYO1G	Isoform 3 (	Mono-methylation	normal

IPI010253(	-	ALDH6A1	56 kDa pro	Mono-methylation	normal
IPI000200(	SWISS-PF	IL26	Interleukin-	Mono-methylation	normal
IPI001683(	SWISS-PF	GRAMD1A	Isoform 3 o	Mono-methylation	normal
IPI003068!	SWISS-PF	CHST3	Carbohydr	Mono-methylation	normal
IPI009668:	-	MXD4	Protein	Mono-methylation	normal
IPI001717(	SWISS-PF	KIF18A	Kinesin-like	Mono-methylation	normal
IPI008738(	SWISS-PF	RGS1	Isoform 1 o	Mono-methylation	normal
IPI001748(	SWISS-PF	ZNF780A	Isoform 1 o	Mono-methylation	normal
IPI009211'	-	ATP2B3	Similar to P	Mono-methylation	normal
IPI002982(	SWISS-PF	ERBB3	Isoform 1 o	Mono-methylation	normal
IPI008475(	SWISS-PF	TRANK1	TPR and a	Mono-methylation	normal
IPI000056(	SWISS-PF	HSD11B1	Corticoster	Mono-methylation	normal
IPI000315!	SWISS-PF	ST6GALN	Alpha-N-ac	Mono-methylation	normal
IPI001797!	SWISS-PF	GDPD4	Isoform 1 o	Mono-methylation	normal
IPI003000'	SWISS-PF	PWP2	Periodic try	Mono-methylation	normal
IPI000181!	TREMBL:(	NONO	clone tec14	Mono-methylation	normal
IPI005497(	SWISS-PF	FAM40A	Isoform 1 o	Mono-methylation	normal
IPI006406!	SWISS-PF	SLC41A3	Isoform 6 o	Mono-methylation	normal
IPI002950'	SWISS-PF	NKTR	NK-tumor r	Mono-methylation	normal
IPI010148'	TREMBL:F	MSR1	Uncharacte	Mono-methylation	normal
IPI000229(	SWISS-PF	KIAA1826	Coiled-coil	Mono-methylation	normal
IPI000028!	SWISS-PF	PPP2R5E	Serine/thre	Di-methylation	normal
IPI003824'	SWISS-PF	HSP90AA	Isoform 2 o	Di-methylation	normal
IPI000029(	SWISS-PF	TEAD1	Transcripti	Di-methylation	normal
IPI009826!	-	-	Similar to P	Di-methylation	normal
IPI009425'	TREMBL:E	SMEK1	Uncharacte	Di-methylation	normal
IPI000097!	SWISS-PF	PFKP	6-phospho	Di-methylation	normal
IPI000243(	SWISS-PF	ATP9A	Isoform Lo	Di-methylation	normal
IPI000017!	SWISS-PF	MYH4	Myosin-4	Di-methylation	normal
IPI001807(	SWISS-PF	KAT7	Histone ac	Di-methylation	normal
IPI000017'	SWISS-PF	ETV7	Isoform B o	Di-methylation	normal
IPI000231!	SWISS-PF	TOM1L1	TOM1-like	Di-methylation	normal
IPI001681(	TREMBL:E	CLASP2	Uncharacte	Di-methylation	normal
IPI002341!	SWISS-PF	ANKRD56	Ankyrin rep	Di-methylation	normal
IPI003295!	SWISS-PF	EEA1	Early endo	Di-methylation	normal
IPI005527'	TREMBL:E	IPO11	Putative ur	Di-methylation	normal
IPI000101!	SWISS-PF	CHRAC1	Chromatin	Di-methylation	normal
IPI000321(	SWISS-PF	FOXM1	Isoform 1 o	Di-methylation	normal
IPI000340(	SWISS-PF	PTPN23	Tyrosine-p	Di-methylation	normal
IPI002917!	SWISS-PF	SLX4	Isoform 1 o	Di-methylation	normal
IPI000258!	SWISS-PF	NAA25	Isoform 1 o	Di-methylation	normal
IPI000276!	SWISS-PF	NNMT	Nicotinami	Di-methylation	normal
IPI000262!	SWISS-PF	HNRNPH2	Heterogen	Di-methylation	normal
IPI001743!	TREMBL:E	FAM75C2	hypothetica	Di-methylation	normal
IPI000285'	SWISS-PF	TAF6	Isoform 1 o	Di-methylation	normal

IPI000285(	SWISS-PF	GBP1	Interferon-i	Di-methylation	normal
IPI009739(	TREMBL:E	C8orf44-S	Uncharacte	Di-methylation	normal
IPI000142(	SWISS-PF	IQCB1	Isoform 1 c	Di-methylation	normal
IPI000212(	SWISS-PF	YWHAZ	2014-3-3 p	Di-methylation	normal
IPI003012(	SWISS-PF	FBXW11	Isoform B c	Di-methylation	normal
IPI000222(	SWISS-PF	C19orf29	Isoform 2 c	Di-methylation	normal
IPI000144(	SWISS-PF	EEF1A2	Elongation	Di-methylation	normal
IPI000192(	SWISS-PF	AKAP9	Isoform 1 c	Di-methylation	normal
IPI002978(	SWISS-PF	MLL2	Isoform 1 c	Di-methylation	normal
IPI003768(	SWISS-PF	CCDC33	Uncharacte	Di-methylation	normal
IPI004654(	SWISS-PF	RUFY1	Isoform 2 c	Di-methylation	normal
IPI005555(	SWISS-PF	HSP90AB	Putative he	Di-methylation	normal
IPI000134(	SWISS-PF	TSPAN6	Tetraspani	Di-methylation	normal
IPI001019(	SWISS-PF	SPG11	Isoform 1 c	Di-methylation	normal
IPI005497(	SWISS-PF	NOSTRIN	Isoform 1 c	Di-methylation	normal
IPI002923(	SWISS-PF	SPAG1	Sperm-ass	Di-methylation	normal
IPI009101(	TREMBL:E	PIK3R3	cDNA FLJ(	Di-methylation	normal
IPI008964(	SWISS-PF	C6orf132	Isoform 1 c	Di-methylation	normal
IPI009224(	TREMBL:(	PRMT3	protein arg	Di-methylation	normal
IPI002929(	SWISS-PF	RBM27	RNA-bindi	Di-methylation	normal
IPI000183(	SWISS-PF	FLT1	Isoform Flt	Di-methylation	normal
IPI008738(	SWISS-PF	RGS1	Isoform 1 c	Di-methylation	normal
IPI004731(	SWISS-PF	ZNF443	cDNA FLJ(	Di-methylation	normal
IPI002187(	SWISS-PF	PDE6A	Rod cGMP	Di-methylation	normal
IPI000232(	SWISS-PF	TTN	Isoform 2 c	Di-methylation	normal
IPI000154(	SWISS-PF	LRRC31	Isoform 2 c	Di-methylation	normal
IPI000123(	SWISS-PF	PRKG2	cGMP-dep	Di-methylation	normal
IPI006453(	TREMBL:E	ASPM	Uncharacte	Di-methylation	normal
IPI004706(	SWISS-PF	OR6C75	Olfactory r	Di-methylation	normal
IPI002196(	SWISS-PF	VAV3	Isoform 2 c	Di-methylation	normal
IPI000119(	SWISS-PF	CCP110	Isoform 1 c	Di-methylation	normal
IPI000131(	SWISS-PF	PRPH	Isoform 1 c	Di-methylation	normal
IPI001856(	SWISS-PF	USP32	Ubiquitin c	Di-methylation	normal
IPI000599(	SWISS-PF	DHRS13	Isoform 1 c	Di-methylation	normal
IPI003844(	SWISS-PF	TDRD9	Isoform 1 c	Di-methylation	normal
IPI003831(	SWISS-PF	CHD9	Isoform 1 c	Di-methylation	normal
IPI002358(	SWISS-PF	ZNF483	Zinc finger	Di-methylation	normal
IPI000447(	SWISS-PF	FMNL2	Similar to F	Di-methylation	normal
IPI003073(	SWISS-PF	BTBD16	Isoform 2 c	Di-methylation	normal
IPI000209(	SWISS-PF	ZNF41	Isoform 1 c	Di-methylation	normal
IPI001711(	SWISS-PF	GATAD1	GATA zinc	Di-methylation	normal
IPI003755(	SWISS-PF	ZNF804A	Zinc finger	Di-methylation	normal
IPI000303(	SWISS-PF	BNIP1	Isoform 3 c	Di-methylation	normal

IPI000236	SWISS-PF	GNG3	Guanine n	Di-methylation	normal
IPI000043	SWISS-PF	MORC1	MORC fam	Di-methylation	normal
IPI003739	SWISS-PF	C19orf45	Uncharacte	Di-methylation	normal
IPI001019	SWISS-PF	LZTS2	Leucine zip	Di-methylation	normal
IPI000176	SWISS-PF	CCDC19	Coiled-coil	Di-methylation	normal
IPI008738	SWISS-PF	RGS1	Isoform 1 o	Di-methylation	normal
IPI000144	SWISS-PF	EEF1A2	Elongation	Di-methylation	normal
IPI001807	-	-	Similar to E	Di-methylation	normal
IPI000144	SWISS-PF	EEF1A2	Elongation	Di-methylation	normal
IPI001807	-	-	Similar to E	Di-methylation	normal
IPI000144	SWISS-PF	EEF1A2	Elongation	Di-methylation	normal
IPI003844	SWISS-PF	KRT14	Keratin, typ	Di-methylation	normal
IPI001807	-	-	Similar to E	Di-methylation	normal
IPI001807	-	-	Similar to E	Di-methylation	normal
IPI000144	SWISS-PF	EEF1A2	Elongation	Di-methylation	normal
IPI009422	SWISS-PF	OPRM1	Isoform 5 o	Di-methylation	normal
IPI002890	SWISS-PF	DOT1L	Isoform 2 o	Di-methylation	normal
IPI000144	SWISS-PF	EEF1A2	Elongation	Di-methylation	normal
IPI004484	SWISS-PF	ANKRD12	Isoform 1 o	Di-methylation	normal
IPI002912	SWISS-PF	IFI44	Interferon-i	Di-methylation	normal
IPI009265	TREMBL:F	TXNDC3	Uncharacte	Di-methylation	normal
IPI000025	SWISS-PF	DGKB	Isoform 1 o	Di-methylation	normal
IPI003343	TREMBL:A	SDCCAG8	Uncharacte	Di-methylation	normal
IPI000181	TREMBL:(	NONO	clone tec14	Di-methylation	normal
IPI003987	SWISS-PF	RTN3	Isoform 2 o	Di-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Di-methylation	normal
IPI001807	-	-	Similar to E	Di-methylation	normal
IPI004304	SWISS-PF	ASCC3	Activating s	Di-methylation	normal
IPI009302	-	LOC40098	ankyrin rep	Di-methylation	normal
IPI004534	SWISS-PF	HIST2H4B	Histone H4	Di-methylation	normal
IPI001023	SWISS-PF	ANKRD27	Ankyrin rep	Di-methylation	normal
IPI003846	SWISS-PF	ANO1	Isoform 3 o	Di-methylation	normal
IPI002955	SWISS-PF	WIZ	Isoform 1 o	Tri-methylation	normal
IPI000437	SWISS-PF	SCLT1	Isoform 1 o	Tri-methylation	normal
IPI000054	SWISS-PF	TSPYL2	Testis-spe	Tri-methylation	normal
IPI000089	SWISS-PF	HMGCS2	Hydroxyme	Tri-methylation	normal
IPI000266	SWISS-PF	SURF6	Surfeit locu	Tri-methylation	normal
IPI008722	SWISS-PF	TNRC18	Isoform 1 o	Tri-methylation	normal
IPI003376	SWISS-PF	C9orf91	Isoform 3 o	Tri-methylation	normal
IPI002946	SWISS-PF	C15orf23	Isoform 1 o	Tri-methylation	normal
IPI002188	SWISS-PF	MLL4	Isoform 1 o	Tri-methylation	normal
IPI000232	SWISS-PF	RYR2	Isoform 1 o	Tri-methylation	normal
IPI002157	SWISS-PF	CAMK2A	Isoform A o	Tri-methylation	normal

IPI000329	SWISS-PF	ZC4H2	Isoform 1 c	Tri-methylation	normal
IPI004783	SWISS-PF	LCOR	Isoform 1 c	Tri-methylation	normal
IPI007831	SWISS-PF	C2orf63	Isoform 1 c	Tri-methylation	normal
IPI001074	SWISS-PF	WHSC1	Isoform 3 c	Tri-methylation	normal
IPI000079	SWISS-PF	PRPF8	Pre-mRNA	Tri-methylation	normal
IPI000365	SWISS-PF	ADAMTS1	Isoform 1 c	Tri-methylation	normal
IPI000315	SWISS-PF	RFC3	Replicatior	Tri-methylation	normal
IPI000342	SWISS-PF	TMCO7	Transmem	Tri-methylation	normal
IPI002955	SWISS-PF	WIZ	Isoform 1 c	Tri-methylation	normal
IPI000193	SWISS-PF	DYNLL1	Dynein ligh	Tri-methylation	normal
IPI001811	TREMBL:E	BCAT2	Branched-(	Tri-methylation	normal
IPI000289	SWISS-PF	PDE1C	Isoform PD	Tri-methylation	normal
IPI003869	SWISS-PF	TNIP3	TNFAIP3-i	Tri-methylation	normal
IPI000213	SWISS-PF	CLEC2B	C-type lect	Tri-methylation	normal
IPI000093	SWISS-PF	AGXT	Serine--py	Tri-methylation	normal
IPI002472	SWISS-PF	SYNE1	Isoform 4 c	Tri-methylation	normal
IPI009674	TREMBL:I	SLC27A6	Uncharacte	Tri-methylation	normal
IPI007426	SWISS-PF	TPR	Nucleoprot	Tri-methylation	normal
IPI004131	SWISS-PF	C15orf42	Isoform 2 c	Tri-methylation	normal
IPI000021	SWISS-PF	TACC3	Transformi	Tri-methylation	normal
IPI004117	SWISS-PF	BSPH1	Bovine ser	Tri-methylation	normal
IPI001640	SWISS-PF	CCDC136	Isoform 4 c	Tri-methylation	normal
IPI000290	SWISS-PF	LARGE	Isoform 1 c	Tri-methylation	normal
IPI002168	SWISS-PF	RELL1	RELT-like	Tri-methylation	normal
IPI006436	TREMBL:(	LOC64424	Uncharacte	Tri-methylation	normal
IPI001689	TREMBL:(	OR4H12P	Uncharacte	Tri-methylation	normal
IPI008729	SWISS-PF	LOC10012	Putative U	Tri-methylation	normal
IPI000123	SWISS-PF	TRIM35	Isoform 1 c	Tri-methylation	normal
IPI003005	SWISS-PF	UPF2	Isoform 1 c	Tri-methylation	normal
IPI001056	SWISS-PF	ZFP2	Zinc finger	Tri-methylation	normal
IPI002939	SWISS-PF	UBXN4	UBX doma	Tri-methylation	normal
IPI009221	TREMBL:E	CBWD1	cDNA FLJ5	Tri-methylation	normal
IPI003979	SWISS-PF	ZDBF2	DBF4-type	Tri-methylation	normal
IPI008850	SWISS-PF	THAP9	THAP dom	Tri-methylation	normal
IPI004311	TREMBL:E	AGER	Uncharacte	Tri-methylation	normal
IPI008884	SWISS-PF	DNAH17	Isoform 1 c	Tri-methylation	normal
IPI000217	SWISS-PF	TGFB3	Transformi	Tri-methylation	normal
IPI001425	SWISS-PF	SETX	Isoform 1 c	Tri-methylation	normal
IPI008475	SWISS-PF	TRANK1	TPR and a	Tri-methylation	normal
IPI001669	SWISS-PF	AIPL1	Isoform 3 c	Tri-methylation	normal
IPI006446	SWISS-PF	ZNF469	Zinc finger	Tri-methylation	normal
IPI009473	TREMBL:E	DDX5	cDNA FLJ5	Tri-methylation	normal
IPI000460	SWISS-PF	STXBP1	Isoform 2 c	Tri-methylation	normal

IPI000064	SWISS-PF	MELK	Maternal e	Tri-methylation	normal
IPI001575	SWISS-PF	NPNT	Isoform 2 c	Tri-methylation	normal
IPI000032	SWISS-PF	ACTBL2	Beta-actin-	Tri-methylation	normal
IPI005497	SWISS-PF	NHEJ1	Isoform 1 c	Tri-methylation	normal
IPI008275	TREMBL:A	-	VH6DJ pro	Tri-methylation	normal
IPI009101	TREMBL:E	C4orf21	cDNA FLJ5	Tri-methylation	normal
IPI001807	-	-	Similar to E	Tri-methylation	normal
IPI001807	-	-	Similar to E	Tri-methylation	normal
IPI002955	SWISS-PF	WIZ	Isoform 1 c	Tri-methylation	normal
IPI000195	SWISS-PF	MYH9	Isoform 1 c	Tri-methylation	normal
IPI004534	SWISS-PF	HIST2H4B	Histone H4	Tri-methylation	normal
IPI000071	SWISS-PF	SLC25A5	ADP/ATP t	Tri-methylation	normal
IPI002914	SWISS-PF	SLC25A6	ADP/ATP t	Tri-methylation	normal
IPI001781	TREMBL:E	ARHGEF9	Uncharacte	Tri-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Tri-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Tri-methylation	normal
IPI002955	SWISS-PF	WIZ	Isoform 1 c	Tri-methylation	normal
IPI000071	SWISS-PF	SLC25A5	ADP/ATP t	Tri-methylation	normal
IPI000176	SWISS-PF	SMARCE1	Isoform 1 c	Tri-methylation	normal
IPI002190	SWISS-PF	H3F3A;H3	Histone H3	Tri-methylation	normal
IPI002206	SWISS-PF	PKM2	Isoform M1	Tri-methylation	normal
IPI002914	SWISS-PF	SLC25A6	ADP/ATP t	Tri-methylation	normal
IPI002179	SWISS-PF	DST	Isoform 3 c	Tri-methylation	normal
IPI008533	TREMBL:A	ANK2	Uncharacte	Tri-methylation	normal
IPI002939	SWISS-PF	CDYL	Isoform 1 c	Tri-methylation	normal
IPI000183	SWISS-PF	SETDB1	Isoform 1 c	Tri-methylation	normal
IPI001807	-	-	Similar to E	Tri-methylation	normal
IPI000102	SWISS-PF	RAC2	Ras-relate	Tri-methylation	normal
IPI000084	SWISS-PF	SMARCAD	Isoform 2 c	Tri-methylation	normal
IPI008527	SWISS-PF	TTC9	Tetratricop	Tri-methylation	normal
IPI000124	SWISS-PF	SNORD54	40S riboso	Tri-methylation	normal
IPI003038	SWISS-PF	RTF1	RNA polym	Tri-methylation	normal
IPI006434	SWISS-PF	TACC2	Isoform 4 c	Tri-methylation	normal
IPI002206	SWISS-PF	PKM2	Isoform M1	Tri-methylation	normal
IPI001716	SWISS-PF	HIST2H3D	Histone H3	Tri-methylation	normal
IPI002206	SWISS-PF	PKM2	Isoform M1	Tri-methylation	normal
IPI000025	SWISS-PF	DGKB	Isoform 1 c	Tri-methylation	normal
IPI002202	SWISS-PF	TRDN	Triadin	Tri-methylation	normal
IPI000029	SWISS-PF	HSPA4	Heat shock	Tri-methylation	normal
IPI000223	SWISS-PF	RBP3	Retinol-bin	Tri-methylation	normal
IPI009031	TREMBL:E	ANKRD13	cDNA FLJ3	Tri-methylation	normal
IPI009397	SWISS-PF	BIRC6	Baculovira	Tri-methylation	normal
IPI004555	TREMBL:C	FLJ20464	Em:AC005	Tri-methylation	normal

IPI001511	Q96J92-1	WNK4	Isoform 1 c	Mono-methylation	Heavy
IPI007887	B4DYR8;[	ZBTB38	cDNA FLJ5	Mono-methylation	Heavy
IPI000214	P10589	NR2F1	COUP tran	Mono-methylation	Heavy
IPI003046	Q9C0D4	ZNF518B	Zinc finger	Mono-methylation	Heavy
IPI002568	Q9UPN3-2	MACF1	Isoform 2 c	Mono-methylation	Heavy
IPI002486	O60673-1	REV3L	Isoform 1 c	Mono-methylation	Heavy
IPI002908	Q9Y5Y7	LYVE1	Lymphatic	Mono-methylation	Heavy
IPI002170	Q6IN85-1	SMEK1	Isoform 1 c	Mono-methylation	Heavy
IPI002170	Q6IN85-1	SMEK1	Isoform 1 c	Mono-methylation	Heavy
IPI001716	Q8NEY1-1	NAV1	Isoform 1 c	Mono-methylation	Heavy
IPI008528	Q9Y2D4-1	EXOC6B	Isoform 1 c	Mono-methylation	Heavy
IPI007447	Q8TCS8	PNPT1	Polyribonu	Mono-methylation	Heavy
IPI004780	Q8N7B6-2	PACRGL	Isoform 2 c	Mono-methylation	Heavy
IPI000241	Q00688	FKBP3	Peptidyl-pr	Mono-methylation	Heavy
IPI000182	Q13129	RLF	Zinc finger	Mono-methylation	Heavy
IPI000086	P62736	ACTA2	Actin, aorti	Mono-methylation	Heavy
IPI000086	P62736	ACTA2	Actin, aorti	Mono-methylation	Heavy
IPI009660	D6RBW1	EIF4E	Uncharacte	Mono-methylation	Heavy
IPI009097	B4E0D9	ZNF434	cDNA FLJ5	Mono-methylation	Heavy
IPI001711	Q6ZW31-2	SYDE1	Isoform 2 c	Mono-methylation	Heavy
IPI001784	P46063	RECQL	ATP-deper	Mono-methylation	Heavy
IPI001716	Q71DI3	HIST2H3D	Histone H3	Mono-methylation	Heavy
IPI002190	P84243	H3F3A;H3	Histone H3	Mono-methylation	Heavy
IPI009807	-	RAB2A	Protein	Mono-methylation	Heavy
IPI000564	Q969Q0	RPL36AL	60S riboso	Mono-methylation	Heavy
IPI002934	P37108	SRP14	Signal rec	Mono-methylation	Heavy
IPI004106	Q8IUH5-1	ZDHHC17	Isoform 1 c	Mono-methylation	Heavy
IPI000278	P30876	POLR2B	DNA-direct	Mono-methylation	Heavy
IPI003013	Q9NW08	POLR3B	DNA-direct	Mono-methylation	Heavy
IPI001032	Q8WVV4-	POF1B	Isoform 1 c	Mono-methylation	Heavy
IPI004780	Q86UD7-1	TBC1D26	Isoform 1 c	Mono-methylation	Heavy
IPI000690	Q9Y4A5-1	TRRAP	Isoform 1 c	Mono-methylation	Heavy
IPI003052	Q92878-1	RAD50	Isoform 1 c	Mono-methylation	Heavy
IPI007851	B3KVR1;C	SNRPN	cDNA FLJ4	Mono-methylation	Heavy
IPI001415	Q8WTW3	COG1	Conserved	Mono-methylation	Heavy
IPI003988	Q9BQ52-2	ELAC2	Isoform 2 c	Mono-methylation	Heavy
IPI007433	-	-	Similar to E	Mono-methylation	Heavy
IPI000564	Q969Q0	RPL36AL	60S riboso	Mono-methylation	Heavy
IPI000564	Q969Q0	RPL36AL	60S riboso	Mono-methylation	Heavy
IPI000115	O43237	DYNC1LI2	Cytoplasm	Mono-methylation	Heavy
IPI000229	Q8NCY6	KIAA1826	Coiled-coil	Mono-methylation	Heavy
IPI003334	Q2WGJ9	FER1L6	Fer-1-like p	Mono-methylation	Heavy
IPI002934	P37108	SRP14	Signal rec	Mono-methylation	Heavy

IPI003958(	Q16576	RBBP7	Histone-bir	Mono-methylation	Heavy
IPI000151(	P09564	CD7	T-cell antig	Mono-methylation	Heavy
IPI000110(	P31327-1	CPS1	Isoform 1 c	Mono-methylation	Heavy
IPI002916(	Q17RB8-1	LONRF1	Isoform 1 c	Mono-methylation	Heavy
IPI004556	Q6XPR3	RPTN	Repetin	Mono-methylation	Heavy
IPI007848(	Q8IVF4-1	DNAH10	Isoform 1 c	Mono-methylation	Heavy
IPI000235	B4DT67	SPATS2L	cDNA FLJ5	Mono-methylation	Heavy
IPI010212(	F8VTY5	MGAT4C	Uncharacte	Mono-methylation	Heavy
IPI000452	Q96RH9	-	MUSP1	Mono-methylation	Heavy
IPI002971(	O60244	MED14	Mediator o	Di-methylation	Heavy
IPI001674(	Q8N895	ZNF366	Zinc finger	Di-methylation	Heavy
IPI000327(	O95707	POP4	Ribonuclea	Di-methylation	Heavy
IPI001794(	Q8N859	ZNF713	Zinc finger	Di-methylation	Heavy
IPI000144	Q05639	EEF1A2	Elongation	Di-methylation	Heavy
IPI001601	O60494	CUBN	Cubilin	Di-methylation	Heavy
IPI000233	Q92794	KAT6A	Histone ac	Di-methylation	Heavy
IPI001713(	Q9H2A2-1	ALDH8A1	Isoform 2 c	Di-methylation	Heavy
IPI010251	-	-	30 kDa pro	Di-methylation	Heavy
IPI001716	Q71DI3	HIST2H3D	Histone H3	Di-methylation	Heavy
IPI004132	O15131	KPNA5	Importin su	Di-methylation	Heavy
IPI000200	P19622	EN2	Homeobox	Di-methylation	Heavy
IPI009849	E5RIG4	NCALD	Uncharacte	Di-methylation	Heavy
IPI007441	O60239	SH3BP5	SH3 doma	Di-methylation	Heavy
IPI001807	-	-	Similar to E	Di-methylation	Heavy
IPI000138	P23921	RRM1	Ribonucleo	Di-methylation	Heavy
IPI000649	Q8TDX5-2	ACMSD	Isoform 2 c	Di-methylation	Heavy
IPI001807	-	-	Similar to E	Di-methylation	Heavy
IPI001807	-	-	Similar to E	Di-methylation	Heavy
IPI008839	A0AVI2-1	FER1L5	Isoform 1 c	Di-methylation	Heavy
IPI000160	Q14332	FZD2	Frizzled-2	Di-methylation	Heavy
IPI000435	Q96MZ4	C4orf39	Uncharacte	Tri-methylation	Heavy
IPI000230	Q9P2F9	ZNF319	Zinc finger	Tri-methylation	Heavy
IPI000148	Q6V1P9-1	DCHS2	Isoform 1 c	Tri-methylation	Heavy
IPI002955(	O95785-1	WIZ	Isoform 1 c	Tri-methylation	Heavy
IPI001716	Q71DI3	HIST2H3D	H3.2	Tri-methylation	Heavy
IPI002914(	P12236	SLC25A6	ADP/ATP t	Tri-methylation	Heavy
IPI000071	P05141	SLC25A5	ADP/ATP t	Tri-methylation	Heavy
IPI000071	P05141	SLC25A5	ADP/ATP t	Tri-methylation	Heavy
IPI000071	P05141	SLC25A5	ADP/ATP t	Tri-methylation	Heavy
IPI002914(	P12236	SLC25A6	ADP/ATP t	Tri-methylation	Heavy

Table S2: Methylation sites identified in our work. The positions of methylation sites are
the protein sequences in the IPI human database (version 3.87).

Protein IPI Number	Protein Swiss-	Gene Symbol	Protein Name	Methylation P
IPI00000005	P01111	NRAS	GTPase NRas	88
IPI00000051	O60925	PFDN1	Prefoldin subunit 1	28
IPI00000070	P01130	LDLR	Low-density lipoprote	783
IPI00000861	Q14847-1	LASP1	Isoform 1 of LIM and	75
IPI00001714	Q9Y603-1	ETV7	Isoform B of Transcri	310
IPI00001753	Q9Y623	MYH4	Myosin-4	857
IPI00001753	Q9Y623	MYH4	Myosin-4	862
IPI00002127	Q9P2D7-2	DNAH1	Isoform 2 of Dynein h	1164
IPI00002135	Q9Y6A5	TACC3	Transforming acidic c	51
IPI00002135	Q9Y6A5	TACC3	Transforming acidic c	54
IPI00002405	Q9Y6K5	OAS3	2'-5'-oligoadenylate s	958
IPI00002590	Q9Y6T7-1	DGKB	Isoform 1 of Diacylgly	408
IPI00002590	Q9Y6T7-1	DGKB	Isoform 1 of Diacylgly	408
IPI00002853	Q16537	PPP2R5E	Serine/threonine-prot	449
IPI00002901	P28347	TEAD1	Transcriptional enhan	101
IPI00002946	P36383	GJC1	Gap junction gamma	115
IPI00002966	P34932	HSPA4	Heat shock 70 kDa p	557
IPI00002966	P34932	HSPA4	Heat shock 70 kDa p	559
IPI00003269	Q562R1	ACTBL2	Beta-actin-like protei	69
IPI00003935	Q16778	HIST2H2BE	Histone H2B type 2-E	6
IPI00004362	Q86VD1	MORC1	MORC family CW-typ	765
IPI00004671	Q14789	GOLGB1	Golgin subfamily B m	323
IPI00004671	Q14789	GOLGB1	Golgin subfamily B m	332
IPI00004671	Q14789	GOLGB1	Golgin subfamily B m	945
IPI00004671	Q14789	GOLGB1	Golgin subfamily B m	1740
IPI00004963	D6RFZ0	PIEZO2	Uncharacterized prot	446
IPI00005465	Q9H2G4	TSPYL2	Testis-specific Y-enco	407
IPI00005578	Q9H223	EHD4	EH domain-containin	319
IPI00005578	Q9H223	EHD4	EH domain-containin	327
IPI00005578	Q9H223	EHD4	EH domain-containin	330
IPI00005613	Q01081	U2AF1	Splicing factor U2AF	39
IPI00005682	P28845	HSD11B1	Corticosteroid 11-bet	56
IPI00005704	O60284	ST18	Suppression of tumo	38
IPI00006023	Q9UBR5-2	CKLF-CMTM1	Isoform 1 of Chemok	18
IPI00006023	Q9UBR5-2	CKLF-CMTM1	Isoform 1 of Chemok	22
IPI00006099	Q14692	BMS1	Ribosome biogenesis	1144
IPI00006471	Q14680	MELK	Maternal embryonic l	639
IPI00006471	Q14680	MELK	Maternal embryonic l	650
IPI00007188	P05141	SLC25A5	ADP/ATP translocase	52
IPI00007193	Q9UPS8-2	ANKRD26	Isoform 2 of Ankyrin	79
IPI00007928	Q6P2Q9	PRPF8	Pre-mRNA-processin	1516
IPI00007928	Q6P2Q9	PRPF8	Pre-mRNA-processin	1517
IPI00008422	Q9H4L7-2	SMARCAD1	Isoform 2 of SWI/SN	268
IPI00008438	P46783	RPS10	40S ribosomal protei	139
IPI00008575	Q07666-1	KHDRBS1	Isoform 1 of KH dom	194
IPI00008575	Q07666-1	KHDRBS1	Isoform 1 of KH dom	200
IPI00008603	P62736	ACTA2	Actin, aortic smooth	52
IPI00008708	O76021	RSL1D1	Ribosomal L1 domai	116
IPI00008708	O76021	RSL1D1	Ribosomal L1 domai	120

IPI00008708	O76021	RSL1D1	Ribosomal L1 domai	124
IPI00008934	P54868	HMGCS2	Hydroxymethylglutar	276
IPI00009316	Q9UNP9-1	PPIE	Isoform A of Peptidyl	254
IPI00009367	P21549	AGXT	Serine--pyruvate ami	228
IPI00009464	Q01780-1	EXOSC10	Isoform 1 of Exosom	835
IPI00009685	Q7Z5H3-2	ARHGAP22	Isoform 2 of Rho GTI	664
IPI00009736	P48443	RXRG	Retinoic acid recepto	10
IPI00009790	Q01813	PFKP	6-phosphofructokinas	109
IPI00009802	P13611-1	VCAN	Isoform V0 of Versica	2238
IPI00010069	Q9BRR0	ZKSCAN3	Zinc finger protein wi	82
IPI00010158	Q9NRG0	CHRAC1	Chromatin accessibil	105
IPI00010158	Q9NRG0	CHRAC1	Chromatin accessibil	108
IPI00010208	Q9NPI7	KRCC1	Lysine-rich coiled-coi	237
IPI00010270	P15153	RAC2	Ras-related C3 botul	123
IPI00010270	P15153	RAC2	Ras-related C3 botul	130
IPI00010368	O00139-1	KIF2A	Uncharacterized prot	141
IPI00010368	O00139-1	KIF2A	Uncharacterized prot	149
IPI00010590	Q9NRZ9-1	HELLS	Isoform 1 of Lymphoi	569
IPI00010604	Q9P212-1	PLCE1	Isoform 1 of 1-phosp	1541
IPI00010604	Q9P212-1	PLCE1	Isoform 1 of 1-phosp	1555
IPI00010851	P21854	CD72	B-cell differentiation a	196
IPI00011062	P31327-1	CPS1	Isoform 1 of Carbam	772
IPI00011274	O14979-1	HNRPDL	Isoform 1 of Heterog	161
IPI00011592	O43237	DYNC1LI2	Cytoplasmic dynein 1	55
IPI00011644	P23469-1	PTPRE	Receptor-type tyrosin	237
IPI00011644	P23469-1	PTPRE	Receptor-type tyrosin	248
IPI00011933	O43303-1	CCP110	Isoform 1 of Centriola	821
IPI00011957	P23508-1	MCC	Isoform 1 of Colorect	260
IPI00012074	O43390-1	HNRNPR	Isoform 1 of Heterog	235
IPI00012322	Q13237	PRKG2	cGMP-dependent pro	521
IPI00012331	Q9UPQ4-1	TRIM35	Isoform 1 of Tripartite	138
IPI00012442	Q13283	G3BP1	Ras GTPase-activati	5
IPI00012493	P60866	SNORD54	40S ribosomal protei	8
IPI00012851	O43520	ATP8B1	Probable phospholip	60
IPI00012868	B9ZVW1	ZNF211	zinc finger protein 21	361
IPI00012913	B2R9J9	SPRY2	Uncharacterized prot	78
IPI00013164	P41219-1	PRPH	Isoform 1 of Peripher	98
IPI00013449	O43657	TSPAN6	Tetraspanin-6	123
IPI00013871	P23921	RRM1	Ribonucleoside-diph	320
IPI00014255	Q15051-1	IQCB1	Isoform 1 of IQ calm	331
IPI00014424	Q05639	EEF1A2	Elongation factor 1-a	55
IPI00014424	Q05639	EEF1A2	Elongation factor 1-a	79
IPI00014424	Q05639	EEF1A2	Elongation factor 1-a	79
IPI00014424	Q05639	EEF1A2	Elongation factor 1-a	84
IPI00014424	Q05639	EEF1A2	Elongation factor 1-a	165
IPI00014829	Q6V1P9-1	DCHS2	Isoform 1 of Protoca	2747
IPI00015199	P09564	CD7	T-cell antigen CD7	214
IPI00015444	Q6UY01-2	LRRC31	Isoform 2 of Leucine-	455
IPI00015963	O75762	TRPA1	Transient receptor po	503
IPI00015963	O75762	TRPA1	Transient receptor po	504
IPI00016027	Q14332	FZD2	Frizzled-2	446
IPI00016814	Q9BS34	ZNF670	Zinc finger protein 67	204

IPI00017334	P35232	PHB	Prohibitin	4
IPI00017334	P35232	PHB	Prohibitin	11
IPI00017580	O60870	KIN	DNA/RNA-binding pr	302
IPI00017580	O60870	KIN	DNA/RNA-binding pr	306
IPI00017619	Q9UL16	CCDC19	Coiled-coil domain-c	431
IPI00017669	Q969G3-1	SMARCE1	Isoform 1 of SWI/SN	3
IPI00017745	Q99727	TIMP4	Metalloproteinase inh	86
IPI00018140	O60506-1	SYNCRIP	Isoform 1 of Heterog	213
IPI00018152	Q15559	NONO	clone tec14 (Fragme	28
IPI00018152	Q15559	NONO	clone tec14 (Fragme	29
IPI00018152	Q15559	NONO	clone tec14 (Fragme	29
IPI00018294	Q13129	RLF	Zinc finger protein Rl	1470
IPI00018321	Q15047-1	SETDB1	Isoform 1 of Histone-	490
IPI00018335	P17948-1	FLT1	Isoform Flt1 of Vascu	1153
IPI00018798	Q9NVM6	DNAJC17	DnaJ homolog subfa	5
IPI00018798	Q9NVM6	DNAJC17	DnaJ homolog subfa	25
IPI00018808	Q9HCM1	C12orf35	Uncharacterized prot	1429
IPI00019223	Q99996-1	AKAP9	Isoform 1 of A-kinase	9
IPI00019329	P63167	DYNLL1	Dynein light chain 1,	49
IPI00019439	P35556-1	FBN2	Isoform 1 of Fibrillin-2	2861
IPI00019439	P35556-1	FBN2	Isoform 1 of Fibrillin-2	2879
IPI00019502	P35579-1	MYH9	Isoform 1 of Myosin-9	8
IPI00020031	P19622	EN2	Homeobox protein en	245
IPI00020088	Q9NPH9	IL26	Interleukin-26	62
IPI00020557	Q07954	LRP1	Prolow-density lipopr	458
IPI00020755	Q9P1N6	C14orf91	Putative uncharacter	51
IPI00020900	P51814-1	ZNF41	Isoform 1 of Zinc fing	656
IPI00021076	Q99569-1	PKP4	Plakophilin-4	982
IPI00021263	P63104	YWHAZ	2014-3-3 protein zeta	212
IPI00021391	Q92478	CLEC2B	C-type lectin domain	146
IPI00021431	P10589	NR2F1	COUP transcription f	148
IPI00021439	P60709	ACTB	Actin, cytoplasmic 1	68
IPI00021780	P10600	TGFB3	Transforming growth	162
IPI00021812	Q09666	AHNAK	Neuroblast differentia	2257
IPI00021812	Q09666	AHNAK	Neuroblast differentia	4074
IPI00021812	Q09666	AHNAK	Neuroblast differentia	4128
IPI00021812	Q09666	AHNAK	Neuroblast differentia	4139
IPI00021812	Q09666	AHNAK	Neuroblast differentia	4592
IPI00021812	Q09666	AHNAK	Neuroblast differentia	4603
IPI00021998	O95256	IL18RAP	Interleukin-18 recept	554
IPI00022225	Q8WUQ7-2	C19orf29	Isoform 2 of Unchara	151
IPI00022225	Q8WUQ7-2	C19orf29	Isoform 2 of Unchara	158
IPI00022228	Q00341	HDLBP	Vigilin	892
IPI00022337	P10745	RBP3	Retinol-binding prote	1070
IPI00022652	Q9UH03-3	3-Sep	Isoform 3 of Neurona	30
IPI00022933	P04233-1	CD74	Isoform 1 of HLA clas	96
IPI00022933	P04233-1	CD74	Isoform 1 of HLA clas	99
IPI00022967	Q8NCY6	KIAA1826	Coiled-coil domain-c	90
IPI00022967	Q8NCY6	KIAA1826	Coiled-coil domain-c	114
IPI00022967	Q8NCY6	KIAA1826	Coiled-coil domain-c	297
IPI00023084	Q9P2F9	ZNF319	Zinc finger protein 31	496
IPI00023149	O14662-1	STX16-NPEPL1	Isoform B of Syntaxin	97

IPI00023186	O75674	TOM1L1	TOM1-like protein 1	298
IPI00023217	Q92736-1	RYR2	Isoform 1 of Ryanodi	2136
IPI00023217	Q92736-1	RYR2	Isoform 1 of Ryanodi	2140
IPI00023234	Q9UBT2	UBA2	SUMO-activating enz	271
IPI00023283	Q8WZ42-2	TTN	Isoform 2 of Titin	27939
IPI00023283	Q8WZ42-2	TTN	Isoform 2 of Titin	27942
IPI00023340	Q92794	KAT6A	Histone acetyltransfe	1330
IPI00023532	B4DT67	SPATS2L	cDNA FLJ59751, we	375
IPI00023625	P63215	GNG3	Guanine nucleotide-b	24
IPI00024157	Q00688	FKBP3	Peptidyl-prolyl cis-tra	187
IPI00024368	O75110-1	ATP9A	Isoform Long of Prob	14
IPI00024650	P53985	SLC16A1	Monocarboxylate tra	494
IPI00025864	P06276	BCHE	Butyrylcholinesterase	477
IPI00025864	P06276	BCHE	Butyrylcholinesterase	496
IPI00025890	Q14CX7-1	NAA25	Isoform 1 of N-alpha-	219
IPI00026230	P55795	HNRNPH2	Heterogeneous nucle	98
IPI00026606	O75683	SURF6	Surfeit locus protein	149
IPI00027434	P08134	RHOC	Rho-related GTP-bin	119
IPI00027681	P40261	NNMT	Nicotinamide N-meth	8
IPI00027725	P49662	CASP4	Caspase-4	49
IPI00027725	P49662	CASP4	Caspase-4	53
IPI00027808	P30876	POLR2B	DNA-directed RNA p	1052
IPI00028213	O95025	SEMA3D	Semaphorin-3D	758
IPI00028213	O95025	SEMA3D	Semaphorin-3D	759
IPI00028564	P32455	GBP1	Interferon-induced gu	544
IPI00028579	P49848-1	TAF6	Isoform 1 of Transcri	287
IPI00028928	Q14123-1	PDE1C	Isoform PDE1C2 of	695
IPI00029012	Q14152	EIF3A	Eukaryotic translatior	632
IPI00029012	Q14152	EIF3A	Eukaryotic translatior	633
IPI00029012	Q14152	EIF3A	Eukaryotic translatior	634
IPI00029050	O95461-1	LARGE	Isoform 1 of Glycosy	728
IPI00029768	Q12879	GRIN2A	Glutamate [NMDA] re	880
IPI00030098	Q14320	FAM50A	Protein FAM50A	95
IPI00030397	Q12981-1	BNIP1	Isoform 3 of Vesicle t	48
IPI00030397	Q12981-1	BNIP1	Isoform 3 of Vesicle t	50
IPI00031521	P40938	RFC3	Replication factor C s	7
IPI00031534	Q9NSC7	ST6GALNAC1	Alpha-N-acetylgalact	227
IPI00032162	Q08050-1	FOXM1	Isoform 1 of Forkhea	278
IPI00032162	Q08050-1	FOXM1	Isoform 1 of Forkhea	282
IPI00032791	O95707	POP4	Ribonuclease P prote	36
IPI00032956	Q9NQZ6-1	ZC4H2	Isoform 1 of Zinc fing	20
IPI00032956	Q9NQZ6-1	ZC4H2	Isoform 1 of Zinc fing	28
IPI00034006	Q9H3S7	PTPN23	Tyrosine-protein pho	608
IPI00034006	Q9H3S7	PTPN23	Tyrosine-protein pho	613
IPI00034201	Q9C0B7	TMCO7	Transmembrane and	63
IPI00036578	P58397-1	ADAMTS12	Isoform 1 of A disinte	536
IPI00043543	Q96MZ4	C4orf39	Uncharacterized prot	32
IPI00043740	Q96NL6-1	SCLT1	Isoform 1 of Sodium	445
IPI00043978	Q8TEW8-1	PARD3B	Isoform 1 of Partition	869
IPI00043978	Q8TEW8-1	PARD3B	Isoform 1 of Partition	870
IPI00044214	P16471-4	PRLR	Isoform 4 of Prolactin	357
IPI00044214	P16471-4	PRLR	Isoform 4 of Prolactin	369

IPI00044748	Q96PY5-3	FMNL2	Similar to FMNL2	453
IPI00044748	Q96PY5-3	FMNL2	Similar to FMNL2	456
IPI00044748	Q96PY5-3	FMNL2	Similar to FMNL2	458
IPI00045279	Q96RH9	-	MUSP1	75
IPI00046057	P61764-2	STXBP1	Isoform 2 of Syntaxir	321
IPI00056494	Q969Q0	RPL36AL	60S ribosomal protei	53
IPI00059955	Q6UX07-1	DHRS13	Isoform 1 of Dehydrc	50
IPI00064913	Q8TDX5-2	ACMSD	Isoform 2 of 2-amino	198
IPI00065918	Q96P56-1	CATSPER2	Isoform 1 of Cation c	54
IPI00069084	Q9Y4A5-1	TRRAP	Isoform 1 of Transfor	1691
IPI00069084	Q9Y4A5-1	TRRAP	Isoform 1 of Transfor	2405
IPI00069524	Q96BT1	C3orf49	Putative uncharacter	97
IPI00101923	Q96JI7-1	SPG11	Isoform 1 of Spatacs	2182
IPI00101927	Q9BRK4	LZTS2	Leucine zipper putati	607
IPI00102377	Q96NW4	ANKRD27	Ankyrin repeat doma	626
IPI00103242	Q8WVV4-1	POF1B	Isoform 1 of Protein I	138
IPI00103597	Q8WY21-1	SORCS1	Isoform 1 of VPS10 d	700
IPI00103597	Q8WY21-1	SORCS1	Isoform 1 of VPS10 d	702
IPI00105638	Q6ZN57	ZFP2	Zinc finger protein 2	299
IPI00107486	O96028-3	WHSC1	Isoform 3 of Probable	443
IPI00141561	Q8WTW3	COG1	Conserved oligomeri	377
IPI00142538	Q7Z333-1	SETX	Isoform 1 of Probable	2027
IPI00142716	Q5F1R6-1	DNAJC21	Isoform 1 of DnaJ ho	2
IPI00148768	Q9H2D6-5	TRIOBP	TRIO and F-actin-bin	476
IPI00151141	Q96J92-1	WNK4	Isoform 1 of Serine/th	226
IPI00151170	P33981	TTK	Dual specificity prote	19
IPI00151366	Q9BX84-1	TRPM6	Isoform TRPM6a of T	14
IPI00157556	Q6UXI9-2	NPNT	Isoform 2 of Nephror	96
IPI00158157	Q12986-2	NFX1	Isoform 2 of Transcri	292
IPI00160130	O60494	CUBN	Cubilin	1909
IPI00163659	Q8NG31-3	CASC5	Isoform 3 of Protein C	1644
IPI00164066	Q96JN2-4	CCDC136	Isoform 4 of Coiled-c	520
IPI00164930	Q2M389-2	KIAA1033	Isoform 2 of WASH c	29
IPI00164930	Q2M389-2	KIAA1033	Isoform 2 of WASH c	33
IPI00165454	Q8WVS4	WDR60	WD repeat-containin	487
IPI00166974	Q9NZN9-3	AIPL1	Isoform 3 of Aryl-hyd	236
IPI00167408	Q8N895	ZNF366	Zinc finger protein 36	316
IPI00168165	E7ERI8	CLASP2	Uncharacterized prot	1297
IPI00168347	Q96CP6-3	GRAMD1A	Isoform 3 of GRAM c	535
IPI00168347	Q96CP6-3	GRAMD1A	Isoform 3 of GRAM c	543
IPI00168931	Q6IEX5	OR4H12P	Uncharacterized prot	283
IPI00168931	Q6IEX5	OR4H12P	Uncharacterized prot	287
IPI00171123	Q8WUU5	GATAD1	GATA zinc finger dom	6
IPI00171123	Q8WUU5	GATAD1	GATA zinc finger dom	21
IPI00171137	Q6ZW31-2	SYDE1	Isoform 2 of Rho GTI	105
IPI00171391	Q9H2A2-1	ALDH8A1	Isoform 2 of Aldehyd	437
IPI00171438	Q8NBS9	TXNDC5	Thioredoxin domain-	221
IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	28
IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	28
IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	28
IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	37
IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	37

IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	38
IPI00171611	Q71DI3	HIST2H3D	Histone H3.2	38
IPI00171636	Q8NEY1-1	NAV1	Isoform 1 of Neuron	1317
IPI00171636	Q8NEY1-1	NAV1	Isoform 1 of Neuron	1320
IPI00171768	Q8NI77	KIF18A	Kinesin-like protein K	517
IPI00171768	Q8NI77	KIF18A	Kinesin-like protein K	534
IPI00173346	Q6PCE3	PGM2L1	Glucose 1,6-bisphos	501
IPI00174391	B4DYI2	FAM75C2	hypothetical protein L	863
IPI00174885	O75290-1	ZNF780A	Isoform 1 of Zinc fing	521
IPI00174885	O75290-1	ZNF780A	Isoform 1 of Zinc fing	527
IPI00177888	Q96PV6-1	LENG8	Uncharacterized prot	248
IPI00177888	Q96PV6-1	LENG8	Uncharacterized prot	257
IPI00178151	B1AMR4	ARHGEF9	Uncharacterized prot	129
IPI00178431	P46063	RECQL	ATP-dependent DNA	88
IPI00178431	P46063	RECQL	ATP-dependent DNA	91
IPI00178431	P46063	RECQL	ATP-dependent DNA	487
IPI00179019	Q9NZE8-1	MRPL35	Isoform 1 of 39S ribo	160
IPI00179405	Q8N859	ZNF713	Zinc finger protein 71	411
IPI00179751	Q6W3E5-1	GDPD4	Isoform 1 of Glycerop	296
IPI00179751	Q6W3E5-1	GDPD4	Isoform 1 of Glycerop	303
IPI00180730	-	-	Similar to Elongation	55
IPI00180730	-	-	Similar to Elongation	79
IPI00180730	-	-	Similar to Elongation	79
IPI00180730	-	-	Similar to Elongation	165
IPI00180764	O95251	KAT7	Histone acetyltransfe	376
IPI00181135	B3KSI3	BCAT2	Branched-chain-amir	4
IPI00181997	Q6P1Q9-2	METTL2B	Isoform 2 of Methyltr	48
IPI00185661	Q8NFA0	USP32	Ubiquitin carboxyl-ter	274
IPI00215715	Q9UQM7-1	CAMK2A	Isoform A of Calcium	258
IPI00215777	Q00325-2	SLC25A3	Isoform B of Phospha	89
IPI00215965	P09651-1	HNRNPA1	Isoform A1-B of Hete	161
IPI00216890	Q8IUW5	RELL1	RELT-like protein 1	240
IPI00217013	Q6IN85-1	SMEK1	Isoform 1 of Serine/th	655
IPI00217146	Q8IW52	SLITRK4	SLIT and NTRK-like	792
IPI00217146	Q8IW52	SLITRK4	SLIT and NTRK-like	801
IPI00217343	Q8IX05	CD302	CD302 antigen	140
IPI00217992	Q03001-3	DST	Isoform 3 of Dystonin	1554
IPI00218192	Q14624-2	ITIH4	Isoform 2 of Inter-alp	815
IPI00218192	Q14624-2	ITIH4	Isoform 2 of Inter-alp	826
IPI00218725	-	LAMA2	laminin subunit alpha	1943
IPI00218730	P16499	PDE6A	Rod cGMP-specific 3	84
IPI00218823	Q9UMN6-1	MLL4	Isoform 1 of Histone-	1866
IPI00219038	P84243	H3F3A	Histone H3.3	28
IPI00219038	P84243	H3F3A	Histone H3.3	28
IPI00219038	P84243	H3F3A	Histone H3.3	37
IPI00219335	Q92901	RPL3L	60S ribosomal protei	250
IPI00219689	Q9UKW4-2	VAV3	Isoform 2 of Guanine	641
IPI00219689	Q9UKW4-2	VAV3	Isoform 2 of Guanine	643
IPI00220272	Q13061	TRDN	Triadin	625
IPI00220396	Q16816	PHKG1	PHKG1 protein	307
IPI00220644	P14618-2	PKM2	Isoform M1 of Pyruva	3
IPI00221209	P32856-2	STX2	Isoform 1 of Syntaxin	55

IPI00221209	P32856-2	STX2	Isoform 1 of Syntaxir	71
IPI00221209	P32856-2	STX2	Isoform 1 of Syntaxir	125
IPI00234154	A6NEL2	ANKRD56	Ankyrin repeat doma	434
IPI00235842	Q8TF39	ZNF483	Zinc finger protein 48	336
IPI00235842	Q8TF39	ZNF483	Zinc finger protein 48	337
IPI00235842	Q8TF39	ZNF483	Zinc finger protein 48	350
IPI00235842	Q8TF39	ZNF483	Zinc finger protein 48	352
IPI00247295	Q8NF91-4	SYNE1	Isoform 4 of Nesprin-	4262
IPI00248651	O60673-1	REV3L	Isoform 1 of DNA pol	2868
IPI00256861	Q9UPN3-2	MACF1	Isoform 2 of Microtub	4202
IPI00289034	Q8TEK3-1	DOT1L	Isoform 2 of Histone-	1359
IPI00290856	Q9Y5Y7	LYVE1	Lymphatic vessel en	298
IPI00291215	Q460N5-6	PARP14	Isoform 6 of Poly [AD	399
IPI00291278	Q8TCB0	IFI44	Interferon-induced pr	443
IPI00291467	P12236	SLC25A6	ADP/ATP translocase	52
IPI00291662	Q17RB8-1	LONRF1	Isoform 1 of LON pep	203
IPI00291796	Q8IY92-1	SLX4	Isoform 1 of Structur	404
IPI00291796	Q8IY92-1	SLX4	Isoform 1 of Structur	405
IPI00292326	Q07617	SPAG1	Sperm-associated ar	705
IPI00292326	Q07617	SPAG1	Sperm-associated ar	709
IPI00292975	Q9P2N5	RBM27	RNA-binding protein	734
IPI00293434	P37108	SRP14	Signal recognition pa	105
IPI00293434	P37108	SRP14	Signal recognition pa	107
IPI00293845	Q5UIP0-1	RIF1	Isoform 1 of Telomer	519
IPI00293845	Q5UIP0-1	RIF1	Isoform 1 of Telomer	521
IPI00293845	Q5UIP0-1	RIF1	Isoform 1 of Telomer	2367
IPI00293867	P30046	DDT	D-dopachrome decar	110
IPI00293946	Q92575	UBXN4	UBX domain-contain	301
IPI00293963	Q9Y232-1	CDYL	Isoform 1 of Chromo	157
IPI00294680	Q9Y448-1	C15orf23	Isoform 1 of Putative	268
IPI00295022	P30414	NKTR	NK-tumor recognition	637
IPI00295022	P30414	NKTR	NK-tumor recognition	639
IPI00295502	O95785-1	WIZ	Isoform 1 of Protein W	1112
IPI00295502	O95785-1	WIZ	Isoform 1 of Protein W	1162
IPI00297191	O60244	MED14	Mediator of RNA poly	399
IPI00297407	Q5BKX6-3	SLC45A4	Isoform 3 of Solute c	745
IPI00297407	Q5BKX6-3	SLC45A4	Isoform 3 of Solute c	746
IPI00297477	P09661	SNRPA1	U2 small nuclear ribo	172
IPI00297859	O14686-1	MLL2	Isoform 1 of Histone-	5024
IPI00298007	Q8N884-1	MB21D1	Isoform 1 of Protein M	301
IPI00298285	P21860-1	ERBB3	Isoform 1 of Recepto	736
IPI00298306	Q13315	ATM	Serine-protein kinase	2643
IPI00298738	O00411	POLRMT	Similar to DNA-direct	43
IPI00299679	Q9NZL6-2	RGL1	Isoform B of Ral gua	17
IPI00299679	Q9NZL6-2	RGL1	Isoform B of Ral gua	21
IPI00300078	Q15269	PWP2	Periodic tryptophan p	691
IPI00300504	Q9HAU5-1	UPF2	Isoform 1 of Regulate	58
IPI00301283	Q9UKB1-3	FBXW11	Isoform B of F-box/W	166
IPI00301346	Q9NW08	POLR3B	DNA-directed RNA p	1013
IPI00303335	P20929	NEB	Nebulin	4535
IPI00303335	P20929	NEB	Nebulin	4541
IPI00303832	Q92541	RTF1	RNA polymerase-ass	44

IPI00304621	Q9C0D4	ZNF518B	Zinc finger protein 51	282
IPI00305282	Q92878-1	RAD50	Isoform 1 of DNA rep	20
IPI00305822	Q96HE9	PRR11	Proline-rich protein 1	212
IPI00305822	Q96HE9	PRR11	Proline-rich protein 1	220
IPI00306446	P17028-1	ZNF24	Isoform 1 of Zinc fing	361
IPI00306853	Q7LGC8	CHST3	Carbohydrate sulfotra	273
IPI00307317	Q32M84-2	BTBD16	Isoform 2 of BTB/PO	289
IPI00329306	Q7RTS7	KRT74	Keratin, type II cytosl	145
IPI00329497	O95803-1	NDST3	Isoform 1 of Bifunctio	123
IPI00329497	O95803-1	NDST3	Isoform 1 of Bifunctio	125
IPI00329536	Q15075	EEA1	Early endosome anti	848
IPI00333405	Q2WGJ9	FER1L6	Fer-1-like protein 6	130
IPI00334336	A6NCS9	SDCCAG8	Uncharacterized prot	250
IPI00334336	A6NCS9	SDCCAG8	Uncharacterized prot	254
IPI00335581	Q6ZT12-1	UBR3	Isoform 1 of E3 ubiqu	1424
IPI00337642	Q5VZI3-3	C9orf91	Isoform 3 of Transme	159
IPI00339269	P17066	HSPA6	Heat shock 70 kDa p	142
IPI00373926	Q8NA69	C19orf45	Uncharacterized prot	226
IPI00375294	P25391	LAMA1	Laminin subunit alph	2479
IPI00375560	Q7Z570	ZNF804A	Zinc finger protein 80	772
IPI00376874	Q8N5R6-1	CCDC33	Uncharacterized prot	369
IPI00376955	Q00537	CDK17	Cyclin-dependent kin	328
IPI00382470	P07900-2	HSP90AA1	Isoform 2 of Heat sho	635
IPI00382470	P07900-2	HSP90AA1	Isoform 2 of Heat sho	737
IPI00382557	Q96P23	PNKD	Myofibrillogenesis re	99
IPI00383105	Q3L8U1-1	CHD9	Isoform 1 of Chromo	738
IPI00383888	Q5T1A1-2	DCST2	Isoform 2 of DC-STA	3
IPI00383888	Q5T1A1-2	DCST2	Isoform 2 of DC-STA	6
IPI00384419	Q8NDG6-1	TDRD9	Isoform 1 of Putative	1168
IPI00384444	P02533	KRT14	Keratin, type I cytosk	243
IPI00384668	Q5XXA6-3	ANO1	Isoform 3 of Anoctam	76
IPI00385065	Q8N8E3-1	CEP112	Isoform 1 of Centros	717
IPI00386527	Q9H2L5-2	RASSF4	Isoform 2 of Ras ass	241
IPI00386936	Q96KP6	TNIP3	TNFAIP3-interacting	39
IPI00394847	Q2TAL5-1	SMTNL2	Isoform 1 of Smoothe	354
IPI00395865	Q16576	RBBP7	Histone-binding prote	159
IPI00397930	Q9HCK1	ZDBF2	DBF4-type zinc finge	1957
IPI00398795	O95197-2	RTN3	Isoform 2 of Reticulo	521
IPI00398822	Q9BQ52-2	ELAC2	Isoform 2 of Zinc pho	5
IPI00398822	Q9BQ52-2	ELAC2	Isoform 2 of Zinc pho	7
IPI00400860	Q6PKX4	DOK6	Docking protein 6	58
IPI00401800	Q8TD10-3	MIPOL1	Isoform 3 of Mirror-in	147
IPI00401800	Q8TD10-3	MIPOL1	Isoform 3 of Mirror-in	153
IPI00401870	Q9H8M5-3	CNNM2	Isoform 3 of Metal tra	540
IPI00401870	Q9H8M5-3	CNNM2	Isoform 3 of Metal tra	545
IPI00410277	O95319-3	CELF2	Isoform 3 of CUGBP	136
IPI00410687	Q8IUH5-1	ZDHHC17	Isoform 1 of Palmitoy	296
IPI00410687	Q8IUH5-1	ZDHHC17	Isoform 1 of Palmitoy	299
IPI00411425	Q49MI3-2	CERKL	Isoform 2 of Ceramid	249
IPI00411797	Q075Z2	BSPH1	Bovine seminal plasm	120
IPI00411937	O00567	SNORD110	Nucleolar protein 56	478
IPI00411937	O00567	SNORD110	Nucleolar protein 56	480

IPI00412740	Q6ZN16-1	MAP3K15	Isoform 1 of Mitogen-	751
IPI00413144	Q7Z2Z1-2	C15orf42	Isoform 2 of Treslin	711
IPI00413144	Q7Z2Z1-2	C15orf42	Isoform 2 of Treslin	714
IPI00413214	O15131	KPNA5	Importin subunit alph	113
IPI00430472	Q8N3C0	ASCC3	Activating signal coir	1609
IPI00431197	B5A981	AGER	Uncharacterized prot	150
IPI00438705	Q9UIS9-5	MBD1	Isoform 5 of Methyl-C	172
IPI00442347	Q6ZNJ8	BRAT1	FLJ00321 protein (Fr	92
IPI00448465	Q6UB98-1	ANKRD12	Isoform 1 of Ankyrin	928
IPI00453473	P62805	HIST2H4B	Histone H4	21
IPI00453473	P62805	HIST2H4B	Histone H4	21
IPI00453473	P62805	HIST2H4B	Histone H4	21
IPI00455519	Q6ICM0	FLJ20464	Em:AC005003.4 prot	50
IPI00455626	Q6XPR3	RPTN	Repetin	233
IPI00456628	Q6F5E8	RLTPR	Leucine-rich repeat-c	126
IPI00456744	Q9Y3L3-1	SH3BP1	Isoform 1 of SH3 dor	3
IPI00465429	Q96T51-2	RUFY1	Isoform 2 of RUN an	117
IPI00465429	Q96T51-2	RUFY1	Isoform 2 of RUN an	447
IPI00465439	P04075	ALDOA	Fructose-bisphospha	294
IPI00470603	A6NL08	OR6C75	Olfactory receptor 6C	296
IPI00470603	A6NL08	OR6C75	Olfactory receptor 6C	300
IPI00473113	Q9Y2A4	ZNF443	cDNA FLJ12963 fis,	539
IPI00478049	Q86UD7-1	TBC1D26	Isoform 1 of TBC1 do	92
IPI00478060	Q8N7B6-2	PACRGL	Isoform 2 of PACRG-	210
IPI00478060	Q8N7B6-2	PACRGL	Isoform 2 of PACRG-	212
IPI00478371	Q96JN0-1	LCOR	Isoform 1 of Ligand-c	400
IPI00478371	Q96JN0-1	LCOR	Isoform 1 of Ligand-c	402
IPI00514054	Q5SY13	C9orf104	Uncharacterized prot	7
IPI00549762	Q9H9Q4-1	NHEJ1	Isoform 1 of Non-hor	288
IPI00549766	Q5VSL9-1	FAM40A	Isoform 1 of Protein I	722
IPI00549783	Q8IVI9-1	NOSTRIN	Isoform 1 of Nostrin	113
IPI00550026	Q9HC44	GPBP1L1	Vasculin-like protein	199
IPI00550026	Q9HC44	GPBP1L1	Vasculin-like protein	200
IPI00550026	Q9HC44	GPBP1L1	Vasculin-like protein	203
IPI00552569	Q2NKX8	ERCC6L	DNA excision repair p	48
IPI00552569	Q2NKX8	ERCC6L	DNA excision repair p	55
IPI00552710	E7EMB7	IPO11	Putative uncharacter	157
IPI00555565	Q58FF6	HSP90AB4P	Putative heat shock p	414
IPI00555890	Q59GC3	ANKRD11	Ankyrin repeat doma	172
IPI00555890	Q59GC3	ANKRD11	Ankyrin repeat doma	174
IPI00556231	-	LOC644936	Actin/actin-like family	174
IPI00640697	Q96GZ6-6	SLC41A3	Isoform 6 of Solute c	212
IPI00640697	Q96GZ6-6	SLC41A3	Isoform 6 of Solute c	224
IPI00643465	O95359-4	TACC2	Isoform 4 of Transfor	1339
IPI00643465	O95359-4	TACC2	Isoform 4 of Transfor	1346
IPI00643605	Q4V308	LOC644249	Uncharacterized prot	87
IPI00644680	Q96JG9	ZNF469	Zinc finger protein 46	3673
IPI00645386	E7EQ84	ASPM	Uncharacterized prot	246
IPI00645435	Q5JR59-3	MTUS2	Isoform 2 of Microtub	54
IPI00651691	Q9P225-2	DNAH2	Isoform 2 of Dynein h	698
IPI00742682	P12270	TPR	Nucleoprotein TPR	117
IPI00742682	P12270	TPR	Nucleoprotein TPR	124

IPI00742682	P12270	TPR	Nucleoprotein TPR	1326
IPI00743301	-	-	Similar to Beta-Ala-H	24
IPI00743955	Q8TCY9-3	URGCP	up-regulated gene 4	328
IPI00744182	O60239	SH3BP5	SH3 domain-binding	240
IPI00744711	Q8TCS8	PNPT1	Polyribonucleotide nu	569
IPI00782966	Q9H2Y7	ZFP106	Zinc finger protein 10	574
IPI00783112	Q8NHS4-1	C2orf63	Isoform 1 of Unchara	21
IPI00783112	Q8NHS4-1	C2orf63	Isoform 1 of Unchara	150
IPI00783185	Q8NCX0-1	CCDC150	Isoform 1 of Coiled-c	212
IPI00784140	Q32VQ0	GPCRLTM7	Putative olfactory rec	256
IPI00784154	P10809	HSPD1	60 kDa heat shock p	516
IPI00784201	-	CEP290	291 kDa protein	1918
IPI00784201	-	CEP290	291 kDa protein	1923
IPI00784869	Q8IVF4-1	DNAH10	Isoform 1 of Dynein h	385
IPI00785142	B3KVR1	SNRPN	cDNA FLJ41124 fis, (	9
IPI00785142	B3KVR1	SNRPN	cDNA FLJ41124 fis, (	12
IPI00788750	B4DYR8	ZBTB38	cDNA FLJ56473, hig	1083
IPI00790221	Q9UFE4-1	CCDC39	Isoform 1 of Coiled-c	743
IPI00792792	Q8N2S1-3	LTBP4	Isoform 3 of Latent-tr	5
IPI00797837	B4DIA2	CCHCR1	cDNA FLJ54473, hig	680
IPI00827576	A2N0S5	-	VH6DJ protein (Frag	60
IPI00847543	O15050	TRANK1	TPR and ankyrin rep	312
IPI00847543	O15050	TRANK1	TPR and ankyrin rep	2246
IPI00852749	Q92623	TTC9	Tetratricopeptide rep	165
IPI00852806	Q9Y2D4-1	EXOC6B	Isoform 1 of Exocyst	189
IPI00853314	A5XEK0	ANK2	Uncharacterized prot	122
IPI00855732	Q86V40-2	C2orf89	Isoform 2 of UPF063	181
IPI00872208	O15417-1	TNRC18	Isoform 1 of Trinucle	2896
IPI00872996	A8MX80	LOC100129307	Putative UPF0607 pr	73
IPI00873849	Q08116-1	RGS1	Isoform 1 of Regulat	13
IPI00873849	Q08116-1	RGS1	Isoform 1 of Regulat	24
IPI00873849	Q08116-1	RGS1	Isoform 1 of Regulat	164
IPI00883989	A0AVI2-1	FER1L5	Isoform 1 of Fer-1-lik	1284
IPI00885067	Q9H5L6	THAP9	THAP domain-contai	667
IPI00888430	Q9UFH2-1	DNAH17	Isoform 1 of Dynein h	3579
IPI00895883	B0I1T2-3	MYO1G	Isoform 3 of Myosin-I	518
IPI00896427	Q5T0Z8-1	C6orf132	Isoform 1 of Unchara	583
IPI00903140	B3KT78	ANKRD13A	cDNA FLJ37811 fis, (	24
IPI00908414	B4DHB9	CIAPIN1	cDNA FLJ58887, hig	163
IPI00908414	B4DHB9	CIAPIN1	cDNA FLJ58887, hig	180
IPI00909755	B4E0D9	ZNF434	cDNA FLJ56278, hig	170
IPI00909755	B4E0D9	ZNF434	cDNA FLJ56278, hig	191
IPI00910161	B4DYU8	C4orf21	cDNA FLJ52091	864
IPI00910161	B4DYU8	C4orf21	cDNA FLJ52091	866
IPI00910186	B4DXM8	PIK3R3	cDNA FLJ60942, hig	328
IPI00910186	B4DXM8	PIK3R3	cDNA FLJ60942, hig	329
IPI00910799	B4DSQ4	SUGP2	cDNA FLJ55365, hig	402
IPI00915941	E7ESH4	HSPD1	Uncharacterized prot	233
IPI00921171	-	ATP2B3	Similar to Plasma me	72
IPI00921171	-	ATP2B3	Similar to Plasma me	79
IPI00922130	B7Z8M0	CBWD1	cDNA FLJ50340, hig	204
IPI00922181	B7Z8Z6	MCM2	cDNA FLJ53276, mo	457

IPI00922411	Q8WUV3	PRMT3	protein arginine N-m	4
IPI00926254	E7EV03	MAP2	Uncharacterized prot	226
IPI00926507	F8WEA2	TXNDC3	Uncharacterized prot	26
IPI00930240	-	LOC400986	ankyrin repeat doma	911
IPI00930240	-	LOC400986	ankyrin repeat doma	1081
IPI00939720	Q9NR09	BIRC6	Baculoviral IAP repe	3675
IPI00941732	Q14241	TCEB3	Transcription elongat	38
IPI00942295	P35372-5	OPRM1	Isoform 5 of Mu-type	410
IPI00942526	E7ER16	SMEK1	Uncharacterized prot	4
IPI00947363	B4DN41	DDX5	cDNA FLJ53366, hig	45
IPI00955882	P86452	ZBED6	Zinc finger BED dom	467
IPI00955882	P86452	ZBED6	Zinc finger BED dom	479
IPI00964486	D6RG16	SIL1	Uncharacterized prot	119
IPI00965371	Q6ZMT9-1	DTHD1	Uncharacterized prot	202
IPI00965371	Q6ZMT9-1	DTHD1	Uncharacterized prot	204
IPI00966031	D6RBW1	EIF4E	Uncharacterized prot	11
IPI00966031	D6RBW1	EIF4E	Uncharacterized prot	12
IPI00966839	-	MXD4	Protein	42
IPI00967464	D6RAJ2	SLC27A6	Uncharacterized prot	2
IPI00973984	E5RHY6	C8orf44-SGK3	Uncharacterized prot	8
IPI00977330	B7Z9Q3	ANO3	Uncharacterized prot	15
IPI00980772	-	RAB2A	Protein	75
IPI00981358	E9PQV6	MICU1	Uncharacterized prot	186
IPI00982698	-	-	Similar to Postmeioti	5
IPI00983620	-	LOC650157	peptidyl-prolyl cis-tra	82
IPI00984934	E5RIG4	NCALD	Uncharacterized prot	102
IPI01012052	-	ATG16L2	Protein	76
IPI01014779	Q14172	DMD	Uncharacterized prot	31
IPI01014779	Q14172	DMD	Uncharacterized prot	35
IPI01014833	F5GZJ2	MSR1	Uncharacterized prot	19
IPI01018177	Q6ZU59	ANKRD26P1	cDNA FLJ43980 fis,	2
IPI01018177	Q6ZU59	ANKRD26P1	cDNA FLJ43980 fis,	15
IPI01021209	F8VTY5	MGAT4C	Uncharacterized prot	98
IPI01025139	-	-	30 kDa protein	144
IPI01025367	-	ALDH6A1	56 kDa protein	104

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