

**Supplementary doc 2: All peptides with Peptide Prophet score:**

protein	probability	ions	peptide	assumedc harge	precursor neutral mass
IPI00000041	0.9896	14/ 16	K.TC[160.14]LLIVFSK. D	2	1080.992
IPI00000816	0.987	17/ 20	K.EALQDVEDENQ.- K.VAGM[147.19]DVELT	2	1289.692
IPI00000816	0.9893	18/ 24	VEER.N	2	1463.292
IPI00000816	0.9935	16/ 20	R.YLAEFATGNDR.K	2	1257.492
IPI00000874	0.994	15/ 18	R.TIAQDYGVLK.A	2	1107.192
IPI00000874	0.9965	16/ 18	R.LVQAFQFTDK.H	2	1197.892
IPI00001437	0.9149	24/ 72	K.RISHM[147.19]PSRP ELSAVATDLR.K	3	2152.492
IPI00001618	0.9106	15/ 20	K.LQLWDTAGQER.F	2	1315.892
IPI00002818	0.999	18/ 20	R.LLC[160.14]GATLIAP R.W	2	1185.892
IPI00002856	0.9801	15/ 18	K.ILVDISNNLK.I	2	1128.892
IPI00002856	0.9905	18/ 30	R.NLGLTPM[147.19]DQ GSLM[147.19]AAK.E	2	1680.092
IPI00003362	0.9856	15/ 34	R.GVPQIEVTFEIDVNGIL R.V	2	2001.692
IPI00003865	0.9766	12/ 20	K.NSLESYAFNM[147.19] ]K.A	2	1319.592
IPI00003865	0.9997	19/ 24	R.TTPSYVAFTDTER.L	2	1487.392
IPI00003935	0.9998	21/ 28	K.AM[147.19]GIM[147. 19]NSFVNDIFER.I	2	1775.592
IPI00004358	0.9983	15/ 22	R.VLYPNDNFFEGK.E	2	1442.692
IPI00004550	0.9981	11/ 12	R.LAADDFR.L	2	806.692
IPI00004573	0.9994	21/ 30	R.GGC[160.14]ITLISSE GYVSSK.Y	2	1658.592
IPI00004573	0.9912	28/ 68	R.GSVTFHC[160.14]AL GPEVANVAK.F	3	1858.392
IPI00004573	1	19/ 20	R.LVSLTLNLVTR.A	2	1228.492
IPI00004573	0.9874	11/ 16	R.TVTINC[160.14]PFK. T	2	1079.592
IPI00004573	0.9992	22/ 34	R.GSVTFHC[160.14]AL GPEVANVAK.F	2	1856.792
IPI00004573	0.9996	29/ 68	R.GSVTFHC[160.14]AL GPEVANVAK.F	3	1857.492
IPI00004573	0.9991	17/ 20	R.ADEGWYWC[160.14] GVK.Q	2	1370.592
IPI00004573	1	19/ 20	R.LVSLTLNLVTR.A	2	1229.092
IPI00005719	0.9724	18/ 20	K.LLLIGDSGVGK.S	2	1071.092
IPI00005721	0.9411	7/ 10	R.LWAF[C[160.14]C[160. .14].-	1	857.392
IPI00005721	0.9047	7/ 10	R.LWAF[C[160.14]C[160. .14].-	1	855.392

IPI00005721	0.9411	7/ 10	R.LWAF[C[160.14]C[160.14].-	1	857.392
IPI00005721	0.9981	14/ 16	R.YGTC[160.14]IYQGR.L	2	1116.992
IPI00005721	0.9997	15/ 16	R.IPAC[160.14]IAGER.R	2	986.492
IPI00005721	0.9747	7/ 10	R.LWAF[C[160.14]C[160.14].-	1	857.392
IPI00005721	0.9214	7/ 10	R.LWAF[C[160.14]C[160.14].-	1	855.392
IPI00005859	0.9754	12/ 12	K.FASFIDK.V	2	826.792
IPI00005859	0.9722	15/ 20	R.NLDLDSIIAEV.K	2	1201.392
IPI00005859	0.9996	19/ 22	R.NLDLDSIIAEVK.A	2	1329.292
IPI00006114	0.9955	28/112	R.SSM[147.19]SPTTNV LLSPLSVATALSALSGLAE Q.R	3	2862.292
IPI00006690	0.9992	16/ 18	R.IPC[160.14]FLAGDTR .S	2	1150.492
IPI00006690	0.9916	14/ 18	R.IPC[160.14]FLAGDTR .S -	2	1150.492
IPI00007047	0.9992	35/ 80	.M[147.19]LTELEKALNS IIDVYHKYSL.I	3	2499.692
IPI00007047	0.9994	17/ 20	K.LLETEC[160.14]PQYI R.K	2	1420.992
IPI00007047	0.9991	17/ 20	K.LLETEC[160.14]PQYI R.K	2	1423.692
IPI00007047	0.9913	16/ 20	K.LLETEC[160.14]PQY I.R	2	1393.492
IPI00007047	0.9841	14/ 20	K.LLETEC[160.14]PQYI R.K	2	1422.492
IPI00007047	0.988	16/ 20	K.LLETEC[160.14]PQYI R.K	2	1422.592
IPI00007047	0.9993	16/ 20	K.LLETEC[160.14]PQYI R.K	2	1422.992
IPI00007047	0.9308	19/ 40	K.ALNSIIDVYHK.Y	3	1273.592
IPI00007047	0.9989	17/ 20	K.ALNSIIDVYHK.Y K.LLETEC[160.14]PQYI	2	1271.692
IPI00007047	0.9981	16/ 20	R.K R.VTWDSTFC[160.14]A	2	1421.392
IPI00007058	0.9895	17/ 24	VNPK.F	2	1524.692
IPI00007221	0.9998	18/ 20	K.FSIEGSYQLEK.V	2	1299.892
IPI00007221	0.9992	17/ 20	K.FSIEGSYQLEK.V K.GTQEQDFYVTSETVVR	2	1302.992
IPI00007221	0.9999	24/ 30	.V	2	1858.692
IPI00007221	0.9971	15/ 22	R.AAAATGTIFTR.S	2	1226.692
IPI00007221	0.9941	16/ 18	I.VDNNILFLGK.V K.M[147.19]QILEGLGL	2	1132.892
IPI00007221	0.9991	22/ 24	NLQK.S	2	1472.292

IPI00007221	0.9387	15/ 24	R.GFQQLLQELNQPR.D	2	1571.992
IPI00007221	0.9944	37/132	R.ALASAAPSQNIFFSPVS ISM[147.19]SLAM[147. 19]LSLGAGSSTK.M K.M[147.19]QILEGLGL	3	3375.992
IPI00007221	0.9906	21/ 24	NLQK.S	2	1472.992
IPI00007244	0.9738	13/ 18	R.QALAQISLPR.I	2	1096.892
IPI00007244	0.9928	19/ 22	R.VVLEGGIDPILR.G	2	1280.692
IPI00007244	0.9986	16/ 18	R.QALAQISLPR.I	2	1096.092
IPI00007244	0.9594	16/ 22	R.VVLEGGIDPILR.G R.IGLDLPALNM[147.19]	2	1280.792
IPI00007244	0.9917	16/ 22	QR.S A.WPTAEIAVM[147.19]	2	1356.792
IPI00007247	0.9372	14/ 22	GAK.G	2	1290.792
IPI00007752	0.9908	19/ 22	R.INVYYNEATGGK.Y K.EVDEQM[147.19]LNV	2	1327.592
IPI00007752	0.984	17/ 22	QNK.N R.EIVHLQAGQC[160.14	2	1461.892
IPI00007752	0.9764	35/ 64	]GNQIGAK.F R.DYQELM[147.19]NVK	3	1824.292
IPI00008359	0.9954	14/ 16	.L	2	1155.292
IPI00009030	0.9958	13/ 14	R.IPLNDLFR.C	2	987.392
IPI00009030	0.9836	13/ 14	R.IPLNDLFR.C	2	987.592
IPI00009650	0.9302	15/ 20	R.GLSTESILIPR.Q	2	1185.092
IPI00009650	0.997	17/ 20	R.GLSTESILIPR.Q	2	1184.892
IPI00009865	0.903	15/ 22	R.SQYEQLAEQNRK.D	2	1491.992
IPI00009865	0.9635	15/ 22	R.SQYEQLAEQNRK.D	2	1495.292
IPI00009865	0.9981	17/ 20	R.SQYEQLAEQNR.K	2	1365.492
IPI00009865	0.9466	16/ 20	R.SQYEQLAEQNR.K	2	1366.192
IPI00009865	0.9855	15/ 16	R.VLDELTLTK.A	2	1032.392
IPI00009865	0.9948	16/ 20	R.SQYEQLAEQNR.K	2	1364.592
IPI00009865	0.998	17/ 20	R.SQYEQLAEQNR.K	2	1365.392
IPI00009865	0.9983	13/ 14	K.YENEVALR.Q	2	992.892
IPI00009865	0.9937	15/ 16	R.LENEIQTYR.S	2	1166.592
IPI00009865	0.9999	18/ 22	R.ALEESNYELEGK.I L.GGGFSSGGFSSGGSFS	2	1381.292
IPI00009865	0.9974	23/ 30	R.G	2	1449.492
IPI00009865	0.9757	21/ 24	K.QSLEASLAETEGR.Y K.GSLGGFSSGGFSSGG	2	1389.992
IPI00009865	0.99	25/ 36	SFSR.G	2	1707.492
IPI00009865	0.9523	18/ 22	R.ALEESNYELEGK.I	2	1382.192
IPI00009865	0.9988	19/ 24	K.QSLEASLAETEGR.Y	2	1390.592
IPI00009865	0.998	18/ 22	R.ALEESNYELEGK.I R.NVQALEIELQSQLALK.	2	1380.892
IPI00009865	0.9988	23/ 30	Q R.NVQALEIELQSQLALK.	2	1798.292
IPI00009865	0.9782	33/ 60	Q	3	1797.692

			K.NQILNLTTDNANILLQI		
IPI00009865	0.9965	28/ 38	DNA.R	2	2211.892
IPI00009866	0.9848	15/ 16	R.LEQEIATYR.S	2	1122.292
IPI00009866	0.9986	19/ 22	R.ALEEANADLEVK.I	2	1300.592
			K.VDALM[147.19]DEIN		
IPI00009867	0.9999	16/ 22	FM[147.19]K.M	2	1457.592
			R.TTAENEFVM[147.19]L		
IPI00009867	0.9948	15/ 20	K.K	2	1298.192
			R.GLGVGFGSGGGSSSS		
IPI00009867	0.9959	25/ 32	VK.F	2	1440.292
IPI00009938	0.9944	19/ 24	K.TIIVTELSPVVAK.P	2	1370.692
			K.FLM[147.19]ANGQLV		
IPI00010154	0.9142	15/ 18	K.M	2	1137.492
IPI00010491	0.9999	16/ 18	K.FITTVGIDFR.E	2	1169.092
IPI00010491	0.9998	15/ 18	K.FITTVGIDFR.E	2	1168.892
IPI00010491	0.9856	17/ 18	K.FITTVGIDFR.E	2	1169.692
			R.TGPAATTLPDGAAAES		
IPI00010796	0.9911	33/116	LVESSEVAVIGFFK.D	3	2937.392
			R.TGPAATTLPDGAAAES		
IPI00010796	0.9968	33/116	LVESSEVAVIGFFK.D	3	2936.192
			R.TGPAATTLPDGAAAES		
IPI00010796	0.9987	28/116	LVESSEVAVIGFFK.D	3	2936.692
			R.LEMPDNLY[243.18]TF		
IPI00010821	0.9568	14/ 24	VLK.V	2	1663.292
			R.AVC[160.14]GGVLVH		
IPI00010858	0.9856	20/ 30	PQWVLT.A	2	1707.592
			R.AVC[160.14]GGVLVH		
IPI00010858	0.9796	20/ 28	PQWVLT.A	2	1635.692
			K.LQC[160.14]VDLHVI		
			SNDVC[160.14]AQVHP		
IPI00010858	0.9999	39/ 76	Q.K	3	2334.192
			K.LQC[160.14]VDLHVI		
			SNDVC[160.14]AQVHP		
IPI00010858	0.9987	31/ 76	Q.K	3	2333.792
			K.LQC[160.14]VDLHVI		
			SNDVC[160.14]AQVHP		
IPI00010858	0.9993	34/ 76	Q.K	3	2332.692
			V.DLHVISNDVC[160.14		
IPI00010858	0.998	30/ 64	]AQVHPQK.V	3	1961.492
			C.VDLHVISNDVC[160.1		
IPI00010858	0.9984	27/ 68	4]AQVHPQK.V	3	2060.892
			C.VDLHVISNDVC[160.1		
IPI00010858	1	32/ 68	4]AQVHPQK.V	3	2060.292
			K.LQC[160.14]VDLHVI		
			SNDVC[160.14]AQVHP		
IPI00010858	0.9977	38/ 76	Q.K	3	2332.592
			K.LQC[160.14]VDLHVI		
			SNDVC[160.14]AQVHP		
IPI00010858	0.9997	39/ 76	Q.K	3	2332.192

IPI00010858	0.9839	27/ 60	D.LHVISNDVC[160.14] AQVHPQK.V	3	1846.292
IPI00010858	0.9886	13/ 14	V.C[160.14]AQVHPQK. V	2	967.492
IPI00010858	0.9859	31/ 68	C.VDLHVISNDVC[160.1 4]AQVHPQK.V	3	2059.892
IPI00010858	0.9689	13/ 16	K.LQC[160.14]VDLHVI. S	2	1095.892
IPI00010858	0.9146	35/ 76	K.LQC[160.14]VDLHVI SNDVC[160.14]AQVHP Q.K	3	2334.292
IPI00010858	0.9995	41/ 76	K.LQC[160.14]VDLHVI SNDVC[160.14]AQVHP Q.K	3	2333.192
IPI00010858	0.9995	36/ 76	K.LQC[160.14]VDLHVI SNDVC[160.14]AQVHP Q.K	3	2333.992
IPI00010858	0.998	30/ 64	V.DLHVISNDVC[160.14 ]AQVHPQK.V	3	1960.192
IPI00010858	0.9986	32/ 68	C.VDLHVISNDVC[160.1 4]AQVHPQK.V	3	2059.892
IPI00010858	0.9891	36/ 76	K.LQC[160.14]VDLHVI SNDVC[160.14]AQVHP Q.K	3	2333.892
IPI00010858	0.9949	15/ 22	R.LSEPAELTDAVK.V	2	1271.692
IPI00010858	0.9997	19/ 22	R.LSEPAELTDAVK.V	2	1272.392
IPI00010858	0.9984	19/ 22	R.LSEPAELTDAVK.V	2	1271.792
IPI00010858		1 25/ 48	R.PGDDSSHDLML[147.1 9]LLR.L	3	1472.092
IPI00010858	0.9941	14/ 16	E.PAELTDAVK.V K.VM[147.19]DLPTQEP	2	943.292
IPI00010858	0.9508	17/ 26	ALGTT.C	2	1488.892
IPI00010858	0.9976	18/ 22	R.LSEPAELTDAVK.V	2	1272.492
IPI00010858	0.9998	18/ 22	R.LSEPAELTDAVK.V	2	1272.492
IPI00010858	0.9979	12/ 22	R.LSEPAELTDAVK.V	2	1272.892
IPI00010858	0.997	23/ 30	K.VM[147.19]DLPTQEP ALGTTTC[160.14]Y.A	2	1812.392
IPI00010858	0.9985	24/ 30	K.VMDLPTQEPALGTTTC[ 160.14]Y.A	2	1796.492
IPI00010858	0.9975	18/ 22	R.LSEPAELTDAVK.V	2	1271.692
IPI00010858	0.999	28/124	K.VM[147.19]DLPTQEP ALGTTTC[160.14]YASGW GSIEPEEFLPK.K	3	3541.692
IPI00010858	0.9999	37/108	K.VM[147.19]DLPTQEP ALGTTTC[160.14]YASGW GSIEPEEF.L	3	3103.192

IPI00010858	0.9989	43/124	K.VM[147.19]DLPTQEP ALGTTC[160.14]YASGW GSIEPEEFLTPK.K	3	3540.992
IPI00010858	0.9984	23/ 38	K.STC[160.14]SGDSGG PLVC[160.14]NGVLQGI. T	2	1980.792
IPI00010896	0.9924	15/ 22	K.GVTFNVTTVDTK.R R.AVLDCG[160.14]SC[ 160.14]C[160.14]LVC[ 160.14]AR.Q	2	1281.292
IPI00011140	0.96	20/ 26	K.GTIQVITQGTSLK.N	2	1640.792
IPI00011200	0.9936	16/ 24	K.AAAVLAAESMVVTLAK .V	2	1345.592
IPI00011571	0.9999	21/ 30	K.AAAVLAAESMVVTLAK .V	2	1545.192
IPI00011571	0.9878	22/ 60	K.AAAVLAAESMVVTLAK .V	3	1545.592
IPI00011571	0.9998	21/ 30	K.AAAVLAAESMVVTLAK .V	2	1545.492
IPI00011571	0.9834	37/ 60	K.AAAVLAAESMVVTLAK .V	3	1546.092
IPI00011571	0.9999	22/ 30	R.YALYDATYETK.E	2	1545.392
IPI00012011	0.9965	15/ 20	R.ALIGATNPADAPPGTIR .G	2	1337.792
IPI00012315	1	22/ 32	K.GC[160.14]SFLPDPY QK.Q	2	1634.592
IPI00012503	0.9973	14/ 20	K.EIC[160.14]ALVGFC[ 160.14]DEVK.E	2	1311.192
IPI00012503	0.9988	19/ 24	K.SDVYC[160.14]EVC[1 60.14]EFLVK.E	2	1539.892
IPI00012503	0.9987	17/ 24	K.SDVYC[160.14]EVC[1 60.14]EFLVK.E	2	1647.992
IPI00012503	0.9982	22/ 48	K.EIC[160.14]ALVGFC[ 160.14]DEVK.E	3	1649.692
IPI00012503	0.9963	15/ 24	K.EIC[160.14]ALVGFC[ 160.14]DEVK.E	2	1540.892
IPI00012503	1	21/ 24	K.SDVYC[160.14]EVC[1 60.14]EFLVK.E	2	1541.692
IPI00012503	0.994	20/ 24	K.SDVYC[160.14]EVC[1 60.14]EFLVK.E	2	1647.792
IPI00012503	0.9958	17/ 24	Q.PNLDTTC[160.14]AFH EQPELQKK.Q	2	1647.192
IPI00013382	0.9944	24/ 64	R.IGAEVYHNLK.N	3	2054.792
IPI00013769	0.9998	21/ 36	R.SAYQEAM[147.19]DI SK.K	3	1144.092
IPI00013890	0.9987	15/ 20	R.LPLQDVYK.I	2	1259.392
IPI00014424	0.9862	13/ 14	K.EPVVYPWM[147.19]R K.V	2	974.892
IPI00014540	0.9319	11/ 18		2	1320.492

IPI00016150	0.9991	20/ 24	R.QEVPLATLEPLVK.A	2	1437.792
IPI00016339	0.977	16/ 20	K.LVLLGESAVGK.S	2	1085.392
IPI00016381	0.998	18/ 20	K.FLALGDSGVGK.T	2	1064.592
IPI00016381	0.9972	16/ 20	K.FLALGDSGVGK.T	2	1062.992
IPI00016862	0.9985	18/ 24	K.LGGTC[160.14]VNVG C[160.14]VPK.K R.KLETKGYGQGPGK.LK.	2	1360.092
IPI00017163	0.9819	24/ 56	L	3	1605.392
IPI00017367	0.9993	16/ 18	K.APDFV FYAPR.L	2	1183.892
IPI00017601	0.9944	15/ 18	R.EYTDASFTNR.K	2	1203.292
IPI00017601	0.9953	19/ 24	K.GAYPLSIEPIGVR.F	2	1371.792
IPI00017601	0.9996	22/ 26	K.DIASGLIGPLIIC[160. 14]K.K	2	1469.792
IPI00017601	0.9982	28/ 88	R.SVPPSASHVAPTETFTY EWTVPK.E	3	2531.992
IPI00017601	0.9999	37/ 80	K.M[147.19]YYSAVDPT KDIFTGLIGPM[147.19]	3	2382.192
IPI00017601	0.999	20/ 26	K.I K.DIASGLIGPLIIC[160. 14]K.K	2	1469.792
IPI00017601	0.9921	16/ 26	K.EVGPTNADPVC[160.1 4]LAK.M	2	1470.392
IPI00017601	0.9975	27/ 88	R.SVPPSASHVAPTETFTY EWTVPK.E	3	2532.192
IPI00017601	0.9997	20/ 24	K.GAYPLSIEPIGVR.F	2	1371.992
IPI00017601	0.9531	27/ 80	K.M[147.19]YYSAVDPT KDIFTGLIGPM[147.19]	3	2379.592
IPI00017601	0.9828	22/ 26	K.I K.DIASGLIGPLIIC[160. 14]K.K	2	1470.292
IPI00017601	0.9427	19/ 24	K.DLYSGLIGPLIVC[160. 14].R	2	1419.692
IPI00017601	0.9496	19/ 24	K.DLYSGLIGPLIVC[160. 14].R	2	1419.392
IPI00018278	0.9827	12/ 12	R.HLQLAIR.G	2	849.792
IPI00018314	0.9937	24/ 40	R.FDNTYSFIHAK.K	3	1343.892
IPI00018901	0.9946	17/ 24	R.NIDQAVTAALETR.H	2	1401.392
IPI00018901	0.9897	15/ 16	K.FVDVTEVVR.N	2	1063.692
IPI00018953	0.9997	18/ 22	K.VTC[160.14]LSC[160 .14]ELNPER.C	2	1477.692
IPI00018953	0.9999	16/ 18	R.C[160.14]QYYSVSFS K.E	2	1268.592
IPI00018953	0.9392	13/ 18	R.C[160.14]QYYSVSFS K.E	2	1269.492
IPI00018953	0.9961	18/ 22	K.VTC[160.14]LSC[160 .14]ELNPER.C	2	1477.092
IPI00018953	0.9997	15/ 18	R.C[160.14]QYYSVSFS K.E	2	1268.692
IPI00018953	0.9924	13/ 16	K.TYTLTDY.LK.N	2	1117.692

IPI00019275	0.9964	16/ 26	R.VVLGANGTYSC[160.14]LVR.N	2	1509.492
IPI00019359	0.9775	32/156	R.GGSGGSHGGGSGFG GESGGSYGGGEEASGS	3	3223.092
IPI00019359	1	51/156	GGGYGGGSGK.S	3	3224.392
IPI00019359	0.9967	15/ 16	K.TLLDIDNTR.M	2	1060.592
IPI00019359	1	53/156	R.GGSGGSHGGGSGFG GESGGSYGGGEEASGS	3	3224.792
IPI00019359	0.9987	21/ 26	GGGYGGGSGK.S	2	1587.492
IPI00019359	0.9268	12/ 18	K.VQALEEANNDLENK.I	2	1206.392
IPI00019359	1	23/ 26	R.QVLDNLTM[147.19]E	2	1587.392
IPI00019359	0.9963	15/ 16	K.S	2	1060.392
IPI00019359	0.9961	32/ 72	K.VQALEEANNDLENK.I	2	1588.592
IPI00019359	0.9991	24/ 56	K.TLLDIDNTR.M	3	1350.592
IPI00019359	0.9889	27/ 80	Y.LSRSGGGGGGLGSG GSIR.S	3	1813.392
IPI00019359	0.9998	53/156	K.IGLGRRGGSGGSYGR. G	3	3223.292
IPI00019359	0.978	22/ 56	R.SGGGGGGGLGSGGSI RSSYSR.F	3	1350.892
IPI00019359	0.9999	57/156	R.GGSGGSHGGGSGFG GESGGSYGGGEEASGS	3	3223.392
IPI00019359	0.9985	45/112	GGGYGGGSGK.S	3	3265.092
IPI00019591	0.9907	27/ 88	K.IGLGRRGGSGGSYGR. G	3	2660.292
IPI00019591	0.9983	22/ 44	R.GGSGGSHGGGSGFG GESGGSYGGGEEASGS	2	2660.692
IPI00019872	0.9069	12/ 18	GGGYGGGSGK.S	2	1290.492
IPI00020091	0.9982	13/ 14	K.DIENQYETQITQIEHEV	2	994.292
IPI00020091	0.9954	21/ 24	SSSGQEVQSSAK.E	2	1587.892
IPI00020091	0.9737	20/ 24	R.LLQEGQALEYVC[160.14]PSGFYPYPVQT.R	2	1587.992
IPI00020982	0.9867	17/ 22	R.LLQEGQALEYVC[160.14]PSGFYPYPVQT.R	2	1434.892
			K.SPFAYY[243.18]T[181.11]PGK.G		
			K.TEDTIFLR.E		
			K.EQLGEFYEALDC[160.14]L.C		
			K.EQLGEFYEALDC[160.14]L.C		
			K.NTVFLIEM[147.19]LLPK.K		



IPI00021263	0.9809	21/ 26	K.SVTEQGAELSNEER.N	2	1548.492
IPI00021304	0.994	24/ 26	R.GFSSGSAVVSGGSR.R	2	1253.492
IPI00021304	0.9996	30/ 60	R.HGGGGGGFGGGGFG SR.S	3	1320.892
IPI00021304	1	22/ 26	R.GFSSGSAVVSGGSR.R	2	1256.892
IPI00021304	0.9901	26/ 72	R.TSQNSELNNM[147.1	3	2271.492
IPI00021304	0.9984	16/ 16	9]QDLVEDYKK.K	2	1037.292
IPI00021304	0.9998	19/ 22	R.YLDGLTAER.T	2	1329.292
IPI00021304	1	17/ 18	K.NVQDAIADAEQR.G	2	1194.692
IPI00021304	0.9997	21/ 26	K.YEELQVTVGR.H	2	1254.292
IPI00021304	0.9568	13/ 16	R.GFSSGSAVVSGGSR.R	2	1085.292
IPI00021304	0.9999	18/ 22	K.DVDNAYM[147.19]IK.	2	1329.192
IPI00021304	0.9995	17/ 18	V	2	1193.392
IPI00021304	0.9987	22/ 26	K.NVQDAIADAEQR.G	2	1253.692
IPI00021304	0.9917	13/ 14	K.YEELQVTVGR.H	2	973.192
IPI00021304	0.9962	13/ 14	R.GFSSGSAVVSGGSR.R	2	974.492
IPI00021304	0.9721	13/ 14	K.IEISELNR.V	2	973.192
IPI00021304	0.9965	20/ 22	K.IEISELNR.V	2	1475.492
IPI00021304	0.997	20/ 22	R.FLEQQNQVLQTK.W	2	1475.892
IPI00021304	0.9982	20/ 22	R.FLEQQNQVLQTK.W	2	1475.992
IPI00021304	0.9958	20/ 22	R.FLEQQNQVLQTK.W	2	1476.292
IPI00021304	0.9966	20/ 22	R.FLEQQNQVLQTK.W	2	1475.492
IPI00021304	0.9915	20/ 22	R.FLEQQNQVLQTK.W	2	1477.092
IPI00021304	0.9939	20/ 22	R.FLEQQNQVLQTK.W	2	1475.492
IPI00021304	0.9962	14/ 16	K.AQYEEIAQR.S	2	1107.492
IPI00021304	0.9923	13/ 16	K.AQYEEIAQR.S	2	1107.192
IPI00021304	0.9922	14/ 16	K.AQYEEIAQR.S	2	1106.892
IPI00021304	0.9899	14/ 16	K.AQYEEIAQR.S	2	1106.892
IPI00021439	0.9995	25/ 80	K.DLYANTVLSGGTTM[1	3	2231.592
IPI00021439	0.9999	44/100	47.19]YPGIADR.M	3	2747.292
IPI00021439	0.9999	41/104	R.TTGIVM[147.19]DSG	3	2817.992
IPI00021439	0.9926	40/108	DGVTHTVPIYEGYALPH.	3	2931.592
IPI00021727	0.9122	14/ 22	A	2	1459.192
IPI00021828	0.9927	19/ 22	R.TTGIVM[147.19]DSG	2	1326.192
			DGVTHTVPIYEGYALPHA		
			.I		
			R.TTGIVM[147.19]DSG		
			DGVTHTVPIYEGYALPHA		
			I.L		
			R.LM[147.19]QC[160.1		
			4]LPNPEDVK.M		
			K.SQVVAGTNYFIK.V		

IPI00021828	0.9995	19/ 22	K.SQVVAGTNYFIK.V	2	1325.992
IPI00021833	0.9975	13/ 14	R.TVIYEIPR.S	2	990.092
IPI00021841	0.9989	20/ 24	R.DYVSQFEGSALGK.Q	2	1400.192
IPI00021841	0.9441	18/ 22	R.VKDLATVYVDVL.K	2	1334.992
IPI00021841	0.9989	18/ 20	K.DLATVYVDVLK.D	2	1236.092
IPI00021841	0.9959	15/ 18	K.VSFLSALEEY.T	2	1157.392
IPI00021841	0.9934	13/ 18	R.QGLLPVLESF.K	2	1101.992
IPI00021841	0.9995	17/ 20	K.VSFLSALEEY.T.K	2	1258.692
IPI00021854	0.9898	25/ 36	K.EPC[160.14]VESLVS QYFQTVTDYG.K	2	2221.792
IPI00021854	0.976	34/ 84	K.AGTELVNFLSYFVELGT QPATQ.-	3	2385.892
IPI00021854	0.9852	19/ 28	K.EPC[160.14]VESLVS QYFQTV.T	2	1786.292
IPI00021854	0.9997	26/ 38	K.EPC[160.14]VESLVS QYFQTVTDYGK.D	2	2350.092
IPI00021854	0.9475	29/ 76	K.EPC[160.14]VESLVS QYFQTVTDYGK.D	3	2350.792
IPI00021854	0.9914	24/ 36	K.EPC[160.14]VESLVS QYFQTVTDYG.K	2	2221.692
IPI00021891	0.9593	24/ 38	R.FGSYC[160.14]PTTC[ 160.14]GIADFLSTYQT.K	2	2288.892
IPI00021891	0.9996	30/ 80	R.FGSYC[160.14]PTTC[ 160.14]GIADFLSTYQTK .V	3	2418.692
IPI00021891	1	25/ 40	R.FGSYC[160.14]PTTC[ 160.14]GIADFLSTYQTK .V	2	2418.792
IPI00021891	0.9998	24/ 40	R.FGSYC[160.14]PTTC[ 160.14]GIADFLSTYQTK .V	2	2416.992
IPI00021891	0.9164	23/ 38	R.FGSYC[160.14]PTTC[ 160.14]GIADFLSTYQT.K	2	2288.892
IPI00021891	0.9959	26/ 76	R.FGSYC[160.14]PTTC[ 160.14]GIADFLSTYQT.K	3	2290.592
IPI00021891	0.975	11/ 18	R.TSTADYAM[147.19]F K.V	2	1151.592
IPI00021891	0.9646	23/ 48	K.YEASILTHDSSIR.Y K.C[160.14]HAGHLNGV	3	1492.992
IPI00021891	0.9811	19/ 32	YYQGGTYS.K	2	1884.592
IPI00021891	0.9982	19/ 22	K.YEASILTHDSSI.R	2	1336.392
IPI00021891	0.9149	21/ 26	K.IHLISTQSAIPYAL.R	2	1527.492
IPI00022204	0.9997	15/ 18	R.GLVLSGVLHK.A	2	1022.192
IPI00022204	0.9864	16/ 18	R.GLVLSGVLHK.A	2	1022.792
IPI00022204	0.9982	15/ 18	R.GLVLSGVLHK.A	2	1022.192

IPI00022227	0.9997	20/ 28	K.VTEFM[147.19]LC[16 0.14]AGLWTGGK.D	2	1685.692
IPI00022227	0.9985	18/ 28	K.VTEFM[147.19]LC[16 0.14]AGLWTGGK.D	2	1685.792
IPI00022227	0.9993	19/ 28	K.VTEFM[147.19]LC[16 0.14]AGLWTGGK.D	2	1685.792
IPI00022229	0.9983	38/ 76	R.VPSYTLILPSLELPVLH VPR.N	3	2245.192
IPI00022229	0.9989	21/ 28	K.VSALLTPAEQTGTWK.L	2	1600.992
IPI00022229	0.9993	19/ 28	K.IEGNLIFDPNNYLPK.E R.HFNPVC[160.14]GSD M[147.19]STYANEC[16 0.14]TLC[160.14]M[14	2	1747.492
IPI00022231	0.9993	38/ 84	7.19]K.I	3	2655.892
IPI00022255	0.9994	17/ 20	R.EYVQLISVYEK.K	2	1370.392
IPI00022255	0.9988	19/ 22	K.VQSINYNPFDQK.L K.LYVYNDGYLLNYDLSV	2	1452.292
IPI00022255	0.9485	26/ 80	LQKPQ.-	3	2518.592
IPI00022255	0.9987	18/ 22	K.VQSINYNPFDQK.L	2	1452.692
IPI00022418	0.992	20/ 28	R.TYLGNALVC[160.14]T C[160.14]YGG.S.R	2	1635.492
IPI00022418	0.9842	17/ 26	K.EATIPGHLNSYTIK.G R.WKEATIPGHLNSYTIK.	2	1543.192
IPI00022418	0.9365	23/ 60	G	3	1859.392
IPI00022418	0.9906	14/ 16	K.YEVSUYALK.D	2	1072.792
IPI00022418	0.9978	17/ 26	V.DVIPVNLPGHEGQR.L	2	1530.892
IPI00022418	0.9619	17/ 20	I.PVNLPGEHGQR.L R.VDVIPVNLPGHEGQR.	2	1203.492
IPI00022418	0.9992	19/ 28	L S.SPVVIDASTAIDAPSNL	2	1629.592
IPI00022418	0.9998	29/ 34	R.F	2	1826.692
IPI00022418	0.9996	17/ 20	R.DLQFVEVTDVK.V R.SSPVVIDASTAIDAPS	2	1293.592
IPI00022418	0.9999	25/ 36	NLR.F	2	1914.692
IPI00022418	0.9942	22/ 28	V.TIM[147.19]WTPPESA VTGYR.V	2	1725.892
IPI00022418	0.9909	19/ 26	A.EVTGLSPGVTTYFK.V R.NLQPASEYTVSLVAIK.	2	1560.992
IPI00022418	0.9213	25/ 60	G	3	1733.992
IPI00022418	0.9998	21/ 30	K.VTIM[147.19]WTPPE SAVTGYR.V	2	1823.592

IPI00022418	0.9984	20/ 28	F.AEVTGLSPGVTTYFK.V R.NLQPASEYTVSLVAIK.	2	1631.492
IPI00022418	0.9997	25/ 30	G K.VTIM[147.19]WTPPE	2	1732.692
IPI00022418	0.9958	23/ 30	SAVTGYR.V K.EINLAPDSSSVVVSGL	2	1826.692
IPI00022418	0.9989	27/ 40	M[147.19]VATK.Y K.STATISGLKPGVDYTIT	2	2136.192
IPI00022418	0.9879	18/ 38	VYA.V T.FAEVTGLSPGVTTYFK.	2	2057.892
IPI00022418	0.9998	24/ 30	V K.EINLAPDSSSVVVSGL	2	1779.992
IPI00022418	0.9944	30/ 40	M[147.19]VATK.Y K.STATISGLKPGVDYTIT	2	2132.992
IPI00022418	0.9999	32/ 92	VYAVTGR.G R.NTFAEVTGLSPGVTTY.	3	2471.392
IPI00022418	1	23/ 30	F N.TFAEVTGLSPGVTTYFK	2	1719.792
IPI00022418	0.9995	24/ 32	.V R.NTFAEVTGLSPGVTTYF	2	1879.392
IPI00022418	0.9998	26/ 34	K.V K.EINLAPDSSSVVVSGL	2	1995.292
IPI00022418	0.9471	29/ 40	MVATK.Y R.FLATTPNSLLVSWQPP	2	2117.892
IPI00022418	0.9944	18/ 32	R.A K.EINLAPDSSSVVVSGL	2	1927.792
IPI00022418	0.9995	35/ 80	MVATK.Y R.FLATTPNSLLVSWQPP	3	2118.192
IPI00022418	0.9987	33/ 64	R.A K.FTQVTPTSLSAQWTPP	3	1928.592
IPI00022418	0.9978	23/ 44	NVQLTGY.R R.FDFTTTSTSTPVTSTNTV	2	2537.492
IPI00022418	0.9918	34/104	TGETTPFSPL.V R.NTFAEVTGLSPGVTTYF	3	2836.692
IPI00022418	0.9932	21/ 32	.K	2	1867.092
IPI00022418	0.9336	17/ 26	K.EATIPGHLNSYTIK.G R.NLQPASEYTVSLVAIK.	2	1543.492
IPI00022418	0.9972	24/ 30	G R.NLQPASEYTVSLVAIK.	2	1733.692
IPI00022418	1	27/ 60	G K.STATISGLKPGVDYTIT	3	1734.392
IPI00022418	0.9843	17/ 36	VY.A R.NTFAEVTGLSPGVTTYF	2	1985.792
IPI00022418	1	25/ 34	K.V K.VTIM[147.19]WTPPE	2	1995.892
IPI00022418	0.997	16/ 28	SAVTGYR K.FTQVTPTSLSAQWTPP	2	1667.992
IPI00022418	0.9999	25/ 44	NVQLTGY.R	2	2536.392

IPI00022418	0.9886	16/ 32	R.NTFAEVTGLSPGVTTYF .K	2	1865.892
IPI00022418	0.9673	24/ 40	R.ITYGETGGNSPVQEFT VPGSK.S	2	2167.792
IPI00022418	0.9737	23/ 34	R.EESPLLIGQQSTVSDV PR.D	2	1954.892
IPI00022418	0.9977	26/ 44	R.DLEVVAATPTSLLISW DAPAVTV.R	2	2369.192
IPI00022418	0.9906	19/ 44	R.NSITLTNLTPGTEYVVS IVALNG.R	2	2375.892
IPI00022418	0.9972	26/ 52	W.APPPSIDLTNFLVR.Y K.TGLDSPTGIDFSDITAN	3	1540.792
IPI00022418	0.9592	27/ 42	SFTVH.W K.TGLDSPTGIDFSDITAN	2	2296.092
IPI00022418	0.9969	25/ 36	SF.T R.VTWAPPPSIDLTNFLVR	2	1958.992
IPI00022418	0.9976	32/ 64	.Y R.VTWAPPPSIDLTNFLVR	3	1925.292
IPI00022418	0.9926	26/ 32	.Y R.VTWAPPPSIDLTNFLVR	2	1925.492
IPI00022418	0.9965	26/ 32	.Y R.VTWAPPPSIDLTNFLVR	2	1928.792
IPI00022418	0.9996	26/ 32	.Y R.VTWAPPPSIDLTNFLV.	2	1925.892
IPI00022418	0.9954	22/ 30	R K.EYLGAIC[160.14]SC[ 160.14]TC[160.14]FGG	2	1771.192
IPI00022418	0.9984	23/ 28	Q.R K.LLC[160.14]QC[160.	2	1722.292
IPI00022418	0.9991	19/ 24	14]LGFGSGHF.R K.LLC[160.14]QC[160.	2	1495.592
IPI00022418	0.9963	20/ 24	14]LGFGSGHF.R K.LLC[160.14]QC[160.	2	1495.492
IPI00022418	0.9251	15/ 22	14]LGFGSGH.F K.LLC[160.14]QC[160.	2	1348.592
IPI00022418	0.9999	20/ 24	14]LGFGSGHF.R P.YPPNVGEEIQIGHIPR.E	2	1496.792
IPI00022418	0.9985	27/ 60		3	1820.792
IPI00022429	1	27/ 56	R.YVGGQEHFAHLLILR.D R.QDQC[160.14]IYNTT	3	1753.792
IPI00022429	1	20/ 28	YLVNQR.E R.QDQC[160.14]IYNTT	2	1917.092
IPI00022429	1	21/ 28	YLVNQR.E R.AQLVPLPPSTYVEFTVS	2	1916.692
IPI00022431	0.9968	26/ 42	GTDC[160.14]V.A	2	2381.092

IPI00022431	0.9964	25/ 44	R.AQLVPLPPSTYVEFTVS GTDC[160.14]VA.K	2	2452.192
IPI00022431	0.9916	27/ 42	R.AQLVPLPPSTYVEFTVS GTDC[160.14]V.A	2	2381.992
IPI00022432	0.9792	20/ 24	Y.SYSTTAVVTNPK.E-	2	1396.392
IPI00022432	0.9997	30/ 84	R.YTIAALLSPYSYSTTAV VTNPK.E	3	2360.092
IPI00022432	1	28/ 42	R.YTIAALLSPYSYSTTAV VTNPK.E	2	2360.092
IPI00022432	1	25/ 42	R.YTIAALLSPYSYSTTAV VTNPK.E	2	2360.592
IPI00022432	0.9968	27/ 44	R.YTIAALLSPYSYSTTAV VTNPK.E-	2	2488.792
IPI00022432	0.9993	24/ 32	A.LLSPYSYSTTAVVTNPK .E	2	1840.692
IPI00022432	0.9997	28/ 42	R.YTIAALLSPYSYSTTAV VTNPK.E	2	2360.892
IPI00022432	0.9981	28/ 44	R.YTIAALLSPYSYSTTAV VTNPK.E-	2	2488.992
IPI00022432	0.9387	24/ 38	R.YTIAALLSPYSYSTTAV VTN.P	2	2135.192
IPI00022432	0.9994	19/ 24	K.AADDTWEPFASGK.T	2	1394.292
IPI00022432	0.9877	15/ 24	R.GSPAINVAVHVFR.K	2	1365.992
IPI00022432	0.998	18/ 24	K.AADDTWEPFASGK.T	2	1394.592
IPI00022432	0.9986	15/ 20	R.GSPAINVAVHV.F	2	1063.492
IPI00022432	0.9992	18/ 24	K.AADDTWEPFASGK.T	2	1397.092
IPI00022434	0.9915	9/ 10	K.SEVAHR.F	2	698.192
IPI00022434	0.971	14/ 16	K.KVPQVSTPT.L	2	956.392
IPI00022434	0.9255	12/ 14	K.DLGEENFK.A	2	951.192
IPI00022434	0.9845	10/ 14	K.DLGEENFK.A	1	950.492
IPI00022434	0.9309	14/ 16	S.TPTLVEVSR.N	2	1001.292
IPI00022434	1	13/ 18	R.FKDLGEENFK.A	1	1225.492
IPI00022434	0.9937	16/ 18	R.FKDLGEENFK.A	2	1226.192
IPI00022434	0.9991	23/ 36	K.KQTALVELVK.H	3	1128.392
IPI00022434	0.9988	16/ 18	K.KQTALVELVK.H	2	1128.092
IPI00022434	0.9935	13/ 18	K.KQTALVELVK.H	1	1127.692
IPI00022434	0.9911	25/ 56	K.KVPQVSTPTLVEVSR.N	3	1639.592
IPI00022434	0.9967	21/ 28	K.KVPQVSTPTLVEVSR.N	2	1639.692
IPI00022434	0.9803	18/ 22	F.KPLVEEPQNLIK.Q	2	1407.792
IPI00022434	0.9927	13/ 14	T.PTLVEVSR.N	2	900.292
IPI00022434	0.9842	13/ 14	K.FQNALLVR.Y	2	960.192
IPI00022434	0.9999	20/ 26	K.VPQVSTPTLVEVSR.N	2	1511.192

IPI00022434	0.9882	13/ 14	K.FQNALLVR.Y	2	959.892
IPI00022434	0.9985	18/ 22	F.SALEVDETYVPK.E	2	1350.392
IPI00022434	0.9626	33/ 56	K.KVPQVSTPTLVEVSR.N	3	1640.292
IPI00022434	0.9641	21/ 52	K.VPQVSTPTLVEVSR.N	3	1511.192
IPI00022434	0.9922	14/ 16	K.QTALVELVK.H	2	1000.092
IPI00022434	0.9947	21/ 28	K.KVPQVSTPTLVEVSR.N	2	1638.792
IPI00022434	0.9998	19/ 26	K.VPQVSTPTLVEVSR.N	2	1511.392
IPI00022434	0.9998	21/ 26	K.VPQVSTPTLVEVSR.N	2	1511.892
IPI00022434	0.9694	12/ 26	K.VPQVSTPTLVEVSR.N	1	1510.692
IPI00022434	0.9488	18/ 24	V.PQVSTPTLVEVSR.N	2	1412.092
IPI00022434	0.9553	17/ 20	K.PLVEEPQNLIK.Q	2	1278.992
IPI00022434	0.9944	14/ 18	K.KQTALVELVK.H	2	1128.592
IPI00022434	0.9989	20/ 28	K.KVPQVSTPTLVEVSR.N	2	1638.992
IPI00022434	0.9979	19/ 26	K.VPQVSTPTLVEVSR.N	2	1514.192
IPI00022434	0.9977	14/ 28	K.KVPQVSTPTLVEVSR.N	2	1639.392
IPI00022434	0.9868	21/ 24	C.FSALEVDETYVPK.E	2	1497.392
IPI00022434	0.9999	19/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1358.792
IPI00022434	0.959	14/ 18	V.M[147.19]DDFAAFVE K.C	2	1187.992
IPI00022434	0.999	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1360.992
IPI00022434	1	12/ 22	K.AVM[147.19]DDFAAF VEK.C	1	1359.592
IPI00022434	0.9886	17/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1357.492
IPI00022434	0.9671	21/ 26	K.VFDEFKPLVEEPQN.L	2	1691.492
IPI00022434	0.9569	21/ 24	K.VFDEFKPLVEEPQ.N	2	1575.892
IPI00022434	0.9965	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1360.192
IPI00022434	0.9999	17/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1360.592
IPI00022434	0.932	12/ 16	K.QTALVELVK.H	1	1000.692
IPI00022434	0.9772	12/ 16	K.QTALVELVK.H	1	1000.592
IPI00022434	0.997	16/ 32	K.VFDEFKPLVEEPQNLIK .Q	2	2044.592
IPI00022434	0.9811	15/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1358.992
IPI00022434	0.9844	12/ 14	K.FQNALLVR.Y	2	961.792

IPI00022434	0.9997	19/ 24	K.QNC[160.14]ELFEQL GEYK.F	2	1658.492
IPI00022434	0.9876	13/ 14	K.FQNALLVR.Y	2	960.992
IPI00022434	0.947	13/ 14	K.FQNALLVR.Y	2	960.992
IPI00022434		1 22/ 28	K.KVPQVSTPTLVEVSR.N	2	1640.892
IPI00022434	0.9973	19/ 26	K.VPQVSTPTLVEVSR.N K.AVM[147.19]DDFAAF	2	1512.692
IPI00022434	0.9996	17/ 22	VEK.C	2	1359.092
IPI00022434	0.9999	20/ 24	K.QNC[160.14]ELFEQL GEYK.F	2	1657.592
IPI00022434	0.9916	36/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.492
IPI00022434	0.9999	21/ 32	K.VFDEFKPLVEEPQNLIK .Q	2	2044.892
IPI00022434	0.9893	13/ 14	K.FQNALLVR.Y	2	960.092
IPI00022434	0.9586	13/ 14	T.PTLVEVSR.N	2	900.292
IPI00022434	0.9545	14/ 16	K.QTALVELVK.H	2	1000.192
IPI00022434		1 22/ 28	K.KVPQVSTPTLVEVSR.N	2	1639.792
IPI00022434	0.9915	28/ 56	K.KVPQVSTPTLVEVSR.N	3	1640.492
IPI00022434	0.9989	20/ 26	K.VPQVSTPTLVEVSR.N	2	1512.092
IPI00022434	0.9852	16/ 26	K.KVPQVSTPTLVEVS.R	2	1483.992
IPI00022434	0.9947	13/ 18	K.EFNAETFTFH.A	2	1241.492
IPI00022434	0.9989	22/ 24	C.FSALEVDETYVPK.E K.AVM[147.19]DDFAAF	2	1498.692
IPI00022434	0.9994	19/ 22	VEK.C	2	1358.092
IPI00022434	0.9676	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1361.292
IPI00022434	0.9611	13/ 22	K.AVM[147.19]DDFAAF VEK.C	1	1357.692
IPI00022434	0.9997	19/ 24	K.QNC[160.14]ELFEQL GEYK.F	2	1657.692
IPI00022434	0.9992	18/ 30	K.VFDEFKPLVEEPQNLI. K	2	1916.792
IPI00022434	0.9822	17/ 22	K.AVMDDFAAFVEK.C K.VFDEFKPLVEEPQNLIK	2	1341.792
IPI00022434	0.9904	21/ 32	.Q	2	2046.192
IPI00022434	0.9769	22/ 28	F.DEFKPLVEEPQNLIK.Q K.VFDEFKPLVEEPQNLIK	2	1798.792
IPI00022434	0.9935	24/ 64	.Q	3	2046.192
IPI00022434	0.9984	38/ 80	R.M[147.19]PC[160.14] ]AEDYLSVVLNQLC[160. 14]VLHEK.T	3	2535.392



IPI00022434	0.9998	36/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.092
IPI00022434	0.9944	27/ 56	K.KVPQVSTPTLVEVSR.N	3	1641.092
IPI00022434	0.993	11/ 16	K.QTALVELVK.H	2	1000.692
IPI00022434	1	20/ 26	K.VPQVSTPTLVEVSR.N K.AVM[147.19]DDFAAF	2	1512.692
IPI00022434	0.993	18/ 22	VEK.C K.QNC[160.14]ELFEQL	2	1360.592
IPI00022434	0.9981	15/ 24	GEYK.F	2	1657.692
IPI00022434	0.9998	17/ 22	K.AVMDDFAAFVEK.C	2	1342.292
IPI00022434	0.9913	13/ 14	K.FQNALLVR.Y	2	961.392
IPI00022434	0.9385	9/ 10	K.TPVSDR.V K.C[160.14]C[160.14]T	2	674.592
IPI00022434	0.9992	15/ 16	ESLVNR.R V.VLNQLC[160.14]VLHE	2	1138.492
IPI00022434	0.9866	21/ 40	K.T	3	1353.092
IPI00022434	0.9572	30/ 56	K.KVPQVSTPTLVEVSR.N	3	1640.492
IPI00022434	0.9951	13/ 14	K.FQNALLVR.Y	2	960.792
IPI00022434	0.9624	16/ 18	P.LVEEPQNLIK.Q	2	1181.892
IPI00022434	0.9801	13/ 14	T.PTLVEVSR.N	2	899.892
IPI00022434	1	22/ 28	K.KVPQVSTPTLVEVSR.N	2	1640.792
IPI00022434	0.9575	13/ 16	K.QTALVELVK.H	2	999.992
IPI00022434	0.9991	21/ 26	K.VPQVSTPTLVEVSR.N R.RPC[160.14]FSALEV	2	1512.592
IPI00022434	0.9992	21/ 30	DETYVPK.E E.TFTFHADIC[160.14]T	2	1910.892
IPI00022434	0.9948	22/ 52	LSEK.E K.AVM[147.19]DDFAAF	3	1670.992
IPI00022434	0.9972	18/ 22	VEK.C	2	1359.392
IPI00022434	0.999	22/ 24	C.FSALEVDETYVPK.E K.AVM[147.19]DDFAAF	2	1498.692
IPI00022434	0.9999	18/ 22	VEK.C P.C[160.14]FSALEVDET	2	1358.492
IPI00022434	0.9995	23/ 26	YVPK.E K.AVM[147.19]DDFAAF	2	1657.392
IPI00022434	1	14/ 22	VEK.C V.M[147.19]DDFAAFVE	1	1359.592
IPI00022434	0.9331	14/ 18	K.C K.AVM[147.19]DDFAAF	2	1189.492
IPI00022434	0.9978	18/ 22	VEK.C K.QNC[160.14]ELFEQL	2	1361.492
IPI00022434	0.9999	20/ 24	GEYK.F K.QNC[160.14]ELFEQL	2	1657.792
IPI00022434	0.975	26/ 48	GEYK.F	3	1658.492

IPI00022434	0.9988	24/ 28	R.PC[160.14]FSALEVDE TYVPK.E	2	1754.592
IPI00022434	0.984	25/ 72	K.EFNAETFTFHADIC[16 0.14]TLSEK.E	3	2260.292
IPI00022434	0.9756	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1358.292
IPI00022434	0.9996	17/ 22	K.AVMDDFAAFVEK.C	2	1343.692
IPI00022434	0.9994	18/ 24	K.QNC[160.14]ELFEQL GEYK.F	2	1657.592
IPI00022434	0.9993	21/ 28	F.DEFKPLVEEPQNLIK.Q	2	1798.892
IPI00022434	0.9999	21/ 32	K.VFDEFKPLVEEPQNLIK .Q	2	2045.092
IPI00022434	1	20/ 32	K.VFDEFKPLVEEPQNLIK .Q	2	2048.292
IPI00022434	0.9998	29/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.692
IPI00022434	0.988	34/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.492
IPI00022434	0.9623	16/ 20	V.VLNQLC[160.14]VLHE K.T	2	1354.092
IPI00022434	0.9995	29/ 72	P.C[160.14]AEDYLSVVL NQLC[160.14]VLHEK.T	3	2290.192
IPI00022434	1	39/ 80	R.M[147.19]PC[160.14 ]AEDYLSVVLNQLC[160. 14]VLHEK.T	3	2535.392
IPI00022434	0.9443	31/ 84	K.RM[147.19]PC[160.1 4]AEDYLSVVLNQLC[16 0.14]VLHEK.T	3	2691.792
IPI00022434	0.9996	28/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2045.892
IPI00022434	0.9926	15/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1359.992
IPI00022434	0.9469	12/ 14	K.FQNALLVR.Y	2	961.192
IPI00022434	0.9998	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1358.692
IPI00022434	0.9992	17/ 24	K.QNC[160.14]ELFEQL GEYK.F	2	1659.992
IPI00022434	0.9949	30/ 80	R.M[147.19]PC[160.14 ]AEDYLSVVLNQLC[160. 14]VLHEK.T	3	2535.392
IPI00022434	0.9914	13/ 14	K.FQNALLVR.Y	2	961.292
IPI00022434	0.9999	33/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2045.692
IPI00022434	0.9997	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1358.392
IPI00022434	0.9999	30/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.992

			K.C[160.14]C[160.14]A AADPHEC[160.14]YAK. V	2	1552.892
IPI00022434	0.9606	16/ 24		2	1128.992
IPI00022434	0.9952	14/ 18	K.KQTALVELVK.H	2	960.292
IPI00022434	0.9874	13/ 14	K.FQNALLVR.Y	2	1068.792
IPI00022434	0.9364	15/ 18	K.KVPQVSTPTL.V	2	900.792
IPI00022434	0.9512	13/ 14	T.PTLVEVSR.N	2	
IPI00022434	0.9918	22/ 28	K.KVPQVSTPTLVEVSR.N	2	1639.392
IPI00022434	0.9587	15/ 16	R.FKDLGEENF.K	2	1098.192
IPI00022434	0.9772	13/ 14	K.FQNALLVR.Y	2	961.192
IPI00022434	0.9764	27/ 56	K.KVPQVSTPTLVEVSR.N	3	1640.192
IPI00022434	0.9972	16/ 26	K.KVPQVSTPTLVEVS.R	2	1484.592
IPI00022434	0.9997	22/ 26	K.VPQVSTPTLVEVSR.N	2	1511.692
IPI00022434	0.9924	16/ 26	K.KVPQVSTPTLVEVS.R	2	1483.592
IPI00022434	0.9979	19/ 24	K.KVPQVSTPTLVEV.S R.RPC[160.14]FSALEV	2	1397.792
IPI00022434	0.9946	16/ 30	DETYVPK.E	2	1910.692
IPI00022434	0.9952	22/ 24	C.FSALEVDETYVPK.E	2	1498.692
IPI00022434	0.9974	23/ 26	P.C[160.14]FSALEVDET YVPK.E	2	1658.492
IPI00022434	0.9546	14/ 22	K.AVM[147.19]DDFAAF VEK.C	1	1357.592
IPI00022434	0.9987	18/ 22	K.AVM[147.19]DDFAAF VEK.C	2	1358.492
IPI00022434	0.9988	20/ 24	K.QNC[160.14]ELFEQL GEYK.F	2	1658.992
IPI00022434	0.9865	22/ 48	K.QNC[160.14]ELFEQL GEYK.F	3	1658.892
IPI00022434	0.9999	34/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.292
IPI00022434	0.9929	19/ 28	K.VFDEFKPLVEEPQNL.I	2	1803.892
IPI00022434	0.994	17/ 22	K.AVMDDFAAFVEK.C K.QNC[160.14]ELFEQL	2	1342.892
IPI00022434	0.9963	19/ 22	GEYK.K K.VFDEFKPLVEEPQNLIK	2	1531.492
IPI00022434	0.9939	35/ 64	.Q K.VFDEFKPLVEEPQNLIK	3	2046.592
IPI00022434	0.9499	21/ 32	.Q	2	2045.992
IPI00022434	0.9983	19/ 28	F.DEFKPLVEEPQNLIK.Q K.VFDEFKPLVEEPQNLIK	2	1798.792
IPI00022434	0.9987	27/ 64	.Q	3	2046.192

IPI00022434	0.9637	17/ 30	K.VFDEFKPLVEEPQNLI. K	2	1917.092
IPI00022434	0.9599	27/ 72	K.EFNAETFTFHADIC[16 0.14]TLSEK.E	3	2260.992
IPI00022434	0.9979	19/ 30	K.VFDEFKPLVEEPQNLI. K	2	1917.392
IPI00022434	0.9929	19/ 30	K.VFDEFKPLVEEPQNLI. K	2	1917.892
IPI00022434	0.9983	26/ 64	K.VFDEFKPLVEEPQNLIK .Q	3	2046.392
IPI00022434	0.9937	13/ 14	K.FQNALLVR.Y	2	961.192
IPI00022434	0.9597	20/ 40	T.AFHDNEETFLK.K	3	1350.692
IPI00022434	0.9971	14/ 16	K.SLHTLFGDK.L	2	1017.492
IPI00022434	0.9964	14/ 18	K.LVNEVTEFAK.T	2	1149.192
IPI00022434	0.9973	23/ 44	C.TAFHDNEETFLK.K	3	1452.292
IPI00022434	0.9995	16/ 18	K.LVNEVTEFAK.T	2	1148.292
IPI00022434	0.9932	13/ 18	K.LVNEVTEFAK.T	1	1148.592
IPI00022434	0.9959	15/ 18	K.LVNEVTEFAK.T	2	1151.992
IPI00022434	0.9987	16/ 18	K.LVNEVTEFAK.T	2	1149.192
IPI00022434	0.9983	16/ 18	K.LVNEVTEFAK.T	2	1149.392
IPI00022434	0.9714	13/ 18	K.LVNEVTEFAK.T	1	1149.492
IPI00022434	0.9979	15/ 18	K.LVNEVTEFAK.T	2	1149.792
IPI00022434	0.9994	16/ 18	K.LVNEVTEFAK.T	2	1151.292
IPI00022434	0.9969	16/ 18	K.LVNEVTEFAK.T	2	1150.892
IPI00022434	0.9999	16/ 18	K.LVNEVTEFAK.T	2	1150.092
IPI00022434	0.9896	13/ 18	K.LVNEVTEFAK.T	1	1148.492
IPI00022434	0.9997	15/ 18	K.LVNEVTEFAK.T	2	1149.692
IPI00022434	0.9932	14/ 18	K.LVNEVTEFAK.T	1	1148.692
IPI00022434	0.9813	12/ 18	K.LVNEVTEFAK.T K.SLHTLFGDKLC[160.1 4]TVAT.L	1	1150.592
IPI00022434	0.9031	19/ 28	K.SLHTLFGDKLC[160.1 4]TVATLR.E	2	1662.592
IPI00022434	0.9982	29/ 64	K.SLHTLFGDKLC[160.1 4]TVATLR.E	3	1932.892
IPI00022434	0.9983	29/ 64	K.SLHTLFGDKLC[160.1 4]TVATLR.E	3	1933.192
IPI00022434	0.9994	21/ 30	K.SLHTLFGDKLC[160.1 4]TVATL.R	2	1778.792
IPI00022434	0.9401	19/ 24	K.ALVLIAFAQYLQQ.C	2	1477.692
IPI00022434	0.9999	16/ 18	K.LVNEVTEFAK.T	2	1150.492
IPI00022434	0.9905	12/ 18	K.LVNEVTEFAK.T K.ALVLIAFAQYLQQC[16 0.14]PFEDHVK.L	1	1148.592
IPI00022434	0.9759	22/ 80	R.NEC[160.14]FLQHK. D	3	2492.492
IPI00022434	0.9954	11/ 14	K.DDNPMLPR.L	2	940.492
IPI00022434	0.9392	11/ 14	R.NEC[160.14]FLQHK. D	2	1075.992
IPI00022434	0.9114	11/ 14	K.LC[160.14]TVATLR.E R.LVRPEVDVM[147.19] C[160.14]TA.F	2	934.492
IPI00022434	0.9919	15/ 22		2	1405.392

IPI00022434	0.9917	14/ 18	K.LVNEVTEFAK.T	2	1150.392
IPI00022434	0.9823	13/ 18	K.LVNEVTEFAK.T	1	1150.692
IPI00022434	0.9929	13/ 18	K.LVNEVTEFAK.T	1	1148.692
IPI00022434	1	16/ 18	K.LVNEVTEFAK.T	2	1149.592
IPI00022434	0.999	16/ 18	K.LVNEVTEFAK.T	2	1150.092
IPI00022434	0.9984	18/ 24	R.LVRPEVDVM[147.19] C[160.14]TAF.H	2	1552.392
IPI00022434	0.9804	18/ 24	K.SLHTLFGDKLC[160.1 4]TV.A	2	1490.592
IPI00022434	0.998	26/ 64	K.SLHTLFGDKLC[160.1 4]TVATLR.E	3	1932.092
IPI00022434	0.9978	31/ 64	K.SLHTLFGDKLC[160.1 4]TVATLR.E	3	1933.792
IPI00022434	0.9982	32/ 64	K.SLHTLFGDKLC[160.1 4]TVATLR.E	3	1932.492
IPI00022434	0.9855	21/ 30	K.SLHTLFGDKLC[160.1 4]TVATL.R	2	1776.792
IPI00022434	0.9988	21/ 30	K.SLHTLFGDKLC[160.1 4]TVATL.R	2	1776.792
IPI00022434	0.9588	17/ 24	K.ALVLIAFAQYLQQ.C	2	1478.192
IPI00022434	0.9444	11/ 12	R.NEC[160.14]FLQH.K	2	947.492
IPI00022434	0.9903	30/ 80	K.QEPERNEC[160.14]FL QHKDDNPNLPR.L	3	2637.492
IPI00022434	0.9882	14/ 22	R.LVRPEVDVM[147.19] C[160.14]TA.F	2	1406.592
IPI00022434	0.9911	13/ 18	K.LVNEVTEFAK.T	1	1148.592
IPI00022434	1	13/ 18	K.LVNEVTEFAK.T	1	1150.692
IPI00022434	0.9997	16/ 18	K.LVNEVTEFAK.T	2	1149.592
IPI00022434	0.9991	16/ 18	K.LVNEVTEFAK.T	2	1149.592
IPI00022434	0.9056	19/ 28	K.SLHTLFGDKLC[160.1 4]TVAT.L	2	1662.692
IPI00022434	0.9495	18/ 26	K.SLHTLFGDKLC[160.1 4]TVA.T	2	1561.492
IPI00022434	1	18/ 30	K.SLHTLFGDKLC[160.1 4]TVATL.R	2	1775.892
IPI00022434	0.9998	21/ 30	K.SLHTLFGDKLC[160.1 4]TVATL.R	2	1776.792
IPI00022434	0.9871	15/ 18	K.LVNEVTEFAK.T	2	1148.592
IPI00022434	0.9956	18/ 40	R.LAKTYETTLEK.C	3	1297.792
IPI00022434	0.9983	14/ 16	S.LAADFVESK.D	2	979.192
IPI00022434	0.9886	25/ 40	R.FPKAEFAEVSK.L	3	1252.592
IPI00022434	0.9877	11/ 12	K.LVTDLTK.V	2	789.292
IPI00022434	0.9997	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1639.992
IPI00022434	0.9998	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1639.192
IPI00022434	0.9982	17/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1640.592

IPI00022434	0.9997	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1640.992
IPI00022434	0.9938	17/ 20	R.HPDYSVLLLLR.L	2	1311.792
IPI00022434	0.9947	28/ 56	K.AEFAEVSKLVTDLTK.V M.PADLPSLAADFVESK.	3	1652.292
IPI00022434	0.9875	25/ 28	D K.DVFLGM[147.19]FLYE	2	1561.092
IPI00022434	0.9998	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1639.592
IPI00022434	1	27/ 48	YAR.R K.DVFLGM[147.19]FLYE	3	1640.992
IPI00022434	0.9955	18/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1642.692
IPI00022434	0.9812	18/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1639.292
IPI00022434	0.9988	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1641.092
IPI00022434	0.9965	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1640.892
IPI00022434	0.9998	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1640.792
IPI00022434	0.999	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1640.692
IPI00022434	0.9997	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1640.792
IPI00022434	0.9649	15/ 22	YA.R	2	1483.992
IPI00022434	0.9256	10/ 14	K.TYETTLEK.C K.LKEC[160.14]C[160.	2	984.892
IPI00022434	0.9926	23/ 44	14]EKPLLEK.S K.YIC[160.14]ENQDSIS	3	1547.492
IPI00022434	0.9992	20/ 22	SK.L	2	1443.192
IPI00022434	0.9046	9/ 12	K.LVTDLTK.V	1	788.692
IPI00022434	0.9998	27/ 44	R.RHPDYSVLLLLR.L	3	1468.992
IPI00022434	0.9718	24/ 40	R.HPDYSVLLLLR.L	3	1312.892
IPI00022434	0.9248	17/ 20	R.HPDYSVLLLLR.L M.PADLPSLAADFVESK.	2	1313.092
IPI00022434	0.9982	25/ 28	D	2	1560.692
IPI00022434	0.9834	29/ 56	K.AEFAEVSKLVTDLTK.V K.DVFLGM[147.19]FLYE	3	1652.092
IPI00022434	0.9997	20/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1640.892
IPI00022434	0.9651	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1640.692
IPI00022434	0.9998	19/ 24	YAR.R K.DVFLGM[147.19]FLYE	2	1639.992
IPI00022434	1	19/ 24	YAR.R	2	1640.392

IPI00022434	1	18/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1641.592
IPI00022434	1	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1640.592
IPI00022434	0.9992	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1639.892
IPI00022434	0.9655	10/ 14	K.AEFAEVSK.L	1	879.692
IPI00022434	0.913	24/ 44	K.LKEC[160.14]C[160. 14]EKPLLEK.S	3	1548.492
IPI00022434	0.9153	9/ 12	K.LVTDLTK.V	1	788.892
IPI00022434	0.9765	16/ 20	R.HPDYSVLLLLR.L	2	1311.792
IPI00022434	0.9998	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1639.292
IPI00022434	0.9979	28/ 48	K.DVFLGM[147.19]FLYE YAR.R	3	1640.492
IPI00022434	0.9844	15/ 18	K.DVFLGM[147.19]FLYE .Y	2	1248.892
IPI00022434	0.9997	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1639.992
IPI00022434	0.9506	18/ 22	K.DVFLGM[147.19]FLYE YA.R	2	1483.592
IPI00022434	0.9991	19/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1638.992
IPI00022434	0.9998	18/ 24	K.DVFLGM[147.19]FLYE YAR.R	2	1639.592
IPI00022434	0.9951	13/ 14	K.KYLYEIAR.R	2	1054.692
IPI00022434	0.9325	9/ 12	K.YLYEIAR.R	1	926.492
IPI00022434	0.9947	11/ 12	K.YLYEIAR.R	2	927.392
IPI00022434	0.9799	12/ 12	K.YLYEIAR.R	2	926.892
IPI00022434	0.9892	11/ 12	K.YLYEIAR.R	2	927.892
IPI00022434	0.9885	11/ 12	K.YLYEIAR.R	2	927.692
IPI00022434	0.9992	28/ 72	K.AAFTEC[160.14]C[16 0.14]QAADKAAC[160.1 4]LLPK.L	3	2125.092
IPI00022434	0.9999	24/ 36	K.AAFTEC[160.14]C[16 0.14]QAADKAAC[160.1 4]LLPK.L	2	2124.592
IPI00022434	0.9994	27/ 52	R.HPYFYAPELLFFAK.R	3	1744.792
IPI00022434	0.9929	21/ 26	R.HPYFYAPELLFFAK.R	2	1743.792
IPI00022434	0.941	18/ 24	H.PYFYAPELLFFAK.R	2	1605.892
IPI00022434	0.9864	31/ 72	K.AAFTEC[160.14]C[16 0.14]QAADKAAC[160.1 4]LLPK.L	3	2126.192
IPI00022434	0.9999	16/ 22	K.AAFTEC[160.14]C[16 0.14]QAADK.A	2	1370.992
IPI00022434	0.9221	11/ 12	K.AAC[160.14]LLPK.L	2	771.492
IPI00022434	0.9669	12/ 12	K.YLYEIAR.R	2	927.392

IPI00022434	0.999	25/ 72	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2125.592
IPI00022434	0.9991	29/ 72	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2125.392
IPI00022434	1	24/ 36	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	2	2125.092
IPI00022434	0.9692	26/ 76	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPKL.D	3	2239.892
IPI00022434	0.9999	34/ 80	R.YKAAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2416.392
IPI00022434	0.9995	16/ 20	Y.FYAPELLFFAK.R	2	1345.792
IPI00022434	0.9931	28/ 52	R.HPYFYAPELLFFAK.R	3	1744.292
IPI00022434	1	27/ 56	R.HPYFYAPELLFFAKR.Y	3	1900.892
IPI00022434	0.9875	20/ 22	P.YFYAPELLFFAK.R	2	1509.992
IPI00022434	0.9979	11/ 12	K.YLYEIAR.R	2	927.492
IPI00022434	0.9925	12/ 12	K.YLYEIAR.R	2	927.592
IPI00022434	0.9477	11/ 12	K.AAC[160.14]LLPK.L	2	772.892
IPI00022434	0.9984	11/ 12	K.YLYEIAR.R	2	927.792
IPI00022434	0.9994	24/ 72	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2125.492
IPI00022434	0.9032	28/ 72	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2127.092
IPI00022434	0.9999	36/ 80	R.YKAAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2416.692
IPI00022434	0.9994	31/ 72	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	3	2126.092
IPI00022434	0.9957	32/ 76	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPKL.D	3	2239.492
IPI00022434	1	22/ 36	K.AAFTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	2	2125.892
IPI00022434	0.9818	19/ 32	A.FTEC[160.14]C[160.14]QAADKAAC[160.14]LLPK.L	2	1982.792
IPI00022434	0.9998	16/ 20	Y.FYAPELLFFAK.R	2	1345.192
IPI00022434	0.9995	20/ 22	P.YFYAPELLFFAK.R	2	1508.692



IPI00022463	0.999	17/ 18	K.DSGFQM[147.19]NQL R.G	2	1212.192
IPI00022463	0.9231	11/ 14	K.YLGEEYVK.A	2	1000.492
IPI00022463	0.9963	15/ 20	K.EGYGYTGAFR.C	2	1284.092
IPI00022463	0.9302	14/ 20	K.SASDLTWDNLK.G K.M[147.19]YLGYEYVT	2	1249.592
IPI00022463	1	19/ 22	AIR.N	2	1495.692
IPI00022463	0.986	15/ 26	K.EDPQTFYYAVAVVK.K K.SVIPSDGPSVAC[160.	2	1629.892
IPI00022463	0.9881	15/ 26	14]VK.K K.M[147.19]YLGYEYVT	2	1416.692
IPI00022463	0.9988	20/ 22	AIR.N K.IEC[160.14]VSAETTE	2	1494.892
IPI00022463	0.9902	23/ 28	DC[160.14]IAK.I R.C[160.14]LVEKGDVA	2	1725.392
IPI00022463	0.996	25/ 44	FVK.H K.SVIPSDGPSVAC[160.	3	1366.092
IPI00022463	0.9983	17/ 26	14]VK.K	2	1415.692
IPI00022463	0.978	13/ 18	E.GYYGYTGAFR.C I.PSDGPSVAC[160.14]	2	1154.292
IPI00022463	0.9716	17/ 20	VK.K	2	1117.992
IPI00022463	0.9996	18/ 20	K.EGYGYTGAFR.C	2	1283.492
IPI00022463	0.9999	16/ 20	K.SASDLTWDNLK.G R.FDEFFSEGC[160.14]	2	1249.592
IPI00022463	0.9974	19/ 26	APGSK.K K.M[147.19]YLGYEYVT	2	1577.492
IPI00022463	0.9982	20/ 22	AIR.N	2	1496.292
IPI00022463	0.999	23/ 26	K.EDPQTFYYAVAVVK.K R.TAGWNIPM[147.19]G	2	1629.992
IPI00022463	0.9982	17/ 26	LLYNK.I	2	1593.692
IPI00022463	0.9976	13/ 14	K.YLGEEYVK.A K.SVIPSDGPSVAC[160.	2	1000.192
IPI00022463	0.9881	12/ 26	14]VK.K R.C[160.14]LVEKGDVA	2	1415.392
IPI00022463	0.9992	25/ 44	FVK.H K.M[147.19]YLGYEYVT	3	1365.992
IPI00022463	0.9997	20/ 22	AIR.N K.M[147.19]YLGYEYVT	2	1494.792
IPI00022463	0.9999	20/ 22	AIR.N	2	1495.092
IPI00022463	0.9235	11/ 14	K.DSAHGFLK.V R.WC[160.14]AVSEHEA	2	874.892
IPI00022463	0.9562	17/ 40	TK.C K.IEC[160.14]VSAETTE	3	1318.692
IPI00022463	0.9878	22/ 28	DC[160.14]IAK.I R.C[160.14]LVEKGDVA	2	1725.492
IPI00022463	0.9987	26/ 44	FVK.H	3	1365.992

IPI00022463	0.9995	16/ 22	R.C[160.14]LVEKGDVA FVK.H	2	1364.592
IPI00022463	0.9981	17/ 26	K.SVIPSDGPSVAC[160. 14]VK.K	2	1415.592
IPI00022463	0.9742	15/ 18	E.GYYGYTGAFR.C	2	1154.192
IPI00022463	0.9985	17/ 20	K.EGYYGYTGAFR.C	2	1284.792
IPI00022463	0.9286	16/ 20	K.SASDLTWDNLK.G	2	1248.892
IPI00022463	0.9687	26/ 48	D.PQTFYYAVAVVK.D K.C[160.14]STSSLLEAC	3	1514.592
IPI00022463	0.9996	21/ 24	[160.14]TFR.R R.FDEFFSEGC[160.14]	2	1532.892
IPI00022463	0.9901	24/ 26	APGSK.K	2	1578.492
IPI00022463	0.9985	20/ 22	D.PQTFYYAVAVVK.K K.DLLFRDDTVC[160.14]	2	1385.592
IPI00022463	0.9968	19/ 24	]LAK.L K.M[147.19]YLGYEYVT	2	1565.792
IPI00022463	1	20/ 22	AIR.N	2	1493.992
IPI00022463	0.9738	18/ 22	K.MYLGYEYVTAIR.N	2	1477.792
IPI00022463	0.9733	19/ 22	D.PQTFYYAVAVVK.K	2	1387.792
IPI00022463	0.9997	20/ 22	K.MYLGYEYVTAIR.N	2	1479.792
IPI00022463	0.9989	22/ 26	K.EDPQTFYYAVAVVK.K	2	1629.592
IPI00022463	1	31/ 52	K.EDPQTFYYAVAVVK.K R.TAGWNIPM[147.19]G	3	1630.492
IPI00022463	0.9432	19/ 26	LLYNK.I R.SAGWNIPIGLLYC[160	2	1593.792
IPI00022463	0.9967	35/ 72	.14]DLPEPR.K K.M[147.19]YLGYEYVT	3	2173.092
IPI00022463	0.9988	19/ 22	AIR.N K.DSGFQM[147.19]NQL	2	1494.292
IPI00022463	0.977	16/ 18	R.G K.IEC[160.14]VSAETTE	2	1211.892
IPI00022463	0.9996	23/ 28	DC[160.14]IAK.I R.C[160.14]LVEKGDVA	2	1725.692
IPI00022463	0.9972	17/ 22	FVK.H I.PSDGPSVAC[160.14]	2	1365.792
IPI00022463	1	13/ 20	VK.K R.C[160.14]LVEKGDVA	1	1115.592
IPI00022463	0.9959	27/ 44	FVK.H K.SVIPSDGPSVAC[160.	3	1366.192
IPI00022463	0.9942	16/ 26	14]VK.K	2	1416.492
IPI00022463	0.9989	18/ 20	K.EGYYGYTGAFR.C	2	1283.892
IPI00022463	1	17/ 20	K.SASDLTWDNLK.G R.FDEFFSEGC[160.14]	2	1249.192
IPI00022463	1	24/ 26	APGSK.K K.C[160.14]STSSLLEAC	2	1577.492
IPI00022463	0.9456	21/ 24	[160.14]TFR.R	2	1531.092
IPI00022463	0.9988	20/ 22	D.PQTFYYAVAVVK.K	2	1386.592

IPI00022463	0.9971	20/ 22	K.M[147.19]YLGYEYVT AIR.N	2	1497.592
IPI00022463	0.9998	20/ 22	K.M[147.19]YLGYEYVT AIR.N	2	1493.892
IPI00022463	0.9961	25/ 52	K.EDPQTFYYAVAVVK.K	3	1630.492
IPI00022463	0.9989	23/ 26	K.EDPQTFYYAVAVVK.K	2	1628.892
IPI00022463	0.9998	20/ 22	K.MYLGYEYVTAIR.N	2	1478.692
IPI00022463	0.9888	19/ 26	R.TAGWNIPM[147.19]G LLYNK.I	2	1594.792
IPI00022488	1	28/ 56	N.VAEGETKPPDPVTER. C	3	1642.992
IPI00022488	0.9998	34/ 68	A.HGNVAEGETKPPDPVT ER.C	3	1951.192
IPI00022488	0.9805	28/ 64	H.GNVAEGETKPPDPVTE R.C	3	1815.292
IPI00022488	0.993	16/ 20	K.GGYTLVSGYPK.R	2	1141.592
IPI00022488	0.9623	18/ 20	K.NFPSPVDAAFR.Q	2	1220.292
IPI00022488	0.9753	15/ 18	R.YYC[160.14]FQGNQF L.R	2	1340.892
IPI00022488	0.9889	27/ 44	K.EVGTPHGIILDSVDAA FIC[160.14]PGSS.R	2	2341.892
IPI00022875	0.9139	25/ 56	D.VAGLFLANSSEALER.A	3	1577.292
IPI00022895	0.9951	17/ 20	R.ATWSGAVLAGR.D	2	1088.092
IPI00022895	1	39/ 64	K.VTLTC[160.14]VAPLS GVDFQLR.R	3	1876.992
IPI00022895	0.9664	16/ 30	K.NGVAQEPVHLDSPAIK .H	2	1677.392
IPI00022895	0.997	14/ 18	R.LETPDFQLFK.N	2	1237.792
IPI00022895	0.9623	21/ 38	K.SLPAPWLSM[147.19] APVSWITPGLK.T	2	2166.492
IPI00022895	0.9745	31/ 76	K.SLPAPWLSM[147.19] APVSWITPGLK.T	3	2166.792
IPI00022895	0.9981	24/ 38	K.SLPAPWLSM[147.19] APVSWITPGLK.T	2	2169.592
IPI00022974	0.9094	16/ 18	R.FYTIEILKVE.-	2	1255.492
IPI00022974	0.9868	14/ 16	Q.IAAVVDVIR.E	2	955.292
IPI00022974	0.9175	17/ 36	K.IIIKNFDIPK.S	3	1201.992
IPI00022974	0.9778	13/ 18	S.IPLQGAFNYK.Y	2	1150.492
IPI00022974	0.9944	19/ 24	L.ISSIPLQGAFNYK.Y R.ELGIC[160.14]PDDAA	2	1437.592
IPI00022974	0.9981	24/ 28	VIPIK.N	2	1610.892
IPI00022974	0.9704	23/ 28	R.ELGIC[160.14]PDDAA VIPIK.N	2	1611.192
IPI00022974	0.9738	19/ 28	R.ELGIC[160.14]PDDAA VIPIK.N	2	1611.492
IPI00022974	0.992	19/ 22	R.TVQIAAVVDVIR.E	2	1282.892

IPI00022974	0.9992	30/ 72	K.SVRPNDEVTAVLAVQT ELK.E	3	2071.392
IPI00022974	0.9969	35/ 76	N.DEVTAVLAVQTELKEC[ 160.14]M[147.19]VVK.	3	2278.692
IPI00022974	0.9153	16/ 18	T R.FYTIEILKVE.-	2	1254.192
IPI00022974	0.9988	25/ 28	T.YLISS IPLQGAFNYK.Y	2	1714.992
IPI00022974	0.9982	24/ 30	K.TYLISS IPLQGAFNYK.Y	2	1816.192
IPI00022974		1 34/ 60	K.TYLISS IPLQGAFNYK.Y	3	1816.392
IPI00022974	0.9896	19/ 26	K.TYLISS IPLQGAFN.Y	2	1525.092
IPI00022974	0.992	32/ 60	K.TYLISS IPLQGAFNYK.Y	3	1817.592
IPI00022974	0.9993	17/ 30	K.TYLISS IPLQGAFNYK.Y	2	1816.992
IPI00022974	0.9998	19/ 30	K.TYLISS IPLQGAFNYK.Y	2	1816.192
IPI00022974	0.9877	21/ 28	R.ELGIC[160.14]PDDAA VIPIK.N	2	1612.692
IPI00022974	0.9999	24/ 30	K.TYLISS IPLQGAFNYK.Y	2	1815.792
IPI00022974	0.9989	20/ 28	K.TYLISS IPLQGAFNY.K R.FC[160.14]TGLTQIET	2	1687.992
IPI00022977	0.9486	15/ 22	LF.K	2	1429.592
IPI00022977	0.914	14/ 20	K.VLTPELYAELR.A R.FC[160.14]TGLTQIET	2	1303.492
IPI00022977		1 20/ 24	LFK.S	2	1558.992
IPI00023020	0.956	12/ 14	Q.DLLSHEQK.G	2	969.392
IPI00023020	0.9965	21/ 48	R.LPSEFSQFPHGQK.G	3	1502.292
IPI00023020	0.9226	14/ 18	R.EQDLLSHEQK.G K.VQTSLC[160.14]PAH	2	1226.792
IPI00023020	0.9435	12/ 18	Q.D	2	1140.592
IPI00023020	0.9986	24/ 48	R.LPSEFSQFPHGQK.G	3	1502.592
IPI00023020	0.9876	20/ 22	S.YVLQTEELVANK.Q	2	1406.092
IPI00023020	0.9964	19/ 24	D.IFSTQDELLVYNK.N K.QGGSQSSYVLQTEELV	2	1569.392
IPI00023020	0.9993	35/ 72	ANK.Q	3	2038.692
IPI00023020	0.9912	21/ 26	K.DIFSTQDELLVYNK.N	2	1686.092
IPI00023020	0.9351	24/ 28	K.DIFSTQDELLVYNKN.Q	2	1799.992
IPI00023020	0.9951	26/ 52	K.DIFSTQDELLVYNK.N	3	1685.992
IPI00023020	0.9773	15/ 26	K.DIFSTQDELLVYNK.N	1	1685.892
IPI00023020	0.9872	22/ 26	K.DIFSTQDELLVYNK.N	2	1685.392
IPI00023020	0.9938	22/ 26	K.DIFSTQDELLVYNK.N	2	1685.592
IPI00023020	0.9931	21/ 26	K.DIFSTQDELLVYNK.N	2	1685.692
IPI00023020	0.9788	20/ 24	K.DIFSTQDELLVYN.K	2	1556.892

IPI00023020	0.9698	15/ 18	K.DIFSTQDELL.V	2	1180.692
IPI00023020	0.947	16/ 20	K.DIFSTQDELLV.Y	2	1279.092
IPI00023020	0.9087	19/ 22	K.DIFSTQDELLVY.N	2	1442.192
IPI00023020	0.9137	15/ 22	K.DIFSTQDELLVY.N	2	1443.592
IPI00023020	0.9949	19/ 22	K.DIFSTQDELLVY.N	2	1443.492
IPI00023020	0.9952	20/ 22	K.DIFSTQDELLVY.N	2	1442.492
IPI00023020	0.9645	15/ 26	K.DIFSTQDELLVY.NK.N	2	1685.592
IPI00023020	0.9977	18/ 22	K.DIFSTQDELLVY.N	2	1443.392
IPI00023020	0.9916	17/ 26	K.DIFSTQDELLVY.NK.N	2	1684.692
IPI00023020	0.9934	19/ 26	K.DIFSTQDELLVY.NK.N	2	1684.692
			K.VQTSLC[160.14]PAH		
IPI00023020	0.9812	13/ 18	Q.D	2	1140.492
IPI00023020	0.9976	22/ 26	K.DIFSTQDELLVY.NK.N	2	1684.892
IPI00023151	0.9947	18/ 24	R.LIQVDLNNPIAVR.M	2	1465.992
IPI00023501	0.9362	18/ 22	-.MAPVAVWAALAV.G	2	1198.892
IPI00023504	0.9699	18/ 20	K.IIIGNSSVGK.T	2	1100.092
			R.YADDSFTPAFVSTVGI		
IPI00023504	1	23/ 36	DFK.V	2	2080.292
			R.YADDSFTPAFVSTVGI		
IPI00023504	1	28/ 36	DFK.V	2	2080.992
IPI00023673	0.9784	16/ 24	R.SDLAVPSELALLK.A	2	1356.492
IPI00023673	0.9738	14/ 16	R.IDITLSSVK.C	2	976.292
IPI00023673	0.9917	13/ 26	R.ELSEALGQIFDSQR.G	2	1593.292
			R.IYTSPTWSAFVTDSSW		
IPI00023673	0.9979	21/ 34	SA.R	2	2005.792
			R.IYTSPTWSAFVTDSSW		
IPI00023673	1	21/ 32	S.A	2	1935.492
			R.IYTSPTWSAFVTDSSW		
IPI00023673	0.9988	20/ 34	SA.R	2	2006.492
IPI00023673	0.9928	15/ 18	R.RIDITLSSVK.C	2	1130.892
IPI00023673	0.9965	15/ 16	R.IDITLSSVK.C	2	975.092
IPI00023673	0.9983	20/ 24	R.SDLAVPSELALLK.A	2	1355.492
IPI00023673	0.9964	15/ 16	R.IDITLSSVK.C	2	975.692
			K.TLQALEFH TVPFQLLA.		
IPI00023673	0.9028	18/ 30	R	2	1828.292
IPI00023673	0.9254	14/ 18	R.RIDITLSSVK.C	2	1132.092
IPI00023673	0.9492	15/ 16	R.IDITLSSVK.C	2	975.892
IPI00023673	0.9985	18/ 24	R.SDLAVPSELALLK.A	2	1356.892
			K.TLQALEFH TVPFQLLA.		
IPI00023673	0.9837	19/ 30	R	2	1829.392
			R.IYTSPTWSAFVTDSSW		
IPI00023673	0.9885	17/ 32	S.A	2	1935.992
			R.IYTSPTWSAFVTDSSW		
IPI00023673	0.9882	17/ 34	SA.R	2	2005.992
IPI00023673	0.9877	14/ 16	R.IDITLSSVK.C	2	976.892
			K.TLQALEFH TVPFQLLA.		
IPI00023673	0.9641	19/ 30	R	2	1830.792
IPI00023673	0.9957	15/ 16	R.IDITLSSVK.C	2	975.192

IPI00023673	0.9964	18/ 24	R.SDLAVPSELALLK.A K.TLQALEFHTVPPFQLLA.	2	1355.992
IPI00023673	0.9761	18/ 30	R	2	1829.192
IPI00024175	0.9926	22/ 52	R.LYQTDPSGTYHAWK.A K.ALNVEPDGTGLTC[160	3	1667.992
IPI00024915	0.9973	26/ 88	.14]SLAPNIISQL.- R.FSM[147.19]VVQDGI	3	2384.392
IPI00024915	0.9997	18/ 20	VK.A K.ALNVEPDGTGLTC[160	2	1239.992
IPI00024915	0.9992	29/ 88	.14]SLAPNIISQL.-	3	2384.092
IPI00024915	0.9413	13/ 20	R.LLADPTGAFGK.E	2	1090.892
IPI00025318	0.9997	20/ 24	R.VYIASSSGSTAIK.K	2	1284.792
IPI00025415	0.9887	12/ 12	R.HLNC[160.14]GEK.G	2	857.692
IPI00025415	0.9916	18/ 20	Y.VLQTEELVVNK.Q	2	1271.992
IPI00025415	0.998	17/ 20	H.LGGSQQLLNYK.Q	2	1221.792
IPI00025415	0.9983	20/ 22	S.YVLQTEELVVNK.Q	2	1435.992
IPI00025415	0.9773	19/ 24	D.IFTTQDELLVYNK.N R.TQGGSQSSYVLQTEEL	2	1583.392
IPI00025415	0.9996	23/ 76	VVNK.Q K.DIFTTQDELLVYNKNQ	3	2167.292
IPI00025415	0.9958	26/ 76	HQTK.N R.TQGGSQSSYVLQTEEL	3	2436.992
IPI00025415	0.9952	27/ 38	VVNK.Q	2	2167.992
IPI00025415	0.999	22/ 26	K.DIFTTQDELLVYNK.N	2	1699.992
IPI00025415	0.9997	22/ 26	K.DIFTTQDELLVYNK.N	2	1699.392
IPI00025415	0.9581	23/ 28	K.DIFTTQDELLVYNKN.Q	2	1814.492
IPI00025415	0.9684	27/ 52	K.DIFTTQDELLVYNK.N	3	1701.092
IPI00025415	0.998	21/ 26	K.DIFTTQDELLVYNK.N	2	1699.192
IPI00025415	0.9998	19/ 26	K.DIFTTQDELLVYNK.N	2	1698.692
IPI00025415	0.9944	18/ 20	K.DIFTTQDELLV.Y	2	1293.592
IPI00025415	0.9927	16/ 22	K.DIFTTQDELLVY.N	2	1457.792
IPI00025415	0.9988	17/ 26	K.DIFTTQDELLVYNK.N	2	1698.192
IPI00025415	0.9994	21/ 26	K.DIFTTQDELLVYNK.N	2	1698.892
IPI00025415	0.9905	19/ 22	S.YVLQTEELVVNK.Q R.TQGGSQSSYVLQTEEL	2	1435.092
IPI00025415	0.9992	20/ 36	VVN.K	2	2039.592
IPI00025415	0.991	19/ 26	K.DIFTTQDELLVYNK.N	2	1698.792
IPI00025415	0.9434	16/ 20	K.DIFTTQDELLV.Y	2	1293.592
IPI00025426	0.9963	14/ 16	K.ATVLNYPK.C	2	1018.692
IPI00025426	0.9997	20/ 24	R.NQGNTWLTAFLK.T	2	1493.092
IPI00025426	0.9999	20/ 24	R.NQGNTWLTAFLK.T R.AFQPPFVELTM[147.1	2	1492.692
IPI00025426	0.9998	24/ 32	9]PYSVIR.G R.AFQPPFVELTM[147.1	2	2061.792
IPI00025426	0.9964	28/ 64	9]PYSVIR.G	3	2061.792
IPI00025427	0.9998	19/ 22	R.YPVVPVHLDTTI.-	2	1354.992

IPI00025427	0.9935	15/ 22	R.YPVVPVHLDTTI.-	2	1353.492
IPI00025447	0.9998	34/ 92	R.VETGVLKPGM[147.19 ]VVTFAPVNVTTTEVK.S	3	2532.092
IPI00025874	0.982	24/ 56	R.YDYQRQPDSGISSIR. S	3	1786.692
IPI00026197	0.9996	27/ 34	G.DIVM[147.19]TQSPD SLAVSLGER.A	2	1934.792
IPI00026259	0.9926	19/ 26	C.SSPLPLVVNTWPFK.N K.DILLPFQGQLDSIPVSN	2	1584.892
IPI00026270	0.9738	36/100	PSC[160.14]PM[147.19 ]IPLY.R	3	2930.792
IPI00026272	0.9928	23/ 34	V.TIAQGGVLPNIQAVLLP K.K	2	1832.092
IPI00026272	0.9994	37/ 72	R.VTIAQGGVLPNIQAVLL PK.K	3	1932.192
IPI00027223	1	30/ 64	K.KISGGSVVEM[147.19 ]QGDEM[147.19]TR.I	3	1856.192
IPI00027223	0.9999	20/ 30	K.ISGGSVVEM[147.19] QGDEM[147.19]TR.I	2	1727.492
IPI00027230	0.9999	24/ 36	R.LISLTDENALSGNEELT VK.I	2	2046.192
IPI00027230	0.9948	21/ 76	K.ESDDPMAYIHFTAEGE VTFK.S	3	2288.592
IPI00027230	0.9998	33/120	K.MTEAQEDGQSTSELIG QFGVGFYSAFLVADK.V	3	3325.692
IPI00027230	1	24/ 36	R.LISLTDENALSGNEELT VK.I	2	2046.092
IPI00027230	0.9998	29/120	K.MTEAQEDGQSTSELIG QFGVGFYSAFLVADK.V	3	3326.492
IPI00027230	0.9433	26/ 84	R.GTTITLVLKEEASDYLE LDTIK.N	3	2452.792
IPI00027230	0.9994	27/ 36	R.LISLTDENALSGNEELT VK.I	2	2046.092
IPI00027230	0.976	28/ 84	R.GTTITLVLKEEASDYLE LDTIK.N	3	2453.192
IPI00027230	1	36/144	K.MTEAQEDGQSTSELIG QFGVGFYSAFLVADK.VIV TSK.H	3	3954.792
IPI00027230	0.9572	33/ 84	R.GTTITLVLKEEASDYLE LDTIK.N	3	2453.592
IPI00027230	0.9999	46/120	K.MTEAQEDGQSTSELIG QFGVGFYSAFLVADK.V	3	3326.892

IPI00027230	0.9999	23/ 30	A.DDEVVDVDGTVEEDLG K.S	2	1734.692
IPI00027230	0.9997	25/ 36	R.LISLTDENALSGNEELT VK.I	2	2046.092
IPI00027230	0.9997	18/ 36	R.LISLTDENALSGNEELT VK.I	2	2046.792
IPI00027230	0.9982	29/ 84	R.GTTITLVLKEEASDYLE LDTIK.N	3	2454.592
IPI00027230	0.9341	28/ 84	R.GTTITLVLKEEASDYLE LDTIK.N	3	2452.592
IPI00027230	0.9999	35/ 80	R.LTESPC[160.14]ALVA SQYGWSGNMER.I	3	2357.892
IPI00027230	1	34/ 80	R.LTESPC[160.14]ALVA SQYGWSGNMER.I	3	2357.892
IPI00027255	0.9997	16/ 24	R.ALGQNPTNAEVLK.V K.EGGLGPLNIPLLADVT.	2	1354.292
IPI00027350	0.9278	21/ 30	R R.SDPVTLNVLYGPDVPTI	2	1578.592
IPI00027412	0.9972	26/ 40	SPSK.A R.VDGNSLIVGYVIGTQQ	2	2199.892
IPI00027412	0.9972	45/100	ATPGPAYSGR.E R.SDPVTLNVLYGPDVPTI	3	2621.992
IPI00027412	0.9958	26/ 40	SPSK.A R.SDPVTLNVLYGPDVPTI	2	2199.892
IPI00027412	0.993	29/ 80	SPSK.A	3	2200.292
IPI00027444	0.994	17/ 20	R.LGVQDLFNSSK.A	2	1207.692
IPI00027444	0.9985	16/ 18	K.FAYGYIEDLK.C	2	1217.992
IPI00027444	0.9912	20/ 26	K.TYNFLPEFLVSTQK.T	2	1686.992
IPI00027444	0.9916	17/ 20	R.LGVQDLFNSSK.A K.VIEHIM[147.19]EDLD	2	1207.892
IPI00027462	0.9989	18/ 28	TNADK.Q	2	1760.692
IPI00027462	0.9949	20/ 28	R.NIETIINTFHQYSVK.L	2	1806.892
IPI00027462	0.9962	19/ 28	R.NIETIINTFHQYSVK.L	2	1806.392
IPI00027462	0.9943	17/ 28	R.NIETIINTFHQYSVK.L	2	1809.492
IPI00027462	0.9948	11/ 14	R.LTWASHEK.M	2	970.892
IPI00027462	0.966	19/ 32	R.KDLQNFLKK.E	3	1134.592
IPI00027462	0.9997	19/ 28	R.NIETIINTFHQYSVK.L K.QLSFEFIM[147.19]L	2	1807.092
IPI00027462	0.9985	20/ 24	M[147.19]AR.L	2	1646.492
IPI00027462	0.9983	16/ 24	I.ETIINTFHQYSVK.L	2	1580.892
IPI00027462	0.9973	20/ 28	R.NIETIINTFHQYSVK.L	2	1807.692
IPI00027462	0.997	20/ 28	R.NIETIINTFHQYSVK.L	2	1806.792



IPI00027462	0.9932	19/ 28	R.NIETIINTFHQYSVK.L	2	1808.792
IPI00027462	0.9985	19/ 28	R.NIETIINTFHQYSVK.L	2	1806.992
IPI00027497	0.9972	23/ 32	K.TLAQLNPESLFIASK. T	2	1831.792
IPI00027509		1 22/ 28	K.LGLGADVAQVTGALR. S	2	1440.992
IPI00027806	0.9847	14/ 20	K.AVYLVLC[160.14]NYSP K.G	2	1313.692
IPI00027806	0.9991	15/ 20	K.AVYLVLC[160.14]NYSP K.G	2	1313.092
IPI00027827	0.9184	13/ 14	R.VTGVVLFQ. K.YQGLC[160.14]PPVP	2	890.892
IPI00028147	0.9994	15/ 18	R.T K.GVILYSDPADYFAPGV	2	1186.292
IPI00028514	0.9998	20/ 32	K.S K.GVILYSDPADYFAPGV	2	1811.692
IPI00028514	0.9999	22/ 32	K.S K.ALSM[147.19]C[160. 14]PPSPLGC[160.14]EL	2	1811.792
IPI00029236	0.9986	20/ 30	VK.E K.ALSM[147.19]C[160. 14]PPSPLGC[160.14]EL	2	1776.392
IPI00029236	0.9987	17/ 30	VK.E K.ITGTM[147.19]PPLPL	2	1774.792
IPI00029260	0.9959	19/ 38	EATGLALSSL.R R.SVPSDIFQIQATTIYAN	2	1997.892
IPI00029658	0.9998	28/ 88	TINTFR.I K.SIDVAC[160.14]HPG	3	2600.892
IPI00029739	0.9964	17/ 26	YALPK.A I.DVAC[160.14]HPGYAL	2	1526.592
IPI00029739	0.9806	17/ 22	PK.A R.DDM[147.19]TVC[16 0.14]VADFGLSKK.I	2	1327.892
IPI00029756	0.9673	16/ 28	K.KEPNLFS[167.08]HD AVVR.E	2	1702.292
IPI00029773	0.9576	16/ 24	R.LC[160.14]QDLGPGA FR.L	2	1593.592
IPI00029863	0.9978	18/ 20	R.LC[160.14]QDLGPGA FR.L	2	1233.492
IPI00029863	0.9452	16/ 20	FR.L G.EIVLTQSPGTLSLSPGE	2	1232.992
IPI00030205	0.9546	25/ 34	R.A R.FSGSGSGTDFTLTISR.	2	1884.792
IPI00030205	0.9999	23/ 30	L R.FSGSGSGTDFTLTISR.	2	1632.692
IPI00030205	0.9997	21/ 30	L R.FSGSGSGTDFTLTISR.	2	1633.992
IPI00030205		1 22/ 30	L L	2	1632.592

IPI00031121	0.9946	15/ 18	R.SNAQGIDLNR.N	2	1087.992
IPI00031169	0.9748	17/ 20	K.YIIIGDTGVGK.S	2	1135.492
IPI00031461	0.979	13/ 20	K.FVSISDLLVPK.D	2	1217.792
IPI00031523	0.974	17/ 22	K.ADLINNLGTIAK.S	2	1242.492
IPI00032179	0.9179	14/ 20	R.DIPM[147.19]NPM[147.19]C[160.14]IYR.S	2	1441.492
IPI00032220	0.9975	20/ 28	P.FVQGLALYTPVVLPR.S	2	1673.292
IPI00032220	0.995	20/ 30	K.VLSALQAVQGLLVAQG.R	2	1568.292
IPI00032258	0.9595	17/ 30	R.LLATLC[160.14]SAEVC[160.14]QC[160.14]AEG.K	2	1781.692
IPI00032258	0.9746	19/ 36	R.EC[160.14]VGFEAVQEVVGLVQPA.S	2	2029.092
IPI00032258	0.9984	27/ 38	K.VGLSGM[147.19]AIA DVTLLSGFHAL.R	2	1988.392
IPI00032258	0.9933	13/ 16	K.AEFQDALEK.L	2	1050.092
IPI00032258	0.9995	16/ 18	R.VGDTLNLNLR.A	2	1115.592
IPI00032258	0.9989	19/ 22	K.LNM[147.19]GITDLQGLR.L	2	1347.292
IPI00032258	0.9999	26/ 52	R.YIYGKPVQGVAYVR.F	3	1613.992
IPI00032258	0.939	14/ 20	K.GLC[160.14]VATPVQLR.V	2	1213.592
IPI00032258	0.9186	22/ 36	K.KYVLPNFEVK.I	3	1237.392
IPI00032258	0.999	17/ 24	R.GSFEFPVGDAVSK.V	2	1339.792
IPI00032258	0.9941	25/ 52	R.GPEVQLVAHSPWLK.D	3	1561.792
IPI00032258	1	36/100	K.LHLETDSLALVALGALD TALAAGSK.S	3	2614.892
IPI00032258	0.9989	45/100	R.LLLFSPSVVHLGVPLSVGVQLQDVPR.G	3	2770.892
IPI00032258	0.9836	28/ 52	R.YIYGKPVQGVAYVR.F	3	1615.392
IPI00032258	0.9998	17/ 24	R.GSFEFPVGDAVSK.V	2	1339.992
IPI00032258	0.9732	17/ 22	R.YIYGKPVQGVAY.V	2	1358.492
IPI00032258	0.99	15/ 20	K.GLC[160.14]VATPVQLR.V	2	1213.592
IPI00032258	0.9971	17/ 24	R.GSFEFPVGDAVSK.V	2	1339.092
IPI00032258	0.9969	24/ 52	R.GPEVQLVAHSPWLK.D	3	1561.192
IPI00032258	0.998	19/ 24	R.TTNIQGINLLFSS.R	2	1408.892
IPI00032258	0.9588	15/ 22	R.TTNIQGINLLFS.S	2	1320.192
IPI00032258	0.9999	20/ 22	R.DFALLSLQVPLK.D	2	1343.492
IPI00032258	0.9776	19/ 26	R.HLVPGAPFLLQALV.R	2	1475.292

IPI00032258	0.9998	36/100	K.LHLETDSLALVALGALD TALYAAGSK.S	3	2613.992
IPI00032258	0.9993	21/ 28	K.VLSLAQEQVGG SPEK. L	2	1542.192
IPI00032258	1	22/ 28	K.VLSLAQEQVGG SPEK. L	2	1541.592
IPI00032258	0.9998	35/ 96	R.VTASDPLDTLGSEGAL SPGGVASLL.R	3	2327.892
IPI00032258	0.9999	26/ 48	R.VTASDPLDTLGSEGAL SPGGVASLL.R	2	2327.892
IPI00032258	0.9857	25/ 64	R.PVAFSVVPTAAAAVSL K.V	3	1628.392
IPI00032258	0.9997	27/ 32	R.PVAFSVVPTAAAAVSL K.V	2	1628.292
IPI00032258	0.9995	31/ 64	R.PVAFSVVPTAAAAVSL K.V	3	1628.192
IPI00032258	0.987	25/ 32	R.PVAFSVVPTAAAAVSL K.V	2	1628.292
IPI00032258	0.9995	32/ 64	R.PVAFSVVPTAAAAVSL K.V	3	1628.992
IPI00032258	0.9981	26/ 32	R.PVAFSVVPTAAAAVSL K.V	2	1627.892
IPI00032258	0.9408	18/ 22	R.DSSTWLTAFLK.V	2	1367.592
IPI00032292	0.9895	12/ 16	R.SEEFLIAGK.L	2	992.892
IPI00032293	0.9963	23/ 56	Q.PNLDNC[160.14]PFH DQPHLK.R	3	1833.492
IPI00032293	1	15/ 20	R.ALDFAVGEYNK.A	2	1226.192
IPI00032325	0.9705	19/ 22	K.TQVVAGTNYIYK.V	2	1355.892
IPI00032325	0.9944	19/ 22	K.TQVVAGTNYIYK.V	2	1356.592
IPI00032325	0.9979	27/ 52	K.TNETYGKLEAVQYK.T	3	1644.592
IPI00032325	0.9664	19/ 22	K.TQVVAGTNYIYK.V	2	1355.892
IPI00032325	1	19/ 22	K.TQVVAGTNYIYK.V	2	1357.592
IPI00032328	0.9964	14/ 20	K.ENFLFLTPDC[160.14] K.S	2	1386.092
IPI00032328	0.9982	22/ 34	R.DIPTNSPELEETLHTIT .K	2	2012.092
IPI00032328	0.9965	16/ 20	K.ENFLFLTPDC[160.14] K.S	2	1383.592
IPI00032328	0.9535	18/ 26	R.IASFSQNC[160.14]DI YPGK.D	2	1600.692
IPI00032328	0.9961	16/ 30	K.KIYPTVNC[160.14]QP LGM[147.19]ISL.M	2	1849.792
IPI00032328	0.992	21/ 34	R.DIPTNSPELEETLHTIT .K	2	2010.692
IPI00032328	0.9987	17/ 20	K.ENFLFLTPDC[160.14] K.S	2	1383.092
IPI00032633	0.9008	13/ 20	K.KILLLEAGPKK.V	2	1210.392

IPI00032808	0.9981	16/ 22	R.DAADQNFDYM[147.1	2	1480.692
IPI00032808	0.9455	18/ 20	9]FK.L	2	1100.692
IPI00032808	0.9995	18/ 22	K.LLLIGNSSVGK.T	2	1480.392
IPI00033583	0.9999	18/ 30	R.DAADQNFDYM[147.1	2	1675.792
IPI00037448	0.9848	26/ 92	9]FK.L	3	2468.992
IPI00045547	0.9458	17/ 24	R.ADLTGISPSPNLYLSK.I	2	1219.292
IPI00045547	0.9949	15/ 24	K.IAAAGLDVTSPEPLPTN	2	1219.292
IPI00060800	0.9982	14/ 16	HPLTLK.N	2	926.992
IPI00061200	0.9386	19/ 22	R.SGTSASLAISGLR.S	2	1479.692
IPI00061977	0.9922	14/ 18	K.SGTSASLAISGLR.S	2	1212.592
IPI00061977	0.9952	38/120	R.VSVGLLLVK.S	3	3419.492
IPI00061977	0.9935	17/ 18	R.FLEQQNQVLETK.W	2	1212.892
IPI00061977	0.9983	16/ 18	R.WLQGSQELPR.E	2	1213.092
IPI00061977	0.9987	39/ 84	R.WLQGSQELPR.E	3	2451.592
IPI00061977	1	41/120	K.SGNTFRPEVHLLPPPSE	3	3419.392
IPI00061977	0.9997	17/ 18	ELALNELVTLTC[160.14]	2	1214.292
IPI00061977	0.9985	19/ 32	LA.R	2	1835.592
IPI00061977	0.9979	19/ 32	R.WLQGSQELPR.E	2	1835.892
IPI00061977	1	22/ 32	R.WLQGSQELPR.E	2	1836.392
IPI00061977	0.9929	26/ 64	H.LLPPPSEELALNELVTLT	3	1835.692
IPI00061977	0.9889	20/ 32	C[160.14]LAR.G	2	1836.292
IPI00061977	0.9998	22/ 32	K.SGNTFRPEVHLLPPPSE	2	1835.692
IPI00061977	0.992	24/ 64	ELALNELVTLTC[160.14]	3	1838.692
IPI00061977	0.9993	24/ 64	LA.R	3	1836.892
IPI00061977	1	22/ 32	R.WLQGSQELPR.E	2	1836.292
IPI00061977	0.9998	19/ 28	R.QEPSQGTTTTFAVTSILR	2	1540.692
IPI00061977	0.9998	22/ 28	.V	2	1539.992
			R.DASGVTFTWTPSSGK.		
			S		
			R.DASGVTFTWTPSSGK.		
			S		

IPI00061977	0.9997	37/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3169.292
IPI00061977	0.9997	32/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3169.592
IPI00061977	0.9982	39/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3169.492
IPI00061977	1	21/ 58	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	2	3169.392
IPI00061977	0.9653	43/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3171.092
IPI00061977	0.9999	38/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3170.892
IPI00061977	0.9999	21/ 28	R.DASGVTFTWTPSSGK. S R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L	2	1541.592
IPI00061977	0.9998	38/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3169.792
IPI00061977	1	22/ 58	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	2	3169.092
IPI00061977	0.9667	39/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3169.792
IPI00061977	1	20/ 58	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	2	3169.392
IPI00061977	0.9997	39/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3170.092
IPI00061977	0.9996	23/ 28	R.DASGVTFTWTPSSGK. S R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L	2	1540.092
IPI00061977	1	35/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3170.492
IPI00061977	0.9996	36/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3169.292
IPI00061977	0.9864	37/116	R.NFPPSQDASGDLYTTS SQLTLPATQC[160.14]L AGK.S	3	3170.092
IPI00061977	0.9996	22/ 28	K.GTTVTVSSASPTSPK.V	2	1419.192

IPI00073772	0.9999	15/ 32	R.GTGELTQLLNSLC[160 .14]TAVK.A	2	1804.692
IPI00099615	0.9275	11/ 18	R.VEYTMYPGK.D	2	1216.192
IPI00100453	0.9697	12/ 14	R.EPLYVSWR.N	2	1049.692
IPI00154742	0.9993	23/ 28	K.YAASSYLSLTPEQWK.S	2	1743.792
IPI00154742	0.9457	24/ 28	K.YAASSYLSLTPEQWK.S	2	1744.792
IPI00154742	0.968	24/ 56	K.YAASSYLSLTPEQWK.S	3	1745.092
IPI00154742	0.9994	24/ 28	K.YAASSYLSLTPEQWK.S	2	1743.692
IPI00154742	0.99	25/ 56	K.YAASSYLSLTPEQWK.S	3	1744.892
IPI00154742	0.9996	20/ 28	K.YAASSYLSLTPEQWK.S	2	1743.592
IPI00154742	0.9996	24/ 28	K.YAASSYLSLTPEQWK.S	2	1744.592
IPI00154742	0.9587	23/ 28	K.YAASSYLSLTPEQWK.S	2	1745.192
IPI00154742	0.9992	28/ 38	K.ATLVC[160.14]LISDF YPGAVTVAWK.A	2	2211.692
IPI00154742	0.9998	28/ 38	K.ATLVC[160.14]LISDF YPGAVTVAWK.A	2	2211.092
IPI00154742	0.9997	38/ 76	K.ATLVC[160.14]LISDF YPGAVTVAWK.A	3	2212.292
IPI00154742	0.9994	24/ 36	K.AAPSVTLFPPSSEELQA NK.A	2	1986.692
IPI00164623	0.9912	20/ 40	R.KVLLDGVQNP.R.A	3	1239.192
IPI00164623	0.9896	17/ 18	K.VLLDGVQNP.R.A	2	1110.392
IPI00164623	0.9987	15/ 16	K.TGLQEVEVK.A	2	1002.192
IPI00164623	0.9968	22/ 26	R.IPIEDGSGEVVLSR.K	2	1470.392
IPI00164623	0.9996	13/ 16	R.YTYLIM[147.19]NK. G	2	1223.592
IPI00164623	0.9973	22/ 28	R.TVM[147.19]VNIENP EGIPVK.Q	2	1655.292
IPI00164623	0.9999	27/ 42	R.VPVAVQGEDTVQSLTQ GDGVAK.L	2	2197.092
IPI00164623	0.9989	33/ 84	R.VPVAVQGEDTVQSLTQ GDGVAK.L	3	2198.792
IPI00164623	0.9153	24/ 52	R.LVAYYTLIGASGQR.E	3	1511.992
IPI00164623	0.9919	21/ 26	R.LVAYYTLIGASGQR.E	2	1510.692
IPI00164623	0.9808	18/ 24	K.SSLSVPYVIVPLK.T	2	1401.492
IPI00164623	0.9992	18/ 24	K.SSLSVPYVIVPLK.T	2	1400.992
IPI00164623	0.9988	22/ 26	R.IPIEDGSGEVVLSR.K	2	1470.192

IPI00164623	0.9928	12/ 14	K.FYYIYNEK.G	2	1139.492
IPI00164623	0.9991	18/ 22	K.TIYTPGSTVLRY.I	2	1371.392
IPI00164623	0.999	22/ 28	R.TVM[147.19]VNIENP EGIPVK.Q	2	1655.492
IPI00164623	0.9998	32/ 60	R.VELLHNPAFC[160.14] SLATTK.R	3	1801.892
IPI00164623	0.9999	23/ 30	R.SGIPIVTSPYQIHFTK.T R.VELLHNPAFC[160.14]	2	1788.992
IPI00164623	0.9979	18/ 28	SLATT.K	2	1673.492
IPI00164623	0.9998	29/ 48	I.PIVTSPYQIHFTK.T	3	1531.692
IPI00164623	0.9987	21/ 30	K.EYVLPSEFVIVEPTEK.F R.YYTYLIM[147.19]NK.	2	1879.492
IPI00164623	0.9995	14/ 16	G	2	1223.892
IPI00164623	0.9979	12/ 14	K.FYYIYNEK.G	2	1139.392
IPI00164623	0.9876	20/ 28	R.TVM[147.19]VNIENP EGIPVK.Q	2	1656.892
IPI00164623	0.9976	23/ 30	R.VELLHNPAFC[160.14] SLATTK.R	2	1801.092
IPI00164623	0.9999	27/ 68	K.VRVELLHNPAFC[160. 14]SLATTK.R	3	2056.492
IPI00164623	0.9992	22/ 26	R.LVAYYTLIGASGQR.E	2	1511.692
IPI00164623	0.9995	29/ 48	I.PIVTSPYQIHFTK.T	3	1532.092
IPI00164623	0.9978	22/ 30	K.EYVLPSEFVIVEPTEK.F	2	1880.992
IPI00164623	0.9989	18/ 22	K.TIYTPGSTVLRY.I	2	1370.492
IPI00164623	0.9855	33/ 60	R.VELLHNPAFC[160.14] SLATTK.R	3	1801.392
IPI00164623	0.9793	17/ 26	R.LVAYYTLIGASGQR.E	2	1511.592
IPI00164623	0.9983	28/ 48	I.PIVTSPYQIHFTK.T	3	1532.392
IPI00164623	0.9975	17/ 24	K.SSLVPPVIVPLK.T	2	1402.992
IPI00164623	0.9948	21/ 28	R.SGIPIVTSPYQIHFT.K	2	1659.792
IPI00164623	0.9174	19/ 26	R.SGIPIVTSPYQIHFT	2	1559.592
IPI00164623	0.9999	22/ 30	K.EYVLPSEFVIVEPTEK.F K.VHQYFNVELIQPGAVK	2	1879.892
IPI00164623	0.9722	22/ 60	.V	3	1842.292
IPI00164623	0.9862	25/ 36	K.VQLSNDFDEYIM[147. 19]AIEQTIK.S	2	2273.092
IPI00164623	0.999	31/ 72	K.VQLSNDFDEYIM[147. 19]AIEQTIK.S	3	2273.592
IPI00164623	0.9974	15/ 18	K.DFDVPPVVR.W	2	1190.392
IPI00165579	0.9756	26/ 76	K.NVM[147.19]LLPVGS ADDGAHSQNEK.L	3	2098.392
IPI00166729	0.9898	16/ 18	R.AGEVQPELR.G	2	1127.092

IPI00166729	0.9993	20/ 22	R.YSLTYIYTGLSK.H D.PPSVVVTSHQAPGEK.	2	1408.292
IPI00166729	0.9883	26/ 56	K	3	1532.892
IPI00166729	0.9849	15/ 18	R.AGEVQEPRLR.G K.AYLEEEEC[160.14]PAT	2	1127.092
IPI00166729	0.9959	14/ 22	LR.K	2	1451.092
IPI00166729	0.9983	21/ 48	K.YYYDGKDYIEFNK.E K.C[160.14]LAYDFYPGK	3	1719.192
IPI00166729	0.998	15/ 18	.I K.C[160.14]LAYDFYPGK	2	1235.092
IPI00166729	0.9985	15/ 18	.I	2	1234.292
IPI00166729	0.987	16/ 26	I.PAWVPFDPAAQITK.Q K.HVEDVPAFQALGSLND	2	1541.392
IPI00166729	0.9932	29/ 80	LQFFR.Y K.C[160.14]LAYDFYPGK	3	2403.992
IPI00166729	0.9999	15/ 18	.I	2	1234.692
IPI00166729	0.9958	20/ 48	K.YYYDGKDYIEFNK.E K.EIPAWVPFDPAAQITK.	3	1719.392
IPI00166729	0.9995	21/ 30	Q	2	1785.792
IPI00166729	1	25/ 52	R.AKAYLEEEEC[160.14]P ATLR.K	3	1651.592
IPI00166729	0.9415	17/ 22	K.AYLEEEEC[160.14]PAT LR.K	2	1454.092
IPI00166729	0.9996	18/ 22	K.AYLEEEEC[160.14]PAT LR.K	2	1450.792
IPI00166729	0.9975	14/ 18	K.C[160.14]LAYDFYPGK .I	2	1233.692
IPI00166729	0.9977	19/ 22	R.YSLTYIYTGLSK.H K.EIPAWVPFDPAAQITK.	2	1408.692
IPI00166729	0.9995	22/ 30	Q K.AYLEEEEC[160.14]PAT	2	1784.192
IPI00166729	0.9998	18/ 22	LR.K K.C[160.14]LAYDFYPGK	2	1451.492
IPI00166729	0.9965	15/ 18	.I	2	1233.192
IPI00166729	0.9991	19/ 22	R.YSLTYIYTGLSK.H K.EIPAWVPFDPAAQITK.	2	1410.092
IPI00166729	0.9997	21/ 30	Q K.AYLEEEEC[160.14]PAT	2	1782.392
IPI00166729	0.9403	20/ 24	LRK.Y	2	1579.692
IPI00166729	0.9728	24/ 44	K.QKWEAEPVYVQR.A R.AKAYLEEEEC[160.14]P	3	1534.492
IPI00166729	0.9538	22/ 52	ATLR.K K.AYLEEEEC[160.14]PAT	3	1653.092
IPI00166729	0.9991	19/ 22	LR.K	2	1451.692
IPI00166729	0.9997	15/ 18	K.WEAEPVYVQR.A K.NILDRQDPPSVVVTSH	2	1275.992
IPI00166729	0.9951	40/ 84	QAPGEK.K	3	2387.092
IPI00166729	1	21/ 48	K.YYYDGKDYIEFNK.E	3	1719.292



IPI00166729	0.9995	15/ 18	K.C[160.14]LAYDFYPGK .I	2	1235.292
IPI00166729	0.989	13/ 18	K.C[160.14]LAYDFYPGK .I	1	1232.592
IPI00166729	0.9999	18/ 22	R.YSLTYIYTGLSK.H	2	1408.392
IPI00166729	1	11/ 22	R.YSLTYIYTGLSK.H	1	1409.792
IPI00166729	0.9835	12/ 22	R.YSLTYIYTGLSK.H	1	1407.792
IPI00166729	0.9997	19/ 22	R.YSLTYIYTGLSK.H K.C[160.14]LAYDFYPGK	2	1409.392
IPI00166729	0.9779	12/ 18	.I	1	1233.692
IPI00166729	0.9967	20/ 26	I.PAWVPFDPAQAQITK.Q K.EIPAWVPFDPAQAQITK.	2	1540.892
IPI00166729	1	18/ 30	Q	1	1782.992
IPI00166729	0.999	15/ 18	K.C[160.14]LAYDFYPGK .I	2	1233.592
IPI00166729	0.9891	14/ 18	K.C[160.14]LAYDFYPGK .I	2	1234.792
IPI00166729	0.9981	16/ 22	R.YSLTYIYTGLSK.H	2	1408.592
IPI00166729	0.9984	20/ 30	K.EIPAWVPFDPAQAQITK. Q	2	1784.092
IPI00166729	0.9997	28/ 56	D.PPSVVVTSHQAPGEK. K	3	1533.692
IPI00166729	1	18/ 22	K.AYLEEEEC[160.14]PAT LR.K	2	1450.992
IPI00166729	0.9587	16/ 20	W.VPFDPAQAQITK.Q	2	1185.992
IPI00166729	0.998	15/ 18	K.C[160.14]LAYDFYPGK .I	2	1234.792
IPI00166729	0.9991	15/ 18	K.C[160.14]LAYDFYPGK .I	2	1234.192
IPI00166729	0.9976	19/ 22	R.YSLTYIYTGLSK.H	2	1409.292
IPI00166729	0.9996	22/ 30	K.EIPAWVPFDPAQAQITK. Q	2	1783.592
IPI00166729	0.9993	20/ 26	I.PAWVPFDPAQAQITK.Q K.EIPAWVPFDPAQAQITK.	2	1540.992
IPI00166729	0.9998	21/ 30	Q	2	1783.792
IPI00166729	0.9979	14/ 30	K.EIPAWVPFDPAQAQITK. Q	2	1783.092
IPI00166729	0.9972	18/ 22	K.AYLEEEEC[160.14]PAT LR.K	2	1453.492
IPI00166729	0.9978	15/ 20	W.VPFDPAQAQITK.Q	2	1186.892
IPI00166729	0.9997	15/ 18	K.C[160.14]LAYDFYPGK .I	2	1233.992
IPI00166729	0.9987	19/ 22	R.YSLTYIYTGLSK.H	2	1408.692
IPI00166729	0.9997	22/ 30	K.EIPAWVPFDPAQAQITK. Q	2	1783.692
IPI00166858	0.9861	13/ 26	R.VVYSPGEPLAGTVR.V	2	1444.992

IPI00166866	0.9592	38/ 80	K.KGDTFSC[160.14]M[147.19]VGHEALPLAFTQ K.T	3	2353.792
IPI00166866	0.9424	38/ 80	K.KGDTFSC[160.14]M[147.19]VGHEALPLAFTQ K.T	3	2355.392
IPI00166866	0.9189	31/ 76	K.GDTFSC[160.14]M[147.19]VGHEALPLAFTQ .T	3	2225.992
IPI00167811	0.9484	23/ 30	R.YLPSSSTPLTLSFFVK.V	2	1787.892
IPI00168479	0.9996	14/ 22	K.LFGYEPTIYYPK.R	2	1490.792
IPI00168728	0.979	12/ 18	K.NQVSLTC[160.14]LVK .G	1	1160.692
IPI00168728	0.9991	16/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.792
IPI00168728	0.9232	15/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.692
IPI00168728	0.985	13/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.192
IPI00168728	0.999	16/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.692
IPI00168728	0.9984	15/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.492
IPI00168728	0.9034	14/ 18	K.NQVSLTC[160.14]LVK .G	2	1162.092
IPI00168728	0.9695	13/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.092
IPI00168728	0.9986	15/ 18	K.NQVSLTC[160.14]LVK .G	2	1162.092
IPI00168728	0.9911	15/ 18	K.NQVSLTC[160.14]LVK .G	2	1161.292
IPI00168728	0.9205	17/ 20	K.NQVSLTC[160.14]LVK G.F	2	1218.392
IPI00168728	0.926	16/ 20	K.NQVSLTC[160.14]LVK G.F	2	1218.492
IPI00168728	0.9675	17/ 20	G.F	2	1218.592
IPI00168728	0.9298	13/ 20	R.EPQVYTLPPSR.E R.VSVLTVLHQDWLNG	2	1286.792
IPI00168728	0.9894	18/ 30	K.E	2	1808.092
IPI00168728	0.9995	22/ 32	A.PELLGGPSVFLFPPKPK .D	2	1823.792
IPI00168728	0.9988	25/ 32	A.PELLGGPSVFLFPPKPK .D	2	1823.892
IPI00168728	0.9931	17/ 38	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	2	2150.292
IPI00168728	0.9979	22/ 32	A.PELLGGPSVFLFPPKPK .D	2	1823.492

IPI00168728	1	23/ 32	A.PELLGGPSVFLFPPKPK .D	2	1822.992
IPI00168728	0.9997	24/ 36	C.PAPELLGGPSVFLFPPK PK.D	2	1990.892
IPI00168728	0.9999	30/ 68	P.APELLGGPSVFLFPPKPK K.D	3	1895.792
IPI00168728	0.9988	24/ 32	A.PELLGGPSVFLFPPKPK .D	2	1823.092
IPI00168728	0.9999	32/ 76	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	3	2151.992
IPI00168728	0.9971	23/ 32	A.PELLGGPSVFLFPPKPK .D	2	1822.992
IPI00168728	0.9999	29/ 76	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	3	2152.092
IPI00168728	0.9841	28/ 64	A.PELLGGPSVFLFPPKPK .D	3	1823.492
IPI00168728	0.9991	20/ 38	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	2	2154.092
IPI00168728	0.9806	18/ 38	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	2	2149.892
IPI00168728	0.9847	22/ 32	A.PELLGGPSVFLFPPKPK .D	2	1822.492
IPI00168728	0.9814	31/ 64	A.PELLGGPSVFLFPPKPK .D	3	1825.492
IPI00168728	0.9938	22/ 32	A.PELLGGPSVFLFPPKPK .D	2	1822.992
IPI00168728	0.9918	23/ 32	A.PELLGGPSVFLFPPKPK .D	2	1824.292
IPI00168728	0.9974	20/ 32	A.PELLGGPSVFLFPPKPK .D	2	1824.092
IPI00168728	0.9999	33/ 76	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	3	2152.492
IPI00168728	0.972	15/ 36	C.PAPELLGGPSVFLFPPK PK.D	2	1991.392
IPI00168728	0.9811	18/ 38	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	2	2150.592
IPI00168728	0.9993	20/ 38	R.C[160.14]PAPELLGGP SVFLFPPKPK.D	2	2153.992
IPI00168728	0.9968	15/ 22	K.GPSVFPLAPC[160.14] SR.S	2	1287.492
IPI00168728	0.9876	15/ 22	K.GPSVFPLAPC[160.14] SR.S	2	1287.692
IPI00168728	0.9868	14/ 22	K.GPSVFPLAPC[160.14] SR.S	2	1286.992
IPI00168728	0.9884	16/ 22	K.GPSVFPLAPC[160.14] SR.S	2	1287.692
IPI00168728	0.9958	15/ 22	K.GPSVFPLAPC[160.14] SR.S	2	1287.292

IPI00168728	0.9972	20/ 26	R.STSGGTAALGC[160.14]LVK.D	2	1320.792
IPI00168728	0.9993	20/ 26	R.STSGGTAALGC[160.14]LVK.D	2	1321.492
IPI00168728	0.9992	18/ 26	R.STSGGTAALGC[160.14]LVK.D	2	1322.792
IPI00168728	0.9901	21/ 26	R.STSGGTAALGC[160.14]LVK.D	2	1321.592
IPI00168728	0.9999	21/ 26	R.STSGGTAALGC[160.14]LVK.D	2	1322.292
IPI00169383	0.9526	21/ 30	K.AC[160.14]ANPAAGS	2	1612.292
IPI00178767	1	24/ 32	VILLENL.R	2	1682.792
IPI00178926	0.9899	21/ 36	K.S	2	1682.792
IPI00178926	0.9988	23/ 28	R.FVYHLS DLC[160.14]	3	1282.892
IPI00178926	0.9993	22/ 28	K.K	2	1656.792
IPI00178926	0.9939	25/ 40	K.C[160.14]YTAVVPLVY	2	1656.692
IPI00178926	0.9197	21/ 36	GGETK.M	3	1410.492
IPI00178926	0.9946	22/ 28	R.FVYHLS DLC[160.14]	3	1282.492
IPI00179185	0.9998	17/ 18	KK.C	2	1655.992
IPI00179291	1	22/ 30	R.FVYHLS DLC[160.14]	2	1069.592
IPI00179330	0.9808	13/ 16	R.GSLTFEPLTLVPIQTK.M	2	1743.792
IPI00179330	0.9847	12/ 16	R.TLSDYNIQK.E	2	1081.592
IPI00179330	0.9992	17/ 30	R.TLSDYNIQK.E	2	1081.692
IPI00179330	0.9999	20/ 30	K.TITLEVEPSDTIENVK.	2	1789.392
IPI00179330	0.9993	17/ 30	A	2	1788.792
IPI00179330	0.9999	23/ 30	K.TITLEVEPSDTIENVK.	2	1789.092
IPI00179330	0.9996	23/ 30	A	2	1789.092
IPI00179330	1	23/ 30	K.TITLEVEPSDTIENVK.	2	1788.792
IPI00179330	0.9999	22/ 30	A	2	1787.992
IPI00179330	0.9996	21/ 30	K.TITLEVEPSDTIENVK.	2	1789.092
IPI00180956	0.9899	15/ 16	A	2	1787.092
			R.VLDELTLAR.A	2	1028.792

IPI00186308	0.9916	13/ 22	R.AQLIQMS[167.08]WT ALR.A	2	1498.692
IPI00215914	0.9993	18/ 20	R.ILM[147.19]VGLDAA GK.T	2	1103.992
IPI00215925	0.9157	23/ 56	R.NYDHILSTGC[160.14 ]APPGK.N	3	1630.492
IPI00215979	0.9527	14/ 20	K.VC[160.14]DVPLDQL PR.S	2	1312.792
IPI00215983		1 32/ 68	K.HDTSLKPISVSYNPATA K.E	3	1929.592
IPI00215983		1 34/ 68	K.HDTSLKPISVSYNPATA K.E	3	1928.592
IPI00215983	0.9522	12/ 16	K.VLDALQAIK.T	2	970.692
IPI00215983	0.9983	18/ 22	K.ADGLAVIGVLM[147.1 9]K.V	2	1202.492
IPI00215997	0.9989	14/ 18	K.KDVLETFTVK.S	2	1179.592
IPI00216057	0.9989	16/ 32	R.LENYPIPEPGPNEVLLR .M	2	1950.992
IPI00216691	0.998	12/ 14	K.TLVLLM[147.19]GK.E	2	890.292
IPI00216691	0.9967	19/ 26	R.SSFYVNGLTLGGQK.C	2	1471.392
IPI00216691	0.9998	21/ 26	R.DSLLQDGEFSM[147.1 9]DLR.T	2	1641.292
IPI00216691	0.9999	23/ 30	K.TFVNITPAEVGVLVGK. D	2	1643.692
IPI00216691	0.9729	22/ 30	K.TFVNITPAEVGVLVGK. D	2	1644.092
IPI00216691	0.993	20/ 26	R.SSFYVNGLTLGGQK.C	2	1472.192
IPI00216773	0.9794	16/ 20	K.KLVAASQAALG.L	2	1027.792
IPI00216773	0.9949	18/ 20	K.LVAASQAALGL.-	2	1013.292
IPI00216773	0.9906	17/ 20	K.LVAASQAALGL.-	2	1013.492
IPI00216773	0.9996	16/ 20	K.LVAASQAALGL.-	2	1013.592
IPI00216773	0.9021	15/ 20	K.LVAASQAALGL.-	2	1013.692
IPI00216773	0.9909	17/ 20	K.LVAASQAALGL.-	2	1014.092
IPI00216773	0.9935	14/ 20	K.LVAASQAALGL.-	2	1013.092
IPI00216773	0.9946	17/ 20	K.LVAASQAALGL.-	2	1014.092
IPI00216773	0.9991	18/ 20	K.LVAASQAALGL.-	2	1012.792
IPI00216773	0.9964	17/ 22	K.KLVAASQAALGL.-	2	1141.792
IPI00216773	0.9997	17/ 20	K.LVAASQAALGL.-	2	1012.992
IPI00216773	0.9938	16/ 20	K.LVAASQAALGL.-	2	1012.992
IPI00216773	0.9978	18/ 20	K.LVAASQAALGL.-	2	1012.192
IPI00216773	0.9943	16/ 20	K.LVAASQAALGL.-	2	1013.492
IPI00216773	0.9977	16/ 22	K.KLVAASQAALGL.-	2	1141.092
IPI00216773	0.9692	17/ 20	K.LVAASQAALGL.-	2	1013.392
IPI00216773	0.9989	16/ 20	K.LVAASQAALGL.-	2	1012.992
IPI00216773	0.9453	10/ 20	K.LVAASQAALGL.-	2	1013.192
IPI00216773	0.9214	10/ 22	K.KLVAASQAALGL.-	1	1140.792

IPI00216773	0.9719	17/ 22	K.KLVAASQAALGL.-	2	1144.092
IPI00216773	0.9999	17/ 20	K.LVAASQAALGL.-	2	1013.792
IPI00216773	0.9995	16/ 20	K.LVAASQAALGL.-	2	1013.992
IPI00216773	0.9847	17/ 20	K.LVAASQAALGL.-	2	1014.792
IPI00216773	0.9913	18/ 20	K.LVAASQAALGL.-	2	1013.392
IPI00216773	0.9962	17/ 22	K.KLVAASQAALGL.-	2	1141.392
IPI00217232	0.955	12/ 14	R.LVAVATLR.N	2	842.392
IPI00217471	0.9417	16/ 18	R.LLVVYPWTQR.F	2	1276.392
IPI00217471	0.9396	16/ 18	R.LLVVYPWTQR.F	2	1276.692
IPI00217471	0.9095	16/ 18	R.LLVVYPWTQR.F	2	1275.592
			K.NHEEEM[147.19]LAL		
IPI00217963	0.9009	14/ 18	R.G	2	1258.492
IPI00217963	0.9978	21/ 26	R.APSTYGGGLSVSSR.F	2	1338.692
IPI00217963	0.9996	17/ 20	K.ASLENSLEETK.G	2	1220.492
			E.MAEEAGEENFFIFGM[		
IPI00218130	0.939	17/ 30	147.19]R.V	2	1895.992
			K.YDPSLKPLSVSYDQAT		
IPI00218414	0.9952	27/ 72	SLR.I	3	2140.592
			K.AVQQPDGLAVLGIFLK.		
IPI00218414	0.9999	24/ 30	V	2	1668.992
			K.DTTTPIQSM[147.19]		
			M[147.19]C[160.14]QY		
IPI00218736	0.98	17/ 26	L.A	2	1720.492
			A.SC[160.14]YFIPNEGV		
IPI00218911	0.9922	22/ 30	PGDSTR.M	2	1799.192
			A.SC[160.14]YFIPNEGV		
IPI00218911	0.9981	17/ 30	PGDSTR.M	2	1799.292
			A.SC[160.14]YFIPNEGV		
IPI00218911	0.9875	24/ 30	PGDSTR.M	2	1798.892
			A.SC[160.14]YFIPNEGV		
IPI00218911	1	24/ 30	PGDSTR.M	2	1799.492
			A.SC[160.14]YFIPNEGV		
IPI00218911	0.9915	22/ 30	PGDSTR.M	2	1798.692
			A.SC[160.14]YFIPNEGV		
IPI00218911	0.9999	17/ 30	PGDSTR.M	2	1798.492
			A.SC[160.14]YFIPNEGV		
IPI00218911	0.9992	25/ 30	PGDSTR.M	2	1799.392
			K.GGPGSAVSPYPTFNPS		
IPI00218918	1	31/ 92	SDVAALHK.A	3	2356.592
IPI00218918	0.9913	17/ 24	K.GVDEATIIDILTK.R	2	1387.792
			K.WGDAGAEYVVESTGV		
IPI00219018	0.9936	34/ 80	FTTMEK.A	3	2278.792
			K.WGDAGAEYVVESTGV		
IPI00219018	0.9959	30/ 80	FTTM[147.19]EK.A	3	2293.292
			K.WGDAGAEYVVESTGV		
IPI00219018	0.9675	31/ 80	FTTMEK.A	3	2276.192
			K.WGDAGAEYVVESTGV		
IPI00219018	0.9965	23/ 40	FTTMEK.A	2	2276.892

IPI00219018	0.9952	30/ 80	K.WGDAGAEYVVESTGV FTTMEK.A	3	2277.092
IPI00219018	0.9594	29/ 80	K.WGDAGAEYVVESTGV FTTMEK.A	3	2277.292
IPI00219018	0.9999	25/ 32	K.IISNASC[160.14]TTN C[160.14]LAPLAK.V	2	1833.592
IPI00219018	0.902	17/ 28	R.GALQNIIPASTGAAK.A	2	1412.692
IPI00219018	0.9999	24/ 32	K.IISNASC[160.14]TTN C[160.14]LAPLAK.V	2	1833.492
IPI00219018	0.9594	17/ 28	R.GALQNIIPASTGAAK.A	2	1411.492
IPI00219018	0.9985	31/ 92	K.VIHDNFGIVEGLM[147 .19]TTVHAITATQK.T	3	2613.392
IPI00219682	0.9948	16/ 30	K.GPGLFFILPC[160.14] TDSFIK.V	2	1811.892
IPI00219682	0.9686	23/ 36	K.NSTIVFPLPIDM[147.1 9]LQGIIGA.K	2	2015.692
IPI00219757	0.9979	16/ 20	-.PPYTVVYFPVR.G	2	1338.592
IPI00219757	0.9845	16/ 20	-.PPYTVVYFPVR.G	2	1337.592
IPI00220120	0.9614	30/ 36	C.EVQLLESGGGLVQPGG SLR.L	2	1896.792
IPI00220120	0.97	30/ 36	C.EVQLLESGGGLVQPGG SLR.L	2	1896.692
IPI00220327	0.9998	15/ 18	K.NM[147.19]QDM[147 .19]VEDYR.N	2	1332.192
IPI00220327	1	25/ 60	R.GGGGGGYGSGGSSY GSGGGSYGSGGGGGGG R.G	2	2383.492
IPI00220327	0.9984	51/120	R.GGGGGGYGSGGSSY GSGGGSYGSGGGGGGG R.G	3	2384.592
IPI00220327	0.957	12/ 16	R.SLVNLGGSK.S	2	873.792
IPI00220327	0.9619	20/ 44	R.TNAENEFVTIKK.D	3	1393.292
IPI00220327	0.9957	17/ 18	K.YEELQITAGR.H	2	1179.292
IPI00220327	0.9904	18/ 20	R.TNAENEFVTIK.K	2	1266.692
IPI00220327	0.9909	18/ 28	K.QISNLQQSISDAEQR. G	2	1716.692
IPI00220327	0.9992	20/ 22	K.LNDLEDALQQAK.E K.NM[147.19]QDM[147 .19]VEDYR.N	2	1357.392
IPI00220327	0.9989	15/ 18	K.YEELQITAGR.H	2	1332.392
IPI00220327	0.996	17/ 18	K.YEELQITAGR.H K.QISNLQQSISDAEQR.	2	1179.292
IPI00220327	0.9991	19/ 28	G	2	1716.392
IPI00220327	0.9997	18/ 22	K.SLNNQFASFIDK.V	2	1382.692

IPI00220327		1 25/ 60	R.GGGGGGYGSGGSSY GSGGGSYSGGGGGGG R.G	2	2383.692
IPI00220327	0.9952	49/120	R.GGGGGGYGSGGSSY GSGGGSYSGGGGGGG R.G	3	2384.392
IPI00220327	0.992	13/ 16	R.SLVNLGGSK.S	2	873.992
IPI00220327	0.9892	17/ 18	K.YEELQITAGR.H	2	1179.392
IPI00220327	0.9742	16/ 20	R.TNAENEFVTIK.K	2	1265.492
IPI00220327	0.9894	15/ 18	K.NM[147.19]QDM[147 .19]VEDYR.N	2	1331.492
IPI00220327	0.9239	15/ 18	K.NM[147.19]QDM[147 .19]VEDYR.N	2	1331.892
IPI00220327	0.9993	27/ 60	R.GGGGGGYGSGGSSY GSGGGSYSGGGGGGG R.G	2	2384.392
IPI00220327	0.9964	47/120	R.GGGGGGYGSGGSSY GSGGGSYSGGGGGGG R.G	3	2383.892
IPI00220327	0.9984	16/ 20	R.TNAENEFVTIK.K	2	1267.392
IPI00220327	0.9996	18/ 22	K.SLNNQFASFIDK.V	2	1384.592
IPI00220327	0.9998	19/ 22	R.SLDLDSIIAEVK.A	2	1301.792
IPI00220706	0.9996	21/ 22	K.M[147.19]VTAVASAL SSR.Y	2	1209.092
IPI00220706		1 22/ 24	K.VNVEDAGGETLGR.L	2	1316.192
IPI00220766	0.9975	14/ 18	K.DFLLQQTM[147.19]L R.V	2	1281.092
IPI00220993	0.9907	14/ 16	R.AIFTGYYGK.G	2	1019.592
IPI00221224	0.946	14/ 20	K.DLTALSNM[147.19]LP K.G	2	1218.792
IPI00221224	0.9999	21/ 30	R.ENSLFDPLSSSSSNK. E	2	1724.692
IPI00221224	0.9963	16/ 30	R.QYMPWEAALSSLSYFK .L	2	1921.792
IPI00221224	0.9971	16/ 20	K.DLTALSNM[147.19]LP K.G	2	1217.892
IPI00221224	0.9658	16/ 20	K.DLTALSNMLPK.G	2	1203.492
IPI00221224	0.9886	14/ 18	F.IVSEFDYVEK.Q	2	1228.792
IPI00221224	0.9859	12/ 20	K.DLTALSNM[147.19]LP K.G	2	1217.992
IPI00221224	0.9983	23/ 30	R.ENSLFDPLSSSSSNK. E	2	1725.592
IPI00221224	0.9188	13/ 20	K.DLTALSNMLPK.G	2	1202.192
IPI00242956	0.9989	15/ 22	K.LDSLVAQQLQSK.N	2	1329.092
IPI00242956	0.9964	16/ 18	R.VSYVGLVTVR.A	2	1093.292
IPI00242956	0.9743	17/ 18	R.VSYVGLVTVR.A	2	1092.492



IPI00242956	0.9996	39/124	K.FDFQGTC[160.14]NY VLATTGC[160.14]PGVS TQGLTPFTVTTK.N	3	3470.492
IPI00242956	0.9484	24/124	K.FDFQGTC[160.14]NY VLATTGC[160.14]PGVS TQGLTPFTVTTK.N	3	3468.992
IPI00242956	0.9968	16/ 30	R.VNGVLTALPVSVADGR .I	2	1567.992
IPI00242956	0.9934	18/ 30	R.VNGVLTALPVSVADGR .I	2	1567.992
IPI00242956	0.9987	42/124	K.FDFQGTC[160.14]NY VLATTGC[160.14]PGVS TQGLTPFTVTTK.N	3	3470.792
IPI00242956	0.939	16/ 20	K.LPVVLANGQIR.A	2	1179.692
IPI00242956	0.9979	15/ 18	R.VAYDLVYYVR.V	2	1260.092
IPI00242956	0.9912	15/ 18	R.VAYDLVYYVR.V	2	1260.292
IPI00242956	0.9967	15/ 18	R.VAYDLVYYVR.V	2	1261.192
IPI00242956	0.9985	15/ 18	R.VAYDLVYYVR.V	2	1260.692
IPI00242956	0.9979	15/ 18	R.VAYDLVYYVR.V	2	1261.892
IPI00242956	0.9979	14/ 18	R.VAYDLVYYVR.V	2	1260.092
IPI00242956	0.9985	15/ 18	R.VAYDLVYYVR.V	2	1260.092
IPI00242956	0.9949	15/ 18	R.VAYDLVYYVR.V	2	1260.992
IPI00242956	0.9999	15/ 18	R.VAYDLVYYVR.V	2	1260.892
IPI00246058	1	23/ 30	R.SVIEQGGIQTVDQLIK. E	2	1727.692
IPI00247063	0.9985	19/ 24	K.ALYGTTSETATWR.R R.LPIDENQLALEM[147. 19]NK.V	2	1456.692
IPI00247063	0.9984	21/ 26	K.ALYGTTSETATWR.R	2	1643.992
IPI00247063	0.9987	20/ 24	R.ALLSYDGLNQR.V	2	1455.892
IPI00259102	0.9954	16/ 20	R.ALLSYDGLNQR.V	2	1249.592
IPI00289831	0.9999	20/ 24	R.SPQGLGAFTPVVR.Q	2	1328.692
IPI00289831	0.9994	15/ 24	R.SPQGLGAFTPVVR.Q	2	1328.792
IPI00289983	0.9524	15/ 16	K.RATQIPSYK.K	2	1063.592
IPI00289983	0.9837	11/ 14	R.ATQIPSYK.K	1	907.492
IPI00289983	0.9913	10/ 14	R.ATQIPSYK.K	1	905.892
IPI00289983	0.9555	13/ 14	R.ATQIPSYK.K	2	906.692
IPI00289983	0.9382	12/ 12	K.FLNESYK.H	2	899.692
IPI00289983	0.9786	13/ 16	K.RATQIPSYK.K	2	1062.392
IPI00289983	0.9926	16/ 18	R.FQELESETLK.S	2	1223.392
IPI00289983	0.9908	14/ 18	R.FQELESETLK.S	1	1222.592
IPI00289983	0.9641	16/ 18	R.FQELESETLK.S	2	1223.392
IPI00289983	0.9947	25/ 60	K.LIM[147.19]YSAHDTT VSGLQM[147.19].A	3	1800.492

IPI00289983	0.9994	33/ 60	R.FQELESETLKSEEFQK. R	3	1971.692
IPI00289983	0.9189	24/ 30	K.LIM[147.19]YSAHDTT	2	1799.492
IPI00289983		1 11/ 16	VSGLQM[147.19].A	1	993.492
IPI00289983	0.9974	26/ 60	R.SPIDTFPTD.P R.HGDRSPIDTFPTDPIK. E	3	1796.592
IPI00289983	0.9984	15/ 28	R.LQGGVLVNEILNHM[1	2	1682.292
IPI00289983	0.9616	11/ 14	47.19]K.R K.DFIATLGK.L	1	863.492
IPI00289983	0.9987	24/ 60	R.HGDRSPIDTFPTDPIK. E	3	1795.692
IPI00289983	0.9765	13/ 14	H.YELGEYIR.K	2	1042.792
IPI00289983	0.993	21/ 56	R.LQGGVLVNEILNHM[1	3	1681.892
IPI00289983	0.9568	13/ 14	47.19]K.R K.DFIATLGK.L	2	863.792
IPI00289983	0.9611	11/ 14	K.DFIATLGK.L	1	865.492
IPI00289983	0.998	16/ 22	R.SPIDTFPTDPIK.E	2	1329.792
IPI00289983	0.9996	14/ 18	K.GEYFVEM[147.19]YY R.N	2	1372.192
IPI00289983	0.9937	14/ 18	K.GEYFVEM[147.19]YY R.N	2	1375.392
IPI00289983	0.9734	13/ 22	R.SPIDTFPTDPIK.E	1	1329.692
IPI00289983	0.9993	16/ 22	R.SPIDTFPTDPIK.E	2	1330.092
IPI00289983	0.998	17/ 22	R.SPIDTFPTDPIK.E	2	1330.792
IPI00289983	0.9813	13/ 14	K.DFIATLGK.L	2	864.192
IPI00289983	0.99	15/ 22	R.SPIDTFPTDPIK.E	2	1330.592
IPI00289983	0.995	10/ 12	K.FVTLVFR.H	2	881.292
IPI00289983	0.9982	19/ 24	R.LQGGVLVNEILNH.M R.LQGGVLVNEILNHM[1	2	1405.192
IPI00289983	0.9991	21/ 28	47.19]K.R	2	1680.692
IPI00289983	0.9943	20/ 22	R.LQGGVLVNEILN.H	2	1268.492
IPI00289983	0.9942	16/ 18	R.FQELESETLK.S	2	1223.692
IPI00289983	0.9821	13/ 22	R.SPIDTFPTDPIK.E R.FAELVGPVIPQDWSTE C[160.14]M[147.19]TT	2	1330.692
IPI00289983	0.9971	23/ 40	N.S	2	2411.392
IPI00290078	0.9581	13/ 16	K.VQFLEQQNK.V R.GQAAVQQLQAEGLSP	2	1133.492
IPI00290462		1 24/ 30	R.F	2	1652.492
IPI00290857	0.9932	15/ 20	R.TAAENEFVTLK.K R.DTTPLNVLC[160.14]S	2	1223.192
IPI00291136	0.9934	28/ 80	PGIQVSVGIK.D R.EILSVDC[160.14]STN	3	2198.892
IPI00291262	0.9997	17/ 30	NPSQAK.L R.EILSVDC[160.14]STN	2	1763.092
IPI00291262	0.9989	18/ 28	NPSQA.K	2	1636.292
IPI00291262	0.9965	19/ 22	D.PITVTVPEVSR.K	2	1296.692

IPI00291262	1	23/ 30	L.FSDPITVTVPVEVSR. K	2	1761.792
IPI00291262	0.9942	24/ 32	K.LFSDPITVTVPVEVSR .K	2	1873.892
IPI00291262	0.9073	17/ 26	K.LFSDPITVTVPVE.V R.EILSVDC[160.14]STN	2	1532.492
IPI00291262	0.9962	17/ 28	NPSQA.K R.VTTVASHTSDSDVPSG	2	1635.392
IPI00291262	0.9492	23/ 42	VTEVVV.K	2	2185.792
IPI00291262	0.9838	18/ 22	D.PITVTVPVEVSR.K K.GVTSVSQIFHSPDLAI	2	1296.992
IPI00291866	0.9889	25/ 64	R.D K.GVTSVSQIFHSPDLAI	3	1828.392
IPI00291866	0.9999	29/ 64	R.D	3	1828.792
IPI00292530	0.9635	14/ 18	K.LDAQASFLPK.E -	2	1089.392
IPI00293276	0.9986	17/ 20	.PM[147.19]FIVNTNVPR .A -	2	1303.792
IPI00293276	0.9997	16/ 20	.PM[147.19]FIVNTNVPR .A -	2	1304.892
IPI00293276	0.9345	15/ 20	.PM[147.19]FIVNTNVPR .A	2	1302.892
IPI00293276	0.9985	15/ 16	K.LLC[160.14]GLLAER. L -	2	1044.792
IPI00293276	0.9973	17/ 20	.PM[147.19]FIVNTNVPR .A	2	1302.692
IPI00293665	0.9992	35/100	R.ATGGGLSSVGGGSSTI KYTTTSSSSR.K	3	2406.692
IPI00294653	0.9986	23/ 30	R.AGAQLLSSLSGYAYTK. R	2	1629.692
IPI00295386	0.9998	18/ 20	R.VVNVSSIM[147.19]S VR.A	2	1206.592
IPI00295386	0.9976	18/ 20	R.VVNVSSIM[147.19]S VR.A	2	1206.892
IPI00295741	0.9856	19/ 24	R.LC[160.14]GTFLGGP KPPQ.R	2	1371.792
IPI00295741	0.9982	18/ 24	R.LC[160.14]GTFLGGP KPPQ.R	2	1371.792
IPI00296286	0.9996	17/ 22	R.IGDTVTC[160.14]VC[ 160.14]QFK.C	2	1427.692
IPI00296803	0.9493	12/ 18	R.QSFASDSSSK.S R.YLIFPNPVC[160.14]L	1	1044.592
IPI00296922	0.9843	27/ 32	EPGISYK.L R.YLIFPNPVC[160.14]L	2	2009.892
IPI00296922	0.9921	14/ 32	EPGISYK.L	2	2010.892

IPI00296922	0.9324	13/ 32	R.YLIFPNPVC[160.14]L EPGISYK.L	2	2010.692
IPI00297444	0.9998	35/ 76	R.GATHC[160.14]YDGY IHLSGGGLSTK.M	3	2094.592
IPI00297444	0.9984	24/ 48	A.LLC[160.14]QFGTVQ HVWK.V	3	1615.592
IPI00297444	0.9973	18/ 24	A.LLC[160.14]QFGTVQ HVWK.V	2	1615.992
IPI00297444	0.975	13/ 16	R.GGGIFSNLR.V	2	920.192
IPI00298497	0.9998	26/ 72	R.EEAPSLRPAPPPISGGG YR.A	3	1952.292
IPI00298497	0.9991	21/ 28	R.TPC[160.14]TVSC[16 0.14]NIPVVSGK.E	2	1619.792
IPI00298497	0.9948	27/ 76	R.KGGETSEM[147.19]Y LIQPDSVVKPY.R	3	2245.492
IPI00298497	0.9928	24/ 32	K.HQLYIDETVNSNIPTNL .R	2	1971.292
IPI00298547	0.9258	30/100	K.EGPDVVVLPGGNLGA QNLSESAAVK.E	3	2584.392
IPI00298547	1	29/ 60	K.VTVAGLAGKDPVQC[1 60.14]SR.D	3	1659.592
IPI00298828	0.9996	25/ 28	K.FIC[160.14]PLTGLWP INTLK.C	2	1772.892
IPI00298828	1	29/ 64	R.TC[160.14]PKPDDLPF STVVPLK.T	3	1915.392
IPI00298828	0.9377	26/ 88	K.WSPELPVC[160.14]A PIIC[160.14]PPPSIPTFA T.L	3	2551.292
IPI00298828	0.9582	35/ 92	K.WSPELPVC[160.14]A PIIC[160.14]PPPSIPTFA TL.R	3	2664.192
IPI00298860	0.9971	16/ 24	K.GGSFQLNELQGLK.S	2	1390.592
IPI00298860	0.9618	20/ 36	R.THYYAVAVVK.K	3	1151.992
IPI00298860	0.994	14/ 18	R.THYYAVAVVK.K	2	1149.992
IPI00298860	1	22/ 26	R.SVQWC[160.14]AVS QPEATK.C	2	1591.792
IPI00298860	0.9974	19/ 22	R.FFSASC[160.14]VPG ADK.G	2	1284.692
IPI00298860	0.9998	22/ 34	K.DVTVLQNTDGNNNEA WAK.D	2	1989.192
IPI00298860	0.9999	25/ 52	K.KGGSFQLNELQGLK.S	3	1519.492
IPI00298860	0.9985	17/ 24	K.KGGSFQLNELQGLK.S	2	1390.892
IPI00298860	0.9972	25/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1976.692
IPI00298860	0.9978	34/ 76	R.FFSASC[160.14]VPG ADKGQFPNLC[160.14]R .L	3	2260.192

IPI00298860	0.9999	26/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1975.592
IPI00298860	0.9999	24/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1978.792
IPI00298860	0.9969	25/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1976.692
IPI00298860	0.9999	21/ 26	R.DSPIQC[160.14]IQAI AENR.A	2	1614.792
IPI00298860	1	31/ 76	R.ADAVTLDGGFIYEAGL APYK.L	3	2072.692
IPI00298860	0.9994	25/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1976.692
IPI00298860	1	29/ 38	R.ADAVTLDGGFIYEAGL APYK.L	2	2070.892
IPI00298860	1	29/ 38	R.ADAVTLDGGFIYEAGL APYK.L	2	2071.592
IPI00298860	1	22/ 26	R.SVQWC[160.14]AVS QPEATK.C	2	1591.492
IPI00298860	0.9963	19/ 22	R.FFSASC[160.14]VPG ADK.G	2	1285.692
IPI00298860	0.9995	27/ 52	K.KGGSFQLNELQGLK.S	3	1519.492
IPI00298860	0.999	17/ 24	K.KGGSFQLNELQGLK.S	2	1390.692
IPI00298860	0.9999	27/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1975.392
IPI00298860	0.9991	24/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1975.592
IPI00298860	0.9998	27/ 38	R.ADAVTLDGGFIYEAGL APYK.L	2	2071.592
IPI00298860	0.9968	19/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1976.892
IPI00298860	1	27/ 38	R.ADAVTLDGGFIYEAGL APYK.L	2	2071.792
IPI00298860	0.9997	21/ 38	R.ADAVTLDGGFIYEAGL APYK.L	2	2073.492
IPI00298860	0.9994	16/ 24	K.KGGSFQLNELQGLK.S R.ADAVTLDGGFIYEAGL	2	1390.592
IPI00298860	0.9998	27/ 38	APYK.L R.ADAVTLDGGFIYEAGL	2	2070.992
IPI00298860	0.999	26/ 38	APYK.L	2	2070.892
IPI00298860	0.9949	20/ 36	R.THYYAVAVVK.K	3	1151.792
IPI00298860	0.9999	25/ 52	K.KGGSFQLNELQGLK.S	3	1519.792
IPI00298860	0.9999	26/ 32	K.C[160.14]AFSSQEPYF SYSGAFK.C	2	1975.792
IPI00298860	0.9992	26/ 38	R.ADAVTLDGGFIYEAGL APYK.L	2	2070.792
IPI00298860	0.9961	15/ 18	R.THYYAVAVVK.K	2	1150.192

IPI00298860	0.9985	22/ 26	R.SVQWC[160.14]AVS QPEATK.C	2	1589.892
IPI00298860	0.9923	15/ 24	K.GGSFQLNELQGLK.S R.DSPIQC[160.14]IQAI	2	1391.592
IPI00298860	0.9977	14/ 26	AENR.A K.C[160.14]AFSSQEPYF	2	1614.992
IPI00298860	0.9998	21/ 32	SYSGAFK.C R.ADAVTLDGGFIYEAGL	2	1976.492
IPI00298860	1	28/ 38	APYK.L K.C[160.14]AFSSQEPYF	2	2070.692
IPI00298860	0.9967	16/ 32	SYSGAFK.C K.FDEYFSQSC[160.14]	2	1977.492
IPI00298860	0.9997	23/ 30	APGSDPR.S R.C[160.14]LAENAGDV	2	1862.492
IPI00298860	0.9454	21/ 24	AFVK.D	2	1393.492
IPI00298860	0.9993	24/ 28	K.YLGPQYVAGITNLKK.C R.VVWC[160.14]AVGE	2	1664.692
IPI00298860	0.9999	18/ 22	QELR.K	2	1445.592
IPI00298860	0.9989	20/ 24	L.GPQYVAGITNLKK.C K.NLLFNDNTEC[160.14]	2	1388.892
IPI00298860	1	21/ 24	]LAR.L R.C[160.14]LAENAGDV	2	1579.592
IPI00298860	0.9667	15/ 24	AFVK.D K.C[160.14]GLVPVLAE	2	1393.692
IPI00298860	0.9998	19/ 22	NYK.S	2	1363.492
IPI00298860	0.9889	23/ 26	K.YLGPQYVAGITNLK.K K.SQQSSDPDPNC[160.14]	2	1536.792
IPI00298860	0.9996	40/100	VDRPVEGYLAVAVVR .R	3	2859.992
IPI00298860	1	19/ 22	K.LADFALLC[160.14]LD GK.R	2	1336.792
IPI00298860	0.9998	26/ 36	R.IDSGLYLGSGYFTAIQN LR.K	2	2088.192
IPI00298860	0.9857	37/ 72	R.IDSGLYLGSGYFTAIQN LR.K	3	2089.492
IPI00298860	0.9999	20/ 24	R.C[160.14]LAENAGDV AFVK.D	2	1393.892
IPI00298860	0.9983	19/ 22	R.VVWC[160.14]AVGE QELR.K	2	1445.592
IPI00298860	0.9925	24/ 28	K.YLGPQYVAGITNLKK.C K.NLLFNDNTEC[160.14]	2	1665.692
IPI00298860	1	21/ 24	]LAR.L	2	1579.792
IPI00298860	1	24/ 26	K.YLGPQYVAGITNLK.K K.LADFALLC[160.14]LD	2	1536.492
IPI00298860	0.9995	19/ 22	GK.R	2	1336.292

IPI00298860	0.9966	35/ 72	R.IDSGLYLGSYFTAIQN LR.K	3	2089.492
IPI00298860	0.9997	25/ 36	R.IDSGLYLGSYFTAIQN LR.K	2	2088.992
IPI00298860	0.9997	18/ 22	K.LADFALLC[160.14]LD GK.R	2	1336.392
IPI00298860	0.9992	17/ 22	R.VVWC[160.14]AVGE QELR.K	2	1445.292
IPI00298860	0.9977	16/ 22	K.C[160.14]GLVPVLAE NYK.S	2	1363.692
IPI00298860	0.9993	24/ 26	K.YLGPQYVAGITNLK.K K.LADFALLC[160.14]LD	2	1538.092
IPI00298860	0.9997	19/ 22	GK.R R.C[160.14]LAENAGDV	2	1335.792
IPI00298860	0.9385	21/ 24	AFVK.D R.VVWC[160.14]AVGE	2	1392.792
IPI00298860	0.9868	19/ 22	QELR.K	2	1445.692
IPI00298860	0.9998	24/ 28	K.YLGPQYVAGITNLK.K K.NLLFNDNTEC[160.14	2	1664.692
IPI00298860	0.9999	21/ 24	]LAR.L K.C[160.14]GLVPVLAE	2	1579.692
IPI00298860	0.9982	18/ 22	NYK.S	2	1362.492
IPI00298860	0.9999	24/ 26	K.YLGPQYVAGITNLK.K R.IDSGLYLGSYFTAIQN	2	1538.892
IPI00298860	0.9997	26/ 36	LR.K R.C[160.14]LAENAGDV	2	2088.792
IPI00298860	0.9949	20/ 24	AFVK.D	2	1393.092
IPI00298860	0.9811	14/ 20	K.FQLFGSPSGQK.D R.VVWC[160.14]AVGE	2	1195.492
IPI00298860	0.9347	18/ 22	QELR.K	2	1445.992
IPI00298860	0.9976	21/ 28	K.YLGPQYVAGITNLK.K K.NLLFNDNTEC[160.14	2	1665.792
IPI00298860	0.9981	20/ 24	]LAR.L	2	1579.592
IPI00298860	0.9987	23/ 26	K.YLGPQYVAGITNLK.K R.SIAQYWLGC[160.14]	2	1535.892
IPI00298971	0.999	18/ 28	PAPGHL.- R.SIAQYWLGC[160.14]	2	1669.792
IPI00298971	0.9999	20/ 28	PAPGHL.- R.ANVAVVSGAPLQGQLV	2	1669.592
IPI00299086	1	25/ 34	AR.P	2	1749.592
IPI00299086	0.9408	15/ 20	K.DSTGHVGFIFK.N R.AIGGGLSSVGGGSSTI	2	1207.592
IPI00299145	0.9953	26/ 32	K.Y	2	1447.192

			R.AIGGGLSSVGGGSSTI		
IPI00299145	0.9996	40/100	KYTTTTSSSSR.K	3	2419.092
IPI00299429	0.9092	9/ 10	R.FNLVLR.N	2	761.392
IPI00299547	0.9995	15/ 20	K.SYPGLTSYLVR.V	2	1255.492
IPI00299547	0.9888	15/ 16	Y.PGLTSYLVR.V	2	1005.192
			R.TFVPGC[160.14]QPG		
IPI00299547	0.999	25/ 32	EFTLGNIK.S	2	1865.292
			K.SLGLPENHIVFPVPIDQ		
IPI00299547	0.9992	23/ 40	C[160.14]IDG.-	2	2319.792
			R.TFVPGC[160.14]QPG		
IPI00299547	0.9752	19/ 30	EFTLGNI.K	2	1735.892
			R.TFVPGC[160.14]QPG		
IPI00299547	1	34/ 64	EFTLGNIK.S	3	1866.692
			R.TFVPGC[160.14]QPG		
IPI00299547	0.9974	25/ 32	EFTLGNIK.S	2	1865.692
			K.SLGLPENHIVFPVPIDQ		
IPI00299547	0.9997	22/ 40	C[160.14]IDG.-	2	2321.592
			R.TFVPGC[160.14]QPG		
IPI00299547	0.9976	26/ 32	EFTLGNIK.S	2	1864.692
			R.NPLFDHAALSAPLPAPS		
IPI00299699	0.9976	30/ 88	SPPALP.-	3	2281.092
IPI00300096	0.9566	16/ 20	K.LLIIGDSGVGK.S	2	1071.292
			R.YADDTFTPAFVSTVGI		
IPI00300562	0.9999	23/ 36	DFK.V	2	2094.992
			R.YADDTFTPAFVSTVGI		
IPI00300562	0.9957	21/ 36	DFK.V	2	2094.292
			R.YADDTFTPAFVSTVGI		
IPI00300562	0.9458	29/ 36	DFK.V	2	2094.892
IPI00300725	0.9998	15/ 18	R.SGFSSVSVSR.S	2	1012.592
			K.EVNVSPC[160.14]PT		
IPI00301579	0.9994	18/ 30	QPC[160.14]QLSK.G	2	1843.792
			K.AVVHGILM[147.19]G		
			VPVPFPIPEPDGC[160.1		
IPI00301579	0.9985	31/ 88	4]K.S	3	2444.892
			G.ILM[147.19]GVPVPFP		
IPI00301579	0.9995	20/ 34	IPEPDGC[160.14]K.S	2	1982.692
			G.ILM[147.19]GVPVPFP		
IPI00301579	0.9821	27/ 68	IPEPDGC[160.14]K.S	3	1983.292
IPI00305457	0.9921	14/ 18	K.LSITGTYDLK.S	2	1110.492
			K.VFSNGADLSGVTEEAP		
IPI00305457	0.9767	26/ 34	LK.L	2	1836.592
IPI00305457	0.9998	16/ 18	K.LSITGTYDLK.S	2	1110.792
IPI00305457	0.9997	16/ 18	K.SVLGQLGITK.V	2	1016.492
IPI00305457	0.9991	17/ 18	K.SVLGQLGITK.V	2	1015.192
			K.VFSNGADLSGVTEEAP		
IPI00305457	0.9874	23/ 34	LK.L	2	1834.892



IPI00305457	0.9998	32/ 56	K.FNKPVFVFLM[147.19]I EQNTK.S	3	1873.692
IPI00305457	0.9984	34/ 76	K.LSITGTYDLKSVLGQL GITK.V	3	2108.692
IPI00305457	0.9998	25/ 38	K.LSITGTYDLKSVLGQL GITK.V	2	2108.292
IPI00305457	0.994	15/ 18	K.LSITGTYDLK.S	2	1110.092
IPI00305457	0.999	16/ 18	K.SVLGQLGITK.V	2	1015.292
IPI00305457	0.9998	14/ 18	K.LSITGTYDLK.S	2	1109.992
IPI00305457	0.998	16/ 18	K.SVLGQLGITK.V	2	1015.492
IPI00305457	1	25/ 34	K.VFSNGADLSGVTEEAP LK.L	2	1834.592
IPI00305457	0.9556	26/ 76	K.LSITGTYDLKSVLGQL GITK.V	3	2107.492
IPI00305457	0.9975	25/ 38	K.LSITGTYDLKSVLGQL GITK.V	2	2106.492
IPI00305457	0.9904	13/ 18	K.LSITGTYDLK.S	2	1110.192
IPI00305457	0.9994	17/ 18	K.SVLGQLGITK.V	2	1016.792
IPI00305461	1	22/ 36	K.VVNNSPQPQNVVFDV QIPK.G	2	2123.492
IPI00305461	0.9999	33/ 72	K.VVNNSPQPQNVVFDV QIPK.G	3	2123.192
IPI00306543	0.997	16/ 28	R.EVQVTM[147.19]C[1 60.14]IGAC[160.14]PS QF.R	2	1742.792
IPI00306543	0.9997	20/ 30	K.TDTGVSLQTYDDLAK .D	2	1739.992
IPI00306543	0.9998	23/ 30	R.EVQVTM[147.19]C[1 60.14]IGAC[160.14]PS QFR.A	2	1899.492
IPI00306543	0.9869	19/ 28	R.EVQVTM[147.19]C[1 60.14]IGAC[160.14]PS QF.R	2	1742.292
IPI00306543	0.9983	36/ 92	R.LKPDTVPAPC[160.14] C[160.14]VPASYNPM[1 47.19]VLIQK.T	3	2715.392
IPI00306543	0.9999	24/ 30	K.TDTGVSLQTYDDLAK .D	2	1739.692
IPI00306543	1	33/ 92	R.LKPDTVPAPC[160.14] C[160.14]VPASYNPMVL IQK.T	3	2700.092
IPI00328493	1	22/ 26	S.SVTAADTAVYYC[160. 14]AR.D	2	1548.592
IPI00328493	0.9913	21/ 30	K.LSSVTAADTAVYYC[16 0.14]AR.D	2	1747.392
IPI00328493	0.9926	23/ 30	K.LSSVTAADTAVYYC[16 0.14]AR.D	2	1748.692
IPI00328493	1	22/ 26	S.SVTAADTAVYYC[160. 14]AR.D	2	1547.692

IPI00328493	0.9808	25/ 60	K.LSSVTAADTAVYYC[16 0.14]AR.D	3	1748.092
			-		
IPI00382436	0.9997	27/ 34	.SELTQDPAVSVALGQTV R.I	2	1870.792
			-		
IPI00382436	0.9999	35/ 68	.SELTQDPAVSVALGQTV R.I	3	1871.992
			-		
IPI00382436	0.9987	26/ 34	.SELTQDPAVSVALGQTV R.I	2	1870.192
			-		
IPI00382478	0.9842	22/ 34	.EVQLLESGGGLVQPGGS L.R	2	1740.692
IPI00382480	0.9019	25/ 30	Q.LVESGGGLVQPGGSLR .L	2	1525.692
			-		
IPI00382480	0.9766	33/ 72	.EVQLVESGGGLVQPGG SLR.L	3	1882.992
IPI00382606		1 23/ 26	K.FNWWYVDGVEVHNAK. T	2	1677.792
IPI00382606	0.9786	23/ 52	K.FNWWYVDGVEVHNAK. T	3	1679.092
IPI00382606	0.9995	22/ 26	K.FNWWYVDGVEVHNAK. T	2	1678.492
IPI00382606	0.9612	21/ 52	K.FNWWYVDGVEVHNAK. T	3	1679.092
IPI00382606	0.9998	21/ 26	K.FNWWYVDGVEVHNAK. T	2	1677.992
IPI00382606	0.999	21/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1873.792
IPI00382606	0.9995	20/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1873.892
IPI00382606	0.9934	25/ 64	K.TTPPVLDSDGSFFLYSK .L	3	1874.792
IPI00382606	0.999	20/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1874.492
IPI00382606	0.9978	30/ 64	K.TTPPVLDSDGSFFLYSK .L	3	1875.892
IPI00382606	0.9571	21/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1873.592
IPI00382606		1 38/100	K.THTC[160.14]PPC[16 0.14]PAPELLGGPSVFLF PPKPK.D	3	2846.792
IPI00382606	0.9997	22/ 36	K.THTC[160.14]PPC[16 0.14]PAPELLGGPSVFL	2	2037.692
IPI00382606	0.9684	23/ 28	T.PPVLDSDGSFFLYSK.L	2	1672.792

IPI00382606	1	33/ 64	K.TTPPVLDSDGSFFLYSK .L	3	1874.692
IPI00382606	0.9955	22/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1874.792
IPI00382606	0.9999	25/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1874.292
IPI00382606	0.9781	16/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1873.492
IPI00382606	0.992	38/100	K.THTC[160.14]PPC[16 0.14]PAPELLGGPSVFLF PPKPK.D	3	2845.592
IPI00382606	0.974	13/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1874.192
IPI00382606	0.9997	21/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1872.992
IPI00382606	0.9937	22/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1873.892
IPI00382606	0.9879	24/ 64	K.THTC[160.14]PPC[16 0.14]PAPELL.G	3	1874.992
IPI00382606	0.9966	21/ 24	K.THTC[160.14]PPC[16 0.14]PAPELL.G	2	1492.392
IPI00382606	0.9997	22/ 36	K.THTC[160.14]PPC[16 0.14]PAPELLGGPSVF.L	2	2038.192
IPI00382606	0.9823	20/ 28	T.PPVLDSDGSFFLYSK.L K.TTPPVLDSDGSFFLYSK	2	1673.092
IPI00382606	0.9561	23/ 32	.L	2	1875.892
IPI00382606	0.9995	23/ 28	T.PPVLDSDGSFFLYSK.L K.TTPPVLDSDGSFFLYSK	2	1671.392
IPI00382606	0.9924	24/ 32	.L K.TTPPVLDSDGSFFLYSK	2	1875.792
IPI00382606	0.9689	24/ 32	.L K.TTPPVLDSDGSFFLYSK	2	1872.592
IPI00382606	0.9982	22/ 32	.L K.TTPPVLDSDGSFFLYSK	2	1873.992
IPI00382606	0.9915	18/ 32	.L	2	1873.492
IPI00382606	0.9999	42/116	K.SC[160.14]DKTHTC[ 160.14]PPC[160.14]PA PELLGGPSVFLFPPKPK.D K.THTC[160.14]PPC[16 0.14]PAPELLGGPSVFLF PPK.P	3	3338.192
IPI00382606	0.9976	34/ 92	K.THTC[160.14]PPC[16 0.14]PAPELLGGPSVFLF PPKPK.D	3	2622.492
IPI00382606	0.9213	36/100	PPKPK.D	3	2845.292

IPI00382606	0.9675	38/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2846.292
IPI00382606	0.9999	38/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2844.592
IPI00382606	0.996	39/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2845.892
IPI00382606	0.9132	27/ 88	T.C[160.14]PPC[160.14] ]PAPELLGGPSVFLFPPKPK.D	3	2507.392
IPI00382606	0.9973	39/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2847.292
IPI00382606	0.9998	20/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1875.292
IPI00382606	0.9987	22/ 28	T.PPVLDSDGSFFLYSK.L K.TTPPVLDSDGSFFLYSK	2	1671.192
IPI00382606	0.9997	26/ 32	.L K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	2	1874.292
IPI00382606	0.9924	36/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2846.692
IPI00382606	0.9989	40/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2846.292
IPI00382606	0.9993	25/100	K.THTC[160.14]PPC[160.14]PAPELLGGPSVFLF PPKPK.D	3	2845.092
IPI00382606	0.9943	13/ 32	K.TTPPVLDSDGSFFLYSK .L	2	1874.992
IPI00382990	0.9757	12/ 16	R.EFLGNFDTK.L	2	1072.392
IPI00383071	0.9998	21/ 28	K.VVLAYEPVWAIGTGK.T	2	1602.792
IPI00383071	0.9797	22/ 28	K.VVLAYEPVWAIGTGK.T	2	1603.692
IPI00383071	0.9992	20/ 28	K.VVLAYEPVWAIGTGK.T	2	1603.892
IPI00383071	1	22/ 28	K.VVLAYEPVWAIGTGK.T	2	1603.092
IPI00383071	1	23/ 28	K.VVLAYEPVWAIGTGK.T	2	1603.592
IPI00383071	0.9987	18/ 30	K.VTNGAFTGEISPGM[1 47.19]IK.D	2	1637.992
IPI00383732	0.9961	14/ 22	K.GPSVFPLAPSSK.S	2	1186.492
IPI00383732	0.9946	14/ 22	K.GPSVFPLAPSSK.S	2	1186.192
IPI00383732	0.994	14/ 22	K.GPSVFPLAPSSK.S	1	1185.592
IPI00383732	0.9983	15/ 22	K.GPSVFPLAPSSK.S	2	1186.092

IPI00383732	0.9927	14/ 22	K.GPSVFPLAPSSK.S	2	1186.092
IPI00383732	0.9901	15/ 22	K.GPSVFPLAPSSK.S	2	1186.992
IPI00383732	0.9932	14/ 22	K.GPSVFPLAPSSK.S	1	1185.692
IPI00383732	0.9678	15/ 22	K.GPSVFPLAPSSK.S	2	1185.292
IPI00383732	0.9794	16/ 22	K.GPSVFPLAPSSK.S	2	1189.092
IPI00383732	0.9943	13/ 22	K.GPSVFPLAPSSK.S	1	1185.792
			R.APSTYGGGLSVSSSR.		
IPI00384444	0.9999	20/ 28	F	2	1424.992
			R.APSTYGGGLSVSSSR.		
IPI00384444	0.9999	18/ 28	F	2	1425.292
			R.DASGATFTWTPSSGK.		
IPI00384952	0.9568	18/ 28	S	2	1511.592
			R.DASGATFTWTPSSGK.		
IPI00384952	0.9998	17/ 28	S	2	1512.492
			R.DASGATFTWTPSSGK.		
IPI00384952	0.9998	19/ 28	S	2	1512.392
IPI00385264	0.9997	28/ 56	R.VFAIPPSFASIFLTK.S	3	1638.592
IPI00385264	0.997	22/ 28	R.VFAIPPSFASIFLTK.S	2	1638.692
			R.FTC[160.14]TVTHTDL		
IPI00385264	0.9922	26/ 56	PSPLK.Q	3	1718.992
			R.FTC[160.14]TVTHTDL		
IPI00385264	0.9987	20/ 28	PSPLK.Q	2	1716.792
			T.C[160.14]TVTHTDLPS		
IPI00385264	0.9892	20/ 24	PLK.Q	2	1468.692
IPI00385264	0.9999	24/ 28	R.VFAIPPSFASIFLTK.S	2	1638.592
IPI00385264	0.9997	32/ 56	R.VFAIPPSFASIFLTK.S	3	1638.892
IPI00385264	0.9968	18/ 20	I.PPSFASIFLTK.S	2	1208.092
IPI00385264	0.9961	19/ 28	R.VFAIPPSFASIFLTK.S	2	1637.792
			G.EIVLTQSPATLSLSPGE		
IPI00387117	0.9779	21/ 34	R.A	2	1897.692
			G.EIVLTQSPATLSLSPGE		
IPI00387117	1	22/ 34	R.A	2	1898.692
			G.EIVLTQSPATLSLSPGE		
IPI00387117	0.9997	22/ 34	R.A	2	1898.592
			R.LS[167.08]S[167.08]		
			GFGGGGGGGSGGGGG		
IPI00395663	0.9402	21/ 36	G.S	2	1498.892
IPI00396434	0.961	11/ 12	K.HEQVYIR.S	2	943.592
			R.LFEDTNLC[160.14]AI		
IPI00398107	0.9501	19/ 22	HA.R	2	1403.592
			K.C[160.14]C[160.14]V		
			EC[160.14]PPC[160.14		
			]PAPPVAGPSVFLFPPKPK		
IPI00399007	0.9968	29/100	.D	3	2909.092

IPI00399007	0.9589	13/ 50	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	2	2908.092
IPI00399007	0.9904	31/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.492
IPI00399007	0.9229	33/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.892
IPI00399007	0.9959	28/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.892
IPI00399007	0.981	33/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.092
IPI00399007	0.9927	19/ 30	A.PPVAGPSVFLFPPKPK. D	2	1679.392
IPI00399007	0.9982	34/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.592
IPI00399007	0.9943	31/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.192
IPI00399007	0.9509	12/ 28	P.PVAGPSVFLFPPKPK.D R.KC[160.14]C[160.14] VEC[160.14]PPC[160.1 4]PAPPVAGPSVFLFPPKP K.D	2	1580.492
IPI00399007	0.9998	43/104	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	3037.092
IPI00399007	0.9998	36/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.492
IPI00399007	0.9999	41/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	3	2909.492
IPI00399007	0.9831	14/ 50	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14 ]PAPPVAGPSVFLFPPKPK .D	2	2908.092

IPI00399007	0.9988	26/ 40	C.PPC[160.14]PAPPVAG PSVFLFPPKPK.D	2	2200.092
IPI00399007	0.9998	35/ 80	C.PPC[160.14]PAPPVAG PSVFLFPPKPK.D	3	2200.992
IPI00399007	0.9541	28/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14] ]PAPPVAGPSVFLFPPKPK .D	3	2908.292
IPI00399007	0.954	14/ 28	P.PVAGPSVFLFPPKPK.D K.C[160.14]C[160.14]V EC[160.14]PPC[160.14] ]PAPPVAGPSVFLFPPKPK .D	2	1580.592
IPI00399007	0.9971	35/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14] ]PAPPVAGPSVFLFPPKPK .D	3	2908.692
IPI00399007	0.9939	15/ 50	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14] ]PAPPVAGPSVFLFPPKPK .D	2	2908.292
IPI00399007	0.9997	39/100	A.PPVAGPSVFLFPPKPK. .D	3	2910.192
IPI00399007	0.9997	23/ 30	D	2	1679.492
IPI00399007	0.9992	25/ 40	C.PPC[160.14]PAPPVAG PSVFLFPPKPK.D	2	2200.192
IPI00399007	1	41/ 80	C.PPC[160.14]PAPPVAG PSVFLFPPKPK.D	3	2201.992
IPI00399007	0.9998	28/100	K.C[160.14]C[160.14]V EC[160.14]PPC[160.14] ]PAPPVAGPSVFLFPPKPK .D	3	2911.092
IPI00399007	0.9366	33/ 80	C.PPC[160.14]PAPPVAG PSVFLFPPKPK.D	3	2199.892
IPI00399007	0.9999	18/ 26	R.STSESTAALGC[160.1 4]LVK.D	2	1423.592
IPI00399007	0.9998	21/ 26	R.STSESTAALGC[160.1 4]LVK.D	2	1424.792
IPI00399007	0.9801	15/ 26	R.STSESTAALGC[160.1 4]LVK.D	2	1424.192
IPI00399007	0.9977	21/ 26	R.STSESTAALGC[160.1 4]LVK.D	2	1424.892
IPI00399007	0.9656	13/ 26	R.STSESTAALGC[160.1 4]LVK.D	1	1422.792
IPI00399007	0.9839	23/ 52	R.STSESTAALGC[160.1 4]LVK.D	3	1424.892
IPI00401776	0.9917	24/ 44	K.VYHLPYYEAC[160.14] VR.D	3	1570.592

IPI00401776	0.9985	38/ 84	K.FGAAC[160.14]APTC[160.14]QM[147.19]LATGVAC[160.14]VPTK.C	3	2328.192
IPI00401776	0.9954	16/ 20	K.VYHLPYYEAC[160.14]V.R	2	1413.592
IPI00401776	0.9997	23/ 34	K.LDDPGEIC[160.14]TFQDIPSTHV.R	2	2043.692
IPI00401776		1 24/ 32	R.IC[160.14]TQLLTLVAPEC[160.14]SVSK.E	2	1919.892
IPI00401776	0.9995	31/ 64	R.IC[160.14]TQLLTLVAPEC[160.14]SVSK.E	3	1920.192
IPI00401776	0.9998	25/ 38	K.ESPLC[160.14]GDVSFVTDPC[160.14]SLNAF.R	2	2214.692
IPI00401776	0.9907	21/ 34	K.DIGVISLPYTSNGLQITP.F	2	1888.792
IPI00401776	0.9998	25/ 44	K.DIGVISLPYTSNGLQITPFGQSV.R	2	2407.092
IPI00401776	0.9384	15/ 18	K.DAFPTFSVQL.R	2	1125.092
IPI00401776		1 25/ 44	K.DIGVISLPYTSNGLQITPFGQSV.R	2	2407.392
IPI00401776	0.9984	35/ 88	K.DIGVISLPYTSNGLQITPFGQSV.R	3	2408.392
IPI00401776	0.991	17/ 22	R.C[160.14]HATVNPAPFYK.R	2	1403.792
IPI00401776	0.9994	40/ 96	R.ATEC[160.14]HHSAPVDGC[160.14]NC[160.14]PDGTYLNQK.G	3	2832.092
IPI00401776	0.9995	16/ 20	K.AQC[160.14]PC[160.14]ILEGYK.F	2	1339.492
IPI00401776	0.9723	29/ 96	R.ATEC[160.14]HHSAPVDGC[160.14]NC[160.14]PDGTYLNQK.G	3	2830.592
IPI00410714	0.9603	12/ 14	E.YGAEALER.M	2	907.792
IPI00410714	0.9957	19/ 22	A.HAGEYGAEALER.M	2	1302.592
IPI00410714	0.9879	18/ 20	K.VADALTNAVAH.V	2	1083.392
IPI00410714	0.9614	25/ 52	V.GAHAGEYGAEALER.M	3	1431.292
IPI00410714	0.9532	34/ 60	G.KVGAHAGEYGAEALER.M	3	1658.292
IPI00410714	0.9999	23/ 28	K.VGAHAGEYGAEALER.M	2	1529.392
IPI00410714	0.9982	33/ 64	W.GKVGHAHAGEYGAEALER.M	3	1715.392



IPI00410714	0.9733	22/ 26	V.GAHAGEYGAEALER.M	2	1430.192
IPI00410714	0.9989	18/ 20	H.AGEYGAEALER.M	2	1164.992
IPI00410714		1 19/ 28	K.VGAHAGEYGAEALER. M	1	1529.692
IPI00410714	0.9999	29/ 56	K.VGAHAGEYGAEALER. M	3	1530.192
IPI00410714	0.9998	30/ 56	M	3	1529.292
IPI00410714	0.902	17/ 24	G.AHAGEYGAEALER.M	2	1374.992
IPI00410714	0.9966	28/ 56	K.VGAHAGEYGAEALER. M	3	1531.692
IPI00410714	0.9901	19/ 20	K.VADALTNAVAH.V	2	1080.992
IPI00410714	0.9977	29/ 56	K.VGAHAGEYGAEALER. M	3	1529.892
IPI00410714	0.9963	25/ 52	L.PAEFTPAVHASLDK.F	3	1482.392
IPI00410714	0.9256	23/ 28	K.VGAHAGEYGAEALER. M	2	1530.392
IPI00410714		1 21/ 24	K.VADALTNAVAHV.D	2	1296.192
IPI00410714	0.9997	37/ 76	K.AAWGKVGGAHAGEYGA EALER.M	3	2042.792
IPI00410714	0.9888	17/ 20	F.LASVSTVLTSK.Y	2	1106.392
IPI00410714	0.9999	30/ 60	A.HLPAEFTPAVHASLDK. F	3	1733.092
IPI00410714	0.9989	23/ 28	K.VGAHAGEYGAEALER. M	2	1528.292
IPI00410714	0.9927	21/ 24	K.VADALTNAVAHV.D	2	1294.692
IPI00410714	0.9995	21/ 24	K.VADALTNAVAHV.D	2	1297.792
IPI00410714	0.9987	27/ 56	H.LPAEFTPAVHASLDK.F	3	1596.292
IPI00410714	0.9982	26/ 44	P.HFDLSHGSAQVK.G	3	1325.792
IPI00410714	0.9904	25/ 60	K.TYFPHFDLSHGSAQVK .G	3	1833.792
IPI00410714	0.9999	24/ 30	K.TYFPHFDLSHGSAQVK .G	2	1834.492
IPI00410714	0.9948	19/ 22	P.HFDLSHGSAQVK.G	2	1325.292
IPI00410714	0.9935	18/ 24	F.PHFDLSHGSAQVK.G	2	1422.792
IPI00410714	0.9826	17/ 20	H.FDLSHGSAQVK.G	2	1189.292
IPI00410714	0.9983	25/ 48	F.PHFDLSHGSAQVK.G	3	1422.892
IPI00410714	0.9367	22/ 56	T.YFPHFDLSHGSAQVK. G	3	1733.092
IPI00410714	0.9992	21/ 26	K.VADALTNAVAHVDD.M	2	1410.392
IPI00410714	0.9942	28/ 60	K.TYFPHFDLSHGSAQVK .G	3	1834.992
IPI00410714	0.9998	20/ 36	K.VADALTNAVAHVDDM[ 147.19]PNAL.S	2	1954.192
IPI00410714	0.9989	20/ 22	K.FLASVSTVLTSK.Y	2	1252.392

IPI00410714	0.9977	23/ 32	K.VADALTNAVAHVDDM[ 147.19]PN.A	2	1769.392
IPI00410714		1 19/ 30	K.TYFPHFDLSHGSAQVK .G	1	1832.692
IPI00410714		1 20/ 26	K.TYFPHFDLSHGSAQ.V R.M[147.19]FLSFPTTK.	2	1606.192
IPI00410714	0.9833	14/ 16	T	2	1087.192
IPI00410714	0.9981	23/ 32	K.VADALTNAVAHVDDM[ 147.19]PN.A	2	1769.492
IPI00410714	0.9913	25/ 60	K.TYFPHFDLSHGSAQVK .G	3	1834.092
IPI00410714	0.9618	24/ 60	K.TYFPHFDLSHGSAQVK .G	3	1834.392
IPI00410714	0.9999	19/ 22	K.FLASVSTVLTSK.Y	2	1251.892
IPI00410714	0.9073	17/ 22	N.ALSALSDLHAHK.L	2	1263.392
IPI00410714	0.9993	20/ 30	K.TYFPHFDLSHGSAQVK .G	2	1834.692
IPI00410714	0.9988	19/ 22	K.FLASVSTVLTSK.Y	2	1251.692
IPI00410714	0.9722	18/ 28	K.VGAHAGEYGAEALER. M	2	1530.392
IPI00410714	0.9999	42/112	K.VADALTNAVAHVDDM[ 147.19]PNALSALSDLHA HK.L	3	3013.992
IPI00410714	0.9904	17/ 26	M.PNALSALSDLHAHK.L	2	1474.792
IPI00410714	0.9983	18/ 22	K.FLASVSTVLTSK.Y	2	1251.592
IPI00410714	0.9973	21/ 36	K.VADALTNAVAHVDDM[ 147.19]PNAL.S	2	1953.592
IPI00410714	0.9986	17/ 26	M.PNALSALSDLHAHK.L	2	1474.792
IPI00410714	0.9988	21/ 40	K.VADALTNAVAHVDDM[ 147.19]PNALSA.L	2	2110.892
IPI00410714	0.997	16/ 22	K.FLASVSTVLTSK.Y	2	1252.492
IPI00410714	0.9978	30/ 60	K.TYFPHFDLSHGSAQVK .G	3	1833.292
IPI00410714	0.9887	14/ 16	R.M[147.19]FLSFPTTK. T	2	1087.192
IPI00410714	0.9993	19/ 22	K.FLASVSTVLTSK.Y	2	1252.492
IPI00410714	0.9943	14/ 16	R.MFLSFPTTK.T	2	1071.392
IPI00410714	0.9483	11/ 16	R.M[147.19]FLSFPTTK. T	2	1088.292
IPI00410714	0.9998	19/ 22	K.FLASVSTVLTSK.Y	2	1252.392
IPI00410714	0.9985	23/ 42	K.VADALTNAVAHVDDM[ 147.19]PNALSAL.S	2	2224.692
IPI00410714	0.9997	36/ 84	K.VADALTNAVAHVDDM[ 147.19]PNALSAL.S	3	2224.692

IPI00410714	1	32/ 92	K.VGAHAGEYGAEALER M[147.19]FLSFPTTK.T	3	2600.392
IPI00410714	0.999	37/112	K.VADALTNAVAHVDDM[ 147.19]PNALSALSDLHA HK.L	3	3013.592
IPI00410714	0.9979	47/100	K.VADALTNAVAHVDDM[ 147.19]PNALSALSDLH. A	3	2676.492
IPI00410714	1	18/ 22	K.FLASVSTVLTSK.Y	2	1252.792
IPI00410714	0.9992	19/ 22	K.FLASVSTVLTSK.Y	2	1252.892
IPI00410714	0.999	20/ 22	K.FLASVSTVLTSK.Y	2	1252.692
IPI00410714	0.9973	29/ 56	K.VGAHAGEYGAEALER. M	3	1530.092
IPI00410714	0.9999	28/ 56	K.VGAHAGEYGAEALER. M	3	1530.492
IPI00410714	0.9999	22/ 60	K.TYFPHFDLSHGSAQVK .G	3	1834.792
IPI00410714	0.9947	15/ 22	K.FLASVSTVLTSK.Y	2	1252.692
IPI00410714	0.9985	21/ 40	K.VADALTNAVAHVDDM[ 147.19]PNALSA.L	2	2111.392
IPI00410714	0.9677	19/ 36	K.VADALTNAVAHVDDM[ 147.19]PNAL.S	2	1952.692
IPI00410714	0.9964	43/108	K.VADALTNAVAHVDDM[ 147.19]PNALSALSDLHA H.K	3	2885.592
IPI00410714	0.9651	25/ 60	K.LLSHC[160.14]LLVTL AAHLPA.E	3	1729.992
IPI00410714	0.9614	28/104	K.VADALTNAVAHVDDM[ 147.19]PNALSALSDLHA .H	3	2748.692
IPI00410714	1	38/ 92	K.LLSHC[160.14]LLVTL AAHLP AEFTPAVHA.S	3	2583.392
IPI00413451	1	21/ 28	K.ADFSGM[147.19]SQT DLSLSK.V	2	1602.692
IPI00413451	0.9349	17/ 22	R.NLGM[147.19]TDAFE LGK.A	2	1311.592
IPI00414609	0.975	14/ 18	K.KTC[160.14]SVSEWII .-	2	1222.592
IPI00414896	0.9941	16/ 24	R.VC[160.14]EDGPVIFY PPPK.K	2	1504.092
IPI00418336	0.9835	19/ 32	K.GAAAAAASGAAGGG GG.G	2	1144.992
IPI00419237	0.9994	20/ 22	K.GITFDSGGISIK.A	2	1194.492
IPI00419402	0.9257	16/ 28	R.EGFPTDAPYPTTLGK.D R.TVAAPSVFIFPPSDEQL	2	1594.192
IPI00419424	1	26/ 34	K.S	2	1946.892

IPI00419424	0.9849	28/ 68	R.TVAAPSVFIFPPSDEQL K.S	3	1946.992
IPI00419424	0.9894	18/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1797.592
IPI00419424	0.93	25/ 60	K.SGTASVVC[160.14]LL NNFYPR.E	3	1799.592
IPI00419424	0.9999	24/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.692
IPI00419424	0.9998	20/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1798.692
IPI00419424	0.9999	25/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.792
IPI00419424	0.9998	25/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.792
IPI00419424	0.9361	26/ 60	K.SGTASVVC[160.14]LL NNFYPR.E	3	1799.192
IPI00419424	1	19/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1798.792
IPI00419424	0.9995	42/132	R.TVAAPSVFIFPPSDEQL KSGTASVVC[160.14]LL NNFYPR.E	3	3726.592
IPI00419424	0.9999	29/132	R.TVAAPSVFIFPPSDEQL KSGTASVVC[160.14]LL NNFYPR.E	3	3725.492
IPI00419424	0.9997	22/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.392
IPI00419424	1	32/ 68	R.TVAAPSVFIFPPSDEQL K.S	3	1946.092
IPI00419424	0.9997	25/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1945.892
IPI00419424	0.9878	26/ 68	R.TVAAPSVFIFPPSDEQL K.S	3	1946.092
IPI00419424	0.9999	25/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.792
IPI00419424	0.9999	21/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1798.992
IPI00419424	0.9997	24/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.692
IPI00419424	0.9996	25/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.292
IPI00419424	1	22/ 34	R.TVAAPSVFIFPPSDEQL K.S	2	1946.892
IPI00419424	0.9999	19/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1800.892
IPI00419424	0.9854	17/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1797.792
IPI00419424	0.9997	21/ 30	K.SGTASVVC[160.14]LL NNFYPR.E	2	1797.092

IPI00419424	0.9942	21/ 30	K.SGTASVVC[160.14]LL NNFYPR.E R.TVAAPSVFIFPPSDEQL	2	1800.092
IPI00419424	0.999	41/132	KSGTASVVC[160.14]LL NNFYPR.E K.SGTASVVC[160.14]LL	3	3727.592
IPI00419424	0.9986	20/ 30	NNFYPR.E R.TVAAPSVFIFPPSDEQL	2	1800.192
IPI00419424	0.9999	24/ 34	K.S R.TVAAPSVFIFPPSDEQL	2	1946.692
IPI00419424	0.9997	24/ 34	K.S R.TVAAPSVFIFPPSDEQL	2	1946.192
IPI00419424	1	23/ 34	K.S K.SGTASVVC[160.14]LL	2	1945.892
IPI00419424	0.9904	31/ 60	NNFYPR.E K.SGTASVVC[160.14]LL	3	1798.792
IPI00419424	1	20/ 30	NNFYPR.E K.SGTASVVC[160.14]LL	2	1799.092
IPI00419424	0.9885	21/ 30	NNFYPR.E K.VDNALQSGNSQESVT	2	1799.792
IPI00419424	0.9836	28/ 38	EQDSK.D K.VDNALQSGNSQESVT	2	2135.592
IPI00419424	0.9616	31/ 76	EQDSK.D K.VYAC[160.14]EVTHQ	3	2136.092
IPI00419424	0.9774	23/ 64	GLSSPVTK.S K.VYAC[160.14]EVTHQ	3	1875.292
IPI00419424	0.9999	21/ 32	GLSSPVTK.S V.YAC[160.14]EVTHQG	2	1876.192
IPI00419424	0.9997	23/ 30	LSSPVTK.S A.C[160.14]EVTHQGLS	2	1776.792
IPI00419424	0.9998	20/ 26	SPVTK.S K.VYAC[160.14]EVTHQ	2	1541.892
IPI00419424	0.9946	34/ 64	GLSSPVTK.S K.DSTYLSSTLTLK.A	3	1877.292
IPI00419424	0.9998	20/ 26	K.VYAC[160.14]EVTHQ GLSSPVTK.S	2	1502.592
IPI00419424	0.9978	21/ 32	GLSSPVTK.S K.VYAC[160.14]EVTHQ	2	1876.992
IPI00419424	0.9961	25/ 64	GLSSPVTK.S A.C[160.14]EVTHQGLS	3	1877.292
IPI00419424	1	21/ 26	SPVTK.S K.VYAC[160.14]EVTHQ	2	1542.192
IPI00419424	1	17/ 32	GLSSPVTK.S V.YAC[160.14]EVTHQG	1	1875.292
IPI00419424	1	22/ 30	LSSPVTK.S K.VYAC[160.14]EVTHQ	2	1777.492
IPI00419424	0.9922	29/ 64	GLSSPVTK.S K.VYAC[160.14]EVTHQ	3	1877.392
IPI00419424	0.9997	33/ 64	GLSSPVTK.S	3	1877.292

IPI00419424	0.9996	18/ 32	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	2	1877.592
IPI00419424	0.9996	21/ 30	K.VYAC[160.14]EVTHQ GLSSPVT.K	2	1750.092
IPI00419424	0.9944	19/ 30	K.VYAC[160.14]EVTHQ GLSSPVT.K	2	1746.892
IPI00419424	0.9767	19/ 24	D.STYLSSTLTLSK.A	2	1388.392
IPI00419424	0.9999	20/ 26	K.DSTYLSSTLTLSK.A	2	1502.892
IPI00419424	0.9999	19/ 26	K.DSTYLSSTLTLSK.A	2	1503.492
IPI00419424	0.9997	17/ 26	K.DSTYLSSTLTLSK.A	2	1502.192
IPI00419424	0.913	16/ 26	K.DSTYLSSTLTLSK.A	2	1504.592
IPI00419424	0.9067	24/ 28	Y.AC[160.14]EVTHQGL SSPVT.K.S	2	1613.992
IPI00419424	0.995	19/ 64	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	3	1877.092
IPI00419424	0.998	22/ 28	Y.AC[160.14]EVTHQGL SSPVT.K.S	2	1613.192
IPI00419424		1 23/ 32	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	2	1875.792
IPI00419424	0.9991	20/ 26	K.DSTYLSSTLTLSK.A	2	1503.792
IPI00419424	0.9997	18/ 26	K.DSTYLSSTLTLSK.A	2	1502.692
IPI00419424	0.9999	29/ 64	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	3	1877.192
IPI00419424		1 21/ 26	A.C[160.14]EVTHQGLS SPVT.K.S	2	1542.792
IPI00419424	0.9901	23/ 28	Y.AC[160.14]EVTHQGL SSPVT.K.S	2	1614.992
IPI00419424	0.9976	23/ 30	V.YAC[160.14]EVTHQG LSSPVT.K.S	2	1777.592
IPI00419424	0.9857	23/ 32	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	2	1876.692
IPI00419424	0.9996	25/ 60	V.YAC[160.14]EVTHQG LSSPVT.K.S	3	1778.092
IPI00419424	0.998	23/ 30	V.YAC[160.14]EVTHQG LSSPVT.K.S	2	1777.692
IPI00419424	0.9254	23/ 28	Y.AC[160.14]EVTHQGL SSPVT.K.S	2	1613.692
IPI00419424	0.9997	21/ 26	A.C[160.14]EVTHQGLS SPVT.K.S	2	1542.592
IPI00419424	0.9836	19/ 26	K.DSTYLSSTLTLSK.A	2	1503.792
IPI00419424	0.9945	20/ 26	K.DSTYLSSTLTLSK.A	2	1503.992
IPI00419424	0.9972	20/ 26	K.DSTYLSSTLTLSK.A	2	1503.492
IPI00419424	0.9998	18/ 26	K.DSTYLSSTLTLSK.A	2	1503.592
IPI00419424	0.9999	23/ 30	V.YAC[160.14]EVTHQG LSSPVT.K.S	2	1776.592
IPI00419424	0.9981	22/ 32	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	2	1875.792
IPI00419424	0.9995	22/ 32	K.VYAC[160.14]EVTHQ GLSSPVT.K.S	2	1879.092

IPI00419424	0.9032	23/ 28	Y.AC[160.14]EVTHQGL SSPVTK.S	2	1613.592
IPI00419424	0.9992	21/ 26	A.C[160.14]EVTHQGLS SPVTK.S	2	1542.992
IPI00419424	0.9985	24/ 64	K.VYAC[160.14]EVTHQ GLSSPVTK.S	3	1877.892
IPI00419424	1	16/ 32	K.VYAC[160.14]EVTHQ GLSSPVTK.S	1	1876.092
IPI00419424	0.9898	32/ 64	K.VYAC[160.14]EVTHQ GLSSPVTK.S	3	1877.192
IPI00419424	0.9915	23/ 28	Y.AC[160.14]EVTHQGL SSPVTK.S	2	1614.692
IPI00419424	0.999	23/ 30	V.YAC[160.14]EVTHQG LSSPVTK.S	2	1777.492
IPI00419424	0.9921	21/ 30	K.VYAC[160.14]EVTHQ GLSSPVT.K	2	1748.492
IPI00419424	0.998	20/ 26	K.DSTYLSSTLTLSK.A	2	1502.392
IPI00419424	0.9875	15/ 26	K.DSTYLSSTLTLSK.A	2	1502.192
IPI00419424	0.9998	17/ 26	K.DSTYLSSTLTLSK.A	2	1503.092
IPI00431645	0.9815	16/ 22	K.SC[160.14]JVAEYGV YVK.V	1	1344.692
IPI00431645	0.9907	20/ 22	K.SC[160.14]JVAEYGV YVK.V	2	1345.792
IPI00431645	0.9996	18/ 22	K.SC[160.14]JVAEYGV YVK.V	2	1346.692
IPI00431645	0.9997	16/ 18	K.VTSIQDWVQK.T	2	1203.092
IPI00431645	0.9763	21/ 26	K.SPVGVQPILNEHTF.C	2	1537.492
IPI00431645	0.9991	17/ 22	K.DIAPTLTLYVGK.K K.SC[160.14]JVAEYGV	2	1290.592
IPI00431645	0.9976	19/ 22	YVK.V	2	1345.092
IPI00431645	0.9991	15/ 18	K.VTSIQDWVQK.T	2	1203.292
IPI00431645	0.9909	19/ 22	K.DIAPTLTLYVGK.K K.YVM[147.19]LPVADQ	2	1290.692
IPI00431645	0.9978	22/ 26	DQC[160.14]IR.H K.SPVGVQPILNEHTFC[1 60.14]AGM[147.19]SK.	2	1723.892
IPI00431645	0.9999	31/ 76	Y	3	2189.492
IPI00431645	0.9445	13/ 18	W.YATGILSFDK.S K.VVLHPNYSQVDIGLIK.	2	1115.292
IPI00431645	0.9939	27/ 60	L K.SPVGVQPILNEHTFC[1 60.14]AGM[147.19]SK.	3	1796.192
IPI00431645	0.9999	31/ 76	Y	3	2188.392
IPI00431656	1	26/ 34	R.LYGSEAFATDFQDSAA AK.K	2	1891.592
IPI00431656	1	24/ 34	R.LYGSEAFATDFQDSAA AK.K	2	1891.792
IPI00437751	0.9929	14/ 20	R.TLGSANLPLAK.R	2	1084.192

IPI00465170	0.9707	14/ 26	K.MFLITNSPSSFVDK.G	2	1587.292
IPI00465248	0.9996	15/ 24	R.GNPTVEVDLFTSK.G	2	1406.192
IPI00465436	0.9996	32/ 72	R.GPLLQDVVFTDEM[1 47.19]AHFDR.E	3	2205.592
IPI00465436	0.9953	33/ 72	R.GPLLQDVVFTDEMAH FDR.E	3	2190.192
IPI00465436	0.9968	18/ 26	R.LGPNYLHIPVNC[160. 14]PY.R	2	1657.792
IPI00472787	0.9591	17/ 40	F.SDGLAHLNLK.G	3	1183.492
IPI00472787	0.9891	19/ 20	K.VLGAFSDGLAH.L	2	1085.792
IPI00472787	0.9936	27/ 64	K.KVLGAFSDGLAHLNL K.G	3	1798.292
IPI00472787	0.9999	32/ 64	K.KVLGAFSDGLAHLNL K.G	3	1798.692
IPI00472787	0.9957	23/ 30	K.VLGAFSDGLAHLNLK .G	2	1670.692
IPI00472787	0.9976	22/ 26	K.VLGAFSDGLAHLNL.L	2	1428.692
IPI00472787	0.9995	27/ 64	K.KVLGAFSDGLAHLNL K.G	3	1798.092
IPI00472787	0.9954	18/ 26	L.GAFSDGLAHLNLK.G	2	1457.292
IPI00472787	0.9898	25/ 60	K.VLGAFSDGLAHLNLK .G	3	1669.492
IPI00472787	0.9986	24/ 30	K.VLGAFSDGLAHLNLK .G	2	1669.392
IPI00472787	0.9986	21/ 24	K.VLGAFSDGLAHLN	2	1314.592
IPI00472787	0.9999	21/ 26	L.GAFSDGLAHLNLK.G	2	1457.492
IPI00472787	0.9999	23/ 28	V.LGAFSDGLAHLNLK. G	2	1570.392
IPI00472787	0.9879	23/ 30	K.VLGAFSDGLAHLNLK .G	2	1670.392
IPI00472787	0.9159	29/ 60	K.VLGAFSDGLAHLNLK .G	3	1670.692
IPI00472787	1	23/ 28	K.VLGAFSDGLAHLNL. K	2	1542.492
IPI00472787	0.9906	30/ 92	P.KVKAHGKKVLGAFSDG LAHLNLK.G	3	2548.192
IPI00472787	0.9963	20/ 28	K.VLGAFSDGLAHLNL. K	2	1542.092
IPI00472787	0.997	21/ 32	K.LHVDPENFR.L	3	1126.992
IPI00472787	0.9127	13/ 16	K.LHVDPENFR.L	2	1126.992
IPI00472787	0.9894	21/ 32	K.LHVDPENFR.L	3	1125.892
IPI00472787	0.9242	12/ 16	K.LHVDPENFR.L	2	1126.392
IPI00472787	0.9976	13/ 16	K.LHVDPENFR.L	2	1126.392
IPI00472787	1	23/ 36	R.FFESFGDLSSPDAVM[ 147.19]GNPK.V	2	2060.392



IPI00472787	0.9999	23/ 36	R.FFESFGDLSSPDAVM[ 147.19]GNPK.V	2	2063.792
IPI00472787	0.9999	37/ 72	R.FFESFGDLSSPDAVM[ 147.19]GNPK.V	3	2060.992
IPI00472787	0.9641	17/ 32	R.FFESFGDLSSPDAVM[ 147.19]GN.P	2	1837.092
IPI00472787	0.9998	22/ 36	R.FFESFGDLSSPDAVM[ 147.19]GNPK.V	2	2060.492
IPI00473011	0.9296	18/ 22	K.EFTPQM[147.19]QAA YQK.V	2	1457.192
IPI00473011	0.9156	14/ 16	T.PQM[147.19]QAAYQK .V	2	1079.792
IPI00473011	0.9607	18/ 22	K.EFTPQM[147.19]QAA YQK.V	2	1460.192
IPI00473011	0.9999	26/ 60	R.NFGKEFTPQM[147.19] ]QAAYQK.V	3	1903.692
IPI00473011	0.9969	17/ 22	K.EFTPQMQAAYQK.V	2	1441.292
IPI00473011	0.9994	19/ 22	K.VVAGVANALAHK.Y	2	1150.292
IPI00473011	0.9932	19/ 22	K.VVAGVANALAHK.Y	2	1148.892
IPI00473011	0.9948	18/ 20	V.VAGVANALAHK.Y	2	1051.092
IPI00473011	0.9801	15/ 18	V.AGVANALAHK.Y	2	951.692
IPI00473011	0.9995	20/ 22	K.VVAGVANALAHK.Y	2	1150.692
IPI00473011	0.9172	16/ 22	V.AGVANALAHKYH.-	2	1251.492
IPI00473011	0.9996	19/ 22	K.VVAGVANALAHK.Y	2	1150.692
IPI00473011	0.9987	17/ 22	K.VVAGVANALAHK.Y	2	1148.192
IPI00477090	0.9547	14/ 24	K.NVPLPVIAELPPK.V	2	1387.592
IPI00477090	0.9651	19/ 24	K.NVPLPVIAELPPK.V	2	1387.892
IPI00478003	0.999	21/ 28	K.AAQVTIQSSGTFSSK.F	2	1513.092
IPI00478003	0.9985	14/ 16	K.FEVQVTPK.I K.VTGEGC[160.14]VYL	2	1046.092
IPI00478003	0.9883	21/ 26	QTSLK.Y	2	1553.992
IPI00478003	0.9654	12/ 18	K.GHFSISIPVK.S K.QQNAQGGFSSTQDTV	2	1084.092
IPI00478003	0.9921	27/ 88	VALHALSK.Y K.SSSNEEVM[147.19]F	3	2388.292
IPI00478003	0.9994	21/ 28	LTVQVK.G	2	1712.892
IPI00478003	0.9933	13/ 18	R.QGIPFGQVR.L R.LLIYAVLPTGDVIGDSA	2	1148.792
IPI00478003	0.9669	26/ 34	K.Y	2	1845.592
IPI00478003	0.9973	27/ 52	R.TEHPFTVEEFVLPK.F	3	1673.892
IPI00478003	0.9934	16/ 26	R.TEHPFTVEEFVLPK.F R.VSVQLEASPAFLAVPV	2	1672.992
IPI00478003	0.9999	23/ 34	EK.E R.LLLQQVSLPELPGEYS	2	1883.892
IPI00478003	0.9291	24/ 68	M[147.19]K.V R.LLLQQVSLPELPGEYS	3	2063.292
IPI00478003	0.9997	20/ 34	M[147.19]K.V	2	2060.892

IPI00478003	0.9993	20/ 26	K.VTGEGC[160.14]VYL QTSLK.Y	2	1555.392
IPI00478003	0.9986	14/ 16	K.FEVQVTPVK.I	2	1046.992
IPI00478003	0.9064	10/ 18	K.GHFSISIPVK.S	2	1084.292
IPI00478003	0.9999	29/ 88	K.QQNAQGGFSSTQDTV VALHALSK.Y	3	2388.392
IPI00478003	0.9997	22/ 28	K.SSSNEEVM[147.19]F LTVQVK.G	2	1713.592
IPI00478003	0.9655	15/ 18	R.QGIPFFGQVR.L	2	1149.492
IPI00478003	0.9971	30/ 52	R.TEHPFTVEEFVLPK.F	3	1674.892
IPI00478003	0.9986	22/ 34	R.VSVQLEASPAFLAVPV EK.E	2	1884.792
IPI00478003	0.9994	16/ 18	K.LSFYYLIM[147.19]AK .G	2	1264.692
IPI00478003	0.9999	20/ 34	R.LLLQQVSLPELPGEYS M[147.19]K.V	2	2060.892
IPI00478003	1	25/ 34	R.LLIYAVLPTGDVIGDSA K.Y	2	1845.792
IPI00478003	0.9696	22/ 38	R.AYIFIDEAHITQALIWL SQR.Q	2	2389.692
IPI00478003	0.9669	14/ 16	K.FEVQVTPVK.I	2	1046.292
IPI00478003	0.9992	22/ 34	R.VSVQLEASPAFLAVPV EK.E	2	1883.792
IPI00478003	0.9988	24/ 34	R.LLIYAVLPTGDVIGDSA K.Y	2	1845.192
IPI00478916	0.9837	25/ 88	K.RS[167.08]DHLINTES EAVNLSKVKVFTK.S	3	2696.092
IPI00479186	0.9999	26/ 42	R.LAPITSDPTEATAVGAV EASFK.C	2	2174.992
IPI00479186	0.9999	30/ 42	R.LAPITSDPTEATAVGAV EASFK.C	2	2176.092
IPI00479186	1	35/ 84	R.LAPITSDPTEATAVGAV EASFK.C	3	2175.592
IPI00479708	0.9984	19/ 30	K.LSSVNAADTAVYYC[16 0.14]AR.V	2	1761.592
IPI00479708	0.9976	19/ 30	K.LSSVNAADTAVYYC[16 0.14]AR.V	2	1761.592
IPI00479877	0.998	16/ 18	K.IGDPLLEDTR.M	2	1127.392
IPI00514949	0.9287	14/ 20	R.LVLVAAWNNYR.T	2	1319.392
IPI00550640	0.9924	37/104	K.YGPPC[160.14]PSC[1 60.14]PAPEFLGGPSVFL FPPKPK.D	3	2944.492
IPI00550640	0.9999	20/ 32	K.TTppvLSDGSFFLYSR .L	2	1901.892
IPI00550640	0.9993	40/104	K.YGPPC[160.14]PSC[1 60.14]PAPEFLGGPSVFL FPPKPK.D	3	2945.092

IPI00550640	0.9998	42/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2945.692
IPI00550640	0.9998	23/ 32	K.TTPPVLDSDGSFFLYSR .L	2	1901.592
IPI00550640	0.9999	39/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2943.392
IPI00550640	1	40/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2944.792
IPI00550640	0.9947	41/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2945.292
IPI00550640	1	23/ 32	K.TTPPVLDSDGSFFLYSR .L	2	1902.092
IPI00550640	0.9998	37/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2944.392
IPI00550640	0.9293	24/ 96	G.PPC[160.14]PSC[160.14]PAPEFLGGPSVFLFP PKPK.D	3	2725.392
IPI00550640	1	41/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2945.192
IPI00550640	0.9975	38/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2944.292
IPI00550640	0.9118	41/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2945.092
IPI00550640	0.9966	33/104	K.YGPPC[160.14]PSC[160.14]PAPEFLGGPSVFL FPPKPK.D	3	2943.592
IPI00550991	0.9994	16/ 18	R.NLAVSQVVHK.A	2	1093.792
IPI00550991	0.9973	17/ 18	K.ADLSGITGAR.N	2	961.492
IPI00550991	0.9522	13/ 16	R.EIGELYLPK.F	2	1061.792
IPI00550991	1	27/ 36	K.AVLDFEEGTEASAAT AVK.I	2	1908.992
IPI00550991	0.9998	28/ 38	R.DYNLNDILLQLGIEEAF TSK.A	2	2295.792
IPI00550991	0.9999	40/ 76	R.DYNLNDILLQLGIEEAF TSK.A	3	2297.492
IPI00550991	0.9994	16/ 18	R.NLAVSQVVHK.A	2	1094.092
IPI00550991	0.9999	26/ 36	K.AVLDFEEGTEASAAT AVK.I	2	1907.392
IPI00550991	0.9996	15/ 18	R.NLAVSQVVHK.A	2	1095.292
IPI00550991	0.9999	17/ 18	K.ADLSGITGAR.N	2	961.392

IPI00550991	0.9994	26/ 36	K.AVLDFVEEGTEASAAT AVK.I	2	1907.992
IPI00553177	0.9995	36/108	H.DEILEGLNFNLTETIPEA QIHEGFQELLR.T	3	3268.992
IPI00553177	0.998	43/124	K.ADTHDEILEGLNFNLTETIPEA QIHEGFQELLR.T	3	3694.092
IPI00553177	0.9996	48/124	K.ADTHDEILEGLNFNLTETIPEA QIHEGFQELLR.T	3	3693.292
IPI00553177	0.9313	47/124	K.ADTHDEILEGLNFNLTETIPEA QIHEGFQELLR.T	3	3695.292
IPI00553177	0.9996	37/108	H.DEILEGLNFNLTETIPEA QIHEGFQELLR.T	3	3269.692
IPI00553177	0.9997	50/124	K.ADTHDEILEGLNFNLTETIPEA QIHEGFQELLR.T	3	3692.992
IPI00553177	0.9996	26/ 48	Q.HLENELTHDIITK.F	3	1564.292
IPI00553177	0.9987	18/ 30	K.YLGNATAIFFLPDEGK. L	2	1757.192
IPI00553177	0.9947	13/ 16	K.LSSWVLLM[147.19]K .Y	2	1092.692
IPI00553177	0.9986	13/ 16	K.LSSWVLLM[147.19]K .Y	2	1092.892
IPI00553215	0.9998	18/ 24	R.VSWYQQPPGTAPK.L	2	1458.992
IPI00555812		1 28/ 38	K.SYLSM[147.19]VGSC [160.14]C[160.14]TSA SPTVC[160.14]FL.K	2	2243.592
IPI00555812	0.9358	30/112	K.TAM[147.19]DVFVC[ 160.14]TYFM[147.19]P AAQLPELPDVELPTNK.D	3	3333.692
IPI00555812	0.9997	26/ 40	K.VPTADLEDVLPLAEDIT NILS.K	2	2238.792
IPI00642790	0.9761	30/ 60	K.GIIAHATPQC[160.14] QINQVK.F	3	1777.692
IPI00643920	0.9992	20/ 26	R.TVPFC[160.14]STFAA FFTR.A	2	1651.792
IPI00646304	0.9997	20/ 24	K.TVDNFVALATGEK.G	2	1364.692
IPI00654755	0.9741	15/ 22	K.EFTPPVQAAYQK.V	1	1377.692
IPI00654755	0.9792	15/ 18	F.TPPVQAAYQK.V	2	1102.192
IPI00654755	0.9447	21/ 44	K.EFTPPVQAAYQK.V	3	1378.592
IPI00654755		1 13/ 22	K.EFTPPVQAAYQK.V	1	1379.592
IPI00654755	0.9974	18/ 22	K.EFTPPVQAAYQK.V	2	1379.092
IPI00654755	0.9531	16/ 22	K.EFTPPVQAAYQK.V	2	1381.192
IPI00654755	0.9566	18/ 22	K.EFTPPVQAAYQK.V	2	1377.792

IPI00654755	0.9895	15/ 16	T.PPVQAAYQK.V	2	1001.192
IPI00654755	0.974	14/ 18	K.EFTPPVQAAY.Q	2	1122.092
IPI00654755	0.913	18/ 22	K.EFTPPVQAAYQK.V	2	1379.292
IPI00654755	0.9982	16/ 18	K.GTFATLSELH.C	2	1074.892
			F.GDLSTPDAVM[147.19		
IPI00654755	0.9846	19/ 26	]GNPK.V	2	1418.192
IPI00654755	0.9989	18/ 20	N.VDEVGGEALGR.L	2	1101.392
			G.DLSTPDAVM[147.19]		
IPI00654755	0.9959	17/ 24	GNPK.V	2	1360.792
IPI00654755	0.9908	18/ 24	K.VNVDEVGGEALGR.L	2	1317.192
IPI00654755	0.999	19/ 24	K.VNVDEVGGEALGR.L	2	1313.692
IPI00654755	0.9978	18/ 24	K.VNVDEVGGEALGR.L	2	1314.092
IPI00654755	0.992	15/ 24	K.VNVDEVGGEALGR.L	1	1313.592
IPI00654755	0.9983	27/ 48	K.VNVDEVGGEALGR.L	3	1314.592
IPI00654755	0.9576	16/ 22	V.NVDEVGGEALGR.L	2	1215.092
IPI00654755	1	16/ 24	K.VNVDEVGGEALGR.L	1	1315.692
			E.SFGDLSTPDAVM[147.		
IPI00654755	0.9987	21/ 30	19]GNPK.V	2	1651.192
			F.ESFGDLSTPDAVM[147		
IPI00654755	1	19/ 32	.19]GNPK.V	2	1780.492
			F.FESFGDLSTPDAVM[14		
IPI00654755	0.9994	24/ 34	7.19]GNPK.V	2	1927.392
			R.FFESFGDLSTPDAVM[		
IPI00654755	1	24/ 36	147.19]GNPK.V	2	2074.992
			R.FFES[167.08]FGDLST		
IPI00654755	0.9936	17/ 36	PDAVM[147.19]GNPK.V	2	2157.692
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9453	37/ 72	147.19]GNPK.V	3	2076.192
			R.FFESFGDLSTPDAVM[		
IPI00654755	1	23/ 36	147.19]GNPK.V	2	2074.392
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9989	24/ 36	147.19]GNPK.V	2	2075.692
			R.FFESFGDLSTPDAVMG		
IPI00654755	0.9903	17/ 36	NPK.V	2	2061.192
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9542	24/ 32	147.19]GN.P	2	1849.492
IPI00654755	0.9895	18/ 22	R.FFESFGDLSTPD.A	2	1362.192
			R.FFESFGDLSTPDAVMG		
IPI00654755	1	25/ 36	NPK.V	2	2058.692
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9997	22/ 36	147.19]GNPK.V	2	2075.092
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9953	23/ 32	147.19]GN.P	2	1849.292
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9999	33/ 72	147.19]GNPK.V	3	2075.292
			R.FFESFGDLSTPDAVM[		
IPI00654755	0.9999	20/ 36	147.19]GNPK.V	2	2074.592

IPI00654755	0.9993	40/ 72	R.FFESFGDLSTPDAVM[ 147.19]GNPK.V	3	2074.592
IPI00654755		1 24/ 32	R.FFESFGDLSTPDAVM[ 147.19]GN.P	2	1850.392
IPI00654755	0.9882	18/ 22	R.FFESFGDLSTPD.A	2	1361.492
IPI00654755	0.9878	18/ 36	R.FFESFGDLSTPDAVM[ 147.19]GNPK.V	2	2074.492
IPI00654755	0.9908	20/ 28	S.FGDLSTPDAVM[147.1 9]GNPK.V	2	1564.592
IPI00654755		1 18/ 32	F.ESFGDLSTPDAVM[147 .19]GNPK.V	2	1780.692
IPI00654755	0.9987	22/ 34	F.FESFGDLSTPDAVM[14 7.19]GNPK.V	2	1927.892
IPI00654755	0.9986	24/ 36	R.FFESFGDLSTPDAVM[ 147.19]GNPK.V	2	2075.092
IPI00654755	0.9951	22/ 24	R.LLGNVLC[160.14]VL AHH.F	2	1444.992
IPI00654755	0.937	20/ 22	R.LLGNVLC[160.14]VL AH.H	2	1307.292
IPI00654755	0.9915	20/ 24	R.LLGNVLC[160.14]VL AHH.F	2	1445.092
IPI00735973	0.9714	8/ 12	R.GAPGAHR.D	1	663.592
IPI00736860	0.9548	22/ 32	K.TTPPM[147.19]LDSN GSFFLYSK.L	2	1921.692
IPI00736860	0.954	21/ 32	K.TTPPM[147.19]LDSN GSFFLYSK.L	2	1921.292
IPI00736860	0.9756	22/ 32	K.TTPPM[147.19]LDSN GSFFLYSK.L	2	1921.592
IPI00736860	0.9973	19/ 32	K.TTPMLDSNGSFFLYS K.L	2	1905.892
IPI00736860	0.9741	20/ 32	K.TTPMLDSNGSFFLYS K.L	2	1905.492
IPI00736872	0.9999	23/ 34	K.GEADAM[147.19]SLD GGYVYTAGK.C	2	1820.592
IPI00736872	0.9994	24/ 34	K.GEADAM[147.19]SLD GGYVYTAGK.C	2	1821.492
			-		
IPI00736885	0.9826	42/ 92	.DIVM[147.19]TQSPLSL PVTPGEPASISC[160.14 ]R.S	3	2572.292
IPI00739675	0.9982	30/ 36	C.EVQLVESGGGLVQPG GSLK.L	2	1853.492
IPI00743194	0.9973	29/ 92	A.DIVM[147.19]TQTPL SLSVTPGQPASISC[160. 14]K.S	3	2547.192
IPI00747115	0.9517	16/ 22	K.VXAGXANALAHK.Y	2	1178.392
IPI00784830	0.9947	25/ 36	C.EAQVVES[167.08]GG GLVQPGSLR.L	2	1922.292

**Suppl. Doc 3: Proteins with Protein Prophet scores greater than 0.9 identified from EPS but only have single peptide hit.**

protein by representative IPI number	protein probability	percent coverage	num unique peps	tot num peps	percent share of spectrum id's	peptide sequence*	Peptide ProPhet probability	ions	precursor charge	precursor neutral mass
IPI00060800	0.98	5.2	1	1	0.04	R.VSVGLLLVK.S	0.9982	14/ 16	2	926.992
IPI00009030	0.96	2	1	2	0.07	R.IPLNDLFR.C	0.9958	13/ 14	2	987.392
IPI00220993	0.92	2.2	1	1	0.03	R.AIFTGYGK.G	0.9907	14/ 16	2	1019.592
IPI00179185	0.99	1.6	1	1	0.04	R.LLGC[160.14]AVLAPR.C	0.9998	17/ 18	2	1069.592
IPI00031121	0.95	1.7	1	1	0.03	R.SNAQGIDLNR.N	0.9946	15/ 18	2	1087.992
IPI00479877	0.98	1.9	1	1	0.04	K.IGDPLLEDTR.M	0.998	16/ 18	2	1127.392
IPI00419237	0.99	2.3	1	1	0.04	K.GITFDSGGISIK.A	0.9994	20/ 22	2	1194.492
IPI00029863	0.97	2.2	1	2	0.06	R.LC[160.14]QDLGPGAFR.L	0.9978	18/ 20	2	1233.492
IPI00013890	0.99	8.8	1	1	0.04	R.SAYQEAM[147.19]DISK.K	0.9987	15/ 20	2	1259.392
IPI00220766	0.97	5.5	1	1	0.04	K.DFLLQQTM[147.19]LR.V	0.9975	14/ 18	2	1281.092
IPI00025318	0.99	11.4	1	1	0.04	R.VYIASSGSGTAIK.K	0.9997	20/ 24	2	1284.792
IPI00027806	0.98	2.2	1	2	0.07	K.AVYLVLC[160.14]NYSK.G	0.9847	14/ 20	2	1313.692
IPI00021828	0.99	12.2	1	2	0.07	K.SQVVAGTNYFIK.V	0.9927	19/ 22	2	1326.192
IPI00219757	0.97	21.2	1	2	0.07	-.PPYTVVYFPVR.G	0.9979	16/ 20	2	1338.592
IPI00018314	0.94	2.7	1	1	0.03	R.FDNTYSFIHAK.K	0.9937	24/ 40	3	1343.892
IPI00025427	0.99	7.5	1	2	0.07	R.YPVVVPVHLDTTI.-	0.9998	19/ 22	2	1354.992
IPI00646304	0.99	17.1	1	1	0.04	K.TVDNFVALATGEK.G	0.9997	20/ 24	2	1364.692
IPI00295741	0.98	3.8	1	2	0.07	R.LC[160.14]GTFLGGPKPPQ.R	0.9856	19/ 24	2	1371.792

IPI00016150	0.98	3.2	1	1	0.04	R.QEVPLATLEPLVK.A	0.9991	20/ 24	2	1437.792
IPI00027509	0.99	2.1	1	1	0.04	K.LGLGADVAQVTGALR.S	1	22/ 28	2	1440.992
IPI00553215	0.99	13.1	1	2	0.05	R.VSWYQPPGTAPK.L	0.9998	18/ 24	2	1458.992
IPI00023151	0.95	1.8	1	1	0.03	R.LIQVDLNNPIAVR.M	0.9947	18/ 24	2	1465.992
IPI00168479	0.99	4.9	1	1	0.04	K.LFGYEPTIYYPK.R	0.9996	14/ 22	2	1490.792
IPI00186308	0.93	2.1	1	1	0.03	R.AQLIQMS[167.08]WTALR.A	0.9916	13/ 22	2	1498.692
IPI00414896	0.95	5.1	1	1	0.03	R.VC[160.14]EDGPVFPYPPK.K	0.9941	16/ 24	2	1504.092
IPI00019275	0.96	5.7	1	2	0.05	R.VVLGANGTYSC[160.14]LVR.N	0.9964	16/ 26	2	1509.492
IPI00027350	0.94	18.2	1	1	0.04	K.EGGLGPLNIPLADVT.R	0.9278	21/ 30	2	1578.592
IPI00012315	0.99	10.1	1	1	0.04	R.ALIGATNPADAPPGTIR.G	1	22/ 32	2	1634.592
IPI00643920	0.99	3.9	1	1	0.04	R.TVPFC[160.14]STFAAFFTR.A	0.9992	20/ 26	2	1651.792
IPI00298971	0.99	3.1	1	2	0.07	R.SIAQYWLG[C160.14]PAPGHL-	0.999	18/ 28	2	1669.792
IPI00178767	0.99	3.8	1	1	0.04	K.GSPVNSLFFVAPVTPVK.S	1	24/ 32	2	1682.792
IPI00218736	0.97	17.4	1	1	0	K.DTTTPIQSM[147.19]M[147.19]C[160.14]QYL.	0.98	17/ 26	2	1720.492
IPI00246058	0.99	1.8	1	1	0.04	R.SVIEQGGIQTVDQLIK.E	1	23/ 30	2	1727.692
IPI00179291	0.99	8.3	1	1	0.04	R.GSLTFEPLTLVPIQTK.M	1	22/ 30	2	1743.792
IPI00029236	0.98	5.9	1	2	0.07	K.ALSM[147.19]C[160.14]PPSPLGC[160.14]ELV	0.9986	20/ 30	2	1776.392
IPI00073772	0.99	5	1	1	0.04	R.GTGELTQLLNSLC[160.14]TAVK.A	0.9999	15/ 32	2	1804.692
IPI00027497	0.97	3.1	1	1	0.04	K.TLAQLNPESLFIASK.T	0.9972	23/ 32	2	1831.792
IPI00026197	0.98	14.9	1	1	0.04	G.DIVM[147.19]TQSPDSLAVSLGER.A	0.9996	27/ 34	2	1934.792



IPI00216057	0.98	4.8	1	1	0.04	R.LENYPIPEPGPNEVLLR.M	0.9989	16/ 32	2	1950.992
IPI00296922	0.95	0.9	1	3	0.1	R.YLIFPNPVC[160.14]LEPGISYK.L	0.9843	27/ 32	2	2009.892
IPI00300562	1	13.7	1	3	0.18	R.YADDTFTPAFVSTVGIDFK.V	0.9999	23/ 36	2	2094.992
IPI00299699	0.97	7.1	1	1	0.04	R.NPLFDHAALSAPLPAPSSPPALP.-	0.9976	30/ 88	3	2281.092
IPI00743194	0.97	21.2	1	1	0.04	A.DIVM[147.19]TQTPLSLSVTPGQPASISC[160.14]	0.9973	29/ 92	3	2547.192
IPI00022231	0.99	26.2	1	1	0.04	R.HFNPVC[160.14]GSMD[147.19]STYANEC[160.14]	0.9993	38/ 84	3	2655.892
IPI00006114	0.96	6.9	1	1	0.03	R.SSM[147.19]SPTTNVLLSPLSVATALSALSLGAEQ	0.9955	28/112	3	2862.292
IPI00010796	0.98	5.9	1	3	0.1	R.TGPAATLLPDGAAAESLVESSEVAVIGFFK.D	0.9911	33/116	3	2937.392
IPI00013382	0.95	12.1	1	1	0.03	Q.PNLDTCC[160.14]AFHEQPPELQKK.Q	0.9944	24/ 64	3	2054.792
IPI00003935	0.99	12	1	1	0.04	K.AM[147.19]GIM[147.19]NSFVNDIFER.I	0.9998	21/ 28	2	1775.592
IPI00009650	0.97	6.2	1	2	0.06	R.GLSTESILIPR.Q	0.9302	15/ 20	2	1185.092
IPI00021263	0.9	9	1	1	0.04	K.SVTEQGAELSNEER.N	0.9809	21/ 26	2	1548.492
IPI00215914	0.99	6.1	1	1	0.04	R.ILM[147.19]VGLDAAGK.T	0.9993	18/ 20	2	1103.992
IPI00002818	0.98	4.4	1	2	0.05	R.LLC[160.14]GATLIAPR.W	0.999	18/ 20	2	1185.892
IPI00010896	0.93	6.4	1	1	0.03	K.GVTFNVTTVDTK.R	0.9924	15/ 22	2	1281.292
IPI00289831	0.99	0.9	1	2	0.07	R.SPQGLGAFTPVVR.Q	0.9999	20/ 24	2	1328.692
IPI00029658	0.99	4.7	1	1	0.04	R.SVPSDIFQIQATTIYANTINTFR.I	0.9998	28/ 88	3	2600.892
IPI00017367	1	7.1	1	1	0.04	K.APDFVYAPR.L	0.9993	16/ 18	2	1183.892
IPI00291866	0.99	5.1	1	2	0.07	K.GVTSVSQIFHSPDLAIR.D	0.9889	25/ 64	3	1828.392
IPI00215997	0.98	6.3	1	1	0.04	K.KDVLETFTVK.S	0.9989	14/ 18	2	1179.592

IPI00000041	0.91	4.7	1	2	0.04	K.TC[160.14]LLIVFSK.D	0.9896	14/ 16	2	1080.992
IPI00033583	0.99	4	1	1	0.04	R.ADLTGISPSPNLYLSK.I	0.9999	18/ 30	2	1675.792
IPI00027255	0.99	8.7	1	1	0.04	R.ALGQNPTNAEVLK.V	0.9997	16/ 24	2	1354.292
IPI00259102	0.96	4.9	1	1	0.03	R.ALLSYDGLNQR.V	0.9954	16/ 20	2	1249.592
IPI00291136	0.94	2	1	1	0.03	R.DTTPLNVLC[160.14]SPGIQVVSVGIK.D	0.9934	28/ 80	3	2198.892
IPI00022204	0.99	3	1	3	0.11	R.GLVLSGVLHK.A	0.9997	15/ 18	2	1022.192
IPI00296286	0.99	6.9	1	1	0.04	R.IGDTVTC[160.14]VC[160.14]QFK.C	0.9996	17/ 22	2	1427.692
IPI00007058	0.91	4.5	1	1	0.03	R.VTWDSTFC[160.14]AVNPK.F	0.9895	17/ 24	2	1524.692
IPI00012011	0.96	6.7	1	1	0.04	R.YALYDATYETK.E	0.9965	15/ 20	2	1337.792
IPI00024175	0.93	7.5	1	1	0.03	R.LYQTDPSGTYHAWK.A	0.9926	22/ 52	3	1667.992
IPI00028514	0.99	2.5	1	2	0.07	K.GVILYSDPADYFAPGVK.S	0.9998	20/ 32	2	1811.692
IPI00154742	0.98	26.5	1	1	0.18	K.YAASSYLSLTPEQWK.S	0.9993	23/ 28	2	1743.792

\*the amino acid residues before and after the dot indicate the amino acids N- and C-terminal to that peptide's sequence

**Suppl. Doc 4: Prostate proteins with Protein Prophet Scores greater than 0.9 and have more than two unique peptide hits**

protein	protein probability	percent coverage	num unique peps	tot num peps	percent share of spectrum id's	description
IPI00025415	1	51.7	46	195	7.08	Semenogelin-2 precursor
IPI00023020,IP						Isoform 1 of Semenogelin-1 precursor,Isoform 2 of
I00414684	1	56.7	39	184	6.7	Semenogelin-1 precursor
IPI00221224	1	34.6	31	178	8.11	Aminopeptidase N
IPI00290396	1	49.3	26	87	3.96	Protein-glutamine gamma-glutamyltransferase 4
IPI00247063	1	29.9	17	45	2.14	Neprilysin
IPI00022977	1	46.7	17	118	5.28	Creatine kinase B-type
IPI00220301	1	62.8	15	51	2.23	Peroxiredoxin-6
IPI00299024	1	72.6	14	29	1.23	Brain acid soluble protein 1
IPI00218918	1	39.4	13	45	1.95	Annexin A1
IPI00010471	1	25.2	13	44	1.93	Plastin-2
IPI00027223	1	27.1	13	34	1.49	Isocitrate dehydrogenase [NADP] cytoplasmic
IPI00018953	1	17.9	12	36	1.65	Dipeptidyl peptidase 4
IPI00021440,IP						Actin, cytoplasmic 2,Actin, cytoplasmic 1
I00021439	1	47.7	11	77	4.56	
IPI00216057	1	26.4	10	42	1.81	Sorbitol dehydrogenase
IPI00329801	1	37.9	9	43	1.58	Annexin A5
IPI00418169,IP						annexin A2 isoform 1,Annexin A2
I00455315	1	23.7	8	14	0.61	fatty acid synthase,Fatty acid synthase
IPI00645907,IP						Isoform 1 of Heat shock cognate 71 kDa protein,Isoform 2 of Heat shock cognate 71 kDa protein
I00026781	1	6.6	8	19	0.9	
IPI00003865,IP						
I00037070	1	21.1	8	19	1.08	
IPI00025512	1	51.7	8	12	0.53	Heat-shock protein beta-1
IPI00746388,IP						
I00479359	1	14	8	29	1.08	Ezrin,villin 2
IPI00643932,IP						heat shock 70kDa protein 1B,heat shock 70kDa protein 1A,Heat shock 70 kDa protein 1
I00514377,IPI0						
0304925	1	18.7	8	31	1.58	
IPI00289983,IP						ACPP protein,Prostatic acid phosphatase precursor
I00396434	1	27.2	8	23	0.95	Heat shock protein HSP 90-alpha,Heat shock protein HSP 90-alpha 2
IPI00784295,IP						
I00382470	1	20.7	7	13	0.56	Rab GDP dissociation inhibitor beta,GDP dissociation inhibitor 2
IPI00031461,IP						
I00640006	1	20.5	7	22	0.98	

IPI00291262,IP I00400826	1	18	7	26	1.24	Clusterin precursor,clusterin isoform 1
IPI00479186,IP I00784179	1	18.5	7	18	0.7	pyruvate kinase 3 isoform 1,58 kDa protein
IPI00007752	1	28.5	7	17	0.65	Tubulin beta-2C chain
IPI00396485,IP I00472724	1	12.1	7	15	0.58	Elongation factor 1-alpha 1,Eukaryotic translation elongation factor 1 alpha-like 3
IPI00063234,IP I00219774	1	17.5	6	15	0.68	Hypothetical protein,cAMP-dependent protein kinase type II-alpha regulatory subunit
IPI00300562	1	37.9	6	33	1.95	Ras-related protein Rab-3B
IPI00219858,IP I00016381	1	23	6	16	1.07	Isoform Short of Ras-related protein Rab-27A,Isoform Long of Ras-related protein Rab-27A
IPI00177728	1	27.4	6	8	0.32	Cytosolic nonspecific dipeptidase
IPI00166768,IP I00478908,IP I00218343,IP I00387144,IP I00180675	1	24.1	5	14	0.52	TUBA6 protein,50 kDa protein,Tubulin alpha-6 chain,Tubulin alpha-ubiquitous chain,Tubulin alpha-3 chain
IPI00784459,IP I00012011	1	35.8	5	8	0.34	24 kDa protein,Cofilin-1
IPI00075248	1	43.2	5	12	0.46	Calmodulin
IPI00166729	1	17.8	4	9	0.3	alpha-2-glycoprotein 1, zinc
IPI00219446	1	30.6	4	14	0.63	Phosphatidylethanolamine-binding protein 1
IPI00334775,IP I00414676	1	15.1	4	6	0.35	Hypothetical protein DKFZp761K0511,Heat shock protein HSP 90-beta
IPI00219018	1	20.1	4	15	0.71	Glyceraldehyde-3-phosphate dehydrogenase
IPI00465248	1	15.7	4	9	0.31	enolase 1
IPI00019502	1	3.5	4	4	0.12	Myosin-9
IPI00003269	1	17.8	4	16	0.81	hypothetical protein LOC345651
IPI00027350,IP I00375400	1	25	4	15	0.46	Peroxisiredoxin-2,16 kDa protein
IPI00397808	1	30.1	4	24	0.65	PREDICTED: similar to ubiquitin and ribosomal protein S27a precursor

IPI00738715,IP I00643923,IPI0 0741537,IPI00 735915	0.93	5	4	4	0.04	PREDICTED: hypothetical protein LOC84726 isoform 7,PREDICTED: similar to HLA-B associated transcript- 2 isoform a isoform 10,PREDICTED: hypothetical protein LOC84726 isoform 1,PREDICTED: similar to HBxAg transactivated protein 2 isoform 16
IPI00216691	1	31.7	3	4	0.19	Profilin-1
IPI00006212	1	9.3	3	6	0.28	Transmembrane protease, serine 2 precursor
IPI00215917,IP I00215914	1	25.6	3	4	0.12	ADP-ribosylation factor 3,ADP-ribosylation factor 1
IPI00032808	1	34.7	3	25	1.57	Ras-related protein Rab-3D
IPI00000816	1	18.8	3	4	0.15	14-3-3 protein epsilon
IPI00015148,IP I00640287,IPI0 0412525,IPI00 019345	1	7.6	3	8	0.34	Ras-related protein Rap-1b precursor,RAP1A, member of RAS oncogene family,PREDICTED: similar to RAS related protein 1b isoform 1,Ras-related protein Rap-1A precursor
IPI00220766	1	16.4	3	14	0.67	Lactoylglutathione lyase
IPI00220271	1	15.4	3	3	0.11	Alcohol dehydrogenase Carbonyl reductase [NADPH] 1
IPI00295386	1	20.7	3	6	0.25	14-3-3 protein sigma,SFN protein
IPI00013890,IP I00411765	1	41.7	3	4	0.13	Protein NDRG1,CDNA FLJ38330 fis, clone FCBBF3025280, highly similar to NDRG1
IPI00022078,IP I00183085,IPI0 0783586	1	12.1	3	4	0.18	PROTEIN,43 kDa protein
IPI00023006,IP I00021428,IPI0 0515047	1	33.1	3	14	2.17	Actin, alpha cardiac,Actin, alpha skeletal muscle,Actin, alpha 1, skeletal muscle
IPI00549466,IP I00419585,IPI0 0745933	1	20.1	3	9	0.42	peptidylprolyl isomerase A- like,Peptidyl-prolyl cis-trans isomerase A,18 kDa protein Isoform 1 of Gamma- glutamyltranspeptidase 1 precursor
IPI00018901	1	8.8	3	5	0.08	Isoform Long of Probable phospholipid-transporting ATPase IIA
IPI00024368	1	6	3	4	0.13	Hypothetical protein
IPI00783704,IP I00783792	1	10.3	3	5	0.65	MGAM,192 kDa protein
IPI00745729,IP I00305719	1	10.6	3	3	0.12	53 kDa protein,selenium binding protein 1

IPI00095891,IP I00646491	1	6.8	3	3	0.07	guanine nucleotide binding protein, alpha stimulating activity polypeptide 1 isoform c,GNAS complex locus
IPI00328178,IP I00446294,IPIO 0651745	1	5	2	3	0.14	Target of myb1-like protein 2,CDNA FLJ42340 fis, clone UTERU1000031, moderately similar to G.gallus tom-1B protein,target of myb1-like 2 isoform 1
IPI00297037,IP I00409585	1	8.8	2	5	0.2	Isoform 1 of Lipid phosphate phosphohydrolase 1,Isoform 2 of Lipid phosphate phosphohydrolase 1
IPI00220143 IPI00180776,IP I00021263	1	9.4	2	3	0.59	Maltase-glucoamylase, intestinal
IPI00104341	1	8.6	2	3	0.1	28 kDa protein,14-3-3 protein zeta\delta
IPI00298547	1	10.1	2	5	0.19	Epoxide hydrolase 2
IPI00465439	1	8.5	2	2	0.09	Protein DJ-1
IPI00292532	1	9.2	2	2	0.09	Fructose-bisphosphate aldolase A
IPI00073772	1	8.3	2	2	0.09	Antibacterial protein FALL-39 precursor
IPI00298860,IP I00736872	1	3.7	2	3	0.13	Fructose-1,6-bisphosphatase 1
IPI00294653	1	1.9	2	9	0.38	Growth-inhibiting protein 12,PREDICTED: similar to lactotransferrin
IPI00027341	1	9.2	2	5	0.23	Protein C21orf5
IPI00745868,IP I00024095	1	7.8	2	3	0.14	Macrophage capping protein
IPI00749398,IP I00413451	1	7.4	2	6	0.24	36 kDa protein,Annexin A3
						serine (or cysteine) proteinase inhibitor, clade B (ovalbumin), member 6,Hypothetical protein DKFZp686I04222

IPI00736082,IP I00383071,IPI0 0737313,IPI00 465028,IPI007 40392	1	12.9	2	4	0.17	PREDICTED: similar to Triosephosphate isomerase (TIM) (Triose-phosphate isomerase) isoform 5,RcTPI1 (Fragment),PREDICTED: similar to Triosephosphate isomerase (TIM) (Triose- phosphate isomerase) isoform 3,Triosephosphate isomerase,PREDICTED: similar to Triosephosphate isomerase (TIM) (Triose- phosphate isomerase) isoform 6 Phosphoglycerate kinase, testis specific,Phosphoglycerate kinase 1
IPI00219568,IP I00169383	1	3.6	2	4	0.18	Ras-related protein Rab- 2B,Ras-related protein Rab- 2A
IPI00102896,IP I00031169	1	19.8	2	2	0.09	Niban protein
IPI00328350	1	2.9	2	3	0.14	
IPI00218836,IP I00010182	1	36.8	2	2	0.08	Isoform 2 of Acyl-CoA- binding protein,Endozepine Macrophage migration inhibitory factor
IPI00293276	1	28.1	2	30	1.41	
IPI00070778,IP I00016786	1	8.9	2	6	0.28	PREDICTED: similar to cell division cycle 42 isoform 1,Isoform 2 of Cell division control protein 42 homolog precursor
IPI00007067,IP I00479010	1	20.3	2	5	0.19	Golgi-associated plant pathogenesis-related protein 1,Chromosome 9 open reading frame 19
IPI00010491	1	17.1	2	3	0.47	Ras-related protein Rab- 27B
IPI00004233,IP I00301293	0.99	1.4	2	2	0.08	Isoform Long of Antigen KI- 67,antigen identified by monoclonal antibody Ki-67 Isoform Cytoplasmic of Glutathione reductase, mitochondrial precursor,Isoform Mitochondrial of Glutathione reductase, mitochondrial precursor
IPI00759575,IP I00016862	0.99	8.4	2	2	0.06	
IPI00160290	0.98	3.7	2	3	0.09	B-cell lymphoma 9 protein

IPI00220993,IP I00306667	0.95	11.5	2	3	0.07	Isoform CNPI of 2',3'-cyclic- nucleotide 3'- phosphodiesterase,Isoform CNPII of 2',3'-cyclic- nucleotide 3'- phosphodiesterase Guanine nucleotide-binding protein alpha-14 subunit,Guanine nucleotide- binding protein subunit alpha-11
IPI00000695,IP I00305551	0.93	12.1	2	3	0.05	



**Suppl. doc 5. Integrative analysis of EPS proteins with other**

<b>protein (IPI number)</b>	<b>Go Symbol</b>	<b>Found in prostasomes</b>	<b>identified as down regulated in oncomine</b>	<b>identified as up regulated in oncomine</b>	<b>Prostate enrichment scores</b>	<b>SingalP prediction</b>
IPI00434943	KLK2	No	2	3	9.24	Yes
IPI00010858	KLK3	No	3	4	8.79	Yes
IPI00414609	MSMB	No			7.25	Yes
IPI00023020	SEMG1	Yes			6.41	Yes
IPI00022429	ORM1	No			6.02	Yes
IPI00465248	ENO1	Yes	0	1	5.29	No
IPI00007752	TUBB2C	Yes			5.25	No
IPI00396434	ACPP	Yes			5.12	Yes
IPI00025415	SEMG2	Yes	0	2	4.91	Yes
IPI00025447	EEF1A1	No			4.32	No
IPI00010471	LCP1	Yes	1	6	3.91	No
IPI00456429	UBA52	No	2	4	3.46	No
IPI00022418	FN1	No			3.32	Yes
IPI00027230	TRA1	No			3.32	Yes
IPI00027462	S100A9	No			3.17	No
IPI00021440	ACTG1	Yes	0	3	3.00	No
IPI00219682	STOM	No			2.81	Signal anchor
IPI00247063	MME (CD10)	Yes			2.32	Signal anchor
IPI00177728	CNDP2	Yes	0	1	2.00	No
IPI00219018	GAPDH	Yes			2.00	No
IPI00479186	PKM2	Yes			2.00	No
IPI00745161	STEAP4	No			1.74	No
IPI00553177	SERPINA1	No	0	1	1.58	Yes
IPI00018953	DPP4(CD26)	Yes			1.19	Yes
IPI00022977	CKB	Yes			1.17	No
IPI00306543	GDF15	No	0	6		Yes
IPI00299086	SDCBP	No	1	5		No
IPI00031461	GDI2	Yes	1	4		No
IPI00027223	IDH1	Yes	2	3		No
IPI00026259	AGA	No	0	3		Yes
IPI00022431	AHSG	No	2	3		Yes
IPI00741408	DEFA1	No	0	3		Yes
IPI00298497	FGB	No	0	3		Yes
IPI00555812	GC	No	1	3		Yes
IPI00032328	KNG1	No	1	3		Yes
IPI00236556	MPO	No	1	3		Yes
IPI00032179	SERPINC1	No	1	3		Yes
IPI00018901	GGT1(CD224)	Yes	0	2		Yes
IPI00293276	MIF	Yes	0	2		No
IPI00022974	PIP	No	1	2		Yes
IPI00298547	PARK7	Yes	0	2		No
IPI00032220	AGT	No	1	2		Yes
IPI00022229	APOB	No	0	2		Yes
IPI00298828	APOH	No	1	2		Yes
IPI00215983	CA1	No	0	2		No
IPI00218414	CA2	No	0	2		No

IPI00219713	FGG	No	2	2	Yes
IPI00478493	HP	No	0	2	Yes
IPI00514159	ITIH2	No	0	2	Yes
IPI00655954	PDGFA	No	0	2	Yes
IPI00004573	PIGR	No	2	2	Yes
IPI00022432	TTR	No	0	2	Yes
IPI00643525	C4A	No	1	2	Yes
IPI00219825	PSAP	No	1	2	Yes
IPI00513699	SERPIN6	No	0	1	No
IPI00021841	APOA1	No	0	1	Yes
IPI00021854	APOA2	No	0	1	Yes
IPI00414018	C8A	No	0	1	Yes
IPI00465436	CAT	No	0	1	No
IPI00410714	HBA2	No	0	1	No
IPI00022488	HPX	No	0	1	Yes
IPI00022371	HRG	No	0	1	Yes
IPI00401776	MUC6	No	0	1	Yes
IPI00301579	NPC2	No	0	1	Yes
IPI00759575	GSR	Yes			Yes
IPI00549413	ANXA1	No			No
IPI00221224	ANPEP(CD13)	Yes			Signal anchor
IPI00166729	AZGP1	Yes			Yes
IPI00295386	CBR1	Yes			No
IPI00291262	CLU	Yes			Yes
IPI00032808	RAB3D	Yes			No
IPI00219858	RAB27A	Yes			No
IPI00216691	PFN1	Yes			No
IPI00294653	DOPEY2	Yes			No
IPI00000816	YWHAE	Yes			No
IPI00759663	PRDX5	No			Yes
IPI00003865	HSPA8	Yes			No
IPI00478003	A2M	No			Yes
IPI00437751	ACE(CD143)	No			Yes
IPI00745872	ALB	No			Yes
IPI00029260	CD14	No			Yes
IPI00641900	CEACAM1(CD6 6a)	No			Yes
IPI00027412	CEACAM6(CD6 6c)	No			Yes
IPI00639937	CFB	No			Yes
IPI00029739	CFH	No			Yes
IPI00017601	CP	No			Yes
IPI00032293	CST3	No			Yes
IPI00032325	CSTA	No			No
IPI00242956	FCGBP	No			Yes
IPI00654755	HBB	No			No
IPI00473011	HBD	No			No
IPI00220706	HBG1	No			No
IPI00014540	HOXB4	No			No
IPI00743064	LCN2	No			Yes
IPI00023673	LGALS3BP	No			Yes
IPI00298860	LTF	Yes			Yes
IPI00022255	OLFM4	No			Yes
IPI00011571	PDIA2	No			No

IPI00642548	PHGDH	No	No
IPI00000874	PRDX1	No	No
IPI00218130	PYGM	No	No
IPI00007047	S100A8	No	No
IPI00550991	SERPINA3	No	Yes
IPI00007221	SERPINA5	No	Yes
IPI00027444	SERPINB1	No	No
IPI00022463	TF	No	Yes
IPI00032292	TIMP1	No	Yes
IPI00746832	TPI1	No	No
IPI00022895	A1BG	No	Yes
IPI00164623	C3	No	Yes
IPI00297444	CD177	No	Yes
IPI00736872	LTF	Yes	No
IPI00784830		No	Yes
<u>IPI00747115</u>	<u>HBB</u>	No	<u>No</u>