

Computational prediction of furin cleavage sites by a hybrid method and understanding mechanism underlying diseases

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- Supplemental Information table 2. List of testing scores of 4265 negative arginine sites

Table 1. List of cross validation scores of 131 furin cleavage sites

Protein	Seq_P1_P14	Seq_P1_P6	Score
ADAM9	EEHPSVTQLLRRR	AVLPQT	14.94047
ADAM15	DLLLEQHHAHRLKR	DVVTET	15.71848
ADAM19	FTQQTKKRPRRMKR	EDLNSM	13.29331
ADAM19	ALQFTQQTKKRPRR	MKREDL	10.50773
ADAMTS1	VGQPTGTGSIRKKR	FVSSHR	16.62154
ADAMTS1	AGKPSGPGSIRKKR	FVSSPR	16.73845
ADAMTS4	PLGSPSPRPRRAKR	FASLSR	17.88548
ADAMTS4	VKAPLGSPSPRPRR	AKRFAS	11.15068
ADAMTS9	EPFPTNVHFKRTRR	SINSAT	12.40976
ADAMTS9	DEEEQNKPPIIYRR	SAPQRE	5.35001
ADAMTS9	DNTREKRTHRRTKR	FLSYPR	19.75621
BACE1	SGLAGPPLGLRLPR	ETDEES	1.827209
BMP1	GACGRWRGRSRSRR	AATSRP	20.81298
COL5A1	VIQPLPIQASRTRR	NIDASQ	13.53083
COL23A1	REKLDGVAKLRTVR	EAPSEC	6.132587
COL25A1	QKSYEHMAKIRIAR	EAPSEC	10.67178
DAG1	IANKKPPLPKRVRR	QIHATP	14.14822
SOD3	WERQAREHSERKKR	RRESEC	3.004285
FBN1	CKINGYPKRGRKRR	STNETD	20.23546
ITGA3	DPGDRPSSPQRRRR	QLDPGG	13.70687
ITGA4	EAAYHLGPHVISKR	STEEFP	9.827482
ITGA5	ELDPEGLHHQQKR	EAPSR	-11.7429
ITGA6	SLNLTESHNSRKKR	EITEKQ	14.98387
ITGAV	VAGQGERDHLITKR	DLALSE	8.807277
MMP2	DLDQNTIETMRKPR	CGNPDV	2.055306
MMP3	KLSDTLEVMRKPR	CGVPDV	0.000506
MMP14	KFGAEIKANVRRKR	YAIQGL	9.587921
MMP16	QTRGSSKFHIRRKR	YALTGQ	12.5147
MMP28	LLAGHRAKMRRKKR	FAKPGN	14.10756
REN2	MTRLSAEWDVRTKR	SSLTDL	11.87561
MMP11	DLPDVLNARNRQKR	FVLSGG	15.43407
MMP11	DPSDGLSARNRQKR	FVLSGG	15.73024
VTN	HSRGRNQNSRRPSR	ATWLSL	9.939387
ZP1	CSTACSTGTTRQRR	SSGHRN	16.12255
ZP2	LCSVTCPVSSRHRR	ATGATE	14.85488
ZP3	VMSQWSRSASRNRR	HVTEEA	12.98204
SCG5	LYEKMKGGRKRR	SVNPYL	20.60375
NGF	HGTIPFNTRHRSKR	SSTHPV	18.33912
bmp4	QTKTYQGKHVRISR	SLLPQE	8.283003
bmp4	HDGRGHALTRRSKR	SPKQQR	19.98116

EDN1	PTSPPPWRLRRSKR	CSCSSL	17.23658
EDA	EKPYSEESRRVRR	NKRSKS	14.61408
EDA	YSEESRRVRRNKR	SKSNEG	15.58528
EDN1	HVVPYGLGSPRSKR	ALENLL	14.9942
EDN1	CIYQQLVRGRKIRR	SSEEHL	14.5105
EDN1	ENLLPTKATDRENR	CQCASQ	-29.9896
GHRH	---LPPSPFFRMQR	HVDAIF	-4.166
IGF1	LKPAKSARSVRAQR	HTDMPK	3.337349
IGF1	EMYCAPLKPASAR	SVRAQR	0.582211
IGF2	QYDTWKQSTQRLRR	GLPALL	12.61183
NPPB	DQGPTKELLKRVLR	SQDSAF	8.737176
NPPC	GGANLKGDRSLLR	DLRVDT	11.29521
PDGFA	HVPEKRPLPIRRKR	SIEEAV	17.52292
PDGFB	HSGGELESLARGRR	SLGSLT	13.91391
PTH	-----KSVKKR	SVSEIQ	15.65579
SEMA3A	CSRYFPTAKRRTRR	QDIRNG	14.18814
CXCL10	KNLLKAVSKERSKR	SP----	15.59723
CXCL10	KNLMKAFSQKRSKR	AP----	16.24035
TGFB1	LERAQHLQSSRHRR	ALDTNY	17.04995
TGFB2	YRLESQQTNRRKKR	ALDAAY	19.50326
TNFSF13	LEAWENGERSRKR	AVLTQK	20.73169
VEGFC	KLDVYRQVHSIIRR	SLPATL	11.43804
FIGF	TSMDSRSASHRSTR	FAATFY	8.74284
FIGF	LPTAPRHPYSIIRR	SIQIPE	-8.74228
ALB	-----RGVFRR	DAHKSE	10.1178
ALB	-----SRGVFRR	EAHKSE	10.12038
F10	PYPCKGQTLERRKR	SVAQAT	14.75181
F9	DHENANKILNRPKR	YNSGKL	5.952127
C3	AELQCPQPAARRRR	SVQLTE	18.69679
PROC	PWKRMEKKRSHLKR	DTEDQE	7.46955
PROC	----AHQVLRIRKR	ANSFLE	9.903292
VWF	DAVLSSPLSHRSKR	SLSCRP	18.90187
MET	MPLECILTEKRKKR	STKKEV	11.75171
INSR	GTGAEDPRPSRKRR	SLGDVG	20.97373
LRP1	PPAAPPTTSNRHRR	QIDRGV	11.35441
NOTCH1	SLLPGTSGGRQRR	ELDPMD	15.43339
LRP8	ATASSTARTARMRR	PSSAGE	6.656723
SORT1	AAGGAFPRGGRWRR	SAPGED	10.85133
SCNN1A	SYTRQAGRRRSTR	DLRGAL	14.31956
SCNN1A	LRTPPPPNPARSAR	SASSSV	12.42848
SCNN1G	GVKDVLDSTPRKRR	EAGSMR	15.92044
FURIN	GDYYHFWHRGVTKR	SLSPHR	14.40035
FURIN	QWLEQQVAKRRTKR	DVYQEP	19.96586

FURIN	KWLEQQVAKRRRAKR	DIYQEP	15.50765
FURIN	GDYYHFWHRAVTKR	SLSPHR	14.41403
LOC682824	VCELPPQAQQSRTRR	SSPRL	16.84348
NAGPA	LLLPPYPRARARLPR	DCTRVR	5.879173
PCSK9	FENVPEEDGTRFHR	QASKCD	1.195354
PCSK1N	APLVETSTPLRLRR	AVPRGE	14.91889
PCSK1N	SEPEAAPARRLRR	SVDQDL	21.26483
ITM2B	KLQRRETIKGIQKR	EASNCF	11.5479
env	SLAPVPPPATRRRR	AVPIAV	14.44741
env	LSTASSAPTRVRR	SPVAAL	13.53931
env	PVKRYSSAPVRNKR	GVFVLG	12.06922
G	YTSSCRPLKRRRR	DTQQIE	17.62639
env	PTKAKRRVVQREKR	AVGIGA	9.437884
env	RPNNNTRKRIRIQR	GPGRAF	9.315477
F	KKTNVTLTKRKRKR	FLGFLL	17.68826
F	QESVTTSGGRRQKR	FIGAII	16.60673
F	NQESNENTDPRTKR	FFGGVI	2.386676
F	QESVTTSGGRRQRR	FIGAII	16.33423
F	RPVQSVASSRRHHR	FAGVVL	17.41512
M segment	VQDTHPSPTNRSKR	NLKMEI	12.36564
UL55	ANRSSLNITHRTRR	STSDNN	18.82365
GP	GVAGLITGGRRTTRR	EAIVNA	17.17281
GP	KVADSLSPTRKQKR	SVRQNT	15.43975
HbeAg	RSPRRRTPSPRRRR	SQSPRR	15.60429
HbeAg	STLPETTIVRRRGR	SPRRRT	7.591294
HA	ATGPRNVPQRRKKR	GLFGAK	17.95391
HA	TGLRNTPQRKRKKR	GLFGAM	18.91011
HA	LRNTPQRERRRKKR	GLFGAI	19.85995
HA	MKNVPEPSKRKKR	GLFGAI	17.62342
MC054L	PENADAAGARRRRR	GAPTSP	18.85569
L2	----MARAKRVKR	DSVTHI	17.11826
L2	--MRSKRSTKRTKR	ASATQL	19.1927
L2	--MRHKRSKRRTKR	ASATQL	19.0565
L2	---MAHSRARRRKR	ASATQL	20.20795
L2	----MSARKRVKR	ASAYDL	18.67323
L2	----MVARSRKRR	AAPQDI	20.60137
L2	---MVSHRAARRKR	ASVTDL	16.22031
polyprotein	YGRCGKQEGSRTRR	SVLIPS	19.13898
GP	SSTAQHLYVFRKR	SILWRE	9.708276
Structural polyprotein (P130)	NAILRCGSSGRSKR	SVIDDF	18.40543
Structural polyprotein (P130)	QAALTCRNGTRHRR	SVSQHF	16.33369

tat	LGISYGRKKRRQRR	RPPQGS	14.14833
aerA	PVPLAADSKVRRAR	SVDGAG	14.41061
alpha-toxin	KEIPLPDKKRRGKR	SVDSL	19.80533
diphtheria toxin	EYMAQACAGNRVRR	SVGSSL	16.134
eta	HLPLETFTRHRQPR	GWEQLE	5.339187
pagA	PELKQKSSNSRKKR	STSAGP	17.3112
stxA	LILNCHHHRVAR	MASDEF	0.984556

Table 2. List of testing scores of 4265 negative arginine sites

Protein	R_pos	Seq_P1_P14	Seq_P1_P6	Score
>gi 341940188 sp Q61072.2	31	LACGLLGPVLEAGR	PDLEQT	-37.82
>gi 341940188 sp Q61072.2	50	TVHLSSYEIITPWR	LTRERR	-41.699
>gi 341940188 sp Q61072.2	53	LSSYEIITPWRLTR	ERREAL	-17.898
>gi 341940188 sp Q61072.2	55	SYEITPWRLTRER	REALGP	-27.278
>gi 341940188 sp Q61072.2	56	YEIITPWRLTRERR	EALGPS	12.252
>gi 341940188 sp Q61072.2	83	IQAQGKQHIIHLER	NTDLLP	-33.173
>gi 341940188 sp Q61072.2	117	LSDHPNVQSHCHYR	GYVEGV	-35.404
>gi 341940188 sp Q61072.2	137	QNSAVAVSACFGLR	GLLHLE	-33.652
>gi 341940188 sp Q61072.2	174	IFYPMDGIHQEPLR	CGVSNR	-31.912
>gi 341940188 sp Q61072.2	180	GIHQEPLRCGVSNR	DTEKEG	-24.703
>gi 341940188 sp Q61072.2	202	GDEEHPSVTQLLR	RRRAVL	-28.389
>gi 341940188 sp Q61072.2	203	DEEHPSVTQLLRR	RRAVLP	-21.877
>gi 341940188 sp Q61072.2	204	EEHPSVTQLLRRR	RAVLPQ	-16.937
>gi 341940188 sp Q61072.2	212	QLLRRRRAVLPQTR	YVELFI	-25.556
>gi 341940188 sp Q61072.2	224	TRYVELFIVVDKER	YDMMGR	-41.821
>gi 341940188 sp Q61072.2	230	FIVVDKERYDMMGR	NQTAVR	-38.612
>gi 341940188 sp Q61072.2	236	ERYDMMGRNQTAVR	EEMIRL	-36.256
>gi 341940188 sp Q61072.2	241	MGRNQTAVREEMIR	LANYLD	-36.187
>gi 341940188 sp Q61072.2	256	ANYLDSMYIMLNIR	IVLVGL	-38.992
>gi 341940188 sp Q61072.2	268	IRIVLVGLEIWTDR	NPINII	-44.04
>gi 341940188 sp Q61072.2	288	GGAGDVLGNFVQWR	EKFLIT	-29.125
>gi 341940188 sp Q61072.2	295	GNFVQWREKFLITR	WRHDSA	-31.528
>gi 341940188 sp Q61072.2	297	FVQWREKFLITRWR	HDSAQL	-30.841
>gi 341940188 sp Q61072.2	324	GTAGMAFVGTVCSR	SHAGGI	-31.548
>gi 341940188 sp Q61072.2	361	ELGHNLGMNHDDGR	ECFCGA	-38.607
>gi 341940188 sp Q61072.2	380	AKSCIMNSGASGSR	NFSSCS	-30.55
>gi 341940188 sp Q61072.2	474	CKDCQFLPGGSMCR	GKTSEC	-31.37
>gi 341940188 sp Q61072.2	537	CQVIFGSKAKAAPR	DCFIEV	-21.609
>gi 341940188 sp Q61072.2	549	PRDCFIEVNSKGDR	FGNCGF	-27.292
>gi 341940188 sp Q61072.2	596	VFGIVPAIIQTPSR	GTKCWG	-34.638
>gi 341940188 sp Q61072.2	630	VNEGTKCDAGKICR	NFQCVN	-23.906
>gi 341940188 sp Q61072.2	696	DSGPTYNAKSTALR	DGLLVF	-22.267
>gi 341940188 sp Q61072.2	720	VPLVAAAIFLFIKR	DELRKT	-27.042
>gi 341940188 sp Q61072.2	724	AAAIFLFIKRDEL	KTFRKK	-25.879
>gi 341940188 sp Q61072.2	728	FLFIKRDELKTFR	KKRSQM	-20.615
>gi 341940188 sp Q61072.2	731	IKRDELKTFRKKR	SQMSDG	14.088
>gi 341940188 sp Q61072.2	738	KTFRKKRSQMSDGR	NQANVS	-37.778
>gi 341940188 sp Q61072.2	745	SQMSDGRNQANVSR	QPGDPS	-26.813
>gi 341940188 sp Q61072.2	754	ANVSRQPGDPSISR	PPGGPN	-34.666
>gi 341940188 sp Q61072.2	763	PSISRPPGGPNVSR	PPGGPG	-27.7

>gi 341940188 sp Q61072.2	772	PNVSRPPGGPGVSR	PPGGPG	-26.97
>gi 341940188 sp Q61072.2	781	PGVSRPPGGPGVSR	PPGGPG	-26.97
>gi 341940188 sp Q61072.2	790	PGVSRPPGGPGVSR	PPPGHG	-27.216
>gi 341940188 sp Q61072.2	798	GPGVSRPPPGHGNR	FPVPTY	-11.22
>gi 341940188 sp Q61072.2	815	PTYAAKQPAQFPSR	PPPPQP	-30.24
>gi 341940188 sp Q61072.2	833	QPKISSQGNLIPAR	PAPAPP	-21.996
>gi 3273478 gb AAC61896.1	39	IGGTEEEQASPER	TLSGSM	-38.465
>gi 3273478 gb AAC61896.1	48	ASPERTLSGSMESR	VVQDSP	-30.002
>gi 3273478 gb AAC61896.1	71	LADVLQTGLPEALR	ISLELD	-36.742
>gi 3273478 gb AAC61896.1	89	LDSESHVLELLQNR	DLIPGR	-31.84
>gi 3273478 gb AAC61896.1	95	VLELLQNRDLIPGR	PTLVWY	-29.989
>gi 3273478 gb AAC61896.1	107	GRPTLVWYQPDGTR	MVSEGY	-34.24
>gi 3273478 gb AAC61896.1	121	MVSEGYSLENCYR	GRVQGH	-44.234
>gi 3273478 gb AAC61896.1	123	SEGYSLENCYRGR	VQGHPS	-37.358
>gi 3273478 gb AAC61896.1	141	PSSWVSLCACSGIR	GLIVLS	-35.805
>gi 3273478 gb AAC61896.1	150	CSGIRGLIVLSPER	GYTLEL	-42.499
>gi 3273478 gb AAC61896.1	163	RGYTLELGPGLQR	PVISRI	-30.124
>gi 3273478 gb AAC61896.1	168	ELGPGDLQRPVISR	IQDHLL	-21.532
>gi 3273478 gb AAC61896.1	190	HTCAPSWHASVPTR	AGPDLL	-19.677
>gi 3273478 gb AAC61896.1	204	AGPDLLLEQHHAHR	LKRDVV	-28.224
>gi 3273478 gb AAC61896.1	228	IVELVIVADNSEVR	KYPDFQ	-44.119
>gi 3273478 gb AAC61896.1	239	EVRKYPDFQQLNR	TLEAAL	-34.194
>gi 3273478 gb AAC61896.1	257	ALLLDTFFQPLNVR	VALVGL	-35.993
>gi 3273478 gb AAC61896.1	287	MSSNPAVLLDNFLR	WRRTDL	-44.742
>gi 3273478 gb AAC61896.1	289	SNPAVLLDNFLRWR	RTDLLP	-33.896
>gi 3273478 gb AAC61896.1	290	NPAVLLDNFLRWRR	TDLLPR	-1.946
>gi 3273478 gb AAC61896.1	296	DNFLRWRRTDLLPR	LPHDSA	-36.108
>gi 3273478 gb AAC61896.1	396	TDFLPGLNFSNCSR	QALEKA	-34.562
>gi 3273478 gb AAC61896.1	414	KALLEGMGSCLFER	QPSLAP	-42.71
>gi 3273478 gb AAC61896.1	457	CTDPCCDHFTCQLR	PGAQCA	-34.461
>gi 3273478 gb AAC61896.1	482	CQNCKLHPAGWLCR	PPTDDC	-32.2
>gi 3273478 gb AAC61896.1	506	FCPGDSSQCPSDIR	LGDGEP	-37.742
>gi 3273478 gb AAC61896.1	524	EPCASGEAVCMHGR	CASYAR	-34.044
>gi 3273478 gb AAC61896.1	530	EAVCMHGRCASYAR	QCQSLW	-36.769
>gi 3273478 gb AAC61896.1	554	QPAAPLCLQTANTR	GNAFGS	-31.272
>gi 3273478 gb AAC61896.1	563	TANTRGNAFGSCGR	SPGGSY	-32.282
>gi 3273478 gb AAC61896.1	575	GRSPGGSYMPCAPR	DVMCGQ	-26.828
>gi 3273478 gb AAC61896.1	588	RDVMCGQLQCQWGR	SQPLLG	-33.339
>gi 3273478 gb AAC61896.1	599	WGRSQPLGQSVQDR	LSEVLE	-31.727
>gi 3273478 gb AAC61896.1	646	GTACGPGLVCIGHR	CQPVDL	-30.613
>gi 3273478 gb AAC61896.1	659	RCQPVDLLGAQECR	RKCHGH	-31.55
>gi 3273478 gb AAC61896.1	660	CQPVDLLGAQECRR	KCHGHG	-34.546
>gi 3273478 gb AAC61896.1	675	CHGHGVCDSGHCRR	CEEGWA	-36.594

>gi 3273478 gb AAC61896.1	719	LLVLVLLGASYWHR	ARLHQR	-29.102
>gi 3273478 gb AAC61896.1	721	VLVLLGASYWHRAR	LHQRLC	-34.533
>gi 3273478 gb AAC61896.1	725	LGASYWHRARLHQR	LCQLKG	-25.917
>gi 3273478 gb AAC61896.1	737	QRLCQLKGSSCQYR	APQSCP	-27.052
>gi 3273478 gb AAC61896.1	746	SCQYRAPQSCPPER	PGPPQR	-42.321
>gi 3273478 gb AAC61896.1	752	PQSCPPERPGPPQR	AQQMTG	-23.123
>gi 3273478 gb AAC61896.1	771	GTKSQGPTKPPPPR	KPLPAN	-26.285
>gi 3273478 gb AAC61896.1	802	GPGDGSPLLVVPSR	PAPPPP	-22.499
>gi 302393821 sp Q9H013.3	21	ARLCLLAFALQPLR	PRAARE	-29.352
>gi 302393821 sp Q9H013.3	23	LCLLAFALQPLRPR	AAREPG	-22.017
>gi 302393821 sp Q9H013.3	26	LAFALQPLRPRAAR	EPGWTR	9.25
>gi 302393821 sp Q9H013.3	32	PLRPRAAREPGWTR	GSEEGS	-32.339
>gi 302393821 sp Q9H013.3	58	LIIPQWKTSSESPVR	EKHPLK	-30.862
>gi 302393821 sp Q9H013.3	68	SPVREKHPLKAE LR	VMAEGR	-33.943
>gi 302393821 sp Q9H013.3	74	HPLKAE LR VMAEGR	ELILD L	-29.204
>gi 302393821 sp Q9H013.3	107	THYTSSGNPQT TTR	KLEDHC	-29.677
>gi 302393821 sp Q9H013.3	120	RKLEDHCFYHGTVR	ETELSS	-23.155
>gi 302393821 sp Q9H013.3	133	RETELSSVTLSTCR	GIRGLI	-29.768
>gi 302393821 sp Q9H013.3	136	ELSSVTLSTCRGIR	GLITVS	-22.338
>gi 302393821 sp Q9H013.3	163	EPLPDSKGQH LIYR	SEHLKP	-21.814
>gi 302393821 sp Q9H013.3	184	PGNCGFEHSKPTTR	DWALQF	-20.782
>gi 302393821 sp Q9H013.3	197	RDWALQFTQQTKKR	PRRMKR	-23.234
>gi 302393821 sp Q9H013.3	199	WALQFTQQTKKRPR	RMKRED	-2.599
>gi 302393821 sp Q9H013.3	227	LYLVADYLEFQKNR	RDQDAT	-35.651
>gi 302393821 sp Q9H013.3	228	YLVADYLEFQKNRR	DQDATK	0.467
>gi 302393821 sp Q9H013.3	249	KLIEIANYVDKFYR	SLNIRI	-24.647
>gi 302393821 sp Q9H013.3	254	ANYVDKFYRSLNIR	IALVGL	-28.767
>gi 302393821 sp Q9H013.3	286	ENPYSTLWSFLSWR	RKLLAQ	-34.138
>gi 302393821 sp Q9H013.3	287	NPYSTLWSFLSWRR	KLLAQK	-28.451
>gi 302393821 sp Q9H013.3	389	TGHPFPKVFNGCNR	RELDRY	-39.563
>gi 302393821 sp Q9H013.3	390	GHPFPKVFNGCNR	ELDRYL	-16.444
>gi 302393821 sp Q9H013.3	394	PKVFNGCNRRELD R	YLQSGG	-22.583
>gi 302393821 sp Q9H013.3	411	SGGGMCLSNMPDTR	MLYGGR	-36.978
>gi 302393821 sp Q9H013.3	417	LSNMPDTRMLYGG R	RCGNGY	-34.835
>gi 302393821 sp Q9H013.3	418	SNMPDTRMLYGGRR	CGNGYL	-25.319
>gi 302393821 sp Q9H013.3	451	CNNPCCNASNCTLR	PGAECA	-29.677
>gi 302393821 sp Q9H013.3	475	CHQCKLLAPGTLCR	EQARQC	-30.042
>gi 302393821 sp Q9H013.3	479	KLLAPGTLCREQAR	QC DLPE	-29.557
>gi 302393821 sp Q9H013.3	534	YQECCQLWGPGAR	PAPDLC	-32.551
>gi 302393821 sp Q9H013.3	563	TFGNC GKDMNGEHR	KCNMRD	-35.617
>gi 302393821 sp Q9H013.3	568	GKDMNGEHRKCNMR	DAKCGK	-18.027
>gi 302393821 sp Q9H013.3	583	AKCGKIQCQSSEAR	PLESNA	-27.304
>gi 302393821 sp Q9H013.3	601	NAVPIDTTIIMNGR	QIQCRG	-34.097

>gi 302393821 sp Q9H013.3	606	DTTIIMNGRQIQCR	GTHVYR	-17.719
>gi 302393821 sp Q9H013.3	612	NGRQIQCRGTHVYR	GPEEEG	-12.831
>gi 302393821 sp Q9H013.3	644	KCGYNHICFEGQCR	NTSFFE	-39.613
>gi 302393821 sp Q9H013.3	725	LVLAVLMLMYCCR	QNNKLG	-46.558
>gi 302393821 sp Q9H013.3	743	LGQLKPSALPSKLR	QQFSCP	-26.23
>gi 302393821 sp Q9H013.3	751	LPSKLRQQFSCPFR	VSQNSG	-38.683
>gi 302393821 sp Q9H013.3	774	ANPTFKLQTPQGKR	KVINTP	-20.057
>gi 302393821 sp Q9H013.3	784	QGKRKVINTPEILR	KPSQPP	-34.614
>gi 302393821 sp Q9H013.3	792	TPEILRKPSQPPPR	PPPDYL	-27.066
>gi 302393821 sp Q9H013.3	799	PSQPPRPPPDYLR	GGSPA	-31.502
>gi 302393821 sp Q9H013.3	813	GGSPAPLPAHLSR	AARNSP	-6.131
>gi 302393821 sp Q9H013.3	816	PPAPLPAHLSRAAR	NSPGPG	0.71
>gi 302393821 sp Q9H013.3	827	AARNSPGPGSQIER	TESSRR	-40.703
>gi 302393821 sp Q9H013.3	832	PGPGSQIERTESSR	RPPPSR	-23.618
>gi 302393821 sp Q9H013.3	833	GPGSQIERTESSRR	PPPSRP	-20.275
>gi 302393821 sp Q9H013.3	838	IERTESSRRPPPSR	PIPPAP	-22.283
>gi 302393821 sp Q9H013.3	854	PPAPNCIVSQDFSR	PRPPQK	-38.799
>gi 302393821 sp Q9H013.3	856	APNCIVSQDFSRPR	PPQKAL	-34.665
>gi 302393821 sp Q9H013.3	870	PPQKALPANVPVGR	RSLPRP	-24.186
>gi 302393821 sp Q9H013.3	871	PQKALPANVPVGRR	SLPRPG	-11.603
>gi 302393821 sp Q9H013.3	875	LPANVPVPGRRSLPR	PGGASP	-17.329
>gi 302393821 sp Q9H013.3	883	RRSLPRPGGASPLR	PPGAGP	-27.686
>gi 302393821 sp Q9H013.3	893	SPLRPPGAGPQQSR	PLAALA	-23.738
>gi 302393821 sp Q9H013.3	905	SRPLAALAPKVSPR	EALKVK	1.015
>gi 302393821 sp Q9H013.3	915	VSPREALKVKAGTR	GLQGGR	-20.542
>gi 302393821 sp Q9H013.3	921	LKVKAGTRGLQGGR	CRVEKT	-27.578
>gi 302393821 sp Q9H013.3	923	VKAGTRGLQGGR	VEKTKQ	-37.975
>gi 302393821 sp Q9H013.3	945	LLVVWTELPEQKPR	AKHSCF	-22.97
>gi 12644483 sp Q9UHI8 AT	23	GRRKLGSDMGNAER	APGSRS	-36.403
>gi 12644483 sp Q9UHI8 AT	28	GSDMGNAERAPGSR	SFGPVP	-20.616
>gi 12644483 sp Q9UHI8 AT	52	LAAALLAVSDALGR	PSEEDE	-35.121
>gi 12644483 sp Q9UHI8 AT	67	SEDEELVPELER	APGHGT	-37.062
>gi 12644483 sp Q9UHI8 AT	75	VPELERAPGHGTTR	LRLHAF	-32.062
>gi 12644483 sp Q9UHI8 AT	77	ELERAPGHGTTRLR	LHAFDQ	-32.119
>gi 12644483 sp Q9UHI8 AT	90	RLHAFDQQLDLELR	PDSSFL	-37.75
>gi 12644483 sp Q9UHI8 AT	107	SFLAPGFTLQNVGR	KSGSET	-33.765
>gi 12644483 sp Q9UHI8 AT	146	PSSAAALSLCEGVR	GAFYLL	-38.789
>gi 12644483 sp Q9UHI8 AT	167	EAYFIQPLPAASER	LATAAP	-36.659
>gi 12644483 sp Q9UHI8 AT	187	GEKPPAPLQFHLLR	RNRQGD	-16.675
>gi 12644483 sp Q9UHI8 AT	188	EKPPAPLQFHLLRR	NRQGDV	-6.137
>gi 12644483 sp Q9UHI8 AT	190	PPAPLQFHLLRRNR	QGDVGG	-3.235
>gi 12644483 sp Q9UHI8 AT	206	DVGGTCGVVDDEPR	PTGKAE	-40.869
>gi 12644483 sp Q9UHI8 AT	249	LQGVGQPTGTGSIR	KKRFVS	-31.141

>gi 12644483 sp Q9UHI8 AT	258	TGSIRKKRFVSSHR	YVETML	-26.066
>gi 12644483 sp Q9UHI8 AT	291	LKHyllTLFSVAAR	LYKHPS	-35.645
>gi 12644483 sp Q9UHI8 AT	299	FSVAARLYKHPSIR	NSVSLV	-22.738
>gi 12644483 sp Q9UHI8 AT	330	KGPEVTSNAALTLR	NFCNWQ	-25.952
>gi 12644483 sp Q9UHI8 AT	345	FCNWQKQHNPSSDR	DAEHYD	-30.867
>gi 12644483 sp Q9UHI8 AT	358	RDAEHYDTAILFTR	QDLCGS	-28.342
>gi 12644483 sp Q9UHI8 AT	383	LGMADVGTVCDCPSR	SCSVIE	-40.147
>gi 12644483 sp Q9UHI8 AT	486	LPGDLPGTSYDANR	QCQFTF	-42.835
>gi 12644483 sp Q9UHI8 AT	551	KWCINGKCVNKTDNR	KHFDTF	-36.292
>gi 12644483 sp Q9UHI8 AT	573	GSWGMWGPWGDCSR	TCGGGV	-45.202
>gi 12644483 sp Q9UHI8 AT	584	CSRTC GGQVYTMR	ECDNPV	-33.176
>gi 12644483 sp Q9UHI8 AT	602	PVPKNGGKYCEGKR	VRYSR	-31.619
>gi 12644483 sp Q9UHI8 AT	604	PKNGGKYCEGKRVR	YRSCNL	-15.255
>gi 12644483 sp Q9UHI8 AT	606	NGGKYCEGKRVR	SCNLED	3.386
>gi 12644483 sp Q9UHI8 AT	622	NLEDCPDNNGKTFR	EEQCEA	-25.304
>gi 12644483 sp Q9UHI8 AT	657	EWIPKYAGVSPKDR	CKLICQ	-34.633
>gi 12644483 sp Q9UHI8 AT	703	VCVQGQCVKAGCDR	IIDSKK	-40.238
>gi 12644483 sp Q9UHI8 AT	756	TIPTGATNIEVKQR	NQRGSR	-31.422
>gi 12644483 sp Q9UHI8 AT	759	TGATNIEVKQRNQR	GSRNNG	-7.67
>gi 12644483 sp Q9UHI8 AT	762	TNIEVKQRNQRGSR	NNGSFL	-7.196
>gi 12644483 sp Q9UHI8 AT	800	TLEQDIMYKGVVLR	YSGSSA	-4.883
>gi 12644483 sp Q9UHI8 AT	810	VVLRYSGSSAALER	IRSFSP	-39.475
>gi 12644483 sp Q9UHI8 AT	812	LRYSGSSAALERIR	SFSPLK	-31.692
>gi 12644483 sp Q9UHI8 AT	833	PLTIQVLTVGNALR	PKIKYT	-32.737
>gi 12644483 sp Q9UHI8 AT	876	WGECSSCELGWQR	RLVECR	-35.343
>gi 12644483 sp Q9UHI8 AT	877	GECSKSCSELGWQRR	LVECRD	-18.532
>gi 12644483 sp Q9UHI8 AT	882	SCELGWQRRLVECR	DINGQP	-18.222
>gi 12644483 sp Q9UHI8 AT	902	ASECAKEVKPASTR	PCADHP	-24.743
>gi 12644483 sp Q9UHI8 AT	931	SSCSKTCGKGYKKR	SLKCLS	-6.915
>gi 12644368 sp P97857.3	23	RKQKPCSDMGDVQR	AARSRG	-29.184
>gi 12644368 sp P97857.3	26	KPCSDMGDVQRAAR	SRGSL	-2.034
>gi 12644368 sp P97857.3	28	CSDMGDVQRAARSR	GSLSAH	-16.159
>gi 12644368 sp P97857.3	50	LLLLASITMLLCAR	GAHGRP	-32.308
>gi 12644368 sp P97857.3	55	SITMLLCARGAHGR	PTEEDE	-22.43
>gi 12644368 sp P97857.3	70	TEEDEELVLSLER	APGHDS	-31.488
>gi 12644368 sp P97857.3	80	SLERAPGHDSTTTR	LRLDAF	-40.698
>gi 12644368 sp P97857.3	82	ERAPGHDSTTTRLR	LDAFGQ	-32.101
>gi 12644368 sp P97857.3	112	GFLAPGFTLQTVGR	SPGSEA	-25.727
>gi 12644368 sp P97857.3	153	PGSAAALSLCEGVR	GAFYLQ	-38.423
>gi 12644368 sp P97857.3	175	EFFIQPAPGVATER	LAPAVP	-37.84
>gi 12644368 sp P97857.3	188	RLAPAVPEEESSAR	PQFHIL	-41.035
>gi 12644368 sp P97857.3	195	EESSARPQFHILR	RRRRGS	-17.647
>gi 12644368 sp P97857.3	196	EESSARPQFHILRR	RRRGSG	-0.339

>gi 12644368 sp P97857.3	197	ESSARPQFHILRRR	RRGSGG	-2.264
>gi 12644368 sp P97857.3	198	SSARPQFHILRRR	RGSGGA	3.464
>gi 12644368 sp P97857.3	199	SARPQFHILRRRR	GSGGAK	18.579
>gi 12644368 sp P97857.3	220	GVMDDDELPTSDSR	PESQNT	-38.362
>gi 12644368 sp P97857.3	227	LPTSDSRPESQNTR	NQWPVR	-31.391
>gi 12644368 sp P97857.3	233	RPESQNTRNQWPVR	DPTPQD	-28.197
>gi 12644368 sp P97857.3	250	PQDAGKPSGPGSIR	KKRFVS	-29.896
>gi 12644368 sp P97857.3	259	PGSIRKKRFVSSPR	YVETML	-25.477
>gi 12644368 sp P97857.3	292	LKHLLTLFSVAAR	FYKHPS	-28.159
>gi 12644368 sp P97857.3	300	FSVAARFYKHPSIR	NSISLV	-23.173
>gi 12644368 sp P97857.3	331	KGPEVTSNAALTLR	NFCNWQ	-25.952
>gi 12644368 sp P97857.3	346	FCNWQKQHNSPSDR	DPEHYD	-31.428
>gi 12644368 sp P97857.3	359	RDPEHYDTAILFTR	QDLCGS	-28.342
>gi 12644368 sp P97857.3	384	LGMADVGTVCDCPSR	SCSVIE	-40.147
>gi 12644368 sp P97857.3	487	LPSDLPGTLYDANR	QCQFTF	-42.655
>gi 12644368 sp P97857.3	574	GSWGPWGPWGDCSR	TCGGGV	-45.074
>gi 12644368 sp P97857.3	585	CSRTC GG VQYTMR	ECDNPV	-33.176
>gi 12644368 sp P97857.3	603	PVPKNGGKYCEGKR	VYRSC	-31.619
>gi 12644368 sp P97857.3	605	PKNGGKYCEGKVR	YRSCNI	-15.302
>gi 12644368 sp P97857.3	607	NGGKYCEGKRVYR	SCNIED	3.386
>gi 12644368 sp P97857.3	623	NIEDCPDNNGKTR	EEQCEA	-25.304
>gi 12644368 sp P97857.3	658	EWTPKYAGVSPKDR	CKLTCE	-34.221
>gi 12644368 sp P97857.3	704	VCVQGQCVKAGCDR	IIDSCK	-40.238
>gi 12644368 sp P97857.3	736	STCKKMSGIVTSTR	PGYHDI	-35.545
>gi 12644368 sp P97857.3	757	TIPAGATNIEVKHR	NQRGSR	-30.114
>gi 12644368 sp P97857.3	760	AGATNIEVKHRNQR	GSRNNG	-5.74
>gi 12644368 sp P97857.3	763	TNIEVKHRNQRGSR	NNGSFL	-7.196
>gi 12644368 sp P97857.3	772	QRGSRNNGSFLAIR	AADGTY	-28.46
>gi 12644368 sp P97857.3	801	TLEQDLTYKGTVLR	YSGSSA	-20.623
>gi 12644368 sp P97857.3	811	TVLRYSGSSAALER	IRSFSP	-39.349
>gi 12644368 sp P97857.3	813	LRYSGSSAALERIR	SFSPLK	-31.692
>gi 12644368 sp P97857.3	834	PLTIQVLMVGHALR	PKIKFT	-16.912
>gi 12644368 sp P97857.3	877	WGECSTCGSGWQR	RVVQCR	-26.015
>gi 12644368 sp P97857.3	878	GECSKTCGSGWQRR	VVQCRD	-18.608
>gi 12644368 sp P97857.3	883	TCGSGWQRRVVQCR	DINGHP	-15.36
>gi 12644368 sp P97857.3	903	ASECAKEVKPASTR	PCADLP	-25.185
>gi 12644368 sp P97857.3	932	SPCSKTCGKGYKKR	TLKCVS	-15.993
>gi 12643637 sp O75173.2	50	LLLLLASLLPSAR	LASPLP	-29.089
>gi 12643637 sp O75173.2	57	SLLPSARLASPLPR	EEEIVF	-27.127
>gi 12643637 sp O75173.2	80	LNGSVLPGSGAPAR	LLCRLQ	-29.409
>gi 12643637 sp O75173.2	84	VLPGSGAPARLLCR	LQAFGE	-31.431
>gi 12643637 sp O75173.2	156	HWDGGALLGVLQYR	GAELHL	-27.639
>gi 12643637 sp O75173.2	182	TPNSAGGPGAHILR	RKSPAS	-12.111

>gi 12643637 sp O75173.2	183	PNSAGGPGAHILRR	KSPASG	-13.331
>gi 12643637 sp O75173.2	206	MCNVKAPLGSPSPR	PRRAKR	-26.363
>gi 12643637 sp O75173.2	208	NVKAPLGSPSPRPR	RAKRFA	-19.994
>gi 12643637 sp O75173.2	218	PRPRRAKRFASLSR	FVETLV	-26.096
>gi 12643637 sp O75173.2	240	DDKMAAFHGAGLKR	YLLTVM	-17.439
>gi 12643637 sp O75173.2	259	MAAAAKAFKHPSIR	NPVSLV	-24.261
>gi 12643637 sp O75173.2	268	HPSIRNPVSLVVTR	LVILGS	-25.42
>gi 12643637 sp O75173.2	290	EGPQVGPSSAAQTLR	SFCAWQ	-20.327
>gi 12643637 sp O75173.2	297	SAAQTLRSFCAWQR	GLNTPE	-35.073
>gi 12643637 sp O75173.2	318	SDPDHFDTAILFTR	QDLCGV	-28.745
>gi 12643637 sp O75173.2	343	LGMADVGTVCDPAR	SCAIVE	-38.78
>gi 12643637 sp O75173.2	388	KPCISLNGPLSTSR	HVMAPV	-24.597
>gi 12643637 sp O75173.2	410	HVDPEEPWSPCSAR	FITDFL	-22.71
>gi 12643637 sp O75173.2	447	LPVTFPGKDYDADR	QCQLTF	-56.983
>gi 12643637 sp O75173.2	458	ADRQCQLTFGPDSR	HCPQLP	-38.11
>gi 12643637 sp O75173.2	505	GTPCGPAQACMGGR	CLHMDQ	-34.303
>gi 12643637 sp O75173.2	534	GGWGPWGPWGDCSR	TCGGGV	-45.175
>gi 12643637 sp O75173.2	545	CSRTC GGGVQFSSR	DCTRPV	-29.04
>gi 12643637 sp O75173.2	549	CGGGVQFSSRDCTR	PVPRNG	-28.38
>gi 12643637 sp O75173.2	553	VQFSSRDCTRVPVR	NGGKYC	-17.509
>gi 12643637 sp O75173.2	562	RPVPRNGGKYCEGR	RTRFRS	-29.428
>gi 12643637 sp O75173.2	563	PVPRNGGKYCEGRR	TRFRSC	-27.492
>gi 12643637 sp O75173.2	565	PRNGGKYCEGRRTR	FRSCNT	-5.672
>gi 12643637 sp O75173.2	567	NGGKYCEGRRTRFR	SCNTED	-16.602
>gi 12643637 sp O75173.2	583	NTEDCPTGSALTFR	EEQCAA	-33.332
>gi 12643637 sp O75173.2	593	LTFREEQCAAYNHR	TDLFKS	-32.075
>gi 12643637 sp O75173.2	609	LFKSFPGPMDWVPR	YTG VAP	-35.271
>gi 12643637 sp O75173.2	626	VAPQDQCKLTCQAR	ALGYYY	-21.884
>gi 12643637 sp O75173.2	637	QARALGYYYVLEPR	VVDGTP	-32.091
>gi 12643637 sp O75173.2	656	PCSPDSSSVCVQGR	CIHAGC	-28.033
>gi 12643637 sp O75173.2	664	VCVQGRCIHAGCDR	IIGSKK	-43.345
>gi 12643637 sp O75173.2	693	GDGSGCSKQSGSFR	KFRYGY	-37.568
>gi 12643637 sp O75173.2	696	SGCSKQSGSFRKFR	YGYNNV	-7.506
>gi 12643637 sp O75173.2	715	VVTIPAGATHILVR	QQGNPG	-10.162
>gi 12643637 sp O75173.2	723	THILVRQQGNPGHR	SIYLAL	-23.186
>gi 12643637 sp O75173.2	760	SPTDVVLPGAVSLR	YSGATA	-19.039
>gi 12643637 sp O75173.2	795	TLQVLVAGNPQDTR	LRY SFF	-39.095
>gi 12643637 sp O75173.2	797	QVLVAGNPQDTRLR	YSFFVP	-35.089
>gi 12643637 sp O75173.2	804	PQDTRLRYSFFVPR	PTPSTP	-26.996
>gi 12643637 sp O75173.2	811	YSFFVPRPTPSTPR	PTPQDW	-23.413
>gi 12643637 sp O75173.2	820	PSTPRPTPQDWLHR	RAQILE	-32.15
>gi 12643637 sp O75173.2	821	STPRPTPQDWLHRR	AQILEI	-27.869
>gi 12643637 sp O75173.2	829	DWLHRR AQILEILR	RRPWAG	-36.643

>gi 12643637 sp O75173.2	830	WLHRRRAQILEILRR	RPWAGR	-14.601
>gi 12643637 sp O75173.2	831	LHRRRAQILEILRRR	PWAGRK	-25.774
>gi 12643637 sp O75173.2	836	QILEILRRRPWAGR	K-----	-27.977
>gi 27463365 gb AAO15765.	30	LAEMGSPDAAAAVR	KDRLHP	-34.134
>gi 27463365 gb AAO15765.	33	MGSPDAAAAVRKDR	LHPRQV	-28.339
>gi 27463365 gb AAO15765.	37	DAAAAVRKDRLHPR	QVKLLE	-9.977
>gi 27463365 gb AAO15765.	55	LETLSEYEIVSPIR	VNALGE	-35.195
>gi 27463365 gb AAO15765.	71	ALGEPFPTNVHFKR	TRRSIN	-13.394
>gi 27463365 gb AAO15765.	73	GEPFPTNVHFKRTR	RSINSA	-7.614
>gi 27463365 gb AAO15765.	101	SSSSSTSPQAHYR	LSAFGQ	-36.579
>gi 27463365 gb AAO15765.	177	AVISLCSGMLGTFR	SHDGGY	-36.743
>gi 27463365 gb AAO15765.	208	EDEEQNKPHIYR	RSAPQR	-10.643
>gi 27463365 gb AAO15765.	214	NKPHIYRRSAPQR	EPSTGR	-16.682
>gi 27463365 gb AAO15765.	220	YRRSAPQREPSTGR	HACDTS	-30.457
>gi 27463365 gb AAO15765.	231	TGRHACDTSEHKNR	HSKDKK	-13.151
>gi 27463365 gb AAO15765.	240	EHKNRHSKDKKTR	ARKWGE	-5.562
>gi 27463365 gb AAO15765.	242	KNRHSKDKKTRAR	KWGERI	-21.944
>gi 27463365 gb AAO15765.	247	KDKKTRARKWGER	INLAGD	-31.598
>gi 27463365 gb AAO15765.	277	EAFSAYGNKTDNTR	EKRTHR	-26.2
>gi 27463365 gb AAO15765.	280	SAYGNKTDNTREKR	THRRTK	-2.675
>gi 27463365 gb AAO15765.	283	GNKTDNTREKRTHR	RTKRFL	5.001
>gi 27463365 gb AAO15765.	284	NKTDNTREKRTHRR	TKRFLS	-15.516
>gi 27463365 gb AAO15765.	293	RTHRRTKRFLSYPR	FVEVLV	-27.78
>gi 27463365 gb AAO15765.	304	YPRFVEVLVVADNR	MVSYHG	-34.773
>gi 27463365 gb AAO15765.	390	PGGIHHD TAVLLTR	QDICRA	-26.321
>gi 27463365 gb AAO15765.	395	HDTAVLLTRQDICR	AHDKCD	-34.237
>gi 27463365 gb AAO15765.	416	LGLAELGTICDPYR	SCSISE	-46.55
>gi 27463365 gb AAO15765.	480	NFYTNPWMWSKCSR	KYITEF	-37.723
>gi 27463365 gb AAO15765.	502	TGYGECLLNEPESR	PYPLPV	-44.293
>gi 27463365 gb AAO15765.	539	GPGSQVCPYMMQCR	RLWCNN	-36.618
>gi 27463365 gb AAO15765.	540	PGSQVCPYMMQCRR	LWCNNV	-33.678
>gi 27463365 gb AAO15765.	554	LWCNNVNGVHKGCR	TQHTPW	-30.194
>gi 27463365 gb AAO15765.	602	GSWGSWSPFGTCSR	TCGGGI	-41.159
>gi 27463365 gb AAO15765.	613	CSRTC GGGIKTAIR	ECNRPE	-32.135
>gi 27463365 gb AAO15765.	617	CGGGIKTAIRECNR	PEPKNG	-39.584
>gi 27463365 gb AAO15765.	630	RPEPKNGGKYCVGR	RMKFKS	-32.055
>gi 27463365 gb AAO15765.	631	PEPKNGGKYCVGRR	MKFKSC	-23.088
>gi 27463365 gb AAO15765.	647	FKSCNTEPCLKQKR	DFRDEQ	-16.413
>gi 27463365 gb AAO15765.	650	CNTEPCLKQKRDFR	DEQCAH	-23.618
>gi 27463365 gb AAO15765.	672	GKHFNINGLLPNVR	WVPKYS	-32.352
>gi 27463365 gb AAO15765.	685	RWVPKYSGILMKDR	CKLFCR	-41.472
>gi 27463365 gb AAO15765.	691	SGILMKDRCKLFCR	VAGNTA	-37.344
>gi 27463365 gb AAO15765.	702	FCRVAGNTAYYQLR	DRVIDG	-33.588

>gi 27463365 gb AAO15765.	704	RVAGNTAYYQLRDR	VIDGTP	-42.986
>gi 27463365 gb AAO15765.	725	GQDTNDICVQGLCR	QAGCDH	-31.372
>gi 27463365 gb AAO15765.	738	RQAGCDHVLNSKAR	RDKCGV	-26.617
>gi 27463365 gb AAO15765.	739	QAGCDHVLNSKARR	DKCGVC	5.07
>gi 27463365 gb AAO15765.	771	TFNTVHYGYNTVVR	IPAGAT	-37.237
>gi 27463365 gb AAO15765.	782	VVRIPAGATNIDVR	QHSFSG	-34.136
>gi 27463365 gb AAO15765.	818	FLLNGNFVVTMAKR	EIRIGN	-19.162
>gi 27463365 gb AAO15765.	821	NGNFVVTMAKREIR	IGNAVV	-21.192
>gi 27463365 gb AAO15765.	838	AVVEYSGSETAVER	INSTDR	-46.836
>gi 27463365 gb AAO15765.	844	GSETAVERINSTDR	IEQELL	-44.887
>gi 27463365 gb AAO15765.	865	QVLSVGKLYNPDVR	YSFNIP	-36.548
>gi 27463365 gb AAO15765.	898	GPWQACSKPCQGER	KRKLVC	-38.153
>gi 27463365 gb AAO15765.	900	WQACSKPCQGERKR	KLVCTR	-23.604
>gi 27463365 gb AAO15765.	906	PCQGERKRKLVCTR	ESDQLT	-18.472
>gi 27463365 gb AAO15765.	917	CTRESQTLVSDQR	CDRLPQ	-32.998
>gi 27463365 gb AAO15765.	920	ESDQLTVSDQRCDR	LPQPGH	-37.924
>gi 27463365 gb AAO15765.	938	GHITEPCGTDCDLR	WHVASR	-47.91
>gi 27463365 gb AAO15765.	944	CGTDCDLRWHVASR	SECSAQ	-27.819
>gi 27463365 gb AAO15765.	956	SRSECSAQCGLYR	TLDIYC	-40.813
>gi 27463365 gb AAO15765.	967	GYRTLDIYCAKYSR	LDGKTE	-33.121
>gi 27463365 gb AAO15765.	989	DDGFCSSHPKPSNR	EKCSGE	-18.768
>gi 27463365 gb AAO15765.	1002	REKCSGECNTGGWR	YSAWTE	-34.183
>gi 27463365 gb AAO15765.	1019	WTECSKSCDGGTQR	RRAICV	-35.109
>gi 27463365 gb AAO15765.	1020	TECSKSCDGGTQRR	RAICVN	-15.225
>gi 27463365 gb AAO15765.	1021	ECSKSCDGGTQRRR	AICVNT	-9.489
>gi 27463365 gb AAO15765.	1028	GGTQRRRAICVNTR	NDVLDD	-36.568
>gi 27463365 gb AAO15765.	1047	DSKCTHQEKVTIQR	CSEFPC	-19.357
>gi 27463365 gb AAO15765.	1075	SECLVTCGKGHKHR	QVWCQF	-3.657
>gi 27463365 gb AAO15765.	1085	HKHRQVWCQFGEDR	LNDRMC	-46.331
>gi 27463365 gb AAO15765.	1089	QVWCQFGEDRLNDR	MCDPET	-37.207
>gi 27463365 gb AAO15765.	1130	VQCSVTCGQGYQLR	AVKCII	-23.782
>gi 27463365 gb AAO15765.	1153	MSVVDDNDCNAATR	PTDTQD	-35.862
>gi 27463365 gb AAO15765.	1175	LPSCHPPAAPETR	RSTYSA	-27.132
>gi 27463365 gb AAO15765.	1176	PSCHPPAAPETR	STYSAP	-13.605
>gi 27463365 gb AAO15765.	1183	AAPETRRSTYSAPR	TQWRFG	-36.162
>gi 27463365 gb AAO15765.	1187	TRRSTYSAPRTQWR	FGSWTP	-21.802
>gi 27463365 gb AAO15765.	1203	SWTPCSATCGKGTR	MRYVSC	-34.058
>gi 27463365 gb AAO15765.	1205	TPCSATCGKGTRMR	YVSCRD	-23.445
>gi 27463365 gb AAO15765.	1210	TCGKGTRMRYVSCR	DENGSV	-28.207
>gi 27463365 gb AAO15765.	1227	GVADESACATLPR	PVAKEE	-32.14
>gi 27463365 gb AAO15765.	1258	LDWSSCSVTCGQGR	ATRQVM	-30.749
>gi 27463365 gb AAO15765.	1261	SSCSVTCGQGRATR	QVMCVN	-2.465
>gi 27463365 gb AAO15765.	1275	QVMCVNYSDHVIDR	SECDQD	-36.376

>gi 27463365 gb AAO15765.	1298	ETDQDCSMSPCPQR	TPDSGL	-31.895
>gi 27463365 gb AAO15765.	1315	SGLAQHPFQMEDYR	PRSASP	-43.576
>gi 27463365 gb AAO15765.	1317	LAQHPFQMEDYRPR	SASPSR	-32.935
>gi 27463365 gb AAO15765.	1323	QMEDYRPRSASPSR	THVLGG	-34.747
>gi 27463365 gb AAO15765.	1333	SPSRTHVLGGNQWR	TGPWGA	-36.911
>gi 27463365 gb AAO15765.	1350	WGACSSCAGGSQR	RVVVCQ	-24.589
>gi 27463365 gb AAO15765.	1351	GACSSCAGGSQRR	VVVCQD	-20.278
>gi 27463365 gb AAO15765.	1369	QDENGYTANDCVER	IKPDEQ	-47.951
>gi 27463365 gb AAO15765.	1376	ANDCVERIKPDEQR	ACESGP	-26.122
>gi 27463365 gb AAO15765.	1403	NWGECKLCCGGGIR	TRLVVC	-33.751
>gi 27463365 gb AAO15765.	1405	GECTKLCGGGIRTR	LVVCQR	-22.993
>gi 27463365 gb AAO15765.	1411	CGGGIRTRLVVCQR	SNGERF	-23.115
>gi 27463365 gb AAO15765.	1416	RTRLVVCQRSNGER	FPDLSC	-26.241
>gi 27463365 gb AAO15765.	1431	PDLSCIELDKPPDR	EQCNTH	-35.064
>gi 27463365 gb AAO15765.	1459	STGPWSSCSVSCGR	GHKQRN	-36.651
>gi 27463365 gb AAO15765.	1464	SSCSVSCGRGHKQR	NVYCMA	-2.538
>gi 27463365 gb AAO15765.	1491	SDYCKHLAKPHGHR	KCRGGR	-25.882
>gi 27463365 gb AAO15765.	1494	CKHLAKPHGHRKCR	GGRCPK	-12.564
>gi 27463365 gb AAO15765.	1497	LAKPHGHRKCRGGR	CPKWKA	-15.963
>gi 27463365 gb AAO15765.	1515	KAGAWSQCSVSCGR	GVQQRH	-29.388
>gi 27463365 gb AAO15765.	1520	SQCSVSCGRGVQQR	HVGCQI	-11.79
>gi 27463365 gb AAO15765.	1533	RHVGCQIGTHKIAR	ETECNP	3.758
>gi 27463365 gb AAO15765.	1542	HKIARETECNPYTR	PESERD	-40.595
>gi 27463365 gb AAO15765.	1547	ETECNPYTRPESER	DCQGPR	-29.381
>gi 27463365 gb AAO15765.	1553	YTRPESERDCQGPR	CPLYTW	-37.076
>gi 27463365 gb AAO15765.	1560	RDCQGPRCPLYTWR	AEEWQE	-31.535
>gi 27463365 gb AAO15765.	1576	EWQECTKTCGEGSR	YRKVVC	-39.608
>gi 27463365 gb AAO15765.	1578	QECTKTCGEGSRYR	KVVCVD	-39.404
>gi 27463365 gb AAO15765.	1594	VCVDDNKNEVHGAR	CDVSKR	-17.581
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>gi 27463365 gb AAO15765.	1604	HGARCDVSKRPVDR	ESCSLQ	-18.643
>gi 27463365 gb AAO15765.	1635	SECSVTCGKGYKQR	LVSCSE	-23.283
>gi 27463365 gb AAO15765.	1673	PGTQPPSVHPCYLR	ECPVSA	-29.125
>gi 27463365 gb AAO15765.	1682	PCYLRECPVSATWR	VGNWGS	-35.124
>gi 27463365 gb AAO15765.	1700	GSCSVSCGVGMQR	SVQCLT	-17.162
>gi 27463365 gb AAO15765.	1724	PSHLCHTDLKPEER	KTCRNV	-33.647
>gi 27463365 gb AAO15765.	1728	CHTDLKPEERKTCR	NVYNCE	-18.291
>gi 27463365 gb AAO15765.	1744	YNCELPQNCKEVKR	LKGASE	-28.44
>gi 27463365 gb AAO15765.	1759	KGASEDGEYFLMIR	GKLLKI	-35.724
>gi 27463365 gb AAO15765.	1796	HGSENSEFSEVYGHR	LHNPTTE	-37.465
>gi 27463365 gb AAO15765.	1809	RLHNPTTECPYNGSR	RDDCQC	-34.033
>gi 27463365 gb AAO15765.	1810	LHNPTTECPYNGSRR	DDCQCR	-17.793
>gi 27463365 gb AAO15765.	1816	CPYNGSRRDDCQCR	KDYTAA	-54.421

>gi 27463365 gb AAO15765.	1831	DYTAAGFSSFQKIR	IDLTSM	-35.877
>gi 27463365 gb AAO15765.	1848	TSMQIITDLQFAR	TSEGHP	-34.213
>gi 27463365 gb AAO15765.	1873	AGDCYSAAKCPQGR	FSINLY	-26.659
>gi 27463365 gb AAO15765.	1890	NLYGTGLSLTESAR	WISQGN	-34.058
>gi 27463365 gb AAO15765.	1910	YAVSDIKKSPDGTR	VVGKCG	-35.285
>gi 27463365 gb AAO15765.	1933	GKCTPSSGTGLEVR	VL----	-31.162
>gi 6561820 gb AAF17082.1	27	SGMLPAQGTHLGIR	LPLRSG	-35.424
>gi 6561820 gb AAF17082.1	31	PAQGTHLGIRLPLR	SGLAGP	-14.55
>gi 6561820 gb AAF17082.1	42	PLRSGLAGPPLGLR	LPRETD	-32.957
>gi 6561820 gb AAF17082.1	56	LPRETDEESEEPGR	RGSFVE	-39.084
>gi 6561820 gb AAF17082.1	57	PRETDEESEEPGRR	GSFVEM	-25.125
>gi 6561820 gb AAF17082.1	68	GRRGSFVEMVDNLR	GKSGQG	-34.149
>gi 6561820 gb AAF17082.1	111	NFAVGAAPHPFLHR	YYQRQL	-31.645
>gi 6561820 gb AAF17082.1	115	GAAPHPFLHRYYQR	QLSSTY	-19.203
>gi 6561820 gb AAF17082.1	122	LHRYYQRQLSSTYR	DLRKGV	-24.997
>gi 6561820 gb AAF17082.1	125	YYQRQLSSTYRDLR	KGVYVP	-30.339
>gi 6561820 gb AAF17082.1	157	DLVSIPHGPNVTVR	ANIAAI	-20.927
>gi 6561820 gb AAF17082.1	189	WEGILGLAYAEIAR	PDDSLE	-34.905
>gi 6561820 gb AAF17082.1	255	HSLYTGSLWYTPIR	REWYVE	-36.823
>gi 6561820 gb AAF17082.1	256	SLYTGSLWYTPIRR	EWYVEV	-22.213
>gi 6561820 gb AAF17082.1	266	PIRREWYVEVIIVR	VEINGQ	-39.717
>gi 6561820 gb AAF17082.1	296	YDKSIVDSGTTNLR	LPKKVF	-33.888
>gi 6561820 gb AAF17082.1	358	SLYLMGEVTNQSFR	ITILPQ	-34.388
>gi 6561820 gb AAF17082.1	368	QSFRITILPQQYLR	PVEDVA	-26.731
>gi 6561820 gb AAF17082.1	408	GAVIMEGFYVVFDR	ARKRIG	-34.169
>gi 6561820 gb AAF17082.1	410	VIMEGFYVVFDRAR	KRIGFA	-37.88
>gi 6561820 gb AAF17082.1	412	MEGFYVVFDRARKR	IGFAVS	-23.56
>gi 6561820 gb AAF17082.1	427	GFAVSACHVHDEFR	TAAVEG	-40.666
>gi 6561820 gb AAF17082.1	481	LFMLPLCLMVCQWR	CLRCLR	-33.979
>gi 6561820 gb AAF17082.1	484	LPLCLMVCQWRCLR	CLRHQH	-24.078
>gi 6561820 gb AAF17082.1	487	CLMVCQWRCLRCLR	HQHDDF	-25.146
>gi 13124688 sp P13497.2	21	PLLLGLLLLPRPGR	PLDLAD	-4.441
>gi 13124688 sp P13497.2	64	AFLGDIALDEEDLR	AFQVQQ	-51.838
>gi 13124688 sp P13497.2	75	DLRAFQVQQAVDLR	RHTARK	-34.049
>gi 13124688 sp P13497.2	76	LRAFQVQQAVDLRR	HTARKS	-17.439
>gi 13124688 sp P13497.2	80	QVQQAVDLRRHTAR	KSSIKA	-11.817
>gi 13124688 sp P13497.2	106	STPSCQSTNGQPQR	GACGRW	-21.76
>gi 13124688 sp P13497.2	111	QSTNGQPQRGACGR	WRGRSR	-28.432
>gi 13124688 sp P13497.2	113	TNGQPQRGACGRWR	GRSRSR	-36.379
>gi 13124688 sp P13497.2	115	GQPQRGACGRWRGR	SRSRRA	-16.749
>gi 13124688 sp P13497.2	117	PQRGACGRWRGRSR	SRRAAT	-22.645
>gi 13124688 sp P13497.2	119	RGACGRWRGRSRSR	RAATSR	-16.31
>gi 13124688 sp P13497.2	125	WRGRSRSRRAATSR	PERVWP	-25.412

>gi 13124688 sp P13497.2	128	RSRSRRAATSRPER	VWPDGV	-25.78
>gi 13124688 sp P13497.2	148	IPFVIGGNFTGSQR	AVFRQA	-26.26
>gi 13124688 sp P13497.2	152	IGGNFTGSQRAVFR	QAMRHW	-23.668
>gi 13124688 sp P13497.2	156	FTGSQRAVFRQAMR	HWEKHT	-27.027
>gi 13124688 sp P13497.2	169	RHWEKHTCVTFLE	TDEDSY	-40.548
>gi 13124688 sp P13497.2	181	ERTDEDSYIVFTYR	PCGCCS	-39.936
>gi 13124688 sp P13497.2	191	FTYRPCGCCSYVGR	RGGGPQ	-36.237
>gi 13124688 sp P13497.2	192	TYRPCGCCSYVGRR	GGGPQA	-18.347
>gi 13124688 sp P13497.2	227	ELGHVVGFWHEHTR	PDRDRH	-39.024
>gi 13124688 sp P13497.2	230	HVVGFWHEHTRPDR	DRHVISI	-20.119
>gi 13124688 sp P13497.2	232	VGFWHEHTRPDRDR	HVSIVR	-27.606
>gi 13124688 sp P13497.2	238	HTRPDRDRHVSIVR	ENIQPG	-25.384
>gi 13124688 sp P13497.2	274	GETYDFDSIMHYAR	NTFSRG	-19.137
>gi 13124688 sp P13497.2	279	FDSIMHYARNTFSR	GIFLDT	-21.503
>gi 13124688 sp P13497.2	302	KYEYVGVKPPIGQR	TRLSKG	-28.799
>gi 13124688 sp P13497.2	304	EVNGVKPPIGQRTR	LSKGDI	-31.411
>gi 13124688 sp P13497.2	314	QRTRLSKGDIAQAR	KLYKCP	-34.43
>gi 13124688 sp P13497.2	351	YPNGYSAHMHCVWR	ISVTPG	-37.952
>gi 13124688 sp P13497.2	371	EKIILNFTSLDLYR	SRLCWY	-35.738
>gi 13124688 sp P13497.2	373	IILNFTSLDLYRSR	LCWYDY	-41.049
>gi 13124688 sp P13497.2	383	YRSRLCWYDYVEVR	DGFWRK	-36.002
>gi 13124688 sp P13497.2	388	CWYDYVEVRDGFWR	KAPLRG	-35.239
>gi 13124688 sp P13497.2	393	VEVRDGFWRKAPLR	GRFCGS	-19.49
>gi 13124688 sp P13497.2	395	VRDGFWRKAPLRGR	FCGSKL	-25.229
>gi 13124688 sp P13497.2	411	GSKLPEPIVSTDSR	LWVEFR	-39.538
>gi 13124688 sp P13497.2	417	PIVSTDSRLWVEFR	SSSNWV	-27.951
>gi 13124688 sp P13497.2	456	YGHIQSPNYPDDYR	PSKVICI	-44.409
>gi 13124688 sp P13497.2	464	YPDDYRPSKVICIWR	IQVSEG	-33.436
>gi 13124688 sp P13497.2	484	FHVGLTFQSFEIER	HDSCAY	-44.206
>gi 13124688 sp P13497.2	496	ERHDSCAYDYLEVR	DGHSES	-41.577
>gi 13124688 sp P13497.2	508	VRDGHSESSTLIGR	YCGYEK	-29.396
>gi 13124688 sp P13497.2	524	GYEKPDDIKSTSSR	LWLKFB	-29.497
>gi 13124688 sp P13497.2	553	FAVNFKEVDECSR	PNRGGC	-49.618
>gi 13124688 sp P13497.2	556	NFFKEVDECSRPNR	GGCEQR	-18.22
>gi 13124688 sp P13497.2	562	DECSRPNRGGCEQR	CLNTLG	-25.681
>gi 13124688 sp P13497.2	585	CSCDPGYELAPDKR	RCEAAC	-26.267
>gi 13124688 sp P13497.2	586	SCDPGYELAPDKRR	CEAACG	-23.974
>gi 13124688 sp P13497.2	628	KNCIWQLVAPTQYR	ISLQFD	-35.835
>gi 13124688 sp P13497.2	652	EGNDVCKYDFVEVR	SGLTAD	-29.822
>gi 13124688 sp P13497.2	682	EKPEVITSQYNNMR	VEFKSD	-40.884
>gi 13124688 sp P13497.2	730	DCVNTFGSYECQCR	SGFVLH	-39.344
>gi 13124688 sp P13497.2	784	KECTWAISSTPGHR	VKLTFM	-32.466
>gi 13124688 sp P13497.2	811	PECAYDHLEVFDGR	DAKAPV	-37.211

>gi 13124688 sp P13497.2	820	VFDGRDAKAPVLGR	FCGSKK	-20.365
>gi 13124688 sp P13497.2	836	GSKKPEPVLATGSR	MFLRFY	-33.036
>gi 13124688 sp P13497.2	840	PEPVLATGSRMFLR	FYSDNS	-24.67
>gi 13124688 sp P13497.2	849	RMFLRFYSDNSVQR	KGFQAS	-40.436
>gi 13124688 sp P13497.2	865	FQASHATECGGQVR	ADVTKK	-32.67
>gi 13124688 sp P13497.2	934	YMELFDGYDSTAPR	LGRYCG	-39.143
>gi 13124688 sp P13497.2	937	LFDGYDSTAPRLGR	YCGSGP	-4.699
>gi 13124688 sp P13497.2	972	HSDDTITKKGFHLR	YTSTKF	-20.848
>gi 13124688 sp P13497.2	985	RYTSTKFQDTLHSR	K----	-38.016
>gi 16554579 ref NP_00008	35	PLLLLLLWAPPPSR	AAQPAD	-23.618
>gi 16554579 ref NP_00008	65	PDGITKTTGFCATR	RSSKGP	-29.665
>gi 16554579 ref NP_00008	66	DGITKTTGFCATRR	SSKGPD	-20.314
>gi 16554579 ref NP_00008	76	ATRRSSKGPDVAYR	VTKDAQ	-36.403
>gi 16554579 ref NP_00008	134	NEQGIIQIGLELGR	SPVFLY	-27.727
>gi 16554579 ref NP_00008	156	HTGKPGPEDYPLFR	GINLSD	-41.106
>gi 16554579 ref NP_00008	167	LFRGINLSDGKWHR	IALSVH	-29.539
>gi 16554579 ref NP_00008	193	ILDCKKKTTKFLDR	SDHPMI	-26.577
>gi 16554579 ref NP_00008	210	PMIDINGIIVFGTR	ILDEEV	-37.403
>gi 16554579 ref NP_00008	231	EGDIQQLFVSDHR	AAYDYC	-31.763
>gi 16554579 ref NP_00008	410	ADDLEGEFTEETIR	NLDENY	-36.807
>gi 16554579 ref NP_00008	449	ANQDTIYEGIGGPR	GEKGQK	-29.559
>gi 16554579 ref NP_00008	498	TMGPTGQVGDPPER	GPPGRP	-41.869
>gi 16554579 ref NP_00008	503	GQVGDPPERGPPGR	PGLPGA	-25.266
>gi 16554579 ref NP_00008	525	LPGPPGTMLMLPFR	FGGGGD	-34.266
>gi 16554579 ref NP_00008	554	AQESQAQAILQQAR	LALRGP	-32.154
>gi 16554579 ref NP_00008	558	QAQAILQQARLALR	GPAGPM	-8.73
>gi 16554579 ref NP_00008	569	ALRGPAGPMGLTGR	PGVGP	-32.631
>gi 16554579 ref NP_00008	594	LKGEPGDVGPQGPR	GVQGPP	-19.465
>gi 16554579 ref NP_00008	608	GVQPPGPAGKPGR	RGRAGS	-10.877
>gi 16554579 ref NP_00008	609	VQPPGPAGKPGR	GRAGSD	-16.139
>gi 16554579 ref NP_00008	611	GPPGPAGKPGRGR	AGSDGA	1.167
>gi 16554579 ref NP_00008	618	KPGRRGRAGSDGAR	GMPGQT	-33.975
>gi 16554579 ref NP_00008	630	ARGMPGQTGPKGDR	GFDGLA	-27.246
>gi 16554579 ref NP_00008	645	FDGLAGLPGEKTHR	GDPGPS	-12.409
>gi 16554579 ref NP_00008	663	PSGPPGPPGDDGER	GDDGEV	-50.907
>gi 16554579 ref NP_00008	672	DDGERGDDGEVGPR	GLPGEP	-21.456
>gi 16554579 ref NP_00008	681	EVGPRGLPGEPPGR	GLLGP	-28.107
>gi 16554579 ref NP_00008	792	PPGPQGPYGPGR	GVKGAD	-28.686
>gi 16554579 ref NP_00008	801	YPGPRGVKGADGIR	GLKGTK	-32.326
>gi 16554579 ref NP_00008	828	FPGFKGDMGIKGR	GEIGPP	-30.659
>gi 16554579 ref NP_00008	837	IKGDRGEIGPPGR	GEDGPE	-28.727
>gi 16554579 ref NP_00008	848	GPRGEDGPEPKGR	GGPNGD	-30.706
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>gi 16554579 ref NP_00008	900	FPGFPGANGEKGGR	GTPGKP	-11.156
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>gi 16554579 ref NP_00008	912	GRGTPGKPGPRGQR	GPTGPR	5.296
>gi 16554579 ref NP_00008	918	KPGPRGQRGPTGPR	GERGPR	-29.767
>gi 16554579 ref NP_00008	921	PRGQRGPTGPRGER	GPRGIT	-17.126
>gi 16554579 ref NP_00008	924	QRGPTGPRGERGPR	GITGKP	-1.601
>gi 16554579 ref NP_00008	948	NSGGDGPAGPPGER	GPNGPQ	-33.2
>gi 16554579 ref NP_00008	981	PPGKDGLPGHPGQR	GETGFQ	-29.496
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>gi 16554579 ref NP_00008	1056	PAGLPGKDGPPGLR	GFPGDR	-27.278
>gi 16554579 ref NP_00008	1062	KDGPPGLRGFPGDR	GLPGPV	-35.424
>gi 16554579 ref NP_00008	1092	PPGPPGAGSPGER	GPAGAA	-33.633
>gi 16554579 ref NP_00008	1106	GPAGAAGPIGIPGR	PGPQGP	-31.656
>gi 16554579 ref NP_00008	1133	GAPGEKGPQGPAGR	DGLQGP	-28.097
>gi 16554579 ref NP_00008	1203	QPGPSGADGEPGPR	GQQGLF	-30.419
>gi 16554579 ref NP_00008	1218	QQGLFGQKGDEGPR	GFPGPP	-38.996
>gi 16554579 ref NP_00008	1257	DVGQMGPPGPPGPR	GPSGAP	-24.065
>gi 16554579 ref NP_00008	1298	GEPGEAGEPGPSGR	SGPPGP	-22.1
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>gi 16554579 ref NP_00008	1392	PTGEPGSPGPPGKR	GPPGPA	-17.264
>gi 16554579 ref NP_00008	1403	GKRGPAGPEGR	QGEKGA	-28.352
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>gi 16554579 ref NP_00008	1582	PGEVIQPLPIQASR	TRRNID	-30.706
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>gi 16554579 ref NP_00008	1627	SLNSLKLEIEQMKR	PLGTQQ	-25.512
>gi 16554579 ref NP_00008	1637	QMKRPLGTQQNPAR	TCKDLQ	-35.835
>gi 16554579 ref NP_00008	1664	DGEYVDPNQGCSR	DSFKVY	-33.378
>gi 16554579 ref NP_00008	1691	STCVFPDKKSEGAR	ITSWPK	-27.935
>gi 16554579 ref NP_00008	1709	PKENPGSWFSEFKR	GKLLSY	-23.763
>gi 16554579 ref NP_00008	1732	EGNPVGVVQMTFLR	LLSASA	-36.531
>gi 16554579 ref NP_00008	1765	WQDAATGSYDKALR	FLGSND	-13.458
>gi 16554579 ref NP_00008	1783	NDEEMSYDNNPYIR	ALVDGC	-32.107
>gi 81871160 sp Q810Y4.1	23	GGGTQDPGAGCGAR	ALGALC	-23.734
>gi 81871160 sp Q810Y4.1	53	CLLLGAQAAALHGR	VAALEQ	-31.61
>gi 81871160 sp Q810Y4.1	61	AALHGRVAALEQER	ELLRRA	-35.864
>gi 81871160 sp Q810Y4.1	65	GRVAALEQERELLR	RAGPSG	-26.856
>gi 81871160 sp Q810Y4.1	66	RVAALEQERELLRR	AGPSGA	1.492
>gi 81871160 sp Q810Y4.1	83	SGALAAWAETHLER	LLREKL	-42.26
>gi 81871160 sp Q810Y4.1	86	LAAWAETHLERLLR	EKLDGV	-4.856
>gi 81871160 sp Q810Y4.1	96	RLLREKLDGVAKLR	TVREAP	-26.604
>gi 81871160 sp Q810Y4.1	114	APSECICPPGPPGR	RGKPGR	-28.755
>gi 81871160 sp Q810Y4.1	115	PSECICPPGPPGRR	GKPGRR	-17.366

>gi 81871160 sp Q810Y4.1	120	CPPGPPGRRGKPGR	RGDPGP	-0.789
>gi 81871160 sp Q810Y4.1	121	PPGPPGRRGKPGRR	GDPGPP	-13.825
>gi 81871160 sp Q810Y4.1	132	GRRGDGPPGQSGR	DGYPGP	-21.525
>gi 81871160 sp Q810Y4.1	163	PKGEKGAPGDFGPR	GAQGQD	-30.04
>gi 81871160 sp Q810Y4.1	184	AAGPPGPPGPPGAR	GPPGDT	-24.664
>gi 81871160 sp Q810Y4.1	196	ARGPPGDTGKDGP	GAQGPE	-20.348
>gi 81871160 sp Q810Y4.1	205	KDGPRGAQGPEGPR	GESGQD	-32.843
>gi 81871160 sp Q810Y4.1	286	EPGHPGTDGAIGPR	GPPGLK	-17.75
>gi 81871160 sp Q810Y4.1	306	GEQGDTVVIDYDGR	ILDALK	-42.664
>gi 81871160 sp Q810Y4.1	439	LDGAKGEKGASGER	GPHGLP	-33.91
>gi 81871160 sp Q810Y4.1	465	GLIGLPGTKGEKGR	PGEPGL	-27.203
>gi 81871160 sp Q810Y4.1	478	RPGEPLDGFPGPR	GEKGDR	-31.563
>gi 81871160 sp Q810Y4.1	484	LDGFPGPRGEKGDR	SERGEK	-32.405
>gi 81871160 sp Q810Y4.1	487	FPGPRGEKGRSER	GEKGER	-26.378
>gi 81871160 sp Q810Y4.1	493	EKGDRSERGEKGER	GVPGRK	-26.066
>gi 81871160 sp Q810Y4.1	498	SERGEKGERGVPGR	KGVKGQ	-21.75
>gi 38570075 ref NP_94201	29	RSEDPTPAEQHCAR	TMPPCA	-42.187
>gi 38570075 ref NP_94201	62	CLYLGVKTNLQAR	IAALES	-38.201
>gi 38570075 ref NP_94201	95	LDHLKTMVQEKVER	LLAQKS	-35.183
>gi 38570075 ref NP_94201	109	LLAQSIEHMAKIR	IAREAP	-32.255
>gi 38570075 ref NP_94201	128	PSECNCPPGPPGKR	GKRGRR	-17.536
>gi 38570075 ref NP_94201	131	CNCPPGPPGKRGR	GRRGES	10.949
>gi 38570075 ref NP_94201	133	CPAGPPGKRGRGR	RGESGP	0.438
>gi 38570075 ref NP_94201	134	PAGPPGKRGRGRR	GESGPP	8.49
>gi 38570075 ref NP_94201	164	PKGDKGEQGDQGPR	MVFPKI	-29.36
>gi 38570075 ref NP_94201	184	NHGFLSADQQLIKR	RLIKGD	-20.771
>gi 38570075 ref NP_94201	185	HGFLSADQQLIKRR	LIKGDQ	-15.42
>gi 38570075 ref NP_94201	206	QAGPPGPPGPPGPR	GPPGDT	-24.11
>gi 38570075 ref NP_94201	218	PRGPPGDTGKDGP	GMPGVP	-28.864
>gi 38570075 ref NP_94201	321	SAAGIKGEPGESGR	PGQKGE	-31.677
>gi 38570075 ref NP_94201	364	EPGLPGLPGTKGER	GEAGPP	-31.834
>gi 38570075 ref NP_94201	372	GTKGERGEAGPPGR	GERGEP	-30.335
>gi 38570075 ref NP_94201	375	GERGEAGPPGRGER	GEPGAP	-22.834
>gi 38570075 ref NP_94201	393	APGPKGKQGESGTR	GPKGSK	-31.041
>gi 38570075 ref NP_94201	402	ESGTRGPKGSKGDR	GEKGDS	-28.479
>gi 38570075 ref NP_94201	414	DRGEKGDGAQGPR	GPPGQK	-19.904
>gi 38570075 ref NP_94201	441	IIDYNGNLHEALQR	ITTLTV	-33.987
>gi 38570075 ref NP_94201	570	PMGPHGPAGPKGER	GEKGAM	-30.469
>gi 38570075 ref NP_94201	582	ERGEKGAMGEPGPR	GPYGLP	-29.248
>gi 38570075 ref NP_94201	603	KDGEPGLDGFPGPR	GEKGD	-31.563
>gi 38570075 ref NP_94201	618	EKGDLEKGEKGF	GVKGEK	-13.453
>gi 2498284 sp Q14118.1 D	40	AQSHWPSEPSEAVR	DWENQL	-30.848
>gi 2498284 sp Q14118.1 D	76	TVVGIPDGTAVVGR	SFRVTI	-20.671

>gi 2498284 sp Q14118.1 D	79	GIPDGTAVVGRSFR	VTIPTD	-21.552
>gi 2498284 sp Q14118.1 D	137	TDKGVHYISVSATR	LGANGS	-34.994
>gi 2498284 sp Q14118.1 D	168	EVYPEDHSDLQSVR	TASPD	-32.41
>gi 2498284 sp Q14118.1 D	207	ILDADLTkMTPKQR	IDLLHR	-34.507
>gi 2498284 sp Q14118.1 D	213	TKMTPKQRIDLLHR	MRSFSE	-35.725
>gi 2498284 sp Q14118.1 D	215	MTPKQRIDLLHRMR	SFSEVE	-12.409
>gi 2498284 sp Q14118.1 D	234	ELHNMKLVVNNR	LFDMSA	-30.419
>gi 2498284 sp Q14118.1 D	282	NSVPDIHGVEAPAR	EGAMSA	-32.063
>gi 2498284 sp Q14118.1 D	309	GWHIANKKPPLPKR	VRRQIH	-24.813
>gi 2498284 sp Q14118.1 D	311	HIANKKPPLPKRVR	RQIHAT	-9.178
>gi 2498284 sp Q14118.1 D	337	IGPPTAIQEPSR	IVPTPT	-38.588
>gi 2498284 sp Q14118.1 D	359	AIAPPTETMAPPVR	DPVPGK	-28.974
>gi 2498284 sp Q14118.1 D	371	VRDPVPGKPTVTIR	TRGAI	-31.394
>gi 2498284 sp Q14118.1 D	373	DPVPGKPTVTIRTR	GAIQT	-18.58
>gi 2498284 sp Q14118.1 D	389	IIQTPTLGPQPTR	VSEAGT	-27.57
>gi 2498284 sp Q14118.1 D	402	RVSEAGTTVPGQIR	PTMTIP	-32.587
>gi 2498284 sp Q14118.1 D	428	AVATPPTTTTKKPR	VSTPKP	-18.225
>gi 2498284 sp Q14118.1 D	447	PATPSTDSTTTTR	RPTKKP	-26.142
>gi 2498284 sp Q14118.1 D	448	ATPSTDSTTTTRR	PTKKPR	-16.838
>gi 2498284 sp Q14118.1 D	454	STTTTRRPTKKPR	TPRPVP	-2.758
>gi 2498284 sp Q14118.1 D	457	TTTRRPTKKPRTPR	PVPRVT	10.302
>gi 2498284 sp Q14118.1 D	461	RPTKKPRTPRPVPR	VTTKVS	-19.594
>gi 2498284 sp Q14118.1 D	470	RPVPRVTTKVSITR	LETASP	-29.404
>gi 2498284 sp Q14118.1 D	479	VSITRLETASPPTR	IRTTTS	-33.139
>gi 2498284 sp Q14118.1 D	481	ITRLETASPPTRIR	TTTSGV	-31.468
>gi 2498284 sp Q14118.1 D	489	PPTRIRTTTSGVPR	GGEPNQ	-21.999
>gi 2498284 sp Q14118.1 D	496	TTSGVPRGGEPNQR	PELKNH	-39.177
>gi 2498284 sp Q14118.1 D	505	EPNQRPELKNHIDR	VDWVG	-31.364
>gi 2498284 sp Q14118.1 D	541	DTTDDKLLTLKLR	EQQLVG	-24.396
>gi 2498284 sp Q14118.1 D	597	GLSAVDAFEIHVHR	RPQGDR	-17.13
>gi 2498284 sp Q14118.1 D	598	LSAVDAFEIHVHRR	PQGDRA	-4.469
>gi 2498284 sp Q14118.1 D	603	AFEIHVHRRPQGDR	APARFK	-22.966
>gi 2498284 sp Q14118.1 D	607	HVHRRPQGDRA	FKAKFV	-22.272
>gi 2498284 sp Q14118.1 D	640	IALVKKLAFAFGDR	NCSTIT	-43.066
>gi 2498284 sp Q14118.1 D	652	DRNCSTITLQNTR	GSIVVE	-27.207
>gi 2498284 sp Q14118.1 D	679	LEPCPKEQIAGLSR	RIAEDD	-32.342
>gi 2498284 sp Q14118.1 D	680	EPCPKEQIAGLSRR	IAEDDG	-17.812
>gi 2498284 sp Q14118.1 D	689	GLSRRIAEDDGKPR	PAFSNA	-37.525
>gi 2498284 sp Q14118.1 D	714	KATSITVTGSGSCR	HLQFIP	-28.973
>gi 2498284 sp Q14118.1 D	725	SCRHLQFIPVPPR	RVPSEA	-18.322
>gi 2498284 sp Q14118.1 D	726	CRHLQFIPVPPRR	VPSEAP	-23.331
>gi 2498284 sp Q14118.1 D	739	RVPSEAPTEVPDR	DPEKSS	-33.68
>gi 2498284 sp Q14118.1 D	776	ILLIAGIIMICYR	KKRKGK	-40.447

>gi 2498284 sp Q14118.1 D	779	IAGIIMICYRKKR	KGKLT	-24.058
>gi 2498284 sp Q14118.1 D	854	PLNQDTMGEYTPLR	DEDPNA	-41.943
>gi 2498284 sp Q14118.1 D	879	PPPFTVPMEGKGSR	PKNMTP	-17.746
>gi 2498284 sp Q14118.1 D	887	EGKGSRPKNMTPYR	SPPPYV	-31.701
>gi 134635 sp P08294 SODE	36	DSAEPNSDSAEWIR	DMYAKV	-40.547
>gi 134635 sp P08294 SODE	52	YAKVTEIWQEVMQR	RDDDGT	-30.614
>gi 134635 sp P08294 SODE	53	AKVTEIWQEVMQRR	DDDGT	-21.611
>gi 134635 sp P08294 SODE	77	QVQPSATLDAAQPR	VTGVVL	-35.065
>gi 134635 sp P08294 SODE	85	DAAQPRVTGVVLF	QLAPRA	-22.235
>gi 134635 sp P08294 SODE	90	RVTGVVLFRLAPR	AKLDAF	-11.525
>gi 134635 sp P08294 SODE	111	ALEGFTEPNSSSR	AIHVDH	-23.126
>gi 134635 sp P08294 SODE	152	HPQHGFDFGNFAVR	DGSLWR	-28.652
>gi 134635 sp P08294 SODE	158	DFGNFAVRDGLWR	YRAGLA	-41.613
>gi 134635 sp P08294 SODE	160	GNFAVRDGLWR	AGLAAS	-28.853
>gi 134635 sp P08294 SODE	176	LAASLAGPHSIVGR	AVVHA	-5.343
>gi 134635 sp P08294 SODE	189	RAVVHAGEDDLGR	GGNQAS	-48.711
>gi 134635 sp P08294 SODE	203	GGNQASVENGAGR	RLACCV	-31.03
>gi 134635 sp P08294 SODE	204	GNQASVENGAGR	LACCV	-22.944
>gi 134635 sp P08294 SODE	220	CCVVGCGPGLWER	QAREHS	-34.54
>gi 134635 sp P08294 SODE	223	VGVCGPGLWERQAR	EHSERK	-24.206
>gi 134635 sp P08294 SODE	228	PGLWERQAREHSER	KKRRRE	-29.667
>gi 134635 sp P08294 SODE	232	ERQAREHSERKRR	RESECK	2.447
>gi 134635 sp P08294 SODE	233	RQAREHSERKRRR	ESECKA	14.803
>gi 544279 sp P35555.1 FB	38	ADANLEAGNVKETR	ASRAKR	-17.164
>gi 544279 sp P35555.1 FB	41	NLEAGNVKETRASR	AKRRGG	-6.967
>gi 544279 sp P35555.1 FB	44	AGNVKETRASRAKR	RGGGGH	9.818
>gi 544279 sp P35555.1 FB	45	GNVKETRASRAKRR	GGGGHD	-8.461
>gi 544279 sp P35555.1 FB	62	GHDALKGPNVCGSR	YNAYCC	-33.641
>gi 544279 sp P35555.1 FB	86	TLPGGNQCIVPICR	HSCGDG	-37.146
>gi 544279 sp P35555.1 FB	96	PICRHSCGDGFCSR	PNMCTC	-43.919
>gi 544279 sp P35555.1 FB	114	TCPSGQIAPSCGSR	SIQHCN	-23.531
>gi 544279 sp P35555.1 FB	122	PSCGSRSIQHCNIR	CMNGGS	-37.466
>gi 544279 sp P35555.1 FB	159	GQPVCEGCLNGGR	CVAPNR	-35.571
>gi 544279 sp P35555.1 FB	165	SGCLNGGRCVAPNR	CACTYG	-33.602
>gi 544279 sp P35555.1 FB	179	CACTYGFTGPQCER	DYRTGP	-41.961
>gi 544279 sp P35555.1 FB	182	TYGFTGPQCERDYR	TGPCFT	-40.005
>gi 544279 sp P35555.1 FB	215	IVCTKQLCCATVGR	AWGHPC	-35.41
>gi 544279 sp P35555.1 FB	232	HPCEMCPAQPHPCR	RGFIPN	-31.789
>gi 544279 sp P35555.1 FB	233	PCEMCPAQPHPCR	GFIPNI	-22.843
>gi 544279 sp P35555.1 FB	240	QPHPCRRTGFIPNIR	TGACQD	-35.475
>gi 544279 sp P35555.1 FB	327	KCPPGFYTS PDGTR	CIDVRP	-31.515
>gi 544279 sp P35555.1 FB	332	FYTS PDGTRCIDVR	PGYCYT	-31.771
>gi 544279 sp P35555.1 FB	344	VRPGYCYTALTNGR	CSNQLP	-27.147

>gi 544279 sp P35555.1 FB	364	QSITKMQCCCDAGR	CWSPGV	-44.759
>gi 544279 sp P35555.1 FB	380	SPGVTVAPEMCPIR	ATEDFN	-38.622
>gi 544279 sp P35555.1 FB	398	FNKLCVPMVIPGR	PEYPPP	-33.435
>gi 544279 sp P35555.1 FB	429	PPGFPPGPQIPVPR	PPVEYL	-27.992
>gi 544279 sp P35555.1 FB	439	PVPRPPVEYLPSR	EPPRVL	-28.596
>gi 544279 sp P35555.1 FB	443	PPVEYLPSREPPR	VLPVNV	-25.277
>gi 544279 sp P35555.1 FB	457	VLPVNVTDYCQLVR	YLCQNG	-33.032
>gi 544279 sp P35555.1 FB	464	DYCQLVRYLCQNGR	CIPTPG	-31.992
>gi 544279 sp P35555.1 FB	473	CQNGRCIPTPGSYR	CECNKG	-34.751
>gi 544279 sp P35555.1 FB	485	YRCECNKGFQLDLR	GECIDV	-40.589
>gi 544279 sp P35555.1 FB	516	ECINNQGSYTCQCR	AGYQST	-34.097
>gi 544279 sp P35555.1 FB	525	TCQCRAQYQSTLTR	TECRDI	-36.84
>gi 544279 sp P35555.1 FB	529	RAGYQSTLTRTECR	DIDDECL	-23.244
>gi 544279 sp P35555.1 FB	539	TECRDIDDECLQNGR	ICNNGR	-38.652
>gi 544279 sp P35555.1 FB	545	DECLQNGRICNNGR	CINTDG	-38.163
>gi 544279 sp P35555.1 FB	565	SFHCVNAGFHVTR	DGKNCE	-12.521
>gi 544279 sp P35555.1 FB	579	DGKNCEDMDECSIR	NMCLNG	-48.026
>gi 544279 sp P35555.1 FB	609	CICKPGFQLASDGR	YCKDIN	-36.254
>gi 544279 sp P35555.1 FB	627	INECETPGICMNGR	CVNTDG	-36.837
>gi 544279 sp P35555.1 FB	636	CMNGRCVNTDGSYR	CECFPG	-42.323
>gi 544279 sp P35555.1 FB	650	CECFPGLAVGLDGR	VCVDTH	-38.822
>gi 544279 sp P35555.1 FB	658	VGLDGRVCVDTHMR	STCYGG	-35.894
>gi 544279 sp P35555.1 FB	667	DTHMRSTCYGGYKR	GQCIKP	-20.987
>gi 544279 sp P35555.1 FB	743	DPDICPNGICENLR	GTYKCI	-42.059
>gi 544279 sp P35555.1 FB	782	CVLNSLLCDNGQCR	NTPGSF	-39.296
>gi 544279 sp P35555.1 FB	861	TIKGTCWQTVIDGR	CEININ	-33.278
>gi 544279 sp P35555.1 FB	902	LCQVDPICGKGYSR	IKGTQC	-30.059
>gi 544279 sp P35555.1 FB	930	FPGVCKNGLCVNTR	GSFKCQ	-25.993
>gi 544279 sp P35555.1 FB	948	CQCPSGMTLDATGR	ICLDIR	-41.743
>gi 544279 sp P35555.1 FB	954	MTLDATGRICLDIR	LET CFL	-38.95
>gi 544279 sp P35555.1 FB	961	RICLDIRLET CFL	YEDEEC	-42.514
>gi 544279 sp P35555.1 FB	974	RYEDEECTLPIAGR	HRMDAC	-25.021
>gi 544279 sp P35555.1 FB	976	EDEECTLPIAGRHR	MDACCC	-31.197
>gi 544279 sp P35555.1 FB	999	AAWGTEECECPMR	NTPEYE	-44.318
>gi 544279 sp P35555.1 FB	1010	PMRNTPEYEELCPR	GPGFAT	-41.295
>gi 544279 sp P35555.1 FB	1045	CKMIPSLCTHGKCR	NTIGSF	-28.469
>gi 544279 sp P35555.1 FB	1054	HGKCRNTIGSFKCR	CDSGFA	-30.141
>gi 544279 sp P35555.1 FB	1066	CRCDSGFALDSEER	NCTDID	-47.527
>gi 544279 sp P35555.1 FB	1075	DSEERNCTDIDECR	ISPDLC	-50.348
>gi 544279 sp P35555.1 FB	1083	DIDECRISPDLCGR	GQCVNT	-38.63
>gi 544279 sp P35555.1 FB	1119	MMMKNCMDIDECQR	DPLLCR	-48.045
>gi 544279 sp P35555.1 FB	1125	MDIDECQRDPLLCR	GGVCHN	-37.864
>gi 544279 sp P35555.1 FB	1137	CRGGVCHNTEGSYR	CECPPG	-40.332

>gi 544279 sp P35555.1 FB	1170	NECELSAHLCPNGR	CVNLIG	-32.849
>gi 544279 sp P35555.1 FB	1192	QCACNPGYHSTPDR	LFCVDI	-41.878
>gi 544279 sp P35555.1 FB	1234	CSCQPGFALMPDQR	SCTDID	-32.836
>gi 544279 sp P35555.1 FB	1262	CDGGQCTNIPGEYR	CLCYDG	-36.324
>gi 544279 sp P35555.1 FB	1388	SQHADCKNTMGSYR	CLCKEG	-28.724
>gi 544279 sp P35555.1 FB	1428	CGNGQCLNAPGGYR	CECDMG	-37.871
>gi 544279 sp P35555.1 FB	1469	CVFGTCHNLPGLFR	CECEIG	-37.071
>gi 544279 sp P35555.1 FB	1480	LFRCCEIGYELDR	SGGNCT	-43.871
>gi 544279 sp P35555.1 FB	1523	ICDCPPDFELNPTR	VGCVDT	-41.179
>gi 544279 sp P35555.1 FB	1530	FELNPTRVGCVDTR	SGNCYL	-31.043
>gi 544279 sp P35555.1 FB	1539	CVDTRSGNCYLDIR	PRGDNG	-36.363
>gi 544279 sp P35555.1 FB	1541	DTRSGNCYLDIRPR	GDNGDT	-23.513
>gi 544279 sp P35555.1 FB	1596	SEYKILCPGGEGFR	PNPITV	-40.43
>gi 544279 sp P35555.1 FB	1632	GGKCINTFGSFQCR	CPTGY Y	-30.265
>gi 544279 sp P35555.1 FB	1644	CRCPTGYL NEDTR	VCDDVN	-42.791
>gi 544279 sp P35555.1 FB	1691	YMQVNGGNNC MDMR	RSLCYR	-39.497
>gi 544279 sp P35555.1 FB	1692	MQVNGGNNC MDMRR	SLCYRN	-24.511
>gi 544279 sp P35555.1 FB	1697	GNNC MDMRRSLCYR	NYYADN	-26.473
>gi 544279 sp P35555.1 FB	1727	MTKKMCCCSYNIGR	AWNKPC	-34.075
>gi 544279 sp P35555.1 FB	1752	PSTDEFATLCGSQR	PGFVID	-36.274
>gi 544279 sp P35555.1 FB	1771	DIYGLPVDIDECR	EIPGVC	-45.619
>gi 544279 sp P35555.1 FB	1790	CENGVCINMVG SFR	CECPVG	-39.49
>gi 544279 sp P35555.1 FB	1820	EDIDECQNGPVCQR	NAECIN	-23.747
>gi 544279 sp P35555.1 FB	1832	QRNAECINTAGSYR	CDCKPG	-29.95
>gi 544279 sp P35555.1 FB	1840	TAGSYRCDCKPGYR	FTSTGQ	-30.38
>gi 544279 sp P35555.1 FB	1850	PGYRFTSTGQC NDR	NECQEI	-44.951
>gi 544279 sp P35555.1 FB	1897	DDQTMCLDINE CER	DACGNG	-47.687
>gi 544279 sp P35555.1 FB	1906	NECERDACGNGT CR	NTIGSF	-30.556
>gi 544279 sp P35555.1 FB	1915	NGTCRNTIGSFN CR	CNHGFI	-33.378
>gi 544279 sp P35555.1 FB	1943	DVDECASGNGNL CR	NGQCIN	-35.701
>gi 544279 sp P35555.1 FB	1969	CQCNEG YEVAPDGR	TCVDIN	-36.734
>gi 544279 sp P35555.1 FB	1982	RTCVDINECLLE PR	KCAPGT	-38.979
>gi 544279 sp P35555.1 FB	1997	CAPGTCQNL DGSYR	CICPPG	-36.022
>gi 544279 sp P35555.1 FB	2051	CLCPEGFSLSSSGR	RCQDLR	-28.853
>gi 544279 sp P35555.1 FB	2052	LCPEGFSLSSSGRR	CQDLRM	-18.02
>gi 544279 sp P35555.1 FB	2057	FSLSSSGRRRCQDLR	MSYCYA	-29.954
>gi 544279 sp P35555.1 FB	2076	AKFEGGKCSSPKSR	NHSKQE	-28.704
>gi 544279 sp P35555.1 FB	2108	PCELCPT EPDEAFR	QICPYG	-42.967
>gi 544279 sp P35555.1 FB	2150	CKHGQCINTDGSYR	CECPFG	-42.999
>gi 544279 sp P35555.1 FB	2220	INECAQNPLLCAFR	CVNTYG	-31.418
>gi 544279 sp P35555.1 FB	2239	GSYECKCPVGYVLR	EDRRMC	-26.407
>gi 544279 sp P35555.1 FB	2242	ECKCPVGYVLR EDR	RMCKDE	-28.877
>gi 544279 sp P35555.1 FB	2243	CKCPVGYVLR EDRR	MCKDED	-23.017

>gi 544279 sp P35555.1 FB	2282	IGTYMCICGPGYQR	RPDGEG	-29.429
>gi 544279 sp P35555.1 FB	2283	GTYMCICGPGYQRR	PDGEGC	-18.922
>gi 544279 sp P35555.1 FB	2306	NECQTKPGICENGR	CLNTRG	-40.749
>gi 544279 sp P35555.1 FB	2311	KPGICENGRCLNTR	GSYTCE	-26.068
>gi 544279 sp P35555.1 FB	2335	FTASPNQDECLDNR	EGYCFT	-45.64
>gi 544279 sp P35555.1 FB	2355	EVLQNMCIQIGSSNR	NPVTKS	-33.042
>gi 544279 sp P35555.1 FB	2369	NPVTKSECCDGGGR	GWGPHC	-44.6
>gi 544279 sp P35555.1 FB	2394	QGTVAFKKLCPHGR	GFMTNG	-36.233
>gi 544279 sp P35555.1 FB	2414	ADIDECKVIHDVCR	NGECVN	-41.557
>gi 544279 sp P35555.1 FB	2422	IHDVCRNGECVNDR	GSYHCI	-43.678
>gi 544279 sp P35555.1 FB	2481	CSCPKEYILQEDGR	SCKDLD	-37.338
>gi 544279 sp P35555.1 FB	2554	CQNTPGSFTCECQR	GFSLDQ	-44.62
>gi 544279 sp P35555.1 FB	2576	SSCEDVDECEGNHR	CQHGCQ	-38.792
>gi 544279 sp P35555.1 FB	2589	RCQHGCQNIIGGYR	CSCPQG	-36.928
>gi 544279 sp P35555.1 FB	2680	EGGYLCGCPPGYFR	IGQGHC	-40.498
>gi 544279 sp P35555.1 FB	2694	IGQGHCVSGMGMGR	GNPEPP	-30.15
>gi 544279 sp P35555.1 FB	2726	EACYECKINGYPKR	GRKRRS	-20.59
>gi 544279 sp P35555.1 FB	2728	CYECKINGYPKRGR	KRRSTN	-25.872
>gi 544279 sp P35555.1 FB	2730	ECKINGYPKRGRKR	RSTNET	-7.628
>gi 544279 sp P35555.1 FB	2776	IFAFNISHVSNKVR	ILELLP	-31.63
>gi 544279 sp P35555.1 FB	2792	ELLPALTTLTNHNHNR	YLIESG	-31.032
>gi 11467963 sp P26006.3	38	AGGCVVSAFNLDR	FLVVKE	-35.922
>gi 11467963 sp P26006.3	60	NPGSLFGYSVALHR	QTERQQ	-23.321
>gi 11467963 sp P26006.3	64	LFYGSVALHRQTER	QQRILL	-21.781
>gi 11467963 sp P26006.3	67	YSVALHRQTERQQR	YLLLAG	-14.034
>gi 11467963 sp P26006.3	76	ERQQRILLLAGAPR	ELAVPD	-22.291
>gi 11467963 sp P26006.3	87	APRELAVPDGYTNR	TGAVYL	-41.305
>gi 11467963 sp P26006.3	105	YLCPLTAHKDDCER	MNITVK	-50.86
>gi 11467963 sp P26006.3	136	WLGVTVASQGPAGR	VLVCAH	-35.165
>gi 11467963 sp P26006.3	143	SQGPAGRVLVCAHR	YTQVLW	-27.623
>gi 11467963 sp P26006.3	156	RYTQVLWVSGSEDQR	RMVGGK	-43.102
>gi 11467963 sp P26006.3	157	YTQVLWVSGSEDQRR	MVGGKY	-22.945
>gi 11467963 sp P26006.3	165	SEDQRRMVGGKCYVR	GNDLEL	-24.393
>gi 11467963 sp P26006.3	229	GAYNWKGNYSYMIQR	KEWDLS	-41.759
>gi 11467963 sp P26006.3	274	LHPKNITIVTGAPR	HRHMGA	-30.959
>gi 11467963 sp P26006.3	276	PKNITIVTGAPRHR	HMGAVF	-30.536
>gi 11467963 sp P26006.3	293	AVFLLSQEAGGDLR	RRQVLE	-34.526
>gi 11467963 sp P26006.3	294	VFLLSQEAGGDLRR	RQVLEG	-22.23
>gi 11467963 sp P26006.3	295	FLLSQEAGGDLRRR	QVLEGS	-19.627
>gi 11467963 sp P26006.3	334	WQDLLVGAPYYFER	KEEVGG	-44.289
>gi 11467963 sp P26006.3	411	KVYIYHSSSKGLLR	QPQQVI	-19.792
>gi 11467963 sp P26006.3	461	LLVGSLSDHIVLLR	ARPVIN	-9.781
>gi 11467963 sp P26006.3	463	VGSLSDHIVLLRAR	PVINIV	-26.865

>gi 11467963 sp P26006.3	476	RPVINIVHKTLVPR	PAVLDP	-11.375
>gi 11467963 sp P26006.3	509	CFAYNQSAGNPNYR	RNITLA	-35.922
>gi 11467963 sp P26006.3	510	FAYNQSAGNPNYRR	NITLAY	-21.707
>gi 11467963 sp P26006.3	522	RRNITLAYTLEADR	DRRPPR	-42.38
>gi 11467963 sp P26006.3	524	NITLAYTLEADRDR	RPPRLR	-49.636
>gi 11467963 sp P26006.3	525	ITLAYTLEADRDRR	PPRLRF	-1.149
>gi 11467963 sp P26006.3	528	AYTLEADRDRRPPR	LRFAGS	-17.708
>gi 11467963 sp P26006.3	530	TLEADRDRRPPRLR	FAGSES	-14.239
>gi 11467963 sp P26006.3	549	SAVFHGGFFSMPEMR	CQKLEL	-35.361
>gi 11467963 sp P26006.3	562	RCQKLELLMDNLR	DKLRPI	-33.601
>gi 11467963 sp P26006.3	566	LELLMDNLRDKLR	PIIISM	-24.004
>gi 11467963 sp P26006.3	579	RPIIISMNYSPLR	MPDRPR	-29.073
>gi 11467963 sp P26006.3	583	ISMNYSPLRMPDR	PRLGLR	-33.393
>gi 11467963 sp P26006.3	585	MNYSPLRMPDRPR	LGLRSL	-38.341
>gi 11467963 sp P26006.3	589	LPLRMPDRPRLGLR	SLDAYP	1.599
>gi 11467963 sp P26006.3	628	CGPDNKCESNLQMR	AAFVSE	-26.354
>gi 11467963 sp P26006.3	641	RAAFVSEQQQKLSR	LQYSRD	-26.928
>gi 11467963 sp P26006.3	646	SEQQKLSRLQYSR	DVRKLL	-15.696
>gi 11467963 sp P26006.3	649	QQKLSRLQYSRDVR	KLLLSI	-24.241
>gi 11467963 sp P26006.3	661	VRKLLSINVTNTR	TSERSG	-33.911
>gi 11467963 sp P26006.3	665	LLSINVTNTRTSE	SGEDAH	-22.889
>gi 11467963 sp P26006.3	689	TLVPPALLSSVR	PPGACQ	-29.338
>gi 11467963 sp P26006.3	710	NETIFCELGNPFKR	NQRMEL	-19.798
>gi 11467963 sp P26006.3	713	IFCELGNPFKRNR	MELLIA	-20.641
>gi 11467963 sp P26006.3	730	LIAFEVIGVTLHTR	DLQVQL	-26.938
>gi 11467963 sp P26006.3	770	DYTLQTSLSMVNHR	LQSFFG	-29.191
>gi 11467963 sp P26006.3	847	TEITVHGNGSWPCR	PPGDLI	-33.299
>gi 11467963 sp P26006.3	866	INPLNLTLSDPGDR	PSSPQR	-44.847
>gi 11467963 sp P26006.3	872	TLSDPGDRPSSPQR	RRRQLD	-28.093
>gi 11467963 sp P26006.3	873	LSDPGDRPSSPQRR	RRQLDP	-16.681
>gi 11467963 sp P26006.3	874	SDPGDRPSSPQRRR	RQLDPG	-13.701
>gi 11467963 sp P26006.3	908	KAKSETVLTACATGR	AHCVWL	-37.134
>gi 11467963 sp P26006.3	932	PDAPVVTNVTVKAR	VWNSTF	-28.136
>gi 11467963 sp P26006.3	943	KARVWNSTFIEDYR	DFDRVR	-43.473
>gi 11467963 sp P26006.3	947	WNSTFIEDYRDFDR	VRVNGW	-40.827
>gi 11467963 sp P26006.3	949	STFIEDYRDFDRVR	VNGWAT	-45.203
>gi 11467963 sp P26006.3	959	DRVRVNGWATLFLR	TSIPTI	-32.669
>gi 11467963 sp P26006.3	1021	LIILLWKCGFFKR	TRYQI	-32.701
>gi 11467963 sp P26006.3	1023	ILLLWKCGFFKRTR	YYQIMP	-20.039
>gi 11467963 sp P26006.3	1035	TRYQIIMPKYHAVR	IREEER	-27.77
>gi 11467963 sp P26006.3	1037	YYQIIMPKYHAVRIR	EEERYP	-15.234
>gi 11467963 sp P26006.3	1041	MPKYHAVRIREEER	YPPPGS	-37.643
>gi 11467963 sp P26006.3	1062	LPTKKHWVTSWQTR	DQYY--	-24.23

>gi 124945 sp P13612.1 IT	23	GKRGANPGPEAAVR	ETVMLL	-30.273
>gi 124945 sp P13612.1 IT	38	TVMLLLCLGVPTGR	PYNVDT	-34.046
>gi 124945 sp P13612.1 IT	71	FGYSVVLHSHGANR	WLLVGA	-33.382
>gi 124945 sp P13612.1 IT	96	LANASVINPGAIYR	CRIGKN	-33.321
>gi 124945 sp P13612.1 IT	98	NASVINPGAIYRCR	IGKNPG	-37.469
>gi 124945 sp P13612.1 IT	128	PNGEPCGKTCLEER	DNQWLG	-43.822
>gi 124945 sp P13612.1 IT	139	EERDNQWLVGVTLSR	QPGENG	-25.046
>gi 124945 sp P13612.1 IT	153	QPGENGSIIVTCGHR	WKNIFY	-34.912
>gi 124945 sp P13612.1 IT	179	LPTGGCYGVPPDLR	TELSKR	-37.503
>gi 124945 sp P13612.1 IT	185	YGVPPDLRTELSKR	IAPCYQ	-23.533
>gi 124945 sp P13612.1 IT	267	GSYLGYSVGAGHFR	SQHTTE	-28.749
>gi 124945 sp P13612.1 IT	340	SDLLVGAPMQSTIR	EEGRVF	-38.714
>gi 124945 sp P13612.1 IT	344	VGAPMQSTIREEGR	VFVYIN	-37.779
>gi 124945 sp P13612.1 IT	373	METNLVGS DKYAAR	FGESIV	-26.806
>gi 124945 sp P13612.1 IT	412	EDDLQGAIYIYNGR	ADGISS	-30.308
>gi 124945 sp P13612.1 IT	423	NGRADGISSTFSQR	IEGLQI	-37.495
>gi 124945 sp P13612.1 IT	460	DNNGYVDVAVGAFR	SDSAVL	-30.01
>gi 124945 sp P13612.1 IT	468	AVGAFRSDSAVLLR	TRPVVI	-27.265
>gi 124945 sp P13612.1 IT	470	GAFRSDSAVLLRTR	PVVIVD	-27.783
>gi 124945 sp P13612.1 IT	487	IVDASLSHPESVNR	TKFDCV	-38.251
>gi 124945 sp P13612.1 IT	531	YIVLFYNMSLDVNR	KAESPP	-36.406
>gi 124945 sp P13612.1 IT	538	MSLDVNRKAESPPR	FYFSSN	-34.758
>gi 124945 sp P13612.1 IT	559	TSDVITGSIQVSSR	EANCRT	-24.257
>gi 124945 sp P13612.1 IT	564	TGSIQVSSREANCR	THQAFM	-32.389
>gi 124945 sp P13612.1 IT	571	SREANCRTHQAFMR	KDVRDI	-37.406
>gi 124945 sp P13612.1 IT	575	NCRTHQAFMRKDVR	DILTPI	-20.491
>gi 124945 sp P13612.1 IT	626	KEKDIMKKTINFAR	FCAHEN	-26.77
>gi 124945 sp P13612.1 IT	729	DCSIGIYVDHLSR	IDISFL	-37.637
>gi 124945 sp P13612.1 IT	743	IDISFLLDVSSLSR	AEEDLS	-30.691
>gi 124945 sp P13612.1 IT	769	CENEEEMDNLKHSR	VTVAIP	-24.779
>gi 124945 sp P13612.1 IT	865	QTTTGECHFENYQR	VCALEQ	-45.431
>gi 124945 sp P13612.1 IT	884	QQKSAMQTLKGIVR	FLSKTD	-18.58
>gi 124945 sp P13612.1 IT	892	LKGIVRFLSKTDKR	LLYCIK	-24.894
>gi 124945 sp P13612.1 IT	928	SGKEASVHIQLEGR	PSILEM	-38.196
>gi 124945 sp P13612.1 IT	945	LEMDETSALKFEIR	ATGFPE	-24.449
>gi 124945 sp P13612.1 IT	955	FEIRATGFPEPNPR	VIELNK	-34.327
>gi 124945 sp P13612.1 IT	977	NVAHVLLLEGLHHQR	PKRYFT	-14.231
>gi 124945 sp P13612.1 IT	980	HVLEGLHHQRPKR	YFTIVI	4.912
>gi 124945 sp P13612.1 IT	1013	LISYVMWKAGFFKR	QYKSIL	-24.664
>gi 124945 sp P13612.1 IT	1024	FKRQYKSILQEENR	RDSWSY	-37.465
>gi 124945 sp P13612.1 IT	1025	KRQYKSILQEENRR	DSWSYI	-24.113
>gi 23831237 sp P08648.2	21	SPLHAVQLRWGPRR	RPPLL	-21.793
>gi 23831237 sp P08648.2	22	PLHAVQLRWGPRRR	PPLLPL	-23.668

>gi 23831237 sp P08648.2	38	LLPLLLLLPPPPR	VGGFNL	-33.607
>gi 23831237 sp P08648.2	68	PPGSFFGFSVEFYR	PGTDGV	-39.871
>gi 23831237 sp P08648.2	119	TQCTPIEFDSKGSR	LLESSL	-28.189
>gi 23831237 sp P08648.2	147	VEYKSLQWFGATVR	AHGSSI	-33.036
>gi 23831237 sp P08648.2	163	GSSILACAPLYSWR	TEKEPL	-40.944
>gi 23831237 sp P08648.2	185	PVGTCYLSTDNFTR	ILEYAP	-41.057
>gi 23831237 sp P08648.2	193	TDNFTRILEYAPCR	SDFSWA	-44.3
>gi 23831237 sp P08648.2	218	CQGGFSAEFTKTGR	VVLGGP	-26.275
>gi 23831237 sp P08648.2	261	EYLINLVQGGQLQTR	QASSIY	-25.433
>gi 23831237 sp P08648.2	312	TYGYVTILNGSDIR	SLYNFS	-34.931
>gi 23831237 sp P08648.2	353	LDDLLVGAPLLMDR	TPDGRP	-40.834
>gi 23831237 sp P08648.2	358	VGAPLLMDRTPDGR	PQEVGR	-30.651
>gi 23831237 sp P08648.2	364	MDRTPDGRPQEVGR	VYVYLQ	-41.388
>gi 23831237 sp P08648.2	391	TPTLTLTGHDEFGR	FGSSLT	-37.724
>gi 23831237 sp P08648.2	461	AASHTPDFFGSALR	GGRDLD	-31.155
>gi 23831237 sp P08648.2	464	HTPDFFGSALRGGR	DLDGNG	5.092
>gi 23831237 sp P08648.2	488	IVGSFGVDKAVVYR	GRPIVS	-12.529
>gi 23831237 sp P08648.2	490	GSFGVDKAVVYRGR	PIVSAS	-29.835
>gi 23831237 sp P08648.2	511	SLTIFPAMFNPEER	SCSLEG	-40.071
>gi 23831237 sp P08648.2	558	ELQLDWQKQKGGVR	RALFLA	-25.142
>gi 23831237 sp P08648.2	559	LQLDWQKQKGGVRR	ALFLAS	-9.692
>gi 23831237 sp P08648.2	566	QKGGVRRALFLASR	QATLTQ	-27.144
>gi 23831237 sp P08648.2	581	ATLTQTLLIQNGAR	EDCREM	-35.042
>gi 23831237 sp P08648.2	585	QTLLIQNGAREDCR	EMKIYL	-35.139
>gi 23831237 sp P08648.2	592	GAREDCREMKIYLR	NESEFR	-10.494
>gi 23831237 sp P08648.2	598	REMKIYLRNESEFR	DKLSPI	-40.016
>gi 23831237 sp P08648.2	624	SLDPQAPVDSHGLR	PALHYQ	-18.73
>gi 23831237 sp P08648.2	634	HGLRPALHYQSKSR	IEDKAQ	-36.098
>gi 23831237 sp P08648.2	694	QNVGEGGAYEAELR	VTAPPE	-40.422
>gi 23831237 sp P08648.2	708	VTAPPEAEYSGLVR	HPGNFS	-28.574
>gi 23831237 sp P08648.2	727	SSLSCDYFAVNQSR	LLVCDL	-32.091
>gi 23831237 sp P08648.2	748	NPMKAGASLWGGLR	FTVPHL	-32.387
>gi 23831237 sp P08648.2	755	SLWGGLRFTVPHLR	DTKKTl	-23.334
>gi 23831237 sp P08648.2	783	KNLNNSQSDVVSFR	LSVEAQ	-35.332
>gi 23831237 sp P08648.2	813	PEAVLFPVSDWHPR	DQPQKE	-31.829
>gi 23831237 sp P08648.2	863	PQALEGQQLLYVTR	VTGLNC	-30.696
>gi 23831237 sp P08648.2	899	GSLHHQQKREAPSR	SSASSG	-19.497
>gi 23831237 sp P08648.2	918	GPQILKCPEAECFR	LRCELG	-47.63
>gi 23831237 sp P08648.2	920	QILKCPEAECFRLR	CELGPL	-44.006
>gi 23831237 sp P08648.2	939	LHQQESQSLQLHFR	VWAKTF	-39.1
>gi 23831237 sp P08648.2	948	QLHFRVWAKTFLQR	EHQPFS	-26.672
>gi 23831237 sp P08648.2	969	QCEAVYKALKMPYR	ILPRQL	-31.459
>gi 23831237 sp P08648.2	973	VYKALKMPYRILPR	QLPQKE	-1.671

>gi 23831237 sp P08648.2	980	PYRILPRQLPQKER	QVATAV	-27.435
>gi 23831237 sp P08648.2	1028	LLIYILYKLGFFKR	SLPYGT	-14.469
>gi 12644170 sp P23229.3	29	LLSRLGAAFNLDTR	EDNVIR	-37.188
>gi 12644170 sp P23229.3	35	AAFNLDTREDNVIR	KYGDPG	-45.968
>gi 12644170 sp P23229.3	60	SLAMHWQLQPEDKR	LLLVGA	-34.687
>gi 12644170 sp P23229.3	68	QPEDKRLLLVGAPR	GEALPL	-30.066
>gi 12644170 sp P23229.3	76	LVGAPRGEALPLQR	ANRTGG	-23.458
>gi 12644170 sp P23229.3	79	APRGEALPLQRANR	TGGLYS	-11.694
>gi 12644170 sp P23229.3	91	NRTGGLYSCDITAR	GPCTRI	-30.398
>gi 12644170 sp P23229.3	96	LYSCDITARGPCTR	IEFDND	-31.079
>gi 12644170 sp P23229.3	134	SQGGKVVVTCADR	YEKRQH	-35.458
>gi 12644170 sp P23229.3	138	GGKVVVTCADRHYEKR	QHVNTK	-19.342
>gi 12644170 sp P23229.3	148	YEKRQHVNTKQESR	DIFGRC	-16.974
>gi 12644170 sp P23229.3	153	HVNTKQESRDIFGR	CYVLSQ	-17.553
>gi 12644170 sp P23229.3	162	DIFGRCYVLSQNL	IEDDMD	-34.35
>gi 12644170 sp P23229.3	178	DDMDGGDWSFCDGR	LRGHEK	-36.854
>gi 12644170 sp P23229.3	180	MDGGDWSFCDGRLR	GHEKFG	-40.527
>gi 12644170 sp P23229.3	218	FGAPGTYNWKGIVR	VEQKNN	-30.002
>gi 12644170 sp P23229.3	279	VSYTDPDQFVYKTR	PPREQP	-30.01
>gi 12644170 sp P23229.3	282	TDPDQFVYKTRPPR	EQPDTF	7.654
>gi 12644170 sp P23229.3	321	VSKDEITFVSGAPR	ANHSGA	-24.942
>gi 12644170 sp P23229.3	333	PRANHSGAVVLLKR	DMKSAH	-21.822
>gi 12644170 sp P23229.3	382	WQDIVIGAPQYFDR	DGEVGG	-38.19
>gi 12644170 sp P23229.3	399	VGGAVVYMNQQGR	WNNVKP	-35.24
>gi 12644170 sp P23229.3	407	MNQQGRWNNVKPIR	LNGTKD	-29.162
>gi 12644170 sp P23229.3	483	YFGYSIAGNMDLDR	NSYPDV	-45.244
>gi 12644170 sp P23229.3	502	VAVGSLSDSVTIFR	SRPVIN	-31.181
>gi 12644170 sp P23229.3	504	VGSLSDSVTIFRSR	PVINIQ	-27.124
>gi 12644170 sp P23229.3	519	VINIQTITVTPNR	IDLRQK	-36.468
>gi 12644170 sp P23229.3	523	QKTITVTPNRIDLR	QKTACG	-21.015
>gi 12644170 sp P23229.3	567	SISIVGTLEAEKER	RKSGLS	-47.022
>gi 12644170 sp P23229.3	568	ISIVGTLEAEKERR	KSGLSS	-18.143
>gi 12644170 sp P23229.3	575	EAEKERRKSGLSSR	VQFRNQ	-30.502
>gi 12644170 sp P23229.3	579	ERRKSGLSSRVQFR	NQGSEP	-17.979
>gi 12644170 sp P23229.3	595	GSEPKYTQELTLKR	QKQKVC	-22.698
>gi 12644170 sp P23229.3	613	VCMEETLWLQDNIR	DKLRPI	-37.692
>gi 12644170 sp P23229.3	617	ETLWLQDNIRDKLR	PIPITA	-28.337
>gi 12644170 sp P23229.3	633	PITASVEIQEPSSR	RRVNSL	-35.318
>gi 12644170 sp P23229.3	634	ITASVEIQEPSSRR	RVNSLP	-20.968
>gi 12644170 sp P23229.3	635	TASVEIQEPSSRRR	VNSLPE	-20.121
>gi 12644170 sp P23229.3	684	CNSNLKLEYKFCR	EGNQDK	-29.237
>gi 12644170 sp P23229.3	725	ALEITVTNPSNPR	NPTKDG	-25.269
>gi 12644170 sp P23229.3	753	IATFPDTLTY SAYR	ELRAFP	-36.373

>gi 12644170 sp P23229.3	756	FPDTLTYSAYRELR	AFPEKQ	-19.381
>gi 12644170 sp P23229.3	784	GSQADCELGNPFKR	NSNVTF	-17.503
>gi 12644170 sp P23229.3	874	SEDEVGSLIEYFR	VINLGK	-46.196
>gi 12644170 sp P23229.3	938	EINSLNLTESHNSR	KKREIT	-33.549
>gi 12644170 sp P23229.3	952	KKREITEKQIDDNR	KFSLFA	-43.472
>gi 12644170 sp P23229.3	960	QIDDNRKFSLFAER	KYQTLN	-40.236
>gi 12644170 sp P23229.3	977	TLNCSVNVNCVNIR	CPLRGL	-35.537
>gi 12644170 sp P23229.3	981	SVNVNCVNIRCPLR	GLDSKA	-23.306
>gi 12644170 sp P23229.3	992	PLRGLDSKASLILR	SRLWNS	-23.762
>gi 12644170 sp P23229.3	994	RGLDSKASLILRSR	LWNSTF	-33.043
>gi 12644170 sp P23229.3	1015	EEYSKLNLYLDILMR	AFIDVT	-32.747
>gi 12644170 sp P23229.3	1028	RAFIDVTAANAENIR	LPNAGT	-40.43
>gi 12644170 sp P23229.3	1037	AENIRLPNAGTQVR	VTVFPS	-30.881
>gi 12644170 sp P23229.3	1083	LLVFILWKCGFFKR	SRYDDS	-26.192
>gi 12644170 sp P23229.3	1085	VFILWKCGFFKRSR	YDDSV	-14.444
>gi 12644170 sp P23229.3	1092	GFFKRSRYDDSVPR	YHAVRI	-45.846
>gi 12644170 sp P23229.3	1097	SRYDDSVPRYHAVR	IRKEER	-27.002
>gi 12644170 sp P23229.3	1099	YDDSVPRYHAVRIR	KEEREI	-29.52
>gi 12644170 sp P23229.3	1103	VPRYHAVRIRKEER	EIKDEK	-22.829
>gi 12644170 sp P23229.3	1125	DNLEKKQWITKWNR	NESYS-	-33.161
>gi 4504763 ref NP_002201	29	LPLLLSGLLLPLCR	AFNLDV	-33.022
>gi 4504763 ref NP_002201	63	GFAVDFFVPSASSR	MFLLVG	-29.957
>gi 4504763 ref NP_002201	95	EGGQVLKCDWSSTR	RCQPIE	-40.935
>gi 4504763 ref NP_002201	96	GGQVLKCDWSSTRR	CQPIEF	-22.115
>gi 4504763 ref NP_002201	108	RRCQPIEFDATGNR	DYAKDD	-40.979
>gi 4504763 ref NP_002201	129	LEFKSHQWFGASVR	SKQDKI	-25.639
>gi 4504763 ref NP_002201	145	QDKILACAPLYHWR	TEMKQE	-41.839
>gi 4504763 ref NP_002201	152	APLYHWRTEMKQER	EPVGTC	-30.262
>gi 4504763 ref NP_002201	173	LQDGTKTVEYAPCR	SQDIDA	-43.616
>gi 4504763 ref NP_002201	198	CQGGFSIDFTKADR	VLLGGP	-36.629
>gi 4504763 ref NP_002201	241	NVYSIKYNNQLATR	TAQAIF	-34.932
>gi 4504763 ref NP_002201	275	NGDGIDDFVSGVPR	AARTLG	-20.358
>gi 4504763 ref NP_002201	278	GIDDFVSGVPRAAR	TLGMVY	-6.576
>gi 4504763 ref NP_002201	333	YADVFIGAPLFMDR	GSDGKL	-34.478
>gi 4504763 ref NP_002201	351	KLQEVGQVSVSLQR	ASGDFQ	-22.122
>gi 4504763 ref NP_002201	369	FQTTKLNQFEVFAR	FGSAIA	-29.2
>gi 4504763 ref NP_002201	409	GEDKKGIVYIFNGR	STGLNA	-26.662
>gi 4504763 ref NP_002201	428	AVPSQILEGQWAAR	SMPPSF	-30.726
>gi 4504763 ref NP_002201	461	GYPDLIVGAFGVDR	AILYRA	-36.053
>gi 4504763 ref NP_002201	466	IVGAFGVDRAILYR	ARPVIT	-10.039
>gi 4504763 ref NP_002201	468	GAFGVDRAILYRAR	PVITVN	-31.147
>gi 4504763 ref NP_002201	506	LPGTALKVSCFNVR	FCLKAD	-37.381
>gi 4504763 ref NP_002201	519	RFCLKADGKGVLP	KLNFQV	-16.743

>gi 4504763 ref NP_002201	539	ELLLDKLKQKGAIR	RALFLY	-27.882
>gi 4504763 ref NP_002201	540	LLLDKQKGAIRR	ALFLYS	-10.005
>gi 4504763 ref NP_002201	547	QKGAIRRALFLYSR	SPSHSK	-26.464
>gi 4504763 ref NP_002201	559	SRSPSHSKNMTISR	GGLMQC	-30.367
>gi 4504763 ref NP_002201	573	GGLMQCEELIAYLR	DESEFR	-31.718
>gi 4504763 ref NP_002201	579	EELIAYLRDESEFR	DKLTPI	-46.267
>gi 4504763 ref NP_002201	592	RDKLTPITIFMEYR	LDYRTA	-42.632
>gi 4504763 ref NP_002201	596	TPITIFMEYRLDYR	TAADTT	-36.499
>gi 4504763 ref NP_002201	618	QPILNQFTPANISR	QAHILL	-24.772
>gi 4504763 ref NP_002201	688	VSIPLQADFIGVVR	NNEALA	-32.461
>gi 4504763 ref NP_002201	695	DFIGVVRNNEALAR	LSCAFK	-35.939
>gi 4504763 ref NP_002201	707	ARLSCAFKTENQTR	QVVC DL	-30.457
>gi 4504763 ref NP_002201	728	NPMKAGTQLLAGLR	FSVHQQ	-25.253
>gi 4504763 ref NP_002201	775	HKVDLAVLAAVEIR	GVSSPD	-22.718
>gi 4504763 ref NP_002201	813	EDVGPVVQHIYELR	NNGPSS	-28.098
>gi 4504763 ref NP_002201	862	PMNCTSDMEINPLR	IKISSL	-39.001
>gi 4504763 ref NP_002201	883	TTEKNDTVAGQGER	DHLITK	-36.901
>gi 4504763 ref NP_002201	918	GVAQCLKIVCQVGR	LDRGKS	-39.103
>gi 4504763 ref NP_002201	921	QCLKIVCQVGR LDR	GKSAIL	-18.949
>gi 4504763 ref NP_002201	1017	GLLLAVLVFVMYR	MGFFKR	-34.103
>gi 4504763 ref NP_002201	1023	VLVFMVYRMGFFKR	VRPPQE	-30.703
>gi 4504763 ref NP_002201	1025	VFVMYRMGFFKRVR	PPQEEQ	-14.482
>gi 4504763 ref NP_002201	1033	FFKRV RPPQEEQER	EQLQPH	-46.085
>gi 11342666 ref NP_00452	98	QTGDLQNTIETMR	KPRCGN	-37.865
>gi 11342666 ref NP_00452	115	CGNPDVANYNFFPR	KPKWDK	-35.045
>gi 11342666 ref NP_00452	127	PRKPKWDKNQITYR	IIGYTP	-31.529
>gi 11342666 ref NP_00452	146	PDLDPETVDDAFAR	AFQVWS	-41.68
>gi 11342666 ref NP_00452	158	ARAFQVWSDVTPLR	FSRIHD	-31.342
>gi 11342666 ref NP_00452	161	FQVWSDVTPLRFSR	IHDGEA	-23.266
>gi 11342666 ref NP_00452	175	IHDGEADIMINFR	WEHGDG	-41.867
>gi 11342666 ref NP_00452	222	DDELWTLGEGQVVR	VKYGNA	-37.422
>gi 11342666 ref NP_00452	252	FNGKEYNSCTDTGR	SDGFLW	-36.971
>gi 11342666 ref NP_00452	296	GGNAEQPCKFPFR	FQGTSY	-33.746
>gi 11342666 ref NP_00452	310	FQGTSYDSC TTEGR	TDGYRW	-39.638
>gi 11342666 ref NP_00452	315	YDSC TTEGRTDGYR	WCGTTE	-38.18
>gi 11342666 ref NP_00452	325	DGYRWCGTTEDYDR	DKKYGF	-49.859
>gi 11342666 ref NP_00452	368	FLGNKYESCTSAGR	SDGKMW	-34.152
>gi 11342666 ref NP_00452	385	KMWCATTANYDDDR	KWGFCP	-52.603
>gi 11342666 ref NP_00452	432	ALMAPIYTYKNFR	LSQDDI	-31.181
>gi 11342666 ref NP_00452	482	CKQDIVFDGIAQIR	GEIFFF	-35.639
>gi 11342666 ref NP_00452	491	IAQIRGEIFFFKDR	FIWRTV	-38.653
>gi 11342666 ref NP_00452	495	RGEIFFFKDRFIWR	TVTPRD	-32.319
>gi 11342666 ref NP_00452	500	FFKDRFIWRTVTPR	DKPMGP	-1.609

>gi 11342666 ref NP_00452	550	GNEYWIYSASTLER	GYPKPL	-38.891
>gi 11342666 ref NP_00452	567	KPLTSLGLPPDVQR	VDAAFN	-36.836
>gi 11342666 ref NP_00452	590	NKKTYIFAGDKFWR	YNEVKK	-30.527
>gi 4505217 ref NP_002413	25	VAVCSAYPLDGAAR	GEDTSM	-38.237
>gi 4505217 ref NP_002413	53	NYDDLKDKVKQFVR	RKDSGP	-21.631
>gi 4505217 ref NP_002413	54	YYDLKDKVKQFVRR	KDSGPV	-20.879
>gi 4505217 ref NP_002413	65	VRRKDSGPVVKKIR	EMQKFL	-15.132
>gi 4505217 ref NP_002413	88	VTGKLSDTLEVMR	KPRCGV	-40.131
>gi 4505217 ref NP_002413	101	RKPRCGVPDVGHFR	TFPGIP	-43.359
>gi 4505217 ref NP_002413	110	VGHFRTFPGIPKWR	KTHLTY	-31.838
>gi 4505217 ref NP_002413	117	PGIPKWRKTHLTYR	IVNYTP	-30.456
>gi 4505217 ref NP_002413	151	LKVWEEVPTLTFSR	LYEGEA	-38.939
>gi 4505217 ref NP_002413	166	YEGEADIMISFAVR	EHGDFY	-38.83
>gi 4505217 ref NP_002413	248	LMYPLYHSLDLTR	FRLSQD	-34.194
>gi 4505217 ref NP_002413	250	YPLYHSLDLTRFR	LSQDDI	-39.072
>gi 4505217 ref NP_002413	303	CDPALSFDAVSTLR	GEILIF	-31.119
>gi 4505217 ref NP_002413	312	VSTLRGEILIFKDR	HFWRKS	-36.868
>gi 4505217 ref NP_002413	316	RGEILIFKDRHFWR	KSLRKL	-29.023
>gi 4505217 ref NP_002413	320	LIFKDRHFWRKSLR	KLEPEL	-20.232
>gi 4505217 ref NP_002413	364	LVFIFKGNQFWAIR	GNEVRA	-35.948
>gi 4505217 ref NP_002413	369	KGNQFWAIRGNEVR	AGYPRG	-22.699
>gi 4505217 ref NP_002413	374	WAIRGNEVRAGYPR	GIHTLG	-19.411
>gi 4505217 ref NP_002413	386	PRGIHTLGFPTVR	KIDAAI	-33.988
>gi 4505217 ref NP_002413	410	KNKTYFFVEDKYWR	FDEKRN	-36.733
>gi 4505217 ref NP_002413	415	FFVEDKYWRFDEKR	NSMEPG	-17.333
>gi 60392771 sp P50281.2	51	WLQQYGYLPPGDLR	THTQRS	-37.213
>gi 60392771 sp P50281.2	56	GYLPPGDLRTHTQR	SPQSL	3.955
>gi 60392771 sp P50281.2	89	VTGKADADTMKAMR	RPRCGV	-15.535
>gi 60392771 sp P50281.2	90	TGKADADTMKAMRR	PRCGVP	-21.645
>gi 60392771 sp P50281.2	92	KADADTMKAMRRPR	CGVPDK	4.991
>gi 60392771 sp P50281.2	108	VPDKFGAEIKANVR	RKRYAI	-28.621
>gi 60392771 sp P50281.2	109	PDKFGAEIKANVRR	KRYAIQ	-21.041
>gi 60392771 sp P50281.2	145	TPKVGGEYATYEAIR	KAFRVW	-38.404
>gi 60392771 sp P50281.2	149	GEYATYEAIRKAFR	VWESAT	-29.938
>gi 60392771 sp P50281.2	158	RKAFRVWESATPLR	FREVPY	-26.945
>gi 60392771 sp P50281.2	160	AFRVWESATPLRFR	EVPIYAY	-26.619
>gi 60392771 sp P50281.2	168	TPLRFREVPYAYIR	EGHEKQ	-37.729
>gi 60392771 sp P50281.2	224	GDTHFDSAEPWTVR	NEDLNG	-38.676
>gi 60392771 sp P50281.2	276	WMDTENFVLPDDDR	RGIQQL	-48.358
>gi 60392771 sp P50281.2	277	MDTENFVLPDDDRR	GIQQLY	-30.228
>gi 60392771 sp P50281.2	298	GESGFPTKMPPQPR	TTSRPS	-30.39
>gi 60392771 sp P50281.2	302	FPTKMPPQPRRTTSR	PSVPDK	-17.846
>gi 60392771 sp P50281.2	330	NICDGNFDTVAMLR	GEMFVF	-32.895

>gi 60392771 sp P50281.2	339	VAMLRGEMFVFKER	WFWRVR	-46.843
>gi 60392771 sp P50281.2	343	RGEMFVFKERWFWR	VRNNQV	-34.581
>gi 60392771 sp P50281.2	345	EMFVFKERWFWRVR	NNQVMD	-35.83
>gi 60392771 sp P50281.2	362	VMDGYPMPIGQFWR	GLPASI	-32.702
>gi 60392771 sp P50281.2	374	WRGLPASINTAYER	KDGKfV	-43.839
>gi 60392771 sp P50281.2	408	LEPGYPKHIKELGR	GLPTDK	-26.97
>gi 60392771 sp P50281.2	431	ALFWMPNGKTYFFR	GNKYYR	-28.699
>gi 60392771 sp P50281.2	437	NGKTYFFRGNKYYR	FNEELR	-13.581
>gi 60392771 sp P50281.2	443	FRGNKYRFNEELR	AVDSEY	-30.989
>gi 60392771 sp P50281.2	464	KNIKVWEGIPESPR	GSFMGS	-31.36
>gi 60392771 sp P50281.2	503	KLKVEPGYPKSALR	DWMGCP	-26.092
>gi 60392771 sp P50281.2	513	SALRDWMGCPGGR	PDEGTE	-37.583
>gi 60392771 sp P50281.2	563	LLVLAVGLAVFFFR	RHGTPR	-39.925
>gi 60392771 sp P50281.2	564	LVLAVGLAVFFFR	HGTPRR	-24.301
>gi 60392771 sp P50281.2	569	GLAVFFRRHGTPR	RLLYCQ	-17.605
>gi 60392771 sp P50281.2	570	LAVFFRRHGTPRR	LLYCQR	-20.655
>gi 60392771 sp P50281.2	576	RRHGTPRRLLYCQR	SLLDKV	-27.77
>gi 3041669 sp P51512.2 M	59	WLQKYGYLPPTDPR	MSVLRS	-30.448
>gi 3041669 sp P51512.2 M	64	GYLPPTDPRMSVLR	SAETMQ	-16.386
>gi 3041669 sp P51512.2 M	90	QQFYGINMTGKVDR	NTIDWM	-24.701
>gi 3041669 sp P51512.2 M	100	KVDRNTIDWMKKPR	CGVPDQ	-22.943
>gi 3041669 sp P51512.2 M	108	WMKKPRCGVPDQTR	GSSKFH	-27.838
>gi 3041669 sp P51512.2 M	116	VPDQTRGSSKFHIR	RKRYAL	-26.497
>gi 3041669 sp P51512.2 M	117	PDQTRGSSKFHIRR	KRYALT	-18.414
>gi 3041669 sp P51512.2 M	149	IKNVTPKVGDPETR	KAIRRA	-38.506
>gi 3041669 sp P51512.2 M	153	TPKVGDPETRAIR	RAFDVW	-1.876
>gi 3041669 sp P51512.2 M	154	PKVGDPETRAIRR	AFDVWQ	-9.994
>gi 3041669 sp P51512.2 M	180	FEEVYSELENGKR	DVDITI	-20.011
>gi 3041669 sp P51512.2 M	301	KIYGPPDKIPPPTR	PLPTVP	-33.431
>gi 3041669 sp P51512.2 M	310	PPPTRPLTPVPPHR	SIPPAD	-20.709
>gi 3041669 sp P51512.2 M	318	TVPPHRSIPPADPR	KNDRPK	-34.937
>gi 3041669 sp P51512.2 M	322	HRSIPPADPRKNDR	PKPPRP	-20.614
>gi 3041669 sp P51512.2 M	327	PADPRKNDRPKPPR	PPTGRP	1.976
>gi 3041669 sp P51512.2 M	332	KNDRPKPPRPPTGR	PSYPGA	-20.466
>gi 3041669 sp P51512.2 M	354	NICDGNFNTLAILR	REMFVF	-31.294
>gi 3041669 sp P51512.2 M	355	ICDGNFNTLAILRR	EMFVFK	-15.516
>gi 3041669 sp P51512.2 M	367	RREMFVFKDQWFWR	VRNNRV	-42.22
>gi 3041669 sp P51512.2 M	369	EMFVFKDQWFWRVR	NNRVMD	-35.49
>gi 3041669 sp P51512.2 M	372	VFKDQWFWRVRNNR	VMDGYP	-21.529
>gi 3041669 sp P51512.2 M	386	VMDGYPMQITYFWR	GLPPSI	-36.942
>gi 3041669 sp P51512.2 M	458	WEDVGKTYFFKGDR	YWRYSE	-39.117
>gi 3041669 sp P51512.2 M	461	VGKTYFFKGDYWR	YSEEMK	-22.734
>gi 3041669 sp P51512.2 M	523	FNNQILKVEPGYPR	SILKDF	-30.449

>gi 3041669 sp P51512.2 M	538	ILKDFMGCDGPTDR	VKEGHS	-44.876
>gi 3041669 sp P51512.2 M	589	CLLVLVYTVFQFKR	KGTPRH	-25.71
>gi 3041669 sp P51512.2 M	594	VYTVFQFKRKGTPR	HILYCK	-15.032
>gi 3041669 sp P51512.2 M	601	KRKGTPRHILYCKR	SMQEWV	-32.511
>gi 27446748 gb AAL47576.	33	QDAQPTQHGLPELR	QEAEAF	-32.829
>gi 27446748 gb AAL47576.	60	SEQGSKAPASAQFR	NAIREF	-27.197
>gi 27446748 gb AAL47576.	64	SKAPASAQFRNAIR	EFQWIS	-29.766
>gi 27446748 gb AAL47576.	84	QLPLSGVLDQATLR	QMTRPR	-39.389
>gi 27446748 gb AAL47576.	88	SGVLDQATLRQMTR	PRCGVA	-22.562
>gi 27446748 gb AAL47576.	90	VLDQATLRQMTRPR	CGVADT	-28.448
>gi 27446748 gb AAL47576.	105	GVADTDSHATWTER	ISTLLA	-37.98
>gi 27446748 gb AAL47576.	114	TWTERISTLLAGHR	AKMRRK	-25
>gi 27446748 gb AAL47576.	118	RISTLLAGHRAKMR	RKKRFA	-23.073
>gi 27446748 gb AAL47576.	119	ISTLLAGHRAKMR	KKRFAK	-14.352
>gi 27446748 gb AAL47576.	138	KPGNKWYKQHLSYR	LVNWPE	-31.963
>gi 27446748 gb AAL47576.	145	KQHLSYRLVNWPER	LPEPAV	-41.248
>gi 27446748 gb AAL47576.	152	LVNWPERLPEPAVR	GAVRAA	-28.126
>gi 27446748 gb AAL47576.	156	PERLPEPAVRGAVR	AAFQLW	-18.657
>gi 27446748 gb AAL47576.	182	EFWEAPATGPADIR	LTFFQG	-38.569
>gi 27446748 gb AAL47576.	212	DGPGGALAHAF LPR	RGEAHF	-25.823
>gi 27446748 gb AAL47576.	213	GPGGALAHAF LPRR	GEAHFD	-24.45
>gi 27446748 gb AAL47576.	223	LPRRGEAHFDGDER	WLSRRL	-51.725
>gi 27446748 gb AAL47576.	228	EAHFDGDERWLSLR	RRGRNL	-25.105
>gi 27446748 gb AAL47576.	229	AHFDGDERWLSRRL	RGRNLF	-22.487
>gi 27446748 gb AAL47576.	230	HFDGDERWLSRRLR	GRNLV	-16.213
>gi 27446748 gb AAL47576.	232	DGDERWLSRRLRGR	NLFVVL	10.493
>gi 27446748 gb AAL47576.	255	IGHTLGLTHSPAPR	ALMAPY	-20.349
>gi 27446748 gb AAL47576.	267	PRALMAPYKKLGR	DALLSW	0.966
>gi 27446748 gb AAL47576.	289	VLAVQSLYGKPLGR	SVATQL	-16.491
>gi 27446748 gb AAL47576.	314	TDFEAWDPHNSQSR	RPETRG	-25.6
>gi 27446748 gb AAL47576.	315	DFEAWDPHNSQSRR	PETRGP	-19.814
>gi 27446748 gb AAL47576.	319	WDPHNSQSRRPETR	GPKYCH	-14.399
>gi 27446748 gb AAL47576.	338	HSSFDAITVDGQWR	LYVFKG	-46.98
>gi 27446748 gb AAL47576.	360	FWEVTVDGNVSEPR	PLQKRW	-29.107
>gi 27446748 gb AAL47576.	365	VDGNVSEPRPLQKR	WPGLPP	-18.419
>gi 27446748 gb AAL47576.	392	SLEDGDFYFFKGNR	CWRFQG	-18.837
>gi 27446748 gb AAL47576.	395	DGDFYFFKGNRCWR	FQGTKS	-21.022
>gi 27446748 gb AAL47576.	410	QGTKSVWGFALQCR	AGGLPR	-30.861
>gi 27446748 gb AAL47576.	416	WGFAQLCRAGGLPR	HPDAAL	-23.07
>gi 27446748 gb AAL47576.	428	PRHPDAALFFPPLR	RLVLFK	-33.024
>gi 27446748 gb AAL47576.	429	RHPDAALFFPPLRR	LVLFKG	-25.638
>gi 27446748 gb AAL47576.	437	FPPLRRLVLFKGSR	YYVLAQ	-18.612
>gi 27446748 gb AAL47576.	454	LAQGGMQVEPYPR	SLRDWA	-29.541

>gi 27446748 gb AAL47576.	457	GGMQVEPYPRSLR	DWAGVP	-4.254
>gi 27446748 gb AAL47576.	472	WAGVPEEVSGALPR	PDGSII	-27.403
>gi 27446748 gb AAL47576.	481	GALPRPDGSIIFFR	DDHYWH	-24.716
>gi 27446748 gb AAL47576.	494	RDDHYWHLDQAKLR	VTSSGR	-36.521
>gi 27446748 gb AAL47576.	500	HLDQAKLRVTSSGR	WATELS	-31.6
>gi 132329 sp P00796.1 RE	30	PCTFSLPTGTTFER	IPLKKM	-43.442
>gi 132329 sp P00796.1 RE	40	TFERIPLKKMPSVR	EILEER	-21.04
>gi 132329 sp P00796.1 RE	46	LKKMPSVREILEER	GVDMTR	-38.916
>gi 132329 sp P00796.1 RE	52	VREILEERGVDMTR	LSAEWD	-35.889
>gi 132329 sp P00796.1 RE	116	GSANLWVPSTKCSR	LYLACG	-37.627
>gi 132329 sp P00796.1 RE	150	ENGDDFTIHYGSGR	VKGFLS	-30.289
>gi 132329 sp P00796.1 RE	227	GVLKEKVSFVYYNR	GPHLLG	-29.38
>gi 132329 sp P00796.1 RE	312	LKLIMQALGAKEKR	LHEYVV	-23.159
>gi 132329 sp P00796.1 RE	336	VPTLPDISFNLGGR	AYTLSS	-37.915
>gi 132329 sp P00796.1 RE	352	TLSTDYVLQYPNR	RDKLCT	-33.166
>gi 132329 sp P00796.1 RE	353	LSSTDYVLQYPNRR	DKLCTV	-25.356
>gi 132329 sp P00796.1 RE	382	PTGPVWVLGATFIR	KFYTEF	-38.754
>gi 132329 sp P00796.1 RE	390	GATFIRKFYTEFDR	HNNRIG	-45.586
>gi 132329 sp P00796.1 RE	394	IRKFYTEFDRHNNR	IGFALA	-29.557
>gi 1352125 sp Q02853.2 M	36	LLLLLLPSPLMAR	ARPPES	-27.275
>gi 1352125 sp Q02853.2 M	38	LLLLPSPLMARAR	PPESHR	-27.804
>gi 1352125 sp Q02853.2 M	44	SPLMARARPPESHR	HHPVKK	-31.588
>gi 1352125 sp Q02853.2 M	53	PESHRHHPVKKGPR	LLHAAL	-18.945
>gi 1352125 sp Q02853.2 M	80	PASHWVPSAGSSR	PLRCGV	-25.195
>gi 1352125 sp Q02853.2 M	83	HWVPSAGSSRPLR	CGVPDL	-1.973
>gi 1352125 sp Q02853.2 M	96	RCGVDPDVLNAR	NRQKRF	-35.123
>gi 1352125 sp Q02853.2 M	98	GVPDLPDVLNARNR	QKRFVL	-28.333
>gi 1352125 sp Q02853.2 M	108	ARNRQKRFVLSGGR	WEKTDL	-36.763
>gi 1352125 sp Q02853.2 M	117	LSGGRWEKTDLYR	ILRFPW	-41.278
>gi 1352125 sp Q02853.2 M	120	GRWEKTDLYRILR	FPWQLV	-6.027
>gi 1352125 sp Q02853.2 M	127	LYRILRFPWQLVR	EQVRQT	-28.297
>gi 1352125 sp Q02853.2 M	131	ILRFPWQLVREQVR	QTVAEA	-22.664
>gi 1352125 sp Q02853.2 M	156	EVTPLTFTEVHEGR	ADIMID	-30.294
>gi 1352125 sp Q02853.2 M	165	VHEGRADIMIDFAR	YWHGDN	-39.45
>gi 1352125 sp Q02853.2 M	191	GGILAHAFPKTHR	EGDVHF	-9.709
>gi 1352125 sp Q02853.2 M	244	TAAKALMSPFYTFR	YPLSLS	-33.795
>gi 1352125 sp Q02853.2 M	254	YTFRYPLSLSPDDR	RGIQHL	-42.961
>gi 1352125 sp Q02853.2 M	255	TFRYPLSLSPDDRR	GIQHLY	-23.718
>gi 1352125 sp Q02853.2 M	263	SPDDRRGIQHLYGR	PQMAPT	-22.112
>gi 1352125 sp Q02853.2 M	309	DVCETSFDAVSTIR	GELFFF	-34.812
>gi 1352125 sp Q02853.2 M	322	RGELFFFKAGFVWR	LRSGRL	-38.197
>gi 1352125 sp Q02853.2 M	324	ELFFFKAGFVWRLR	SGRLQP	-26.717
>gi 1352125 sp Q02853.2 M	327	FFKAGFVWRLRSGR	LQPGYP	-15.64

>gi 1352125 sp Q02853.2 M	338	SGRLQPGYPALASR	HWQGLP	-29.684
>gi 1352125 sp Q02853.2 M	408	LVWGPEKNKIYFFR	GGDYWR	-26.45
>gi 1352125 sp Q02853.2 M	414	KNKIYFFRGGDYWR	FHPRTQ	-41.349
>gi 1352125 sp Q02853.2 M	418	YFFRGGDYWRFHPR	TQRVDN	-31.144
>gi 1352125 sp Q02853.2 M	421	RGGDYWRFHPRTR	VDNPVP	-14.698
>gi 1352125 sp Q02853.2 M	428	FHPRTQRVDNPVPR	RSTDWR	-29.955
>gi 1352125 sp Q02853.2 M	429	HPRTQRVDNPVPRR	STDWRG	-7.65
>gi 1352125 sp Q02853.2 M	434	RVDNPVPRRSTDWR	GVPSEI	-25.722
>gi 1352125 sp Q02853.2 M	455	AAFQDAEGYAYFLR	GHLYWK	-35.11
>gi 1352125 sp Q02853.2 M	475	FDPVKVKVLEGFPR	PVGPDP	-30.586
>gi 62906884 sp P24347.2	32	MLLLLLQPPLLAR	ALPPDV	-21.18
>gi 62906884 sp P24347.2	45	RALPPDVHHLHAER	RGPQPW	-30.725
>gi 62906884 sp P24347.2	46	ALPPDVHHLHAERR	GPQPWH	-15.882
>gi 62906884 sp P24347.2	70	SSPAPAPATQEAPR	PASSLR	-31.027
>gi 62906884 sp P24347.2	76	PATQEAPRPASSLR	PPRCGV	-25.196
>gi 62906884 sp P24347.2	79	QEAPRPASSLRPPR	CGVPDP	4.317
>gi 62906884 sp P24347.2	92	RCGVDPDPSDGLSAR	NRQKRF	-32.439
>gi 62906884 sp P24347.2	94	GVPDPSDGLSARNR	QKRFVL	-26.053
>gi 62906884 sp P24347.2	104	ARNRQKRFVLSGGR	WEKTDL	-36.763
>gi 62906884 sp P24347.2	113	LSGGRWEKTDLTYS	ILRFPW	-41.278
>gi 62906884 sp P24347.2	116	GRWEKTDLTYSRILR	FPWQLV	-6.027
>gi 62906884 sp P24347.2	127	ILRFPWQLVQEQVR	QTMAEA	-32.67
>gi 62906884 sp P24347.2	152	DVTPLTFTEVHEGR	ADIMID	-30.275
>gi 62906884 sp P24347.2	161	VHEGRADIMIDFAR	YWHGDD	-39.45
>gi 62906884 sp P24347.2	187	GGILAHAFPPKTHR	EGDVHF	-9.709
>gi 62906884 sp P24347.2	240	TAAKALMSAFYTFR	YPLSLS	-34.452
>gi 62906884 sp P24347.2	251	TFRYPLSLSPDDCR	GVQHLY	-39.011
>gi 62906884 sp P24347.2	267	QHLYGQPWPTVTSR	TPALGP	-25.202
>gi 62906884 sp P24347.2	305	DACEASFDVAVSTIR	GELFFF	-34.89
>gi 62906884 sp P24347.2	318	RGELFFFKAGFVWR	LRGGQL	-38.678
>gi 62906884 sp P24347.2	320	ELFFFKAGFVWRLR	GGQLQP	-29.031
>gi 62906884 sp P24347.2	334	GGQLQPGYPALASR	HWQGLP	-30.185
>gi 62906884 sp P24347.2	384	VLGPAPLTELGLVR	FPVHAA	-34.182
>gi 62906884 sp P24347.2	404	LVWGPEKNKIYFFR	GRDYWR	-27.651
>gi 62906884 sp P24347.2	406	WGPEKNKIYFFRGR	DYWRFH	-35.409
>gi 62906884 sp P24347.2	410	KNKIYFFRGRDYWR	FHPSTR	-32.882
>gi 62906884 sp P24347.2	416	FRGRDYWRFHPSTR	RVDSPV	-24.797
>gi 62906884 sp P24347.2	417	RGRDYWRFHPSTRR	VDSPVP	-20.945
>gi 62906884 sp P24347.2	424	FHPSTRRVDSPVPR	RATDWR	-27.611
>gi 62906884 sp P24347.2	425	HPSTRRVDSPVPRR	ATDWRG	-6.858
>gi 62906884 sp P24347.2	430	RVDSPVPRRATDWR	GVPSEI	-26.612
>gi 62906884 sp P24347.2	451	AAFQDADGYAYFLR	GRLYWK	-31.848
>gi 62906884 sp P24347.2	453	FQDADGYAYFLRGR	LYWKFD	-37.688

>gi 62906884 sp P24347.2	471	FDPVKVKALEGFPR	LVGPDF	-33.839
>gi 139653 sp P04004.1 VT	27	AWVALADQESCKGR	CTEGFN	-32.066
>gi 139653 sp P04004.1 VT	64	CTDYTAECKPQVTR	GDFVFTM	-18.855
>gi 139653 sp P04004.1 VT	138	PEVGASKPEGIDSR	PETLHP	-40.642
>gi 139653 sp P04004.1 VT	146	EGIDSRPETLHPGR	PQPPAE	-15.142
>gi 139653 sp P04004.1 VT	176	AFTDLKNGSLFAFR	GQYCYE	-32.925
>gi 139653 sp P04004.1 VT	189	RGQYCYELDEKAVR	PGYPKL	-23.098
>gi 139653 sp P04004.1 VT	197	DEKAVRPGYPKLIR	DVWGIE	-10.437
>gi 139653 sp P04004.1 VT	212	VWVGIEPIDAAFTR	INCQ GK	-41.47
>gi 139653 sp P04004.1 VT	229	QGKTYLFKGSQYWR	FEDGVL	-32.837
>gi 139653 sp P04004.1 VT	241	WRFEDGVLPDYPR	NISDGF	-38.627
>gi 139653 sp P04004.1 VT	268	DAALALPAHSYSGR	ERVYFF	-26.285
>gi 139653 sp P04004.1 VT	270	ALALPAHSYSGRER	VYFFKG	-38.303
>gi 139653 sp P04004.1 VT	310	SLSAVFEHFAMMQR	DSWEDI	-28.865
>gi 139653 sp P04004.1 VT	324	DSWEDIFELLFWGR	TSAGTR	-34.762
>gi 139653 sp P04004.1 VT	330	FELLFWGRTSAGTR	QPQFIS	-27.196
>gi 139653 sp P04004.1 VT	337	RTSAGTRQPQFISR	DWHGVP	-28.575
>gi 139653 sp P04004.1 VT	353	HGVPGQVDAAMAGR	IYISGM	-39.154
>gi 139653 sp P04004.1 VT	362	AMAGRIYISGMAPR	PSLAKK	-26.219
>gi 139653 sp P04004.1 VT	370	SGMAPRPSLAKKQR	FRHRNR	-5.149
>gi 139653 sp P04004.1 VT	372	MAPRPSLAKKQRFR	HRNRKG	-20.191
>gi 139653 sp P04004.1 VT	374	PRPSLAKKQFRHR	NRKGYR	-20.923
>gi 139653 sp P04004.1 VT	376	PSLAKKQFRHRNR	KGYRSQ	-23.586
>gi 139653 sp P04004.1 VT	380	KKQRFRHRNRKGYR	SQRGHS	-0.835
>gi 139653 sp P04004.1 VT	383	RFRHRNRKGYRSQR	GHSRGR	-4.208
>gi 139653 sp P04004.1 VT	387	RNRKGYRSQRGHSR	GRNQNS	-21.188
>gi 139653 sp P04004.1 VT	389	RKGYRSQRGHSRGR	NQNSRR	-23.936
>gi 139653 sp P04004.1 VT	394	SQRGHSRGRNQNSR	RPSRAT	-18.734
>gi 139653 sp P04004.1 VT	395	QRGHSRGRNQNSRR	PSRATW	-18.856
>gi 139653 sp P04004.1 VT	421	EESNLGANNYDDYR	MDWLVP	-53.434
>gi 139653 sp P04004.1 VT	446	IQSVFFFSGDKYYR	VNLRTR	-38.406
>gi 139653 sp P04004.1 VT	450	FFFSGDKYYRVNLR	TRRVDT	-8.929
>gi 139653 sp P04004.1 VT	452	FSGDKYYRVNLRTR	RVDTV D	-25.165
>gi 139653 sp P04004.1 VT	453	SGDKYYRVNLRTRR	VDTVDP	-10.191
>gi 139653 sp P04004.1 VT	463	RTRRVDTVDPYPR	SIAQYW	-29.2
>gi 46397079 sp P60852.1	26	VALLLVATLGLGR	WLQPDP	-33.041
>gi 46397079 sp P60852.1	38	GRWLQPDPLPGLR	HSYDCG	-26.178
>gi 46397079 sp P60852.1	55	DCGIKGMQLLVFPR	PGQTLR	-22.694
>gi 46397079 sp P60852.1	61	MQLLVFPRPGQTLR	FKVVDE	-20.478
>gi 46397079 sp P60852.1	71	QTLRFKVVDEFNGR	FDVNNC	-43.649
>gi 46397079 sp P60852.1	87	VNNCSICYHWVTSR	PQEP AV	-27.109
>gi 46397079 sp P60852.1	99	SRPQEP AVFSADYR	GCHVLE	-40.517
>gi 46397079 sp P60852.1	109	ADYRGCHVLEKDGR	FHLRVF	-33.344

>gi 46397079 sp P60852.1	113	GCHVLEKDGRFHRLR	VFMEAV	-27.966
>gi 46397079 sp P60852.1	124	HLRVFMEAVLPNGR	VDVAQD	-36.778
>gi 46397079 sp P60852.1	142	QDATLICPKPDPSR	TLDSQL	-29.179
>gi 46397079 sp P60852.1	224	PHWGTLEHWDVNR	DYIGTH	-30.722
>gi 46397079 sp P60852.1	248	QCQVASGHLPCIVR	RTSKEA	-28.264
>gi 46397079 sp P60852.1	249	CQVASGHLPCIVRR	TSKEAC	-20.078
>gi 46397079 sp P60852.1	266	EACQQAGCCYDNTR	EVPCYY	-42.061
>gi 46397079 sp P60852.1	282	PCYYGNTATVQCFR	DGYFVL	-35.169
>gi 46397079 sp P60852.1	299	FVLVVSQEMALTHR	ITLANI	-33.414
>gi 46397079 sp P60852.1	366	GIHIQKGPQGSITR	DSTFQL	-24.87
>gi 46397079 sp P60852.1	375	GSITRDSTFQLHVR	CVFNAS	-30.349
>gi 46397079 sp P60852.1	406	PPSPAPMTQPGPLR	LELRIA	-37.152
>gi 46397079 sp P60852.1	410	APMTQPGPLRLELR	IAKDET	-24.796
>gi 46397079 sp P60852.1	430	FSSYYGEDDYPIVR	LLREPV	-43.457
>gi 46397079 sp P60852.1	433	YYGEDDYPIVRLLR	EPVHVE	0.011
>gi 46397079 sp P60852.1	441	IVRLLREPVHVEVR	LLQRTD	-25.882
>gi 46397079 sp P60852.1	445	LREPVHVEVRLLQR	TDPNLV	-16.168
>gi 46397079 sp P60852.1	486	ILSDGCPFKGDSYR	TQMVAL	-36.003
>gi 46397079 sp P60852.1	504	ALDGATPFQSHYQR	FTVATF	-12.656
>gi 46397079 sp P60852.1	519	TVATFALLDSGSQR	ALRGLV	-28.695
>gi 46397079 sp P60852.1	522	TFALLDSGSQRALR	GLVYLF	-1.7
>gi 46397079 sp P60852.1	552	LETCTACSTGTTR	QRRSSG	-28.067
>gi 46397079 sp P60852.1	554	TCSTACSTGTTRQR	RSSGHR	-24.133
>gi 46397079 sp P60852.1	560	STGTTRQRRSSGHR	NDTARP	-20.987
>gi 46397079 sp P60852.1	565	RQRRSSGHRNDTAR	PQDIVS	-23.855
>gi 46397079 sp P60852.1	600	TLGPTDSNGNSSLR	PLLWAV	-27.296
>gi 46397079 sp P60852.1	637	LSQTWAQKLWESNR	Q----	-39.549
>gi 466206 sp Q05996.1 ZP	24	SPSGWFNAGWSTYR	SISLFF	-32.565
>gi 466206 sp Q05996.1 ZP	58	VNPAFPGTVTCDER	EITVEF	-42.802
>gi 466206 sp Q05996.1 ZP	100	NCTYILDPEKLTLLR	ATYDNC	-12.831
>gi 466206 sp Q05996.1 ZP	108	EKLTLRATYDNCTR	RVHGGH	-39.976
>gi 466206 sp Q05996.1 ZP	109	KLTLRATYDNCTRR	VHGGHQ	-32.268
>gi 466206 sp Q05996.1 ZP	119	CTRRVHGGHQMTIR	VMNNSA	-34.203
>gi 466206 sp Q05996.1 ZP	128	QMTIRVMNNSAALR	HGAVMY	-29.657
>gi 466206 sp Q05996.1 ZP	166	TICQKDFMSFSLPR	VFSGLA	-34.941
>gi 466206 sp Q05996.1 ZP	193	VQMGWSIEVGDGAR	AKTLTL	-31.083
>gi 466206 sp Q05996.1 ZP	215	AMKEGFSLIDNHR	MTFHVP	-31.861
>gi 466206 sp Q05996.1 ZP	346	QFYLASLKLTFLLR	PETVSM	-35.339
>gi 466206 sp Q05996.1 ZP	397	SYQTQPALDLGTLR	VGNSSC	-38.185
>gi 466206 sp Q05996.1 ZP	416	CQPVFEAQSQGLVR	FHIPLN	-33.395
>gi 466206 sp Q05996.1 ZP	427	LVRFHIPLNGCGTR	YKFEDD	-32.981
>gi 466206 sp Q05996.1 ZP	455	HALWTDFFPPSKISR	DSEFRM	-2.6
>gi 466206 sp Q05996.1 ZP	460	DFPPSKISRDESEFR	MTVKCS	-33.481

>gi 466206 sp Q05996.1 ZP	469	DSEFRMTVKCSYSR	NDMLLN	-33.745
>gi 466206 sp Q05996.1 ZP	518	YQQPYGENEYPLVR	FLRQPI	-36.664
>gi 466206 sp Q05996.1 ZP	521	PYGENEYPLVRFLR	QPIYME	-2.513
>gi 466206 sp Q05996.1 ZP	529	LVRFLRQPIYMEVR	VLNRDD	-37.967
>gi 466206 sp Q05996.1 ZP	533	LRQPIYMEVRVLNR	DDPNIK	-4.986
>gi 466206 sp Q05996.1 ZP	592	PVGSSVTHPDHYQR	FDMKAF	-19.381
>gi 466206 sp Q05996.1 ZP	622	SLVYFHCSALICNR	LSPDSP	-32.328
>gi 466206 sp Q05996.1 ZP	639	DSPLCSVTCPVSSR	HRRATG	-30.602
>gi 466206 sp Q05996.1 ZP	641	PLCSVTCPVSSRHR	RATGAT	-22.802
>gi 466206 sp Q05996.1 ZP	670	PGPILLSDSSFR	GVGSSD	-43.25
>gi 466206 sp Q05996.1 ZP	688	SDLKASGSSGEKSR	SETGEE	-29.742
>gi 466206 sp Q05996.1 ZP	698	EKSRETGEEVGSR	GAMDTK	-32.036
>gi 466206 sp Q05996.1 ZP	740	VATLGFIIYYLYEKR	TVSNH-	-25.667
>gi 141724 sp P21754.1 ZP	67	MVSKDLFGTGKLR	AADLTL	-7.148
>gi 141724 sp P21754.1 ZP	91	CEPLVSMDETVVVR	FEVGLH	-42.909
>gi 141724 sp P21754.1 ZP	121	DALVYSTFLLHDPR	PVGNLS	-26.025
>gi 141724 sp P21754.1 ZP	130	LHDPRPVGNLSIVR	TNRAEI	-35.228
>gi 141724 sp P21754.1 ZP	133	PRPVGNLSIVRTNR	AEIPIE	-21.729
>gi 141724 sp P21754.1 ZP	141	IVRTNRAEPIECR	YPRQGN	-33.526
>gi 141724 sp P21754.1 ZP	144	TNRAEPIECRYPR	QGNVSS	-25.91
>gi 141724 sp P21754.1 ZP	161	VSSQAILPTWLPFR	TTVFSE	-38.003
>gi 141724 sp P21754.1 ZP	175	TTVFSEEKLTFLSR	LMEENW	-36.409
>gi 141724 sp P21754.1 ZP	186	SLRLMEENWNAEKR	SPTFHL	-21.597
>gi 141724 sp P21754.1 ZP	211	LQAEIHTGSHVPLR	LFVDHC	-28.278
>gi 141724 sp P21754.1 ZP	255	DGLTDASSAFKVPR	PGPDTL	-10.389
>gi 141724 sp P21754.1 ZP	275	QFTVDVFHFANDSR	NMIYIT	-41.891
>gi 141724 sp P21754.1 ZP	334	CCNKGDCGTPSHSR	RQPHVM	-29.505
>gi 141724 sp P21754.1 ZP	335	CNKGDCGTPSHSRR	QPHVMS	6.895
>gi 141724 sp P21754.1 ZP	345	HSRRQPHVMSQWSR	SASRNR	-22.368
>gi 141724 sp P21754.1 ZP	349	QPHVMSQWSRSASR	NRRHVT	-22.896
>gi 141724 sp P21754.1 ZP	351	HVMSQWSRSASRNR	RHVTEE	-28.252
>gi 141724 sp P21754.1 ZP	370	EADVTVGPLIFLDR	RGDHEV	-38.084
>gi 141724 sp P21754.1 ZP	371	ADVTVGPLIFLDRR	GDHEVE	-31.242
>gi 141724 sp P21754.1 ZP	411	VSLTLTAVILVLTR	RCRTAS	-31.717
>gi 141724 sp P21754.1 ZP	412	SLTLTAVILVLTRR	CRTASH	-18.667
>gi 141724 sp P21754.1 ZP	414	TLTAVILVLTRRCR	TASHPV	-20.617
>gi 112849 sp P12961.1 7B	30	LMFEWNPAFAYSPR	TPDRVS	-31.898
>gi 112849 sp P12961.1 7B	34	WNPAFAYSPRTPDR	VSETDI	-30.933
>gi 112849 sp P12961.1 7B	42	PRTPDRVSETDIQR	LLHGVM	-44.08
>gi 112849 sp P12961.1 7B	55	RLLHGVMQLGIAR	PRVEYP	-32.344
>gi 112849 sp P12961.1 7B	57	LHGVMQLGIARPR	VEYPAH	-34.93
>gi 112849 sp P12961.1 7B	142	GLENAPDTAEFSR	EFQLDQ	-32.305
>gi 112849 sp P12961.1 7B	177	NKKLLYEKMKGQQR	RKRRSV	-26.808

>gi 112849 sp P12961.1 7B	178	KKLLYEKMKGGQRR	KRRSVN	-18.93
>gi 112849 sp P12961.1 7B	180	LLYEKMKGGQRRKR	RSVNPY	11.983
>gi 112849 sp P12961.1 7B	191	RKRRSVNPYLQGKR	LDNVVA	-25.057
>gi 69053 pir NGMSMG ner	27	VGHGQHGGVLACGR	AVQGAG	-30.959
>gi 69053 pir NGMSMG ner	60	NKGFAKDAAFYTGR	SEVHSV	-30.262
>gi 69053 pir NGMSMG ner	115	HWTKLQHSLDTALR	RARSAP	-34.084
>gi 69053 pir NGMSMG ner	116	WTKLQHSLDTALRR	ARSAPT	-22.442
>gi 69053 pir NGMSMG ner	118	KLQHSLDTALRRAR	SAPTAP	12.182
>gi 69053 pir NGMSMG ner	128	RRARSAPTAPIAAR	VTGQTR	-22.9
>gi 69053 pir NGMSMG ner	134	PTAPIAARVTGQTR	NITVDP	-27.693
>gi 69053 pir NGMSMG ner	141	RVTGQTRNITVDPR	LFKKRR	-38.495
>gi 69053 pir NGMSMG ner	146	TRNITVDPRLFKKR	RLHSPR	-11.053
>gi 69053 pir NGMSMG ner	147	RNITVDPRLFKKRR	LHSPRV	-20.184
>gi 69053 pir NGMSMG ner	152	DPRLFKKRRLHSPR	VLFSTQ	-17.399
>gi 69053 pir NGMSMG ner	181	DLDFQAHGTIPFNR	THRSKR	-39.005
>gi 69053 pir NGMSMG ner	184	FQAHGTIPFNRTHR	SKRSST	-0.651
>gi 69053 pir NGMSMG ner	237	TVLAEVNINNSVFR	QYFFET	-41.343
>gi 69053 pir NGMSMG ner	246	NSVFRQYFFETKCR	ASNPVE	-35.433
>gi 69053 pir NGMSMG ner	256	TKCRASNPVESGCR	GIDSKH	-37.604
>gi 69053 pir NGMSMG ner	287	VKALTTDEKQAAWR	FIRIDT	-25.937
>gi 69053 pir NGMSMG ner	290	LTTDEKQAAWRFIR	IDTACV	-28.679
>gi 69053 pir NGMSMG ner	301	FIRIDTACVCVLSR	KATRRG	-32.467
>gi 69053 pir NGMSMG ner	305	DTACVCVLSRKATR	RG----	0.021
>gi 69053 pir NGMSMG ner	306	TACVCVLSRKATRR	G-----	-23.969
>gi 14717127 emb CAC44179	43	TGKKKVVAEIQGGR	RSAQSN	-32.006
>gi 14717127 emb CAC44179	44	GKKKVVAEIQGGRR	SAQSNE	-20.648
>gi 14717127 emb CAC44179	53	QGGRRSAQSNELLR	DFEVTL	-30.521
>gi 14717127 emb CAC44179	66	RDFEVTLLQMFGLR	KRPQPS	-33.249
>gi 14717127 emb CAC44179	68	FEVTLLQMFGLRKR	PQPSKD	-22.567
>gi 14717127 emb CAC44179	82	PQPSKDVVVPAYMR	DLYRLQ	-31.314
>gi 14717127 emb CAC44179	86	KDVVVPAYMRDLYR	LQSAEE	-36.598
>gi 14717127 emb CAC44179	106	EDELHDISMEYPER	PTSRAN	-45.02
>gi 14717127 emb CAC44179	110	HDISMEYPERPTSR	ANTVRS	-22.084
>gi 14717127 emb CAC44179	115	EYPERPTSRANTVR	SFHHEE	-17.765
>gi 14717127 emb CAC44179	136	LENLPSTAENGNFR	FVFNLS	-38.007
>gi 14717127 emb CAC44179	156	SIPENEVISSAELR	LYREQI	-38.86
>gi 14717127 emb CAC44179	159	ENEVISSAELRLYR	EQIDHG	-11.489
>gi 14717127 emb CAC44179	174	QIDHGPAWEEGFHR	INIYEV	-46.547
>gi 14717127 emb CAC44179	193	VMKPITASGHMISR	LLDTRL	-28.593
>gi 14717127 emb CAC44179	198	TASGHMISRLLDTR	LIHHNV	-32.85
>gi 14717127 emb CAC44179	218	TQWESFDVSPAIR	WTRDKQ	-35.101
>gi 14717127 emb CAC44179	221	ESFDVSPAIRWTR	DKQINH	-8.939
>gi 14717127 emb CAC44179	248	HLNQTKTYQGKHVR	ISRSLL	-23.286

>gi 14717127 emb CAC44179	265	SLLPQEDADWSQMR	PLLITF	-44.976
>gi 14717127 emb CAC44179	276	QMRPLLITFSHDGR	GHALTR	-35.203
>gi 14717127 emb CAC44179	282	ITFSHDGRGHALTR	RSKRSP	-22.635
>gi 14717127 emb CAC44179	283	TFSHDGRGHALTRR	SKRSPK	4.954
>gi 14717127 emb CAC44179	292	ALTRRSKRSPKQQR	PRKKNK	-19.349
>gi 14717127 emb CAC44179	294	TRRSKRSPKQQRPR	KKNKHC	-21.663
>gi 14717127 emb CAC44179	301	PKQQRPRKKNKHCR	RHSLYV	-26.065
>gi 14717127 emb CAC44179	302	KQQRPRKKNKHCR	HSLYVD	-15.598
>gi 119610 sp P05305.1 ED	46	ENGGEKTPSPPPWR	LRRSKR	-36.772
>gi 119610 sp P05305.1 ED	48	GGEKTPSPPPWRLR	RSKRCS	-23.099
>gi 119610 sp P05305.1 ED	49	GEKTPSPPPWRLRR	SKRCSC	-5.378
>gi 119610 sp P05305.1 ED	89	TPEHVVPYGLGSPR	SKRALE	-20.647
>gi 119610 sp P05305.1 ED	105	RALENLLPTKATDR	ENRCQC	-26.913
>gi 119610 sp P05305.1 ED	130	KKCWNFQAGKELR	AEDIME	-21.358
>gi 119610 sp P05305.1 ED	162	SKLGKKCIYQQLVR	GRKIRR	-28.054
>gi 119610 sp P05305.1 ED	164	LGKKCIYQQLVRGR	KIRRSS	-26.836
>gi 119610 sp P05305.1 ED	167	KCIYQQLVRGRKIR	RSSEEH	5.831
>gi 119610 sp P05305.1 ED	175	RGRKIRRSSEHLR	QTRSET	-33.932
>gi 119610 sp P05305.1 ED	178	KIRRSSEHLRQTR	SETMRN	4.068
>gi 119610 sp P05305.1 ED	183	SEEHLRQTRSETMR	NSVKSS	-22.676
>gi 119610 sp P05305.1 ED	201	SSFHDPKLGKPSR	ERYVTH	-0.276
>gi 119610 sp P05305.1 ED	203	FHDPKLGKPSRER	YVTHNR	-25.504
>gi 119610 sp P05305.1 ED	209	KGKPSRERYVTHNR	AHW---	-34.404
>gi 3639041 gb AAC36302.1	33	RGSQCGCGGAPAR	AGEGNS	-23.71
>gi 3639041 gb AAC36302.1	65	ALHLLTLCYLELR	SELRRE	-41.23
>gi 3639041 gb AAC36302.1	69	LTLCCYLELRSELR	REGAE	-28.45
>gi 3639041 gb AAC36302.1	70	TLCCYLELRSELRR	ERGAES	-14.094
>gi 3639041 gb AAC36302.1	72	CCYLELRSELRRER	GAESRL	-9.186
>gi 3639041 gb AAC36302.1	77	LRSELRRERGAESR	LGGSGT	-27.566
>gi 3639041 gb AAC36302.1	152	FFDEKPYSEEEESR	RVRRNK	-36.399
>gi 3639041 gb AAC36302.1	153	FPDEKPYSEEEESRR	VRRNKR	-34.515
>gi 3639041 gb AAC36302.1	155	DEKPYSEEEESRRVR	RNKRSK	-6.518
>gi 3639041 gb AAC36302.1	244	LQGPSGAADKAGTR	ENQPAV	-29.031
>gi 3639041 gb AAC36302.1	276	KNDLSGGVLNDWSR	ITMNP	-40.234
>gi 3639041 gb AAC36302.1	289	RITMNPVKVFLHPR	SGELEV	-10.878
>gi 3639041 gb AAC36302.1	334	EVVVDEKPFLQCTR	SIETGK	-28.491
>gi 3639041 gb AAC36302.1	357	NTCYTAGVCLLKAR	QKIAVK	-32.557
>gi 3639041 gb AAC36302.1	384	INMSKHTTFFGAIR	LGEAPA	-36.196
>gi 134522 sp P16043.1 SL	27	SGSHCSLPPSPFFR	MQRHVD	-32.06
>gi 134522 sp P16043.1 SL	41	MQRHVDAIFTTNYR	KLLSQL	-42.43
>gi 134522 sp P16043.1 SL	50	TTNYRKLLSQLYAR	KVIQDI	-32.149
>gi 134522 sp P16043.1 SL	63	RKVIQDIMNKQGER	IQEQRA	-34.776
>gi 134522 sp P16043.1 SL	68	DIMNKQGERIQEQR	ARLSRQ	-18.227

>gi 134522 sp P16043.1 SL	70	MNKQGERIQEQRAR	LSRQED	-30.866
>gi 134522 sp P16043.1 SL	73	QGERIQEQRARLSR	QEDSMW	3.186
>gi 134522 sp P16043.1 SL	96	KQMTLESILQGFPR	MKPSAD	-29.023
>gi 11024682 ref NP_00060	69	AELVDALQFVCGDR	GFYFNK	-43.945
>gi 11024682 ref NP_00060	84	FYFNKPTGYGSSSR	RAPQTG	-27.658
>gi 11024682 ref NP_00060	85	YFNKPTGYGSSRR	APQTGI	-12.244
>gi 11024682 ref NP_00060	98	RAPQTGIVDECCFR	SCDLRR	-50.773
>gi 11024682 ref NP_00060	103	GIVDECCFRSCDLR	RLEMYC	-25.958
>gi 11024682 ref NP_00060	104	IVDECCFRSCDLRR	LEMYCA	-34.698
>gi 11024682 ref NP_00060	122	CAPLKPAKSARSVR	AQRHTD	7.08
>gi 11024682 ref NP_00060	143	PKTQKEVHLKNASR	GSAGNK	-19.622
>gi 11024682 ref NP_00060	152	KNASRGSAKNKYR	M----	-37.62
>gi 108796063 ref NP_0010	27	TFLAFASCCIAAYR	PSETLC	-40.888
>gi 108796063 ref NP_0010	48	GELVDTLQFVCGDR	GFYFSR	-43.823
>gi 108796063 ref NP_0010	54	LQFVCGDRGFYFSR	PASRVS	-28.944
>gi 108796063 ref NP_0010	58	CGDRGFYFSRPASR	VSRRSR	-24.162
>gi 108796063 ref NP_0010	61	RGYFSRPASRVSR	RSRGIV	1.13
>gi 108796063 ref NP_0010	62	GFYFSRPASRVSR	SRGIVE	12.287
>gi 108796063 ref NP_0010	64	YFSRPASRVSR	GIVEEC	2.281
>gi 108796063 ref NP_0010	73	SRRSRGIVECCFR	SCDLAL	-50.802
>gi 108796063 ref NP_0010	92	LLETYCATPAKSER	DVSTPP	-18.341
>gi 108796063 ref NP_0010	107	VSTPPTVLPDNFPR	YPVGKF	-34.486
>gi 108796063 ref NP_0010	125	KFFQYDTWKQSTQR	LRRGLP	-30.151
>gi 108796063 ref NP_0010	127	FQYDTWKQSTQRLR	RGLPAL	-24.85
>gi 108796063 ref NP_0010	135	STQRLRRGLPALLR	ARRGHV	-25.61
>gi 108796063 ref NP_0010	137	QRLRRGLPALLRAR	RGHVLA	-25.908
>gi 108796063 ref NP_0010	138	RLRRGLPALLRARR	GHVLAK	4.548
>gi 108796063 ref NP_0010	150	RRGHVLAKELEAFR	EAKRHR	-40.9
>gi 108796063 ref NP_0010	154	VLAKELEAFREAKR	HRPLIA	-21.994
>gi 108796063 ref NP_0010	156	AKELEAFREAKRHR	PLIALP	-11.889
>gi 108796063 ref NP_0010	179	PAHGGAPPEMASNR	K----	-39.264
>gi 113838 sp P13205.3 AN	49	PEQSTMQKLELIR	EKSEEM	-32.281
>gi 113838 sp P13205.3 AN	58	LELIREKSEEMAQR	QLSKDQ	-37.512
>gi 113838 sp P13205.3 AN	73	LSKDQGPTKELLKR	VLRSQD	-20.651
>gi 113838 sp P13205.3 AN	83	LLKRVLRSQDSAFR	IQERLR	-44.542
>gi 113838 sp P13205.3 AN	87	VLRSQDSAFRIQER	LRNSKM	-29.852
>gi 113838 sp P13205.3 AN	89	RSQDSAFRIQERLR	NSKMAH	-34.842
>gi 113838 sp P13205.3 AN	106	MAHSSSCFGQKIDR	IGAVSR	-33.535
>gi 113838 sp P13205.3 AN	112	CFGQKIDRIGAVSR	LGCDGL	-33.461
>gi 113838 sp P13205.3 AN	119	RIGAVSRLGCDGLR	LF----	-41.553
>gi 13249346 ref NP_07772	33	PSEAKPGAPPKVPR	TPPAEE	-9.397
>gi 13249346 ref NP_07772	68	KAPGGGANLKGDR	SRLLRD	-28.409
>gi 13249346 ref NP_07772	70	PGGGGANLKGDRSR	LLRDLR	-28.866

>gi 13249346 ref NP_07772	76	NLKGDRSRLLRDLR	VDTKSR	-23.059
>gi 13249346 ref NP_07772	82	SRLLRDLRVDTKSR	AAWARL	-29.77
>gi 13249346 ref NP_07772	87	DLRVDTKSRAAWAR	LLQEHP	-24.749
>gi 13249346 ref NP_07772	96	AAWARLLQEHPNAR	KYKGAN	-36.627
>gi 13249346 ref NP_07772	117	KGLSKGCFGLKLDLDR	IGSMMSG	-31.726
>gi 129719 sp P04085.1 PD	27	YLAHVLAEEAEIPR	EVIERL	-33.226
>gi 129719 sp P04085.1 PD	32	LAEAEIPREVIER	LARSQI	-30.424
>gi 129719 sp P04085.1 PD	35	EAEIPREVIERLAR	SQIHSI	-7.079
>gi 129719 sp P04085.1 PD	42	VIERLARSQIHSIR	DLQRLL	-11.584
>gi 129719 sp P04085.1 PD	46	LARSQIHSIRDQLR	LLEIDS	-32.188
>gi 129719 sp P04085.1 PD	64	DSVGSSESLDTSLR	AHGVHA	-35.986
>gi 129719 sp P04085.1 PD	78	AHGVHATKHVPEKR	PLPIRR	-17.129
>gi 129719 sp P04085.1 PD	83	ATKHVPEKRPLPIR	RKRSIE	-10.11
>gi 129719 sp P04085.1 PD	84	TKHVPEKRPLPIRR	KRSIEE	-19.152
>gi 129719 sp P04085.1 PD	99	RSIEEAVPAVCKTR	TVIYEI	-29.968
>gi 129719 sp P04085.1 PD	107	AVCKTRTVIYEIPR	SQVDPT	-38.137
>gi 129719 sp P04085.1 PD	128	ANFLIWPPCVEVKR	CTGCCN	-26.957
>gi 129719 sp P04085.1 PD	144	GCCNTSSVKCQPSR	VHHRSV	-31.482
>gi 129719 sp P04085.1 PD	148	TSSVKCQPSRVHHR	SVKVAK	8.652
>gi 129719 sp P04085.1 PD	159	HHRSVKVAKVEYVR	KKPKLK	-31.979
>gi 129719 sp P04085.1 PD	170	YVRKKPKLKEVQVR	LEEHL	-30.155
>gi 129719 sp P04085.1 PD	189	ECACATTSLNPDYR	EEDTGR	-40.479
>gi 129719 sp P04085.1 PD	195	TSLNPDYREEDTGR	PRESGK	-47.072
>gi 129719 sp P04085.1 PD	197	LNPDYREEDTGRPR	ESGKKR	-26.597
>gi 129719 sp P04085.1 PD	203	EEDTGRPRESGKKR	KRKRLK	-27.649
>gi 129719 sp P04085.1 PD	205	DTGRPRESGKKRKR	KRLKPT	-12.72
>gi 129719 sp P04085.1 PD	207	GRPRESGKKRKRKR	LKPT--	-9.128
>gi 129724 sp P01127.1 PD	39	PEELYEMLSDHSIR	SFDDLQ	-18.728
>gi 129724 sp P01127.1 PD	46	LSDHSIRSFDDLQR	LLHGDP	-46.552
>gi 129724 sp P01127.1 PD	66	GEEDGAELDLNMTR	SHSGGE	-38.166
>gi 129724 sp P01127.1 PD	78	TRSHSGGELESLAR	GRRSLG	-31.065
>gi 129724 sp P01127.1 PD	80	SHSGGELESLARGR	RSLGSL	-26.38
>gi 129724 sp P01127.1 PD	100	TIAEPAMIAECKTR	TEVFEI	-42.4
>gi 129724 sp P01127.1 PD	108	AECKTRTEVFEISR	RLIDRT	-33.897
>gi 129724 sp P01127.1 PD	109	ECKTRTEVFEISRR	LIDRTN	-20.633
>gi 129724 sp P01127.1 PD	113	RTEVFEISRRLLDR	TNANFL	-28.437
>gi 129724 sp P01127.1 PD	129	ANFLVWPPCVEVQR	CSGCCN	-36.965
>gi 129724 sp P01127.1 PD	137	CVEVQRCSGCCNNR	NVQCRP	-34.441
>gi 129724 sp P01127.1 PD	142	RCSGCCNNRNVQCR	PTQVQL	-20.28
>gi 129724 sp P01127.1 PD	149	NRNVQCRPTQVQLR	PVQVRK	-20.43
>gi 129724 sp P01127.1 PD	154	CRPTQVQLRPVQVR	KIEIVR	-19.074
>gi 129724 sp P01127.1 PD	160	QLRPVQVRKIEIVR	KKPIFK	-31.133
>gi 129724 sp P01127.1 PD	187	DHLACKCETVAAAR	PVTRSP	-24.668

>gi 129724 sp P01127.1 PD	191	CKCETVAAARPVTR	SPGGSQ	-14.514
>gi 129724 sp P01127.1 PD	200	RPVTRSPGGSQEQR	AKTPQT	-20.545
>gi 129724 sp P01127.1 PD	207	GGSQEQRAKTPQTR	VTIRTV	-25.908
>gi 129724 sp P01127.1 PD	211	EQRAKTPQTRVTIR	TVRVRR	-3.797
>gi 129724 sp P01127.1 PD	214	AKTPQTRVTIRTVR	VRRPPK	-17.916
>gi 129724 sp P01127.1 PD	216	TPQTRVTIRTVRVR	RPPKGK	-5.564
>gi 129724 sp P01127.1 PD	217	PQTRVTIRTVRVRR	PPKGKH	10.476
>gi 129724 sp P01127.1 PD	224	RTVRVRRPPKGKHR	KFKHTH	-25.582
>gi 4506267 ref NP_000306	51	LMHNLGKHLNSMER	VEWLRK	-45.717
>gi 4506267 ref NP_000306	56	GKHLNSMERVEWLR	KKLQDV	-32.21
>gi 4506267 ref NP_000306	75	VHNFVALGAPLAPR	DAGSQR	-22.412
>gi 4506267 ref NP_000306	81	LGAPLAPRDAGSQR	PRKKED	-36.043
>gi 4506267 ref NP_000306	83	APLAPRDAGSQRPR	KKEDNV	-23.743
>gi 8134669 sp O08665.1 S	31	ARANYANGKNNVPR	LKLSYK	-28.092
>gi 8134669 sp O08665.1 S	66	NSSSYHTFLLDEER	SRLYVG	-42.119
>gi 8134669 sp O08665.1 S	68	SSYHTFLLDEERSR	LYVGAK	-51.855
>gi 8134669 sp O08665.1 S	99	KDFQKIVWPVSYTR	RDECKW	-30.303
>gi 8134669 sp O08665.1 S	100	DFQKIVWPVSYTRR	DECKWA	-20.112
>gi 8134669 sp O08665.1 S	166	NIFKLQDSHFENGR	GKSPYD	-30.861
>gi 8134669 sp O08665.1 S	197	GELYSGTAADFMR	DFAIFR	-37.224
>gi 8134669 sp O08665.1 S	203	TAADFMRDFAIFR	TLGHHH	-43.78
>gi 8134669 sp O08665.1 S	212	FAIFRTLGHHPHPIR	TEQHDS	-20.006
>gi 8134669 sp O08665.1 S	219	GHHHPHPIRTEQHDSR	WLNDPR	-39.001
>gi 8134669 sp O08665.1 S	225	RTEQHDSRWLNDPR	FISAHL	-35.632
>gi 8134669 sp O08665.1 S	248	SDNPEDDKVYFFFR	ENAI DG	-40.064
>gi 8134669 sp O08665.1 S	264	AIDGESHGKATHAR	IGQICK	-27.509
>gi 8134669 sp O08665.1 S	277	RIGQICKNDFGGHR	SLVNKW	-30.214
>gi 8134669 sp O08665.1 S	290	RSLVNKWTTFLKAR	LICSVP	-30.334
>gi 8134669 sp O08665.1 S	349	KGSAVCMYSMSDVR	RVFLGP	-35.767
>gi 8134669 sp O08665.1 S	350	GSAVCMYSMSDVRR	VFLGPY	-31.717
>gi 8134669 sp O08665.1 S	359	SDVRRVFLGPYAHR	DGPNYQ	-25.521
>gi 8134669 sp O08665.1 S	372	RDGPNYQWVPYQGR	VPYPRP	-33.259
>gi 8134669 sp O08665.1 S	377	YQWVPYQGRVPYPR	PGTCPS	-24.103
>gi 8134669 sp O08665.1 S	404	STKDLPDDVITFAR	SHPAMY	-29.554
>gi 8134669 sp O08665.1 S	419	HPAMYNPVFPINNR	PIMIKT	-28.947
>gi 8134669 sp O08665.1 S	438	TDVNYQFTQIVVDR	VDAEDG	-37.277
>gi 8134669 sp O08665.1 S	484	DLEEVLEEMTVFR	EPTTIS	-38.868
>gi 8134669 sp O08665.1 S	516	IGSTAGVAQLPLHR	CDIYGK	-28.8
>gi 8134669 sp O08665.1 S	531	DIYGKACAECCLAR	DPYCAW	-39.474
>gi 8134669 sp O08665.1 S	544	RDYCAWDGSSCSR	YFPTAK	-34.899
>gi 8134669 sp O08665.1 S	551	DGSSCSRYFPTAKR	RTRRQD	-21.593
>gi 8134669 sp O08665.1 S	552	GSSCSRYFPTAKRR	TRRQDI	-21.85
>gi 8134669 sp O08665.1 S	554	SCSRYFPTAKRRTR	RQDIRN	7.335

>gi 8134669 sp O08665.1 S	559	FPTAKRRTRRQDIR	NGDPLT	-23.112
>gi 8134669 sp O08665.1 S	584	QHHDNHHGSPLEER	IYGVVE	-40.177
>gi 8134669 sp O08665.1 S	604	NSSTFLECSPKSQR	ALVYWQ	-2.355
>gi 8134669 sp O08665.1 S	613	PKSQRALVYWQFQR	RNEDRK	-34.518
>gi 8134669 sp O08665.1 S	614	KSQRALVYWQFQRR	NEDRKE	-30.265
>gi 8134669 sp O08665.1 S	618	ALVYWQFQRRNEDR	KEEIRM	-33.173
>gi 8134669 sp O08665.1 S	623	QFQRRNEDRKEEIR	MGDHII	-26.417
>gi 8134669 sp O08665.1 S	630	DRKEEIRMGDHIIR	TEQGLL	-29.87
>gi 8134669 sp O08665.1 S	638	GDHIIRTEQGLLR	SLQKKD	-20.999
>gi 8134669 sp O08665.1 S	705	MSSSMTSPQKVWYR	DFMQLI	-15.739
>gi 8134669 sp O08665.1 S	729	LNTMDEFCEQVWKR	DRKQRR	-22.264
>gi 8134669 sp O08665.1 S	731	TMDEFCEQVWKRDR	KQRRQR	-33.59
>gi 8134669 sp O08665.1 S	734	EFCEQVWKRDRKQR	RQRPGH	3.611
>gi 8134669 sp O08665.1 S	735	FCEQVWKRDRKQRR	QRPGHS	5.267
>gi 8134669 sp O08665.1 S	737	EQVWKRDRKQRRQR	PGHSQG	5.179
>gi 8134669 sp O08665.1 S	758	SNKWKHMQESKKGR	NRRTHE	-13.115
>gi 8134669 sp O08665.1 S	760	KWKHMQESKKGRNR	RTHEFE	-16.771
>gi 8134669 sp O08665.1 S	761	WKHMQESKKGRNRR	THEFER	2.217
>gi 8134669 sp O08665.1 S	767	SKKGRNRRTHEFER	APRSV-	-34.329
>gi 8134669 sp O08665.1 S	770	GRNRRTHEFERAPR	SV----	-0.699
>gi 21542456 sp P02778.2	26	FLTLSGIQGVPLSR	TVRCTC	-29.458
>gi 21542456 sp P02778.2	29	LSGIQGVPLSRTVR	CTCISI	0.604
>gi 21542456 sp P02778.2	43	CTCISISNPVNPR	SLEKLE	-15.992
>gi 21542456 sp P02778.2	59	EKLEIIPASQFCPR	VEIIAT	-41.207
>gi 21542456 sp P02778.2	73	VEIIATMKKKGEKR	CLNPES	-10.455
>gi 21542456 sp P02778.2	93	KAIKNLLKAVSKER	SKRSP-	-29.481
>gi 124494 sp P17515.1 CX	26	LLGLSGTQGIPLAR	TVRCNC	-27.537
>gi 124494 sp P17515.1 CX	29	LSGTQGIPLARTVR	CNCIHI	-2.488
>gi 124494 sp P17515.1 CX	41	VRCNCIHIDGPPVR	MRAIGK	-45.101
>gi 124494 sp P17515.1 CX	43	CNCIHIDGPPVRMR	AIGKLE	-20.491
>gi 124494 sp P17515.1 CX	59	GKLEIIPASLSCPR	VEIIAT	-39.14
>gi 124494 sp P17515.1 CX	73	VEIIATMKKNDEQR	CLNPES	-25.245
>gi 124494 sp P17515.1 CX	93	KTIKNLMKAFSQKR	SKRAP-	-14.97
>gi 63025222 ref NP_00065	25	LLPLLWLLVLTGR	PAAGLS	-32.025
>gi 63025222 ref NP_00065	43	LSTCKTIDMELVKR	KRIEAI	-31.599
>gi 63025222 ref NP_00065	45	TCKTIDMELVKRKR	IEAIRG	-19.836
>gi 63025222 ref NP_00065	50	DMELVKRKRIEAI	GQILSK	-27.511
>gi 63025222 ref NP_00065	58	RIEAIHQILSKLR	LASPPS	-34.512
>gi 63025222 ref NP_00065	85	PLPEAVLALYNSTR	DRVAGE	-35.128
>gi 63025222 ref NP_00065	87	PEAVLALYNSTRDR	VAGESA	-40.085
>gi 63025222 ref NP_00065	110	PEPEADYYAKEVTR	VLMVET	-28.377
>gi 63025222 ref NP_00065	141	THSIYMFNTSELR	EAVPEP	-28.879
>gi 63025222 ref NP_00065	152	ELREAVPEPVLLSR	AELRLL	-29.277

>gi 63025222 ref NP_00065	156	AVPEPVLLSRAELR	LLRLKL	-25.88
>gi 63025222 ref NP_00065	159	EPVLLSRAELRLLR	LKLVKE	-24.418
>gi 63025222 ref NP_00065	180	HVELYQKYSNNSWR	YLSNRL	-28.805
>gi 63025222 ref NP_00065	185	QKYSNNSWRYSNR	LLAPSD	-30.87
>gi 63025222 ref NP_00065	205	SPEWLSFDVTGVVR	QWLSRG	-32.027
>gi 63025222 ref NP_00065	210	SFDVTGVVRQWLSR	GGEIEG	-22.304
>gi 63025222 ref NP_00065	218	RQWLSRGGEIEGFR	LSAHCS	-46.139
>gi 63025222 ref NP_00065	228	EGFRLSAHCSCDSR	DNTLQV	-40.43
>gi 63025222 ref NP_00065	243	NLQVDINGFTTGR	RGDLAT	-30.728
>gi 63025222 ref NP_00065	244	TLQVDINGFTTGRR	GDLATI	-23.445
>gi 63025222 ref NP_00065	255	GRRGDLATIHGMNR	PFLLLM	-39.11
>gi 63025222 ref NP_00065	267	NRPFLLMATPLER	AQHLQS	-33.555
>gi 63025222 ref NP_00065	275	ATPLERAQHLQSSR	HRRALD	-23.042
>gi 63025222 ref NP_00065	277	PLERAQHLQSSRHR	RALDTN	-22.663
>gi 63025222 ref NP_00065	296	NYCFSSTEKNCCVR	QLYIDF	-29.09
>gi 63025222 ref NP_00065	303	EKNCCVRQLYIDFR	KDLGWK	-39.481
>gi 63025222 ref NP_00065	372	QALEPLPIVYVGR	KPKVEQ	-37.137
>gi 63025222 ref NP_00065	385	RKPKVEQLSNMIVR	SCKCS-	-26.055
>gi 557563 gb AAA50405.1	34	LSTCSTLDMQFMR	KRIEAI	-43.086
>gi 557563 gb AAA50405.1	36	TCSTLDMQFMRKR	IEAIRG	-31.478
>gi 557563 gb AAA50405.1	41	DMDQFMRKRIEAI	GQILSK	-27.511
>gi 557563 gb AAA50405.1	75	EVPPEVISIYNSTR	DLLQEK	-35.786
>gi 557563 gb AAA50405.1	84	YNSTRDLLQEKASR	RAAACE	-12.977
>gi 557563 gb AAA50405.1	85	NSTRDLLQEKASRR	AAACER	-12.336
>gi 557563 gb AAA50405.1	91	LQEASRRAAACER	ERSDEE	-39.633
>gi 557563 gb AAA50405.1	93	EKASRRAAACERER	SDEEYY	-41.934
>gi 557563 gb AAA50405.1	123	PPFPSEAIPTFYR	PYFRIV	-40.926
>gi 557563 gb AAA50405.1	127	SEAIPTFYRPFYR	IVRFDV	-33.12
>gi 557563 gb AAA50405.1	130	IPPTFYRPFYRIVR	FDVSAM	-7.109
>gi 557563 gb AAA50405.1	149	MEKNASNLVKAEFR	VFRLQN	-36.843
>gi 557563 gb AAA50405.1	152	NASNLVKAEFRVFR	LQNPKA	-29.982
>gi 557563 gb AAA50405.1	159	AEFRVFRVFNPKAR	VPEQRI	-29.839
>gi 557563 gb AAA50405.1	164	FRLQNPKARVPEQR	IELYQI	-32.999
>gi 557563 gb AAA50405.1	182	QILKSKDLTSPTQR	YIDSKV	-22.238
>gi 557563 gb AAA50405.1	192	PTQRYIDSKVVKTR	AEGEWL	-7.773
>gi 557563 gb AAA50405.1	215	VTDAVHEWLHHKDR	NLGFKI	-13.929
>gi 557563 gb AAA50405.1	248	NYIIPNKSELEAR	FAGIDG	-35.373
>gi 557563 gb AAA50405.1	270	TYTSGDQKTIKSTR	KKNSGK	-20.897
>gi 557563 gb AAA50405.1	289	KTPHLLMLLPSYR	LESQQT	-40.564
>gi 557563 gb AAA50405.1	297	LLPSYRLESQQTNR	RKKRAL	-25.617
>gi 557563 gb AAA50405.1	298	LPSYRLESQQTNR	KKRALD	-25.333
>gi 557563 gb AAA50405.1	310	RRKKRALDAAYCFR	NVQDNC	-34.118
>gi 557563 gb AAA50405.1	319	AYCFRNVQDNCCLR	PLYIDF	-42.395

>gi 557563 gb AAA50405.1	327	DNCCLRPLYIDFKR	DLGWKW	-20.262
>gi 557563 gb AAA50405.1	361	ACPYLWSSDTQHSR	VLSLYN	-36.347
>gi 13124605 sp O75888.1	23	APKGPPGNMGGPVR	EPALSV	-29.801
>gi 13124605 sp O75888.1	59	MALLTQQTEQLSLR	REVSRL	-35.553
>gi 13124605 sp O75888.1	60	ALLTQQTEQLSLRR	EVSRLQ	-13.079
>gi 13124605 sp O75888.1	64	QQTEQLSLRREVS	LQGTGG	-23.137
>gi 13124605 sp O75888.1	99	QSSDALEAWENGER	SRKRRR	-42.115
>gi 13124605 sp O75888.1	101	SDALEAWENGERSR	KRRAVL	-34.558
>gi 13124605 sp O75888.1	103	ALEAWENGERSRKR	RAVLTQ	-15.519
>gi 13124605 sp O75888.1	143	DSDVTEVMWQPALR	RGRGLQ	-35.712
>gi 13124605 sp O75888.1	144	SDVTEVMWQPALRR	GRGLQA	-19.665
>gi 13124605 sp O75888.1	146	VTEVMWQPALRRGR	GLQAQG	2.09
>gi 13124605 sp O75888.1	156	RRGRGLQAQGYGVR	IQDAGV	-36.934
>gi 13124605 sp O75888.1	184	FQDVTFTMGQVVS	EGQGRQ	-21.941
>gi 13124605 sp O75888.1	189	FTMGQVVSREGQGR	QETLFR	-29.973
>gi 13124605 sp O75888.1	195	VSREGQGRQETLFR	CIRSMP	-36.914
>gi 13124605 sp O75888.1	198	EGQGRQETLFR CIR	SMP SHP	-25.767
>gi 13124605 sp O75888.1	206	LFRCIRSMP SHPDR	AYNSCY	-31.541
>gi 13124605 sp O75888.1	231	HLHQGDILSVIIPR	ARAKLN	-18.557
>gi 13124605 sp O75888.1	233	HQGDILSVIIPRAR	AKLNLS	-29.042
>gi 1718154 sp P49767.1 V	23	ACSLAAALLPGPR	EAPAAA	-24.367
>gi 1718154 sp P49767.1 V	61	ATAYASKDLEEQLR	SVSSVD	-28.786
>gi 1718154 sp P49767.1 V	86	LYPEYWKMYKCQLR	KGGWQH	-30.159
>gi 1718154 sp P49767.1 V	94	YKCQLRKGQWQHNR	EQANLN	-29.829
>gi 1718154 sp P49767.1 V	102	GWQHNREQANLNSR	TEETIK	-34.834
>gi 1718154 sp P49767.1 V	127	YNTEILKSIDNEWR	KTQCMP	-45.474
>gi 1718154 sp P49767.1 V	134	SIDNEWKRKTQCMPR	EVCIDV	-24.107
>gi 1718154 sp P49767.1 V	161	TNTFFKPPCVSVYR	CGGCCN	-39.971
>gi 1718154 sp P49767.1 V	210	KPVTISFANHTSCR	CMSKLD	-37.097
>gi 1718154 sp P49767.1 V	219	HTSCRCMSKLDVYR	QVHSII	-27.177
>gi 1718154 sp P49767.1 V	226	SKLDVYRQVHSIIR	RSLPAT	-25.146
>gi 1718154 sp P49767.1 V	255	TCPTNYMWNHICR	CLAQED	-27.505
>gi 1718154 sp P49767.1 V	296	NKELDEETCQCVC	AGLRPA	-40.868
>gi 1718154 sp P49767.1 V	300	DEETCQCVC RAGLR	PASC GP	-27.773
>gi 1718154 sp P49767.1 V	312	LRPASC GPHKELDR	NSCQCV	-29.167
>gi 1718154 sp P49767.1 V	332	CKNKLFP SQCGANR	EF DENT	-38.316
>gi 1718154 sp P49767.1 V	345	REF DENTCQCVC KR	TC PRNQ	-32.393
>gi 1718154 sp P49767.1 V	349	ENTCQCVC KR TC PR	NQ PLNP	-21.98
>gi 1718154 sp P49767.1 V	385	KGKKFHHQTC SCYR	RP CTNR	-39.541
>gi 1718154 sp P49767.1 V	386	GKKFHHQTC SCYRR	PCTNRQ	-29.13
>gi 1718154 sp P49767.1 V	391	HQTC SCYRRPCTNR	QKACEP	-20.628
>gi 1718154 sp P49767.1 V	407	ACEPGFSYSEEVCR	CVPSYW	-40.011
>gi 1718154 sp P49767.1 V	415	SEEVCR CVPSYWKR	PQMS--	-21.158

>gi 17367984 sp O43915.1	31	LVQGSSNEHGPKR	SSQSTL	-9.929
>gi 17367984 sp O43915.1	39	HGPVKRSSQSTLER	SEQQIR	-36.705
>gi 17367984 sp O43915.1	45	SSQSTLERSEQQIR	AASSLE	-26.506
>gi 17367984 sp O43915.1	55	QQIRAASSLEELLR	ITHSED	-40.18
>gi 17367984 sp O43915.1	66	LLRITHSEDWKLWR	CRLRLK	-34.953
>gi 17367984 sp O43915.1	68	RITHSEDWKLWRCR	LRLKSF	-34.936
>gi 17367984 sp O43915.1	70	THSEDWKLWRCRLR	LKSFTS	-27.667
>gi 17367984 sp O43915.1	80	CRLRLKSFTSMDSR	SASHRS	-25.924
>gi 17367984 sp O43915.1	85	KSFTSMDSRSASHR	STRFAA	-12.883
>gi 17367984 sp O43915.1	108	DIETLKVIDEEWQR	TQCSPR	-53.615
>gi 17367984 sp O43915.1	114	VIDEEWQRTQCSPR	ETCVEV	-22.83
>gi 17367984 sp O43915.1	141	TNTFFKPPCVNVFR	CGGCCN	-40.629
>gi 17367984 sp O43915.1	197	ANHTGCKCLPTAPR	HPYSII	-27.239
>gi 17367984 sp O43915.1	204	CLPTAPRHPYSIIR	RSIQIP	-29.103
>gi 17367984 sp O43915.1	214	SIIRRSIQIPEEDR	CSHSKK	-45.594
>gi 17367984 sp O43915.1	268	PALCGPHMMFDEDR	CECVCK	-54.726
>gi 17367984 sp O43915.1	317	HKLFHPDTCSCEDR	CPFHTR	-44.334
>gi 17367984 sp O43915.1	323	DTCSCEDRCPFHTR	PCASGK	-38.763
>gi 17367984 sp O43915.1	337	PCASGKTACAKHCR	FPKEKR	-28.281
>gi 17367984 sp O43915.1	343	TACAKHCRFPKEKR	AAQGPH	5.328
>gi 17367984 sp O43915.1	351	FPKEKRAAQGPHSR	KNP---	-33.159
>gi 4502027 ref NP_000468	23	LFLFSSAYSRGVFR	RDAHKS	-25.935
>gi 4502027 ref NP_000468	34	VFRRDAHKSEVAHR	FKDLGE	-22.808
>gi 4502027 ref NP_000468	105	TLFGDKLCTVATLR	ETYGEM	-22.672
>gi 4502027 ref NP_000468	122	GEMADCCAKQEPER	NECFLQ	-40.948
>gi 4502027 ref NP_000468	138	CFLQHKKDDNPNLPR	LVRPEV	-30.201
>gi 4502027 ref NP_000468	141	QHKDDNPNLPRLVR	PEVDVM	-4.489
>gi 4502027 ref NP_000468	168	EETFLKKYLYEIAR	RHPYFY	-39.039
>gi 4502027 ref NP_000468	169	ETFLKKYLYEIARR	HPYFYA	-18.066
>gi 4502027 ref NP_000468	184	PYFYAPELFFAKR	YKAAFT	-23.271
>gi 4502027 ref NP_000468	210	DKAACLPLKDELRL	DEGKAS	-30.838
>gi 4502027 ref NP_000468	221	ELRDEGKASSAKQR	LKCASL	-28.922
>gi 4502027 ref NP_000468	233	QRLKCASLQKFGER	AFKAWA	-32.671
>gi 4502027 ref NP_000468	242	KFGERAFKAWAVAR	LSQRFP	-33.824
>gi 4502027 ref NP_000468	246	RAFKAWAVARLSQR	FPKAEF	-6.225
>gi 4502027 ref NP_000468	281	ECCHGDLLECADDR	ADLAKY	-51.752
>gi 4502027 ref NP_000468	360	KDVFLGMFLYFYAR	RHPDYS	-40.012
>gi 4502027 ref NP_000468	361	DVFLGMFLYFYARR	HPDYSV	-25.464
>gi 4502027 ref NP_000468	372	ARRHPDYSVLLLLR	LAKTYE	-30.44
>gi 4502027 ref NP_000468	434	QLGEYKFQNALLVR	YTKKVP	-27.667
>gi 4502027 ref NP_000468	452	VPQVSTPTLVEVSR	NLGKVG	-28.641
>gi 4502027 ref NP_000468	469	KVGSCKCKHPEAKR	MPCAED	-19.765
>gi 4502027 ref NP_000468	496	QLCVLHEKTPVSDR	VTKCCT	-32.021

>gi 4502027 ref NP_000468	508	DRVTKCTESLVNR	RPCFSA	-34.481
>gi 4502027 ref NP_000468	509	RVTKCCTESLVNRR	PCFSAL	-16.394
>gi 4502027 ref NP_000468	545	TFHADICTLSEKER	QIKKQT	-35.951
>gi 113580 sp P02770 ALBU	23	LFISGSFAFRGVFR	REAHKS	-26.752
>gi 113580 sp P02770 ALBU	34	VFRREAHKSEIAHR	FKDLGE	-22.245
>gi 113580 sp P02770 ALBU	105	TLFGDKLCAIPKLR	DNYGEL	-24.02
>gi 113580 sp P02770 ALBU	122	GELADCCAKQEPER	NECFLQ	-41.006
>gi 113580 sp P02770 ALBU	141	QHKDDNPNLPPFQR	PEAEAM	-34.201
>gi 113580 sp P02770 ALBU	168	PTSFLGHYLHEVAR	RHPYFY	-34.084
>gi 113580 sp P02770 ALBU	169	TSFLGHYLHEVARR	HPYFYA	-6.046
>gi 113580 sp P02770 ALBU	219	LDVAVKEKALVAVR	QRMKCS	-30.083
>gi 113580 sp P02770 ALBU	221	AVKEKALVAVRQR	MKCSSM	-20.162
>gi 113580 sp P02770 ALBU	229	AAVRQRMKCSSMQR	FGERAF	-32.648
>gi 113580 sp P02770 ALBU	233	QRMKCSSMQRFGER	AFKAWA	-30.082
>gi 113580 sp P02770 ALBU	242	RFGERAFKAWAVAR	MSQRFP	-29.439
>gi 113580 sp P02770 ALBU	246	RAFKAWAVARMSQR	FPNAEF	-15.928
>gi 113580 sp P02770 ALBU	281	ECCHGDLLECADDR	AELAKY	-52.965
>gi 113580 sp P02770 ALBU	360	KDVFLGTFLYEYSR	RHPDYS	-39.779
>gi 113580 sp P02770 ALBU	361	DVFLGTFLYEYSRR	HPDYSV	-22.967
>gi 113580 sp P02770 ALBU	372	SRRHPDYSVSLLLR	LAKKYE	-29.452
>gi 113580 sp P02770 ALBU	434	KLGEYGFQNAVLVR	YTQKAP	-22.514
>gi 113580 sp P02770 ALBU	452	APQVSTPTLVEAAR	NLGRVG	-28.044
>gi 113580 sp P02770 ALBU	456	STPTLVEAARNLGR	VGTKCC	-26.435
>gi 113580 sp P02770 ALBU	469	RVGTKCTLPEAQR	LPCVED	-36.318
>gi 113580 sp P02770 ALBU	483	LPCVEDYLSAILNR	LCVLHE	-29.617
>gi 113580 sp P02770 ALBU	508	EKVTKCCSGSLVER	RPCFSA	-33.678
>gi 113580 sp P02770 ALBU	509	KVTKCCSGSLVERR	PCFSAL	-17.154
>gi 113580 sp P02770 ALBU	602	DNCFATEGPNLVAR	SKEALA	-21.474
>gi 119761 sp P00742.2 FA	27	LAGLLLLGESLFIR	REQANN	-41.093
>gi 119761 sp P00742.2 FA	28	AGLLLLGESLFIRR	EQANNI	-17.438
>gi 119761 sp P00742.2 FA	37	LFIRREQANNILAR	VTRANS	-24.99
>gi 119761 sp P00742.2 FA	40	RREQANNILARVTR	ANSFLE	0.054
>gi 119761 sp P00742.2 FA	55	NSFLEEMKKGHLER	ECMEET	-22.957
>gi 119761 sp P00742.2 FA	68	RECMEETCSYEER	EVFEDS	-32.394
>gi 119761 sp P00742.2 FA	126	LEGFEGKNCELFT	KLCSLD	-42.423
>gi 119761 sp P00742.2 FA	153	CHEEQNSVVCSCAR	GYTLAD	-41.411
>gi 119761 sp P00742.2 FA	179	PTGPYPCGKQTLER	RKRSVA	-32.198
>gi 119761 sp P00742.2 FA	180	TGPYPCGKQTLERR	KRSVAQ	-22.972
>gi 119761 sp P00742.2 FA	227	PFDLLDFNQTPER	GDNNLT	-34.751
>gi 119761 sp P00742.2 FA	234	NQTQPERGDNNLTR	IVGGQE	-37.927
>gi 119761 sp P00742.2 FA	283	YILTAAHCLYQAKR	FKVRVG	-21.976
>gi 119761 sp P00742.2 FA	287	AAHCLYQAKRFKVR	VGDRNT	-22.05
>gi 119761 sp P00742.2 FA	291	LYQAKRFKVRVGDR	NTEQEE	-21.698

>gi 119761 sp P00742.2 FA	313	EAVHEVEVVIKHNR	FTKETY	-7.557
>gi 119761 sp P00742.2 FA	327	FTKETYDFDIAVLR	LKTPIT	-39.115
>gi 119761 sp P00742.2 FA	335	DIAVLRCLKTPITFR	MNVAPA	-26.254
>gi 119761 sp P00742.2 FA	346	TFRMNVAPACLPER	DWAEST	-43.723
>gi 119761 sp P00742.2 FA	366	LMTQKTGIVSGFGR	THEKGR	-38.392
>gi 119761 sp P00742.2 FA	372	GIVSGFGRTHEKGR	QSTRLK	-25.313
>gi 119761 sp P00742.2 FA	376	GFGRTHEKGRQSTR	LKMLEV	-20.997
>gi 119761 sp P00742.2 FA	387	STRCLKMLEVPYVDR	NSCKLS	-34.846
>gi 119761 sp P00742.2 FA	426	DACQGDSGGPHVTR	FKDTYF	-9.386
>gi 119761 sp P00742.2 FA	445	FVTGIVSWGEGCAR	KGKYG	-43.79
>gi 119761 sp P00742.2 FA	464	IYTKVTAFLKWIDR	SMKTRG	-31.929
>gi 119761 sp P00742.2 FA	469	TAFLKWIDRSMKTR	GLPKAK	-14.847
>gi 67476446 sp P00740.2	43	VFLDHENANKILNR	PKRYNS	-9.469
>gi 67476446 sp P00740.2	62	SGKLEEFVQGNLER	ECMEEK	-37.454
>gi 67476446 sp P00740.2	75	RECMEEKCSFEAR	EVFENT	-28.562
>gi 67476446 sp P00740.2	83	SFEAREVFENTER	TTEFWK	-44.934
>gi 67476446 sp P00740.2	140	NCELDVTCNIKNGR	CEQFCK	-16.261
>gi 67476446 sp P00740.2	162	ADNKVVCSCTEGYR	LAENQK	-47.374
>gi 67476446 sp P00740.2	180	QKSCEPAVPFPCGR	VSVSQT	-37.799
>gi 67476446 sp P00740.2	191	CGRVSVSQTSKLTR	AETVFP	-9.658
>gi 67476446 sp P00740.2	226	NITQSTQSFNDFTR	VVGGED	-39.914
>gi 67476446 sp P00740.2	294	EHNIEETEHTEQKR	NVIRII	-16.822
>gi 67476446 sp P00740.2	298	EETEHTEQKRN VIR	IIPHHN	-24.15
>gi 67476446 sp P00740.2	358	FLKFGSGYVSGWGR	VFHKGR	-38.358
>gi 67476446 sp P00740.2	364	GYVSGWGRV FHKGR	SALVLQ	-8.969
>gi 67476446 sp P00740.2	373	FHKGRSALVLQYLR	VPLVDR	-32.939
>gi 67476446 sp P00740.2	379	ALVLQYLRVPLVDR	ATCLRS	-31.549
>gi 67476446 sp P00740.2	384	YLRVPLVDRATCLR	STKFTI	-21.853
>gi 67476446 sp P00740.2	404	YNNMFCAGFHEGGR	DSCQGD	-31.191
>gi 67476446 sp P00740.2	449	AMKGKYG IYTKVSR	YVNWIK	-9.089
>gi 116594 sp P01024 CO3_	35	GSPMYSIITPNILR	LESEET	-35.606
>gi 116594 sp P01024 CO3_	94	NHMGNVFTTIPANR	EFKSEK	-29.504
>gi 116594 sp P01024 CO3_	102	TIPANREFKSEKGR	NKFVTV	-23.279
>gi 116594 sp P01024 CO3_	148	DKTIYTPGSTVLYR	IFTVNH	-33.997
>gi 116594 sp P01024 CO3_	161	RIFTVNHKLLPVGR	TVMVNI	-30.437
>gi 116594 sp P01024 CO3_	207	DIPELVNMGQWKIR	AYYENS	-34.972
>gi 116594 sp P01024 CO3_	258	IYNEKLEVTITAR	FLYGKK	-16.706
>gi 116594 sp P01024 CO3_	281	TAFVIFGIQDGEQR	ISLPES	-43.46
>gi 116594 sp P01024 CO3_	290	DGEQRISLPESLKR	IPIEDG	-26.627
>gi 116594 sp P01024 CO3_	304	IPIEDGSGEVVLSR	KVLLDG	-32.583
>gi 116594 sp P01024 CO3_	315	LSRKVLLDGVQNL	AEDLVG	-27.767
>gi 116594 sp P01024 CO3_	343	VILHSGSDMVQAER	SGIPIV	-35.192
>gi 116594 sp P01024 CO3_	386	MVFTNPDGSPAYR	VPVAVQ	-35.917

>gi 116594 sp P01024 CO3_	425	NTHPSQKPLSITVR	TKKQEL	-23.75
>gi 116594 sp P01024 CO3_	439	TKKQELSEAEQATR	TMQALP	-40.467
>gi 116594 sp P01024 CO3_	462	VGNSNNYLHLSVLR	TELRPG	-33.356
>gi 116594 sp P01024 CO3_	466	NNYLHLSVLRTEL	PGETLN	-24.376
>gi 116594 sp P01024 CO3_	478	LRPGETLNVNFLLR	MDRAHE	-30.797
>gi 116594 sp P01024 CO3_	481	GETLNVNFLLRMDR	AHEAKI	-23.915
>gi 116594 sp P01024 CO3_	488	FLLRMDRAHEAKIR	YYTYLI	-38.371
>gi 116594 sp P01024 CO3_	499	KIRYYTYLIMNKGR	LLKAGR	-36.215
>gi 116594 sp P01024 CO3_	505	YLIMNKGRLLKAGR	QVREPG	-6.714
>gi 116594 sp P01024 CO3_	508	MNKGRLLKAGRQVR	EPGQDL	7.183
>gi 116594 sp P01024 CO3_	530	LPLSITTDIFPSFR	LVAYYT	-37.87
>gi 116594 sp P01024 CO3_	544	LVAYYTLIGASGQR	EVVADS	-25.523
>gi 116594 sp P01024 CO3_	573	VGSLVVKSGQSEDR	QPVPGQ	-39.177
>gi 116594 sp P01024 CO3_	592	QQMTLKIEGDHGAR	VVLVAV	-33.048
>gi 116594 sp P01024 CO3_	657	LTFTSSSGQQTAR	AELQCP	-35.158
>gi 116594 sp P01024 CO3_	668	AQRAELQCPQPAAR	RRRSVQ	-29.492
>gi 116594 sp P01024 CO3_	669	QRAELQCPQPAARR	RRSVQL	-20.928
>gi 116594 sp P01024 CO3_	670	RAELQCPQPAARRR	RSVQLT	-13.787
>gi 116594 sp P01024 CO3_	679	AARRRRSVQLTEKR	MDKVGK	-22.309
>gi 116594 sp P01024 CO3_	691	KRMDKVGKYPKELR	KCCEDG	-27.606
>gi 116594 sp P01024 CO3_	699	YPKELRKCCEDGMR	ENPMRF	-49.27
>gi 116594 sp P01024 CO3_	704	RKCCEDGMRENPMR	FSCQRR	-26.103
>gi 116594 sp P01024 CO3_	709	DGMRENPMRFSCQR	RTRFIS	-28.201
>gi 116594 sp P01024 CO3_	710	GMRENPMRFSCQRR	TRFISL	-27.16
>gi 116594 sp P01024 CO3_	712	RENPMRFSCQRRT	FISLGE	-16.281
>gi 116594 sp P01024 CO3_	735	KVFLDCCNYITELR	RQHARA	-32.363
>gi 116594 sp P01024 CO3_	736	VFLDCCNYITELRR	QHARAS	-31.859
>gi 116594 sp P01024 CO3_	740	CCNYITELRRQHAR	ASHLGL	-8.28
>gi 116594 sp P01024 CO3_	748	RRQHARASHLGLAR	SNLDED	-20.052
>gi 116594 sp P01024 CO3_	764	LDEDIIAENIVSR	SEFPES	-30.502
>gi 116594 sp P01024 CO3_	834	FEVTVMQDFFIDLR	LPYSVV	-38.993
>gi 116594 sp P01024 CO3_	841	DDFIDLRLPYSVVR	NEQVEI	-37.475
>gi 116594 sp P01024 CO3_	848	LPYSVVRNEQVEIR	AVLYNY	-31.887
>gi 116594 sp P01024 CO3_	855	NEQVEIRAVLYNYR	QNQELK	-34.151
>gi 116594 sp P01024 CO3_	863	VLYNYRQNQELKVR	VELLHN	-39.476
>gi 116594 sp P01024 CO3_	880	LHNPAFCSLATTKR	RHQQTV	-23.087
>gi 116594 sp P01024 CO3_	881	HNPAFCSLATTKRR	HQQTVT	-17.509
>gi 116594 sp P01024 CO3_	926	KAAYVHHFISDGVR	KSLKVV	-39.669
>gi 116594 sp P01024 CO3_	937	GVRKSLKVVPEGIR	MNKTVA	-39.28
>gi 116594 sp P01024 CO3_	945	VPEGIRMNKTVAVR	TLDPER	-10.743
>gi 116594 sp P01024 CO3_	951	MNKTVAVRTLDPER	LGREGV	-46.61
>gi 116594 sp P01024 CO3_	954	TVAVRTLDPERLGR	EGVQKE	-3.114
>gi 116594 sp P01024 CO3_	979	DLSDQVPDTESETR	ILLQGT	-39.655

>gi 116594 sp P01024 CO3_	999	PVAQMTEDAVDAER	LKHLIV	-43.833
>gi 116594 sp P01024 CO3_	1042	DETEQWEKFGLEKR	QGALEL	-22.923
>gi 116594 sp P01024 CO3_	1060	ELIKKGYTQQLAFR	QPSSAF	-34.912
>gi 116594 sp P01024 CO3_	1072	FRQPSSAFAAFVKR	APSTWL	-14.373
>gi 116594 sp P01024 CO3_	1134	DAPVIHQEMIGGLR	NNNEKD	-32.252
>gi 116594 sp P01024 CO3_	1185	AGDFLEANYMNLQR	SYTVAI	-34.317
>gi 116594 sp P01024 CO3_	1201	TVAIAGYALAQMGR	LKGPLL	-32.594
>gi 116594 sp P01024 CO3_	1219	LLNKFLTAKDKNR	WEDPGK	-35.47
>gi 116594 sp P01024 CO3_	1254	LQLKDFDFVPPVVR	WLNEQR	-31.562
>gi 116594 sp P01024 CO3_	1260	DFVPPVVRWLNEQR	YGGGGY	-42.89
>gi 116594 sp P01024 CO3_	1303	QELNLDVSLQLPSR	SSKITH	-23.51
>gi 116594 sp P01024 CO3_	1310	SLQLPSRSSKITHR	IHWESA	-24.246
>gi 116594 sp P01024 CO3_	1320	ITHRIHWESASLLR	SEETKE	-27.114
>gi 116594 sp P01024 CO3_	1376	LKVTIKPAPETEKR	PQDAKN	-24.948
>gi 116594 sp P01024 CO3_	1391	QDAKNTMILEICTR	YRGDQD	-34.526
>gi 116594 sp P01024 CO3_	1393	AKNTMILEICTRYR	GDQDAT	-42.12
>gi 116594 sp P01024 CO3_	1427	DTDDLKQLANGVDR	YISKYE	-35.217
>gi 116594 sp P01024 CO3_	1441	YISKYELDKAFSDR	NTLIY	-28.65
>gi 116594 sp P01024 CO3_	1491	KVYAYYNLEESCTR	FYHPEK	-50.829
>gi 116594 sp P01024 CO3_	1507	HPEKEDGKLNKLCR	DELCRC	-26.207
>gi 116594 sp P01024 CO3_	1512	DGKLNKLCRDELRCR	CAEENC	-32.186
>gi 116594 sp P01024 CO3_	1532	FIQKSDDKVTLEER	LDKACE	-43.68
>gi 116594 sp P01024 CO3_	1548	KACEPGVDYVYKTR	LVKVQL	-31.936
>gi 116594 sp P01024 CO3_	1582	IKSGSDEVQVGQQR	TFISPI	-35.759
>gi 116594 sp P01024 CO3_	1591	VGQQRTFISPIKCR	EALKLE	-20.498
>gi 131067 sp P04070.1 PR	32	TPAPLDSVFSSSER	AHQVLR	-40.352
>gi 131067 sp P04070.1 PR	38	SVFSSSERAHQVLR	IRKRAN	-27.96
>gi 131067 sp P04070.1 PR	40	FSSSERAHQVLRIR	KRANSF	-28.028
>gi 131067 sp P04070.1 PR	51	RIRKRANSFLEELR	HSSLER	-34.045
>gi 131067 sp P04070.1 PR	57	NSFLEELRHSSLER	ECIEEI	-32.037
>gi 131067 sp P04070.1 PR	123	TCIDGIGSFSCDCR	SGWEGR	-40.444
>gi 131067 sp P04070.1 PR	129	GSFSCDCRSGWEGR	FCQREV	-27.788
>gi 131067 sp P04070.1 PR	133	CDCRSGWEGRFCQR	EVSFLN	-20.843
>gi 131067 sp P04070.1 PR	158	GGCTHYCLEEVGWR	RCSCAP	-43.333
>gi 131067 sp P04070.1 PR	159	GCTHYCLEEVGWRR	CSCAPG	-23.724
>gi 131067 sp P04070.1 PR	185	LLQCHPAVKFPCGR	PWKRME	-35.271
>gi 131067 sp P04070.1 PR	189	HPAVKFPCGRPWKR	MEKKRS	-20.869
>gi 131067 sp P04070.1 PR	194	FPCGRPWKRMEKKR	SHLKR	-16.357
>gi 131067 sp P04070.1 PR	211	KRDTEQEDQVDPR	LIDGKM	-37.226
>gi 131067 sp P04070.1 PR	219	DQVDPRLIDGKMTR	RGDSPW	-15.819
>gi 131067 sp P04070.1 PR	220	QVDPRLIDGKMTRR	GDSPWQ	-11.494
>gi 131067 sp P04070.1 PR	264	AAHCMDESKLLVR	LGEYDL	-25.081
>gi 131067 sp P04070.1 PR	271	SKKLLVRLGEYDLR	RWEKWE	-40.373

>gi 131067 sp P04070.1 PR	272	KKLLVRLGEYDLRR	WEKWEL	-37.914
>gi 131067 sp P04070.1 PR	328	IVPICLPDSGLAER	ELNQAG	-31.89
>gi 131067 sp P04070.1 PR	348	QETLVGTGWGYHSSR	EKEAKR	-14.917
>gi 131067 sp P04070.1 PR	354	GWGYHSSREKEAKR	NRTFVL	-24.609
>gi 131067 sp P04070.1 PR	356	GYHSSREKEAKRNR	TFVLNF	-20.98
>gi 131067 sp P04070.1 PR	394	VSENMLCAGILGDR	QDACEG	-38.2
>gi 131067 sp P04070.1 PR	440	GLLHNYGVYTKVSR	YLDWIH	-9.862
>gi 131067 sp P04070.1 PR	450	KVSRYLWDWIHGHIR	DKEAPQ	-32.286
>gi 4507907 ref NP_000543	27	ALILPGTLCAEGTR	GRSSTA	-41.533
>gi 4507907 ref NP_000543	29	ILPGTLCAEGTRGR	SSTARC	-28.507
>gi 4507907 ref NP_000543	34	LCAEGTRGRSSTAR	CSLFGS	-15
>gi 4507907 ref NP_000543	68	GYCSYLLAGGCQKR	SFSIIG	-17.108
>gi 4507907 ref NP_000543	81	RSFSIIGDFQNGKR	VLSLVY	-29.826
>gi 4507907 ref NP_000543	108	HLFVNGTVTQGDQR	VSMPYA	-39.232
>gi 4507907 ref NP_000543	139	YYKLSGEAYGFVAR	IDGSGN	-34.325
>gi 4507907 ref NP_000543	153	IDGSGNFQVLLSDR	YFNKTC	-38.642
>gi 4507907 ref NP_000543	202	NSWALSSGEQWCER	ASPPSS	-46.92
>gi 4507907 ref NP_000543	236	EQCQLLKSTSVFAR	CHPLVD	-24.961
>gi 4507907 ref NP_000543	273	GLECACPALLEYAR	TCAQEG	-39.989
>gi 4507907 ref NP_000543	302	SACSPVCPAGMEYR	QCVSPC	-35.296
>gi 4507907 ref NP_000543	310	AGMEYRQCVSPCAR	TCQSLH	-37.477
>gi 4507907 ref NP_000543	324	TCQSLHINEMCQER	CVDGCS	-42.968
>gi 4507907 ref NP_000543	356	VESTTEPCVHSGKR	YPPGTS	-19.875
>gi 4507907 ref NP_000543	365	HSGKRYPPGTSLSR	DCNTCI	-27.139
>gi 4507907 ref NP_000543	373	GTSLSRDCNTCICR	NSQWIC	-34.763
>gi 4507907 ref NP_000543	402	LVTGQSHFKSFDNR	YFTFSG	-32.308
>gi 4507907 ref NP_000543	416	YFTFSGICQYLLAR	DCQDHS	-33.976
>gi 4507907 ref NP_000543	436	FSIVIETVQCADDR	DAVCTR	-44.471
>gi 4507907 ref NP_000543	442	TVQCADDRDAVCTR	SVTVRL	-26.68
>gi 4507907 ref NP_000543	447	DDRDAVCTRSVTVR	LPGLHN	-18.289
>gi 4507907 ref NP_000543	481	GQDIQLPLLKGDLR	IQHTVT	-34.476
>gi 4507907 ref NP_000543	491	GDLRIQHTVTASVR	LSYGED	-32.147
>gi 4507907 ref NP_000543	505	LSYGEDLQMDWDGR	GRLLVK	-41.62
>gi 4507907 ref NP_000543	507	YGEDLQMDWDGRGR	LLVKLS	-40.239
>gi 4507907 ref NP_000543	545	GDDFLTPSGLAEPR	VEDFGN	-37.234
>gi 4507907 ref NP_000543	575	LQKQHSDPALNPR	MTRFSE	-32.53
>gi 4507907 ref NP_000543	578	QHSDPCALNPRMTR	FSEEAC	-0.743
>gi 4507907 ref NP_000543	597	CAVLTSPTFEACHR	AVSPLP	-35.854
>gi 4507907 ref NP_000543	606	EACHRAVSPLPYLR	NCRYDV	-30.042
>gi 4507907 ref NP_000543	609	HRAVSPLPYLRNCR	YDVCSC	-22.536
>gi 4507907 ref NP_000543	619	RNCRYDVCSCSDGR	ECLCGA	-41.518
>gi 4507907 ref NP_000543	636	CGALASYAAACAGR	GVRVAW	-26.368
>gi 4507907 ref NP_000543	639	LASYAAACAGRGRV	VAWREP	-18.043

>gi 4507907 ref NP_000543	643	AAACAGRGVVRVAWR	EPGRCE	-17.881
>gi 4507907 ref NP_000543	647	AGRGVVRVAWREPGR	CELNCP	-34.854
>gi 4507907 ref NP_000543	670	VYLQCGTPCNLTCR	SLSYPD	-33.478
>gi 4507907 ref NP_000543	698	EGCFCPPGLYMDER	GDCVPK	-45.086
>gi 4507907 ref NP_000543	760	LLPDAVLSSPLSHR	SKRSLS	-21.045
>gi 4507907 ref NP_000543	768	SPLSHRSKRSLSCR	PPMVKL	-24.753
>gi 4507907 ref NP_000543	782	PPMVKLVCPADNLR	AEGLEC	-34.616
>gi 4507907 ref NP_000543	816	GCVSGCLCPPGMVR	HENRCV	-33.809
>gi 4507907 ref NP_000543	820	GCLCPPGMVRHENR	CVALER	-16.95
>gi 4507907 ref NP_000543	826	GMVRHENRCVALER	CPCFHQ	-40.696
>gi 4507907 ref NP_000543	852	GETVKIGCNTCVCR	DRKWNC	-36.485
>gi 4507907 ref NP_000543	854	TVKIGCNTCVCRDR	KWNCTD	-44.319
>gi 4507907 ref NP_000543	906	LVQDYCGSNPGTFR	ILVGNK	-36.941
>gi 4507907 ref NP_000543	924	NKGCSPSVKCKKR	VTILVE	-18.85
>gi 4507907 ref NP_000543	945	GEIELFDGEVNVKR	PMKDET	-31.745
>gi 4507907 ref NP_000543	960	MKDETHFEVVESGR	YIILL	-33.054
>gi 4507907 ref NP_000543	976	ILLGKALSVVWDR	HLSISV	-31.672
>gi 4507907 ref NP_000543	1035	GNSWKVSSQCADTR	KVPLDS	-38.278
>gi 4507907 ref NP_000543	1061	NNIMKQTMVDSSCR	ILTSDV	-43.603
>gi 4507907 ref NP_000543	1121	AHVCAQHGVVVTWR	TATLCP	-22.565
>gi 4507907 ref NP_000543	1133	WRTATLCPQSCEER	NLRENG	-36.944
>gi 4507907 ref NP_000543	1136	ATLCPQSCEERNLR	ENGYEC	-12.083
>gi 4507907 ref NP_000543	1145	ERNLRENGYECEWR	YNSCAP	-42.827
>gi 4507907 ref NP_000543	1204	VPEDCPVCEVAGR	RFASGK	-39.365
>gi 4507907 ref NP_000543	1205	DPEDCPVCEVAGR	FASGKK	-20.188
>gi 4507907 ref NP_000543	1274	DISEPPLHDFYCSR	LLDLVF	-45.728
>gi 4507907 ref NP_000543	1287	RLLDLVFLLDGSSR	LSEAEF	-37.883
>gi 4507907 ref NP_000543	1306	FEVLKAFVVDMMER	LRISQK	-48.791
>gi 4507907 ref NP_000543	1308	VLKAFVVDMMERLR	ISQKWV	-39.399
>gi 4507907 ref NP_000543	1315	DMMERLRISQKWVR	VAVVEY	-25.368
>gi 4507907 ref NP_000543	1334	YHDGSHAYIGLKDR	KRPSEL	-38.232
>gi 4507907 ref NP_000543	1336	DGSHAYIGLKDRKR	PSELRR	-15.101
>gi 4507907 ref NP_000543	1341	YIGLKDRKRPSELR	RIASQV	-22.529
>gi 4507907 ref NP_000543	1342	IGLKDRKRPSELRR	IASQVK	-19.778
>gi 4507907 ref NP_000543	1374	LKYTLFQIFSKIDR	PEASRI	-35.894
>gi 4507907 ref NP_000543	1379	FQIFSKIDRPEASR	IALLM	-30.128
>gi 4507907 ref NP_000543	1392	RIALLMASQEPQR	MSRNFV	-32.681
>gi 4507907 ref NP_000543	1395	LLMASQEPQRMSR	NFVRYV	-6.608
>gi 4507907 ref NP_000543	1399	ASQEPQRMSRNFVR	YVQGLK	-18.967
>gi 4507907 ref NP_000543	1426	PVGIGPHANLKQIR	LIEKQA	-28.574
>gi 4507907 ref NP_000543	1450	AFVLSSVDELEQQR	DEIVSY	-42.961
>gi 4507907 ref NP_000543	1492	GPGLLGVSTLGPKR	NSMVLD	-18.782
>gi 4507907 ref NP_000543	1516	LEGSKDIGEADFNR	SKEFME	-38.268

>gi 4507907 ref NP_000543	1527	FNRSKEFMEEVIQR	MDVGQD	-35.966
>gi 4507907 ref NP_000543	1564	PFSEAQSKGDILQR	VREIRY	-33.693
>gi 4507907 ref NP_000543	1566	SEAQSKGDILQVR	EIRYQG	-26.734
>gi 4507907 ref NP_000543	1569	QSKGDILQVRREIR	YQGGNR	-14.206
>gi 4507907 ref NP_000543	1575	LQRVREIRYQGGNR	TNTGLA	-36.159
>gi 4507907 ref NP_000543	1583	YQGGNRTNTGLALR	YLS DHS	-25.054
>gi 4507907 ref NP_000543	1597	YLS DHSFLVSQGDR	EQAPNL	-34.163
>gi 4507907 ref NP_000543	1618	YMVTGNPASDEIKR	LPGDIQ	-32.408
>gi 4507907 ref NP_000543	1641	IGVGPANVQELER	IGWPNA	-48.952
>gi 4507907 ref NP_000543	1659	NAPILIQDFETLPR	EAPDLV	-30.782
>gi 4507907 ref NP_000543	1668	ETLPREAPDLVLQR	CCSGEG	-28.604
>gi 4507907 ref NP_000543	1726	FAKAFISKANIGPR	LTQVSV	-25.811
>gi 4507907 ref NP_000543	1763	EKAHLLSLVDVMQR	EGGPSQ	-29.966
>gi 4507907 ref NP_000543	1779	GPSIQDALGFAVR	YLTSEM	-28.356
>gi 4507907 ref NP_000543	1789	FAVRYLTSEMHGAR	PGASKA	-23.118
>gi 4507907 ref NP_000543	1816	VSVDSVDAADAAR	SNRVTV	-28.08
>gi 4507907 ref NP_000543	1819	DSVDAADAARSNR	VTVFPI	-16.626
>gi 4507907 ref NP_000543	1830	SNRVTVFPIGIGDR	YDAAQL	-39.211
>gi 4507907 ref NP_000543	1837	PIGIGDRYDAAQLR	ILAGPA	-36.191
>gi 4507907 ref NP_000543	1853	AGPAGDSNVVKLQR	IEDLPT	-28.102
>gi 4507907 ref NP_000543	1877	GNSFLHKLCSGFVR	ICMDED	-40.218
>gi 4507907 ref NP_000543	1888	FVRICMDEDGNEKR	PGDVWT	-28.037
>gi 4507907 ref NP_000543	1916	TCQPDGQTLLKSHR	VNCDRG	-21.506
>gi 4507907 ref NP_000543	1921	GQTLLKSHRVNCDR	GLRPSC	-31.232
>gi 4507907 ref NP_000543	1924	LLKSHRVNCDRGLR	PSCPNS	-25.243
>gi 4507907 ref NP_000543	1943	SQSPVKEETCGCR	WTCPCV	-47.52
>gi 4507907 ref NP_000543	1956	RWTCPVCTGSSTR	HIVTFD	-26.166
>gi 4507907 ref NP_000543	1998	EVILHNGACSPGAR	QGCMKS	-33.952
>gi 4507907 ref NP_000543	2027	VELHSDMEVTVNGR	LVSVPY	-28.489
>gi 4507907 ref NP_000543	2051	MEVNVYGAIMHEVR	FNHLGH	-32.194
>gi 4507907 ref NP_000543	2099	GICDENGANDFMLR	DGTVTT	-37.313
>gi 4507907 ref NP_000543	2118	TDWKTLVQEWTVQR	PGQTCQ	-42.391
>gi 4507907 ref NP_000543	2185	QVCEVIASYAHLR	TNGVCV	-35.808
>gi 4507907 ref NP_000543	2194	AHLCRTNGVCVDWR	TPDFCA	-40.519
>gi 4507907 ref NP_000543	2218	PSLVYHCEHGCP	HCDGNV	-37.877
>gi 4507907 ref NP_000543	2287	DHQPCQICTCLSGR	KVNCTT	-33.323
>gi 4507907 ref NP_000543	2311	TAKAPTCGLCEVAR	LRQNAD	-39.526
>gi 4507907 ref NP_000543	2313	KAPTCGLCEVARLR	QNADQC	-32.901
>gi 4507907 ref NP_000543	2342	PVSCDLPPVPHCER	GLQPTL	-33.249
>gi 4507907 ref NP_000543	2355	RGLQPTLTNPGEER	PNFTCA	-38.88
>gi 4507907 ref NP_000543	2363	NPGEERPNFTCACR	KEECKR	-41.706
>gi 4507907 ref NP_000543	2369	PNFTCACRKEECKR	VSPPSC	-29.021
>gi 4507907 ref NP_000543	2379	ECKRVSPSPCPHR	LPTLRK	-34.435

>gi 4507907 ref NP_000543	2384	SPPSCPPHRLPTLR	KTQCCD	-23.03
>gi 4507907 ref NP_000543	2434	TTTTCLPDKVCVHR	STIYPV	-17.957
>gi 4507907 ref NP_000543	2464	CTCTDMEDAVMGLR	VAQCSQ	-30.606
>gi 4507907 ref NP_000543	2478	VAQCSQKPCEDSCR	SGFTYV	-47.817
>gi 4507907 ref NP_000543	2493	GFTYVLHEGECCGR	CLPSAC	-38.319
>gi 4507907 ref NP_000543	2507	CLPSACEVVTGSPR	GDSQSS	-25.305
>gi 4507907 ref NP_000543	2535	ASPENPCLINECVR	VKEEVF	-43.832
>gi 4507907 ref NP_000543	2545	ECVRVKEEVFIQQR	NVSCPQ	-19.312
>gi 4507907 ref NP_000543	2575	QLSCKTSACCPSCR	CERMEA	-43.917
>gi 4507907 ref NP_000543	2578	CKTSACCPSCRCER	MEACML	-38.421
>gi 4507907 ref NP_000543	2604	PGKTVMIDVCTTCR	CMVQVG	-44.45
>gi 4507907 ref NP_000543	2620	VQVGVISGFKLECR	KTTCNP	-36.7
>gi 4507907 ref NP_000543	2643	GYKEENNTGECCGR	CLPTAC	-37.132
>gi 4507907 ref NP_000543	2654	CGRCLPTACTIQLR	GGQIMT	-28.217
>gi 4507907 ref NP_000543	2663	TIQLRGGQIMTLKR	DETLQD	-28.611
>gi 4507907 ref NP_000543	2681	QDGCDFHCKVNER	GEYFWE	-36.222
>gi 4507907 ref NP_000543	2689	CKVNERGEYFWEKR	VTGCPP	-27.002
>gi 4507907 ref NP_000543	2730	DTCEEPECNDITAR	LQYVKV	-33.549
>gi 4507907 ref NP_000543	2778	NDVQDQCSCSPTR	TEPMQV	-37.803
>gi 4507907 ref NP_000543	2809	HEVLNAMECKCSPR	KCSK--	-31.48
>gi 125484 sp P08581.3 ME	21	APGILVLLFTLVQR	SNGECK	-29.13
>gi 125484 sp P08581.3 ME	138	YYDDQLISCGSVNR	GTCQRH	-32.661
>gi 125484 sp P08581.3 ME	143	LISCGSVNRGTCQR	HVFPHN	-25.21
>gi 125484 sp P08581.3 ME	191	SALGAKVLSSVKDR	FINFFV	-25.49
>gi 125484 sp P08581.3 ME	217	SYFPDHPLHSISVR	RLKETK	-6.7
>gi 125484 sp P08581.3 ME	218	YFPDHPLHSISVRR	LKETKD	-22.166
>gi 125484 sp P08581.3 ME	242	LTDQSYIDVLPEFR	DSYPIK	-31.513
>gi 125484 sp P08581.3 ME	266	FESNNFIYFLTVQR	ETLDAQ	-28.394
>gi 125484 sp P08581.3 ME	277	VQRETLDQAQTFHTR	IIRFCS	-35.581
>gi 125484 sp P08581.3 ME	280	ETLDAQTFHTRIIR	FCSINS	-0.933
>gi 125484 sp P08581.3 ME	304	YMEMPLCILTEKR	KKRSTK	-29.616
>gi 125484 sp P08581.3 ME	331	QAAYVSKPGAQLAR	QIGASL	-20.415
>gi 125484 sp P08581.3 ME	359	FAQSKPDSAEPMDR	SAMCAF	-35.997
>gi 125484 sp P08581.3 ME	384	NDFFNKIVNKNNVR	CLQHFY	-23.844
>gi 125484 sp P08581.3 ME	400	QHFYGPNEHCENR	TLLRNS	-38.898
>gi 125484 sp P08581.3 ME	404	GPNHEHCENRLLR	NSSGCE	-19.513
>gi 125484 sp P08581.3 ME	412	NRTLLRNSSGCEAR	RDEYRT	-28.042
>gi 125484 sp P08581.3 ME	413	RTLLRNSSGCEARR	DEYRTE	-30.533
>gi 125484 sp P08581.3 ME	417	RNSSGCEARRDEYR	TEFTTA	-31.293
>gi 125484 sp P08581.3 ME	426	RDEYRTEFTTALQR	VDLFMG	-33.517
>gi 125484 sp P08581.3 ME	461	GDLTIANLGTSEGR	FMQVVV	-35.662
>gi 125484 sp P08581.3 ME	469	GTSEGRFMQVVVSR	SGPSTP	-19.721
>gi 125484 sp P08581.3 ME	521	KKITKIPLNGLGCR	HFQSCS	-37.803

>gi 125484 sp P08581.3 ME	547	PFVQCGWCHDKCVR	SEECLS	-31.173
>gi 125484 sp P08581.3 ME	580	KVFPNSAPLEGGTR	LTICGW	-39.748
>gi 125484 sp P08581.3 ME	591	GTRLTICGWDFGFR	RNNKFD	-43.221
>gi 125484 sp P08581.3 ME	592	TRLTICGWDFGFRR	NNKFDL	-27.014
>gi 125484 sp P08581.3 ME	602	GFRRNNKFDLKKTR	VLLGNE	-26.356
>gi 125484 sp P08581.3 ME	688	LTLTGNYLNSGNSR	HISIGG	-29.189
>gi 125484 sp P08581.3 ME	731	TEFAVKLKIDLANR	ETSIFS	-40.434
>gi 125484 sp P08581.3 ME	739	IDLANRETSIFSyr	EDPIVY	-29.293
>gi 125484 sp P08581.3 ME	774	TGVGKNLNSVSVPR	MVINVH	-23.801
>gi 125484 sp P08581.3 ME	784	SVPRMVINVHEAGR	NFTVAC	-33.726
>gi 125484 sp P08581.3 ME	793	HEAGRNFVACQHR	SNSEII	-23.569
>gi 125484 sp P08581.3 ME	958	LLLLLGFLLWKKR	KQIKDL	-30.259
>gi 125484 sp P08581.3 ME	970	KRKQIKDLGSELVR	YDARVH	-30.881
>gi 125484 sp P08581.3 ME	974	IKDLGSELVRYDAR	VHTPHL	-33.472
>gi 125484 sp P08581.3 ME	982	VRYDARVHTPHLDR	LVSARS	-31.673
>gi 125484 sp P08581.3 ME	987	RVHTPHLDRLVSAR	SVSPTT	8.735
>gi 125484 sp P08581.3 ME	1004	PTTEMVSNESVDYR	ATFPED	-34.621
>gi 125484 sp P08581.3 ME	1022	EDQFPNSSQNGSCR	QVQYPL	-30.634
>gi 125484 sp P08581.3 ME	1086	PSSLIVHFNEVIGR	GHFGCV	-34.785
>gi 125484 sp P08581.3 ME	1114	DGKKIHCavKSLNR	ITDIGE	-28.069
>gi 125484 sp P08581.3 ME	1148	SHPNVLSLLGICLR	SEGSPPL	-28.556
>gi 125484 sp P08581.3 ME	1166	PLVVLPYMKHGDLR	NFIRNE	-30.133
>gi 125484 sp P08581.3 ME	1170	LPYMKHGDLRNFIR	NETHNP	-29.963
>gi 125484 sp P08581.3 ME	1203	KGMKYLASKKFVHR	DLAARN	-14.384
>gi 125484 sp P08581.3 ME	1208	LASKKFVHRDLAAR	NCMLDE	-18.651
>gi 125484 sp P08581.3 ME	1227	EKFTVKVADFLAR	DMYDKE	-38.565
>gi 125484 sp P08581.3 ME	1279	VWSFGVVLWELMTR	GAPPYP	-37.707
>gi 125484 sp P08581.3 ME	1300	VNTFDITVYLLQGR	RLLQPE	-30.441
>gi 125484 sp P08581.3 ME	1301	NTFDITVYLLQGRR	LLQPEY	-20.631
>gi 125484 sp P08581.3 ME	1327	EVMLKCWHPKAEMR	PSFSEL	-27.518
>gi 125484 sp P08581.3 ME	1336	KAEMRPSFSELVSR	ISAIFS	-35.462
>gi 125484 sp P08581.3 ME	1382	LSSDNADDEVDR	PASFWE	-39.189
>gi 33112647 sp P06213.2	41	HLYPGEVCPGMDIR	NNLTRL	-37.693
>gi 33112647 sp P06213.2	46	EVCPGMDIRNNLTR	LHELEN	-32.958
>gi 33112647 sp P06213.2	69	IEGHLQILLMFKTR	PEDFRD	-35.425
>gi 33112647 sp P06213.2	74	QILLMFKTRPEDFR	DLSFPK	-30.325
>gi 33112647 sp P06213.2	92	PKLIMITDYLLLFR	VYGLES	-39.678
>gi 33112647 sp P06213.2	110	ESLKDLFPNLTvir	GSRLFF	-30.579
>gi 33112647 sp P06213.2	113	KDLFPNLTvirGSR	LFFNYA	-23.416
>gi 33112647 sp P06213.2	141	LKELGLYNLMNITR	GSVRIE	-27.061
>gi 33112647 sp P06213.2	145	GLYNLMNITRGSVR	IEKNNE	-30.6
>gi 33112647 sp P06213.2	162	NNELCYLATIDWSR	ILDSVE	-37.748
>gi 33112647 sp P06213.2	208	NCPATVINGQFVER	CWTHSH	-38.952

>gi 33112647 sp P06213.2	256	CSQPDDPTKCVACR	NFYLDG	-31.833
>gi 33112647 sp P06213.2	263	TKCVACRNFYLDGR	CVETCP	-36.164
>gi 33112647 sp P06213.2	279	ETCPPPYHFDQWR	CVNFSF	-31.852
>gi 33112647 sp P06213.2	297	SFCQDLHHKCKNSR	RQGCHQ	-23.508
>gi 33112647 sp P06213.2	298	FCQDLHHKCKNSRR	QGCHQY	-19.405
>gi 33112647 sp P06213.2	358	EKTIDSVTSAQELR	GCTVIN	-25.092
>gi 33112647 sp P06213.2	372	GCTVINGSLIINIR	GGNNLA	-25.789
>gi 33112647 sp P06213.2	398	LGLIEEISGYLKIR	RSYALV	-33.682
>gi 33112647 sp P06213.2	399	GLIEEISGYLKIRR	SYALVS	-0.737
>gi 33112647 sp P06213.2	410	IRRYALVSLSFFR	KLRLIR	-37.085
>gi 33112647 sp P06213.2	413	SYALVSLSFFRKLRL	LIRGET	-21.283
>gi 33112647 sp P06213.2	416	LVLSFFRKLRLIR	GETLEI	-2.592
>gi 33112647 sp P06213.2	436	GNYSFYALDNQNLRL	QLWDWS	-31.87
>gi 33112647 sp P06213.2	478	EIHKMEEVSGTKGR	QERNDI	-29.989
>gi 33112647 sp P06213.2	481	KMEEVSGTKGRQER	NDIALK	-15.053
>gi 33112647 sp P06213.2	506	ASCENELLKFSYIR	TSFDKI	-32.897
>gi 33112647 sp P06213.2	515	FSYIRTSFDKILLR	WEPYWP	-31.213
>gi 33112647 sp P06213.2	525	ILLRWEPYWPPDFR	DLLGFM	-39.169
>gi 33112647 sp P06213.2	566	SNSWTVVDIDPPLR	SNDPKS	-37.577
>gi 33112647 sp P06213.2	581	NDPKSQNHGWLMLR	GLKPWT	-25.611
>gi 33112647 sp P06213.2	603	AIFVKTLVTFSDER	RTYGAK	-43.437
>gi 33112647 sp P06213.2	604	IFVKTLVTFSDERR	TYGAKS	-35.603
>gi 33112647 sp P06213.2	661	PNGNITHYLVFWER	QAEDSE	-35.558
>gi 33112647 sp P06213.2	683	ELDYLCKGLKPSR	TWSPPF	-20.078
>gi 33112647 sp P06213.2	729	DSQILKELEESSFR	KTFEDY	-45.534
>gi 33112647 sp P06213.2	744	TFEDYLHNVVFPVPR	KTSSGT	-29.97
>gi 33112647 sp P06213.2	756	PRKTSSGTGAEDPR	PSRKRR	-34.028
>gi 33112647 sp P06213.2	759	TSSGTGAEDPRPSR	KRRSLG	-25.26
>gi 33112647 sp P06213.2	761	SGTGAEDPRPSRKR	RSLGDV	-12.592
>gi 33112647 sp P06213.2	796	TSSTSVPTSPEEHR	PFEKVV	-34.325
>gi 33112647 sp P06213.2	813	KVVNKESLVISGLR	HFTGYR	-31.186
>gi 33112647 sp P06213.2	819	SLVISGLRHFTGYR	IELQAC	-42.749
>gi 33112647 sp P06213.2	833	IELQACNQDTPEER	CSVAAY	-43.384
>gi 33112647 sp P06213.2	843	PEERCSVAAYVSAR	TMPEAK	-34.962
>gi 33112647 sp P06213.2	889	EPNGLIVLYEVSYSR	RYGDEE	-40.033
>gi 33112647 sp P06213.2	890	PNGLIVLYEVSYSRR	YGDEEL	-27.827
>gi 33112647 sp P06213.2	902	RRYGDEELHLCVSR	KHFALE	-34.149
>gi 33112647 sp P06213.2	909	LHLCVSRKHFALER	GCRLRG	-34.391
>gi 33112647 sp P06213.2	912	CVSRKHFALERGCR	LRGLSP	-30.131
>gi 33112647 sp P06213.2	914	SRKHFALERGCRLR	GLSPGN	-15.851
>gi 33112647 sp P06213.2	924	CRLRGLSPGNYSVR	IRATSL	-34.493
>gi 33112647 sp P06213.2	926	LRGLSPGNYSVRIR	ATSLAG	-21.941
>gi 33112647 sp P06213.2	980	LFSVVIGSIYFLRL	KRQPDG	-35.923

>gi 33112647 sp P06213.2	982	SVVIGSIYLF LRKR	QPDGPL	-18.528
>gi 33112647 sp P06213.2	1020	PCSVYVPDEWEVSR	EKITLL	-44.741
>gi 33112647 sp P06213.2	1027	DEWEVSREKITLLR	ELGQGS	-17.077
>gi 33112647 sp P06213.2	1043	GQGSFGMVYEGNAR	DIIKGE	-32.749
>gi 33112647 sp P06213.2	1053	GNARDIIKGEAETR	VAVKTV	-37.161
>gi 33112647 sp P06213.2	1066	RVAVKTVNESASLR	ERIEFL	-32.292
>gi 33112647 sp P06213.2	1068	AVKTVNESASLRER	IEFLNE	-38.484
>gi 33112647 sp P06213.2	1088	ASVMKGFTCHHVVR	LLGVVS	-32.177
>gi 33112647 sp P06213.2	1116	MELMAHGDLKSYLR	SLRPEA	-19.008
>gi 33112647 sp P06213.2	1119	MAHGDLKSYLRSLR	PEAENN	-4.518
>gi 33112647 sp P06213.2	1128	LRSLRPEAENNPGR	PPPTLQ	-37.939
>gi 33112647 sp P06213.2	1158	DGMAYLNAKKFVHR	DLAARN	-14.703
>gi 33112647 sp P06213.2	1163	LNAKKFVHRDLAAR	NCMVAH	-18.904
>gi 33112647 sp P06213.2	1182	HDFTVKIGDFGMTR	DIYETD	-35.288
>gi 33112647 sp P06213.2	1191	FGMTRDIYETDYR	KGGKGL	-49.284
>gi 33112647 sp P06213.2	1201	DYYRKGGKGLLPVR	WMAPES	-40.368
>gi 33112647 sp P06213.2	1264	DGGYLDQPDNCPER	VTDLMR	-48.128
>gi 33112647 sp P06213.2	1270	QPDNCPERVTDLMR	MCWQFN	-43.752
>gi 33112647 sp P06213.2	1280	DLMRMCWQFNPKMR	PTFLEI	-34.757
>gi 33112647 sp P06213.2	1331	EMEFEDMENVPLDR	SSHCQR	-30.643
>gi 33112647 sp P06213.2	1337	MENVPLDRSSHQR	EEAGGR	-28.314
>gi 33112647 sp P06213.2	1343	DRSSHQRREEAGGR	DGGSSL	-40.6
>gi 33112647 sp P06213.2	1353	AGGRDGGSSLGFKR	SYEEHI	-20.542
>gi 33112647 sp P06213.2	1372	IPYTHMNGGKKNR	ILTLPR	-19.581
>gi 33112647 sp P06213.2	1378	NGGKKNRILTLPR	SNPS--	-28.017
>gi 1708865 sp Q07954.1 L	35	DAPKTCSPKQFACR	DQITCI	-29.55
>gi 1708865 sp Q07954.1 L	46	ACRDQITCISKGWR	CDGERD	-29.147
>gi 1708865 sp Q07954.1 L	51	ITCISKGWRCDGER	DCPDGS	-41.012
>gi 1708865 sp Q07954.1 L	71	DEAPEICPQSKAQR	CQPNEH	-8.922
>gi 1708865 sp Q07954.1 L	90	HNCLGTELCVPMSR	LCNGVQ	-38.954
>gi 1708865 sp Q07954.1 L	109	QDCMDGSDEGPHCR	ELQGNC	-34.496
>gi 1708865 sp Q07954.1 L	117	EGPHCRELQGNCNR	LGCQHH	-38.609
>gi 1708865 sp Q07954.1 L	186	CGCVEGYLLQPDNR	SCKAKN	-33.951
>gi 1708865 sp Q07954.1 L	197	DNRSCAKNEPVDR	PPVLLI	-44.851
>gi 1708865 sp Q07954.1 L	228	SGAQVSTITPTSTR	QTTAMD	-24.969
>gi 1708865 sp Q07954.1 L	260	VGDSAAQTQLKCAR	MPGLKG	-24.756
>gi 1708865 sp Q07954.1 L	303	LTGNFYFVDDIDDR	IFVCNR	-60.955
>gi 1708865 sp Q07954.1 L	309	FVDDIDDRIFVCNR	NGDTCV	-37.823
>gi 1708865 sp Q07954.1 L	350	VFFTDYGGQIPKVER	CDMDGQ	-32.238
>gi 1708865 sp Q07954.1 L	358	IPKVERCDMDGQNR	TKLVDS	-38.574
>gi 1708865 sp Q07954.1 L	379	IVFPHGITLDLVS	LVYWAD	-39.502
>gi 1708865 sp Q07954.1 L	401	LDYIEVVDYEGKGR	QTIIQG	-33.021
>gi 1708865 sp Q07954.1 L	441	SDNANAQQKTSVIR	VNRFNS	-29.355

>gi 1708865 sp Q07954.1 L	444	ANAQQKTSVIRVNR	FNSTEY	3.427
>gi 1708865 sp Q07954.1 L	455	VNRFNSTEYQVVTR	VDKGGGA	-30.83
>gi 1708865 sp Q07954.1 L	468	RVDKGGALHIYHQR	RQPRVR	-27.041
>gi 1708865 sp Q07954.1 L	469	VDKGGALHIYHQRR	QPRVRS	-8.865
>gi 1708865 sp Q07954.1 L	472	GGALHIYHQRQPR	VRSHAC	-13.975
>gi 1708865 sp Q07954.1 L	474	ALHIYHQRQPRVR	SHACEN	-22.224
>gi 1708865 sp Q07954.1 L	502	CSDICLLANSHKAR	TCRCRS	-16.575
>gi 1708865 sp Q07954.1 L	505	ICLLANSHKARTCR	CRSGFS	-14.315
>gi 1708865 sp Q07954.1 L	507	LLANSHKARTCRCR	SGFSLG	-23.149
>gi 1708865 sp Q07954.1 L	534	KPEHELFLVYGKGR	PGIIRG	-37.167
>gi 1708865 sp Q07954.1 L	539	LFLVYGKGRPGIIR	GMDMGA	-30.456
>gi 1708865 sp Q07954.1 L	562	DEHMIPIENLMNPR	ALDFHA	-24.334
>gi 1708865 sp Q07954.1 L	585	FIYFADTTSYLIGR	QKIDGT	-34.612
>gi 1708865 sp Q07954.1 L	593	SYLIGRQKIDGTER	ETILKD	-44.827
>gi 1708865 sp Q07954.1 L	631	WTDDGPKKTISVAR	LEKAAQ	-35.471
>gi 1708865 sp Q07954.1 L	639	TISVARLEKAAQTR	KTLIEG	-25.338
>gi 1708865 sp Q07954.1 L	651	TRKTLIEGKMTHPR	AIVVDP	-20.702
>gi 1708865 sp Q07954.1 L	675	MYWTDWEEDPKDSR	RGRLER	-30.647
>gi 1708865 sp Q07954.1 L	676	YWTDWEEDPKDSRR	GRLERA	-13.924
>gi 1708865 sp Q07954.1 L	678	TDWEEDPKDSRRGR	LERAWM	-25.741
>gi 1708865 sp Q07954.1 L	681	EEDPKDSRRGRLER	AWMDGS	-15.684
>gi 1708865 sp Q07954.1 L	689	RGRLERAWMDGSHR	DIFVTS	-31.737
>gi 1708865 sp Q07954.1 L	712	LWPNGLSLDIPAGR	LYWVDA	-42.352
>gi 1708865 sp Q07954.1 L	722	PAGRLYWVDAFYDR	IETILL	-51.361
>gi 1708865 sp Q07954.1 L	733	YDRIETILLNGTDR	KIVYEG	-40.72
>gi 1708865 sp Q07954.1 L	761	LCHHGNYLFWTEYR	SGSVYR	-39.899
>gi 1708865 sp Q07954.1 L	767	YLFWTEYRSGSVYR	LERGVG	-37.092
>gi 1708865 sp Q07954.1 L	770	WTEYRSGSVYRLER	GVGGAP	-21.34
>gi 1708865 sp Q07954.1 L	783	RGVGGAPPTVTLR	SERPPI	-28.463
>gi 1708865 sp Q07954.1 L	786	GGAPPTVTLRSER	PPIFEI	-21.009
>gi 1708865 sp Q07954.1 L	793	TLLRSERPPIFEIR	MYDAQQ	-37.96
>gi 1708865 sp Q07954.1 L	808	YDAQQQVGTNKCR	VNNGGC	-37.167
>gi 1708865 sp Q07954.1 L	825	GGCSSLCLATPGSR	QCACAE	-31.122
>gi 1708865 sp Q07954.1 L	865	PQCQPGEFACANSR	CIQERW	-33.659
>gi 1708865 sp Q07954.1 L	870	GEFACANSRCIQER	WKCDGD	-33.143
>gi 1708865 sp Q07954.1 L	899	APALCHQHCTPSDR	FKCENN	-39.103
>gi 1708865 sp Q07954.1 L	906	HTCPSDRFKCENNR	CIPNRW	-32.797
>gi 1708865 sp Q07954.1 L	911	DRFKCENNRIPNR	WLCDGD	-26.199
>gi 1708865 sp Q07954.1 L	934	GNSEDESATCSAR	TCPPNQ	-31.711
>gi 1708865 sp Q07954.1 L	947	RTCPPNQFSCASGR	CIPISW	-32.343
>gi 1708865 sp Q07954.1 L	964	ISWTCDLDDDCGDR	SDESAS	-54.164
>gi 1708865 sp Q07954.1 L	988	TCFPLTQFTCNNGR	CININW	-35.922
>gi 1708865 sp Q07954.1 L	995	FTCNNGRCININWR	CDNDND	-32.902

>gi 1708865 sp Q07954.1 L	1026	HSCSSTQFKCNSGR	CIPEHW	-28.291
>gi 1708865 sp Q07954.1 L	1057	SDETHANCTNQATR	PPGGCH	-26.854
>gi 1708865 sp Q07954.1 L	1070	RPPGGCHTDEFQCR	LDGLCI	-52.146
>gi 1708865 sp Q07954.1 L	1079	EFQCRLDGLCIPLR	WRCDGD	-35.435
>gi 1708865 sp Q07954.1 L	1081	QCRLDGLCIPLRWR	CDGDTD	-34.091
>gi 1708865 sp Q07954.1 L	1117	CDPSVKFGCKDSAR	CISKAW	-28.778
>gi 1708865 sp Q07954.1 L	1146	DNSDEENCESLACR	PPSHPC	-39.919
>gi 1708865 sp Q07954.1 L	1262	YEGWVLEPDGESCR	SLDPFK	-36.845
>gi 1708865 sp Q07954.1 L	1276	SLDPFKPFIFSNR	HEIRRI	-38.121
>gi 1708865 sp Q07954.1 L	1280	FKPFIFSNRHEIR	RIDLHK	-23.215
>gi 1708865 sp Q07954.1 L	1281	KPFIFSNRHEIRR	IDLHKG	-21.378
>gi 1708865 sp Q07954.1 L	1297	LHKGDYSVLPGLR	NTIALD	-27.613
>gi 1708865 sp Q07954.1 L	1323	ALYWTDVVEDKIYR	GKLLDN	-25.317
>gi 1708865 sp Q07954.1 L	1378	LDQIEVAKLDGTLR	TTLLAG	-37.436
>gi 1708865 sp Q07954.1 L	1390	LRTTLLAGDIEHPR	AIALDP	-34.284
>gi 1708865 sp Q07954.1 L	1397	GDIEHPRAIALDPR	DGILFW	-36.867
>gi 1708865 sp Q07954.1 L	1412	GILFWTDWDASLPR	IEAASM	-43.649
>gi 1708865 sp Q07954.1 L	1423	LPRIEAASMSGAGR	RTVHRE	-30.804
>gi 1708865 sp Q07954.1 L	1424	PRIEAASMSGAGRR	TVHRET	-20.576
>gi 1708865 sp Q07954.1 L	1428	AASMSGAGRRTVHR	ETGSGG	-12.629
>gi 1708865 sp Q07954.1 L	1447	GWPNGLTVDYLEKR	ILWIDA	-37.333
>gi 1708865 sp Q07954.1 L	1454	VDYLEKRILWIDAR	SDAIYS	-28.578
>gi 1708865 sp Q07954.1 L	1462	LWIDARSDAIYSAR	YDGSGH	-24.829
>gi 1708865 sp Q07954.1 L	1473	SARYDGSFGHMEVLR	GHEFLS	-34.026
>gi 1708865 sp Q07954.1 L	1497	VTLYGGEVYWTDWR	TNTLAK	-43.445
>gi 1708865 sp Q07954.1 L	1517	ANKWTGHNVTVVQR	TNTQPF	-28.394
>gi 1708865 sp Q07954.1 L	1532	NTQPFDLQVYHPSR	QPMAPN	-19.297
>gi 1708865 sp Q07954.1 L	1559	QGPCSHLCLINYNR	TVSCAC	-34.29
>gi 1708865 sp Q07954.1 L	1589	TTCYEFKFKFLLYAR	QMEIRG	-36.282
>gi 1708865 sp Q07954.1 L	1594	FKKFLLYARQMEIR	GVDLDA	-24.646
>gi 1708865 sp Q07954.1 L	1625	PDIDNVTVLDYDAR	EQRVYW	-38.456
>gi 1708865 sp Q07954.1 L	1628	DNVTVLDYDAREQR	VYWSDV	-30.564
>gi 1708865 sp Q07954.1 L	1635	YDAREQRVYWSQVDR	TQAIKR	-37.362
>gi 1708865 sp Q07954.1 L	1641	RVYWSQVVRTQAIKR	AFINGT	-19.22
>gi 1708865 sp Q07954.1 L	1670	LPNAHGLAVDWVSR	NLFWTS	-34.691
>gi 1708865 sp Q07954.1 L	1688	TSYDTNKKQINVAR	LDGSFK	-32.435
>gi 1708865 sp Q07954.1 L	1713	GLEQPGLVVHPLR	GKLYWT	-12.881
>gi 1708865 sp Q07954.1 L	1734	GDNISMANMDGNSNR	TLLFSG	-40.49
>gi 1708865 sp Q07954.1 L	1768	KLYWISSGNHTINR	CNLDGS	-29.928
>gi 1708865 sp Q07954.1 L	1783	NLDGSGLEVIDAMR	SQLGKA	-35.696
>gi 1708865 sp Q07954.1 L	1824	TCSKADGSGSVVLR	NSTTLV	-17.743
>gi 1708865 sp Q07954.1 L	1869	DCSQLCLPTSETTR	SCMCTA	-27.98
>gi 1708865 sp Q07954.1 L	1880	TTRSCMCTAGYSLR	SGQQAC	-22.355

>gi 1708865 sp Q07954.1 L	1902	VGSFLLYSVHEGIR	GIPLDP	-34.032
>gi 1708865 sp Q07954.1 L	1948	TIYWVDMGLSTISR	AKRDQT	-25.001
>gi 1708865 sp Q07954.1 L	1951	WVDMGLSTISRAKR	DQTWRE	5.233
>gi 1708865 sp Q07954.1 L	1956	LSTISRAKRDQTR	EDVVTN	-24.947
>gi 1708865 sp Q07954.1 L	1966	QWREDVVTNGIGR	VEGIAV	-38.694
>gi 1708865 sp Q07954.1 L	1993	YWTDQGFVIEVAR	LNGSFR	-35.65
>gi 1708865 sp Q07954.1 L	1999	FDVIEVARLNGSFR	YVVISQ	-30.029
>gi 1708865 sp Q07954.1 L	2011	FRYVVISQGLDKPR	AITVHP	-25.146
>gi 1708865 sp Q07954.1 L	2032	KGFLFWTEWGQYPR	IERSRL	-39.871
>gi 1708865 sp Q07954.1 L	2035	LFWTEWGQYPRIER	SRLDGT	-20.615
>gi 1708865 sp Q07954.1 L	2037	WTEWGQYPRIERSR	LDGTER	-27.795
>gi 1708865 sp Q07954.1 L	2043	YPRIERSRLDGT	VVLVNV	-45.91
>gi 1708865 sp Q07954.1 L	2072	VDYQDGKLYWCDAR	TDKIER	-38.22
>gi 1708865 sp Q07954.1 L	2078	KLYWCDARTDKIER	IDLETG	-38.352
>gi 1708865 sp Q07954.1 L	2087	DKIERIDLETGENR	EVVLS	-34.252
>gi 1708865 sp Q07954.1 L	2113	SVSVFEDFIYWSDR	THANGS	-42.843
>gi 1708865 sp Q07954.1 L	2122	YWSDRTHANGSIKR	GSKDNA	-15.314
>gi 1708865 sp Q07954.1 L	2135	RGSKDNATDSVPLR	TGIGVQ	-33.931
>gi 1708865 sp Q07954.1 L	2150	GIGVQLKDIKFNR	DRQKGT	-24.252
>gi 1708865 sp Q07954.1 L	2152	GVQLKDIKFNRDR	QKGTNV	-37.605
>gi 1708865 sp Q07954.1 L	2173	AVANGGCQQLCLYR	GRGQRA	-35.067
>gi 1708865 sp Q07954.1 L	2175	ANGGCQQLCLYRGR	GQRACA	-33.805
>gi 1708865 sp Q07954.1 L	2178	GCQQLCLYRGRGQR	ACACAH	5.969
>gi 1708865 sp Q07954.1 L	2195	CAHGMMLAEDGASCR	EYAGYL	-43.121
>gi 1708865 sp Q07954.1 L	2206	SCREYAGYLLYSER	TILKSI	-40.014
>gi 1708865 sp Q07954.1 L	2218	ERTILKSIHLSDER	NLNAPV	-37.346
>gi 1708865 sp Q07954.1 L	2244	EHMKNVIALAFDYR	AGTSPG	-36.823
>gi 1708865 sp Q07954.1 L	2254	FDYRAGTSPGTPNR	IFFSDI	-36.849
>gi 1708865 sp Q07954.1 L	2274	HFGNIQQINDDGSR	RITIVE	-44.951
>gi 1708865 sp Q07954.1 L	2275	FGNIQQINDDGSRR	ITIVEN	-33.233
>gi 1708865 sp Q07954.1 L	2292	VENVGSVEGLAYHR	GWDTLY	-29.511
>gi 1708865 sp Q07954.1 L	2309	TLYWTSYTTSTITR	HTVDQT	-25.828
>gi 1708865 sp Q07954.1 L	2316	TTSTITRHTVDQTR	PGAFER	-32.834
>gi 1708865 sp Q07954.1 L	2322	RHTVDQTRPGAFAER	ETVITM	-31.619
>gi 1708865 sp Q07954.1 L	2335	RETVITMSGDDHPR	AFVLDE	-38.33
>gi 1708865 sp Q07954.1 L	2360	FWTNWNEQHPSIMR	AALSGA	-25.732
>gi 1708865 sp Q07954.1 L	2377	SGANVLTLEKDIR	TPNGLA	-36.149
>gi 1708865 sp Q07954.1 L	2387	KDIRTPNGLAIDHR	AEKLYF	-28.228
>gi 1708865 sp Q07954.1 L	2403	KLYFSDATLDKIER	CEYDGS	-37.472
>gi 1708865 sp Q07954.1 L	2411	LDKIERCEYDGSHR	YVILKS	-32.41
>gi 1708865 sp Q07954.1 L	2439	AVYGEHIFWTDWVR	RAVQRA	-41.436
>gi 1708865 sp Q07954.1 L	2440	VYGEHIFWTDWVRR	AVQRAN	-18.617
>gi 1708865 sp Q07954.1 L	2444	HIFWTDWVRRAVQR	ANKHVG	-14.188

>gi 1708865 sp Q07954.1 L	2457	RANKHVGSNMKLLR	VDIPQQ	-27.571
>gi 1708865 sp Q07954.1 L	2483	VANDTNSCELSPCR	INNGGC	-44.394
>gi 1708865 sp Q07954.1 L	2506	CLLTHQGHVNCSCR	GGRILQ	-34.163
>gi 1708865 sp Q07954.1 L	2509	THQGHVNCSCRGGR	ILQDDL	-24.249
>gi 1708865 sp Q07954.1 L	2518	CRGGRILQDDLTCR	AVNSSC	-41.087
>gi 1708865 sp Q07954.1 L	2525	QDDLTCRAVNSSCR	AQDEFE	-30.672
>gi 1708865 sp Q07954.1 L	2564	KDKSDEKPSYCNSR	RCKKTF	-36.375
>gi 1708865 sp Q07954.1 L	2565	DKSDEKPSYCNSRR	CKKTFR	-24.902
>gi 1708865 sp Q07954.1 L	2571	PSYCNSRRCKKTFR	QCSNGR	-24.736
>gi 1708865 sp Q07954.1 L	2577	RRCKKTFRQCSNGR	CVSNML	-34.524
>gi 1708865 sp Q07954.1 L	2611	IPCNKTAGVGEFR	CRDGTC	-34.836
>gi 1708865 sp Q07954.1 L	2613	CNKTAGVGEFRCR	DGTCIG	-36.492
>gi 1708865 sp Q07954.1 L	2623	FRCRDGTCIGNSSR	CNQFVD	-33.392
>gi 1708865 sp Q07954.1 L	2649	EMNCSATDCSSYFR	LGVKGV	-43.31
>gi 1708865 sp Q07954.1 L	2662	RLGVKGVLFQPCER	TSLCYA	-46.45
>gi 1708865 sp Q07954.1 L	2686	CDGANDCGDYSDER	DCPGVK	-51.347
>gi 1708865 sp Q07954.1 L	2693	GDYSDERDCPGVKR	PRCPLN	-28.334
>gi 1708865 sp Q07954.1 L	2695	YSDERDCPGVKRPR	CPLNYF	-3.419
>gi 1708865 sp Q07954.1 L	2707	PRCPLNYFACPSGR	CIPMSW	-32.289
>gi 1708865 sp Q07954.1 L	2745	KFCSEAFECQNR	CISKQW	-35.968
>gi 1708865 sp Q07954.1 L	2791	SFSCPGTHVCVPER	WLCDGD	-42.443
>gi 1708865 sp Q07954.1 L	2821	IAAGCLYNSTCDDR	EFMCQN	-45.273
>gi 1708865 sp Q07954.1 L	2828	NSTCDDREFMCQNR	QCIPKH	-35.89
>gi 1708865 sp Q07954.1 L	2841	RQCIPKHFVCDHDR	DCADGS	-50.861
>gi 1708865 sp Q07954.1 L	2864	PECEYPTCGPSEFR	CANGRC	-30.635
>gi 1708865 sp Q07954.1 L	2869	PTCGPSEFRCANGR	CLSSRQ	-26.831
>gi 1708865 sp Q07954.1 L	2874	SEFRCANGRCLSSR	QWECDG	-27.915
>gi 1708865 sp Q07954.1 L	2916	KCNASSQFLCSSGR	CVAEAL	-31.796
>gi 1708865 sp Q07954.1 L	2937	CNGQDDCGDSSDER	GCHINE	-48.585
>gi 1708865 sp Q07954.1 L	2947	SDERGCHINECLSR	KLSGCS	-38.827
>gi 1708865 sp Q07954.1 L	2966	SQDCEDLKIGFKCR	CRPGFR	-38.495
>gi 1708865 sp Q07954.1 L	2968	DCEDLKIGFKRCR	PGFRLK	-32.427
>gi 1708865 sp Q07954.1 L	2972	LKIGFKRCRPGFR	LKDDGR	-28.92
>gi 1708865 sp Q07954.1 L	2978	CRCRPGFRLKDDGR	TCADVD	-36.051
>gi 1708865 sp Q07954.1 L	2995	DVDECSTTFPCSQR	CINTHG	-28.152
>gi 1708865 sp Q07954.1 L	3014	GSYKCLVEGYAPR	GGDPHS	-32.843
>gi 1708865 sp Q07954.1 L	3036	AVTDEEPFLIFANR	YYLRKL	-37.371
>gi 1708865 sp Q07954.1 L	3040	EEPFLIFANRYLR	KLNLDG	-28.381
>gi 1708865 sp Q07954.1 L	3067	QGLNNAVALDFDYR	EQMIYW	-46.011
>gi 1708865 sp Q07954.1 L	3084	IYWTDVTTQGSMIR	RMHLNG	-38.081
>gi 1708865 sp Q07954.1 L	3085	YWTDVTTQGSMIRR	MHLNGS	-23.497
>gi 1708865 sp Q07954.1 L	3098	RMHLNGSNVQVLHR	TGLSNP	-27.971
>gi 1708865 sp Q07954.1 L	3123	DWVGGNLYWCDKGR	DTIEVS	-41.129

>gi 1708865 sp Q07954.1 L	3136	RDTIEVSKLNGAYR	TVLVSS	-36.455
>gi 1708865 sp Q07954.1 L	3145	NGAYRTVLVSSGLR	EPRALV	-26.649
>gi 1708865 sp Q07954.1 L	3148	YRTVLVSSGLREPR	ALVVDV	-8.643
>gi 1708865 sp Q07954.1 L	3172	LYWTDWGDHSLIGR	IGMDGS	-32.217
>gi 1708865 sp Q07954.1 L	3180	HSLIGRIGMDGSSR	SVIVDT	-31.62
>gi 1708865 sp Q07954.1 L	3202	TWPNGLTLDYVTER	IYWADA	-53.082
>gi 1708865 sp Q07954.1 L	3209	LDYVTERIYWADAR	EDYIEF	-38.346
>gi 1708865 sp Q07954.1 L	3223	EDYIEFASLDGSNR	HVVLSSQ	-33.479
>gi 1708865 sp Q07954.1 L	3256	YVYWTDWETKSINR	AHKTGT	-26.289
>gi 1708865 sp Q07954.1 L	3274	TGTNKTLLISTLHR	PMDLHV	-36.656
>gi 1708865 sp Q07954.1 L	3285	LHRPMDLHV FHALR	QPDVFN	-14.252
>gi 1708865 sp Q07954.1 L	3328	CACPTNFYLGSDGR	TCVSNC	-37.97
>gi 1708865 sp Q07954.1 L	3375	HSDEPPDCPEFKCR	PGQFQC	-37.974
>gi 1708865 sp Q07954.1 L	3425	VCLPSQFKCTNTNR	CIPGIF	-35.41
>gi 1708865 sp Q07954.1 L	3432	KCTNTNRCIPGIFR	CNGQDN	-35.875
>gi 1708865 sp Q07954.1 L	3446	CNGQDNCGDGEDER	DCPEVT	-54.092
>gi 1708865 sp Q07954.1 L	3465	TCAPNQFQCSITKR	CIPRVW	-14.494
>gi 1708865 sp Q07954.1 L	3469	NQFQCSITKR CIPR	VWVCDR	-24.046
>gi 1708865 sp Q07954.1 L	3475	ITKRCIPRVWVCDR	DNDCVD	-42.125
>gi 1708865 sp Q07954.1 L	3500	ANCTQMTCGVDEFR	CKDSGR	-37.174
>gi 1708865 sp Q07954.1 L	3506	TCGVDEFRCCKDSGR	CIPARW	-30.367
>gi 1708865 sp Q07954.1 L	3511	EFRCCKDSGR CIPAR	WKCDGE	-25.121
>gi 1708865 sp Q07954.1 L	3534	GDGSDPEKKECDER	TCEPYQ	-53.499
>gi 1708865 sp Q07954.1 L	3542	EEDERTCEPYQFR	CKNNRC	-37.003
>gi 1708865 sp Q07954.1 L	3547	RTCEPYQFRCKNNR	CVPGRW	-19.12
>gi 1708865 sp Q07954.1 L	3552	YQFRCKNNRCVPGR	WQCDYD	-28.494
>gi 1708865 sp Q07954.1 L	3573	DCGDNSDEESCTPR	PCSESE	-33.35
>gi 1708865 sp Q07954.1 L	3586	RPCSESEFSCANGR	CIAGR W	-33.918
>gi 1708865 sp Q07954.1 L	3591	SEFSCANGRCIAGR	WKCDGD	-28.662
>gi 1708865 sp Q07954.1 L	3612	DCADGSDKDECTPR	CDMDQF	-26.413
>gi 1708865 sp Q07954.1 L	3629	DQFQCKSGHCIPLR	WRCDAD	-33.656
>gi 1708865 sp Q07954.1 L	3631	FQCKSGHCIPLRWR	CDADAD	-34.508
>gi 1708865 sp Q07954.1 L	3652	MDGSDEEACGTGVR	TCPLDE	-35.598
>gi 1708865 sp Q07954.1 L	3692	CGDNSDENPEECAR	FVCPFN	-35.309
>gi 1708865 sp Q07954.1 L	3699	NPEECARFVCPFN	PFRCKN	-38.69
>gi 1708865 sp Q07954.1 L	3702	ECARFVCPFNRPFR	CKNDRV	-6.463
>gi 1708865 sp Q07954.1 L	3707	VCPFNRPFRCKNDR	VCLWIG	-33.329
>gi 1708865 sp Q07954.1 L	3714	FRCKNDRVCLWIGR	QCDGTD	-36.403
>gi 1708865 sp Q07954.1 L	3750	HTTHCKDKKEFLCR	NQRCLS	-31.508
>gi 1708865 sp Q07954.1 L	3753	HCKDKKEFLCRNQR	CLSSSL	-16.163
>gi 1708865 sp Q07954.1 L	3760	FLCRNQRCLSSSLR	CNMFDD	-25.339
>gi 1708865 sp Q07954.1 L	3797	SCATNASICGDEAR	CVRTEK	-37.095
>gi 1708865 sp Q07954.1 L	3800	TNASICGDEARCVR	TEKAA Y	-32.226

>gi 1708865 sp Q07954.1 L	3810	RCVRTEKAAYCACR	SGFHTV	-37.869
>gi 1708865 sp Q07954.1 L	3830	PGQPGCQDINECLR	FGTCSQ	-42.407
>gi 1708865 sp Q07954.1 L	3851	CNNTKGGHLCSCAR	NFMKTH	-41.284
>gi 1708865 sp Q07954.1 L	3879	EYQVLYIADDNEIR	SLFPGH	-44.517
>gi 1708865 sp Q07954.1 L	3901	SAYEQAFQGDSEVR	IDAMDV	-45.191
>gi 1708865 sp Q07954.1 L	3913	VRIDAMDVHVKAGR	VYWTNW	-31.072
>gi 1708865 sp Q07954.1 L	3927	VYWTNWHTGTISYR	SLPPAA	-19.37
>gi 1708865 sp Q07954.1 L	3940	RSLPPAAPPTTSNR	HRRQID	-29.827
>gi 1708865 sp Q07954.1 L	3942	LPPAAPPTTSNRHR	RQIDRG	-26.145
>gi 1708865 sp Q07954.1 L	3947	PPTTSNRHRRQIDR	GVTHLN	-13.605
>gi 1708865 sp Q07954.1 L	3961	GVTHLNISGLKMPR	GIAIDW	-5.904
>gi 1708865 sp Q07954.1 L	3979	DWVAGNVYWTDSGR	DVIEVA	-35.788
>gi 1708865 sp Q07954.1 L	3992	RDVIEVAQMKGENR	KTLSIG	-32.891
>gi 1708865 sp Q07954.1 L	4012	MIDEPHAIIVDPLR	GTMYSW	-31.315
>gi 1708865 sp Q07954.1 L	4036	HPKIETAAMDGTLR	ETLVQD	-33.315
>gi 1708865 sp Q07954.1 L	4058	QWPTGLAVDYHNER	LYWADA	-48.238
>gi 1708865 sp Q07954.1 L	4073	YWADAKLSVIGSIR	LNGTDP	-34.732
>gi 1708865 sp Q07954.1 L	4087	LNGTDPIVAADSKR	GLSHPF	-15.871
>gi 1708865 sp Q07954.1 L	4111	FEDYIYGVTYINNR	VFKIHK	-38.243
>gi 1708865 sp Q07954.1 L	4153	HQHKQPEVTNPCDR	KKCEWL	-45.609
>gi 1708865 sp Q07954.1 L	4176	SPSGPVCTCPNGKR	LDNGTC	-31.653
>gi 1708865 sp Q07954.1 L	4196	VPVPSPTPPDAPR	PGTCNL	-32.367
>gi 1708865 sp Q07954.1 L	4215	LQCFNGGSCFLNAR	RQPKCR	-35.841
>gi 1708865 sp Q07954.1 L	4216	QCFNGGSCFLNARR	QPKCRC	-21.567
>gi 1708865 sp Q07954.1 L	4221	GSCFLNARRQPKCR	CQPRYT	-24.466
>gi 1708865 sp Q07954.1 L	4225	LNARRQPKCRCQPR	YTGDKC	-23.319
>gi 1708865 sp Q07954.1 L	4241	GDKCELDQCWEHCR	NGGTCA	-48.249
>gi 1708865 sp Q07954.1 L	4257	GTCAASPSGMPTCR	CPTGFT	-31.52
>gi 1708865 sp Q07954.1 L	4293	STCTVNQGNQPQCR	CLPGFL	-32.97
>gi 1708865 sp Q07954.1 L	4302	QPQCRCCLPGFLGDR	CQYRQC	-39.351
>gi 1708865 sp Q07954.1 L	4306	RCLPGFLGDRQYR	QCSGYC	-32.173
>gi 1708865 sp Q07954.1 L	4326	ENFGTCQMAADGSR	QCRCTA	-34.111
>gi 1708865 sp Q07954.1 L	4329	GTCQMAADGSRQCR	CTAYFE	-13.411
>gi 1708865 sp Q07954.1 L	4338	SRQCRCTAYFEGSR	CEVNKC	-40.645
>gi 1708865 sp Q07954.1 L	4346	YFEGSRCEVNKCSR	CLEGAC	-22.657
>gi 1708865 sp Q07954.1 L	4369	KQSGDVTCNCTDGR	VAPSCL	-39.705
>gi 1708865 sp Q07954.1 L	4407	MPECQCPPHMTGPR	CEEHVF	-32.368
>gi 1708865 sp Q07954.1 L	4446	LLVLVAGVFWYKR	RVQGAK	-23.749
>gi 1708865 sp Q07954.1 L	4447	LVLVAGVFWYKRR	VQGAKG	-30.289
>gi 1708865 sp Q07954.1 L	4458	KRRVQGAKGFQHQR	MTNGAM	-24.987
>gi 1708865 sp Q07954.1 L	4518	PVYATLYMGGHGSR	HSLAST	-12.661
>gi 1708865 sp Q07954.1 L	4528	HGSRHSLASTDEKR	ELLGRG	-19.906
>gi 1708865 sp Q07954.1 L	4533	SLASTDEKRELLGR	GPEDEI	-11.591

>gi 1352528 sp Q01705.2 N	23	CLLLPARAARGLR	CSQPSG	-1.083
>gi 1352528 sp Q01705.2 N	36	RCSQPSGTCLNGGR	CEVASG	-39.236
>gi 1352528 sp Q01705.2 N	56	TEACVASGSFVQQR	CQDPNP	-24.921
>gi 1352528 sp Q01705.2 N	67	GQRCQDPNPCLSTR	CKNAGT	-31.129
>gi 1352528 sp Q01705.2 N	112	LTPLDKPLANPCR	NGGTCD	-33.836
>gi 1352528 sp Q01705.2 N	128	GTCDLLLLEYKCR	CSPGWS	-35.387
>gi 1352528 sp Q01705.2 N	165	GGQCLPFESSYICR	CPPGFH	-31.237
>gi 1352528 sp Q01705.2 N	176	ICRCPPGFHGPTCR	QDVNEC	-29.294
>gi 1352528 sp Q01705.2 N	190	QDVNECSQNPGLCR	HGGHCH	-34.416
>gi 1352528 sp Q01705.2 N	203	RHGGHCHNEIGSYR	CACCAT	-34.098
>gi 1352528 sp Q01705.2 N	234	PCSPSPCQNGATCR	PTGDTT	-32.299
>gi 1352528 sp Q01705.2 N	282	GGACVDGVNTYNCR	CPPEVT	-36.509
>gi 1352528 sp Q01705.2 N	353	ASAACFQGATCHDR	VASFYC	-42.109
>gi 1352528 sp Q01705.2 N	365	DRVASFYCECPHGR	TGLLCH	-40.555
>gi 1352528 sp Q01705.2 N	396	EGSNCDTNPVNGKR	ICTCPS	-25.904
>gi 1352528 sp Q01705.2 N	422	CSQDVDECDLGANR	CEHAGK	-41.335
>gi 1352528 sp Q01705.2 N	613	CETNINECHSQPCR	HGGTCQ	-27.906
>gi 1352528 sp Q01705.2 N	621	HSQPCRHHGGTCQDR	DNSYLC	-35.77
>gi 1352528 sp Q01705.2 N	703	GGTCEDEGIAGFTCR	CPEGYH	-30.008
>gi 1352528 sp Q01705.2 N	731	NECNSNPCIHGACR	DGLNGY	-36.56
>gi 1352528 sp Q01705.2 N	780	TCKDMTSGYVCTCR	EGFSGP	-33.99
>gi 1352528 sp Q01705.2 N	879	CEVDINECVKSPCR	HGASCQ	-30.31
>gi 1352528 sp Q01705.2 N	892	RHGASCQNTNGSYR	CLCQAG	-28.029
>gi 1352528 sp Q01705.2 N	902	GSYRCLCQAGYTGR	NCESDI	-27.739
>gi 1352528 sp Q01705.2 N	912	YTGRNCESDIDDCR	PNPCHN	-50.614
>gi 1352528 sp Q01705.2 N	1028	GSYCQYDVNECDSR	PCLHGG	-45.743
>gi 1352528 sp Q01705.2 N	1061	PQGYTGLNCQNLVR	WCDSAP	-40.701
>gi 1352528 sp Q01705.2 N	1073	VRWCDSAPCKNGGR	CWQTNT	-33.905
>gi 1352528 sp Q01705.2 N	1086	RCWQTNTQYHCECR	SGWTGV	-32.839
>gi 1352528 sp Q01705.2 N	1108	DVLSVSCEVAAQKR	GIDVTL	-15.658
>gi 1352528 sp Q01705.2 N	1211	CIDLTNSYKCS CPR	GTQGVH	-31.16
>gi 1352528 sp Q01705.2 N	1234	NVDDCHPPLDPASR	SPKCFN	-30.273
>gi 1352528 sp Q01705.2 N	1263	GYTCTCPPGFVGER	CEGDVN	-38.36
>gi 1352528 sp Q01705.2 N	1279	GDVNECLSNPCDPR	GTQNCV	-31.479
>gi 1352528 sp Q01705.2 N	1287	NPCDPRGTQNCVQR	VNDFHC	-35.288
>gi 1352528 sp Q01705.2 N	1296	NCVQRVNDFHCECR	AGHTGR	-34.251
>gi 1352528 sp Q01705.2 N	1302	NDFHCECRAGHTGR	RCESVI	-12.505
>gi 1352528 sp Q01705.2 N	1303	DFHCECRAGHTGRR	CESVIN	-21.991
>gi 1352528 sp Q01705.2 N	1312	HTGRRCESVINGCR	GKPCKN	-33.541
>gi 1352528 sp Q01705.2 N	1330	KNGGVCAVASNTAR	GFICRC	-24.767
>gi 1352528 sp Q01705.2 N	1335	CAVASNTARGFICR	CPAGFE	-26.09
>gi 1352528 sp Q01705.2 N	1350	PAGFEGATCENDAR	TCGSLR	-43.351
>gi 1352528 sp Q01705.2 N	1356	ATCENDARTCGSLR	CLNGGT	-29.5

>gi 1352528 sp Q01705.2 N	1368	LRCLNGGTCISGPR	SPTCLC	-30.28
>gi 1352528 sp Q01705.2 N	1413	QGTCEPTENPFYR	CLCPAK	-37.476
>gi 1352528 sp Q01705.2 N	1568	EWDGLDCAEHVPER	LAAGTL	-39.151
>gi 1352528 sp Q01705.2 N	1586	TLVLVLLPPDQLR	NNSFHF	-32.288
>gi 1352528 sp Q01705.2 N	1594	PPDQLRNNSFHFLR	ELSHVL	-9.64
>gi 1352528 sp Q01705.2 N	1608	ELSHVLHTNVVFKR	DAQGQQ	-10.981
>gi 1352528 sp Q01705.2 N	1627	QMIFPYYGHEEELR	KHPIKR	-44.694
>gi 1352528 sp Q01705.2 N	1633	YGHEEELRKHPIKR	STVGWA	-8.182
>gi 1352528 sp Q01705.2 N	1651	WATSSLLPGTSGGR	QRRELD	-32.537
>gi 1352528 sp Q01705.2 N	1653	TSSLLPGTSGGRQR	RELDPM	-26.566
>gi 1352528 sp Q01705.2 N	1662	GGRQRRELDPMDIR	GSIVYL	-41.202
>gi 1352528 sp Q01705.2 N	1673	DIRGSIVYLEIDNR	QCVOSS	-35.568
>gi 1352528 sp Q01705.2 N	1748	VLLFFVCGVLLSR	KRRRQH	-31.901
>gi 1352528 sp Q01705.2 N	1750	LFFVCGVLLSRKR	RRQHGX	-21.53
>gi 1352528 sp Q01705.2 N	1751	FFVCGVLLSRKRR	RQHGX	10.802
>gi 1352528 sp Q01705.2 N	1752	FVCGVLLSRKRRR	QHGX	4.411
>gi 1352528 sp Q01705.2 N	1773	PEGFKVSEASKKKR	REPLGE	2.46
>gi 1352528 sp Q01705.2 N	1774	EGFKVSEASKKKRR	EPLGED	12.143
>gi 1352528 sp Q01705.2 N	1814	NEWGDEDLETKKFR	FEPPVV	-20.347
>gi 1352528 sp Q01705.2 N	1831	PVVLPLDSDQTDHR	QWTQQH	-42.016
>gi 1352528 sp Q01705.2 N	1844	RQWTQQHLDAADLR	MSAMAP	-38.539
>gi 1352528 sp Q01705.2 N	1867	QGEVDADCMDVNVR	GPDGFT	-31.414
>gi 1352528 sp Q01705.2 N	1916	FIYQGASLHNQTDR	TGETAL	-36.796
>gi 1352528 sp Q01705.2 N	1927	TDRTGETALHLAAR	YSRSDR	-13.203
>gi 1352528 sp Q01705.2 N	1930	TGETALHLAARYSR	SDRRKR	-1.422
>gi 1352528 sp Q01705.2 N	1933	TALHLAARYSRSDR	RKRLEA	-20.438
>gi 1352528 sp Q01705.2 N	1934	ALHLAARYSRSDRR	KRLEAS	-21.621
>gi 1352528 sp Q01705.2 N	1936	HLAARYSRSDRRKR	LEASAD	-17.468
>gi 1352528 sp Q01705.2 N	1951	EASADANIQDNMGR	TPLHAA	-44.025
>gi 1352528 sp Q01705.2 N	1971	VSADAQGVFQILLR	NRATDL	-28.127
>gi 1352528 sp Q01705.2 N	1973	ADAQGVFQILLRNR	ATDLDA	-30.304
>gi 1352528 sp Q01705.2 N	1980	QILLRNRATDLDR	MHDGTT	-43.972
>gi 1352528 sp Q01705.2 N	1993	RMHDGTTPLILAAR	LAVEGM	-30.555
>gi 1352528 sp Q01705.2 N	2059	ENNKEETSLFLSIR	RESYET	-33.702
>gi 1352528 sp Q01705.2 N	2060	NNKEETSLFLSIRR	ESYETA	-18.027
>gi 1352528 sp Q01705.2 N	2076	YETAKVLLDHFANR	DITDHM	-31.605
>gi 1352528 sp Q01705.2 N	2084	DHFANRDITDHMDR	LPRDIA	-43.367
>gi 1352528 sp Q01705.2 N	2087	ANRDITDHMDRLPR	DIAQER	-5.437
>gi 1352528 sp Q01705.2 N	2093	DHMDRLPRDIAQER	MHHDIV	-47.858
>gi 1352528 sp Q01705.2 N	2100	RDIAQERMHHDIVR	LLDEYN	-30.108
>gi 1352528 sp Q01705.2 N	2109	HDIVRLLDEYNLVR	SPQLHG	-36.779
>gi 1352528 sp Q01705.2 N	2148	PGNLKSATQGKKAR	KPSTKG	-20.003
>gi 1352528 sp Q01705.2 N	2168	LACGSKEAKDLKAR	RKSSQD	-14.787

>gi 1352528 sp Q01705.2 N	2169	ACGSKEAKDLKARR	KSSQDG	-17.646
>gi 1352528 sp Q01705.2 N	2253	AAKPEMAALAGGSR	LAFEHP	-32.816
>gi 1352528 sp Q01705.2 N	2262	AGGSRLAFEHPPPR	LSHLPV	-34.214
>gi 1352528 sp Q01705.2 N	2303	APASLNGQCEWLPR	LQNGMV	-42.288
>gi 1352528 sp Q01705.2 N	2317	LQNGMVPSQYNPLR	PGVTPG	-39.631
>gi 1352528 sp Q01705.2 N	2361	TLSPHIIYQGLPNTR	LATQPH	-31.662
>gi 1352528 sp Q01705.2 N	2406	HLSVSSAANGHLGR	SFLSGE	-12.98
>gi 14018366 emb CAC38357	40	TMTAATAATSVAAR	TRPARP	-27.292
>gi 14018366 emb CAC38357	42	TAATAATSVAARTR	PARPAS	-26.553
>gi 14018366 emb CAC38357	45	TAATSVAARTRPAR	PASSAV	7.114
>gi 14018366 emb CAC38357	71	SLSAGSATASSTAR	TARMRR	-26.263
>gi 14018366 emb CAC38357	74	AGSATASSTARTAR	MRRPSS	-2.215
>gi 14018366 emb CAC38357	76	SATASSTARTARMR	RPSSAG	-23.886
>gi 14018366 emb CAC38357	84	RTARMRRPSSAGER	ARGPRP	-33.804
>gi 14018366 emb CAC38357	86	ARMRRPSSAGERAR	GPRPRQ	-24.474
>gi 14018366 emb CAC38357	89	RRPSSAGERARGPR	PRQQA	3.673
>gi 14018366 emb CAC38357	91	PSSAGERARGPRPR	QQPAPR	-16.3
>gi 14018366 emb CAC38357	97	RARGPRPRQQPAPR	PPSSPA	-29.066
>gi 14018366 emb CAC38357	122	YTWAGAATATATAR	TSLTRP	-28.379
>gi 14018366 emb CAC38357	127	AATATATARTSLTR	PTAVSP	-22.971
>gi 84028263 sp Q99523.3	36	LLQLLPPSTLSQDR	LDAPPP	-43.242
>gi 84028263 sp Q99523.3	49	RLDAPPPPAAPLPR	WSGPIG	-27.719
>gi 84028263 sp Q99523.3	61	PRWSGPIGVSWGLR	AAAAGG	-24.843
>gi 84028263 sp Q99523.3	71	WGLRAAAAGGAFPR	GGRWRR	-25.465
>gi 84028263 sp Q99523.3	74	RAAAAGGAFPRGGR	WRRSAP	-26.202
>gi 84028263 sp Q99523.3	76	AAAGGAFPRGGRWR	RSAPGE	-21.971
>gi 84028263 sp Q99523.3	88	WRRSAPGEDEECGR	VRDFVA	-52.19
>gi 84028263 sp Q99523.3	90	RSAPGEDEECGRVR	DFVAKL	-40.533
>gi 84028263 sp Q99523.3	109	LANNTHQHVFDDLRL	GSVSLS	-37.597
>gi 84028263 sp Q99523.3	146	PLVIMTFGQSKLYR	SEDYGK	-14.637
>gi 84028263 sp Q99523.3	167	FKDITDLINNTFIR	TEFGMA	-41.092
>gi 84028263 sp Q99523.3	193	GKVVLTAEVSGGSR	GGRIFR	-28.579
>gi 84028263 sp Q99523.3	196	VLTAEVSGGSRGGR	IFRSSD	-21.359
>gi 84028263 sp Q99523.3	199	AEVSGGSRGGRIFR	SSDFAK	5.603
>gi 84028263 sp Q99523.3	288	GCKADLGALELWR	TSDLGK	-38.051
>gi 84028263 sp Q99523.3	311	TIGVKIYSFGLGGR	FLFASV	-30.806
>gi 84028263 sp Q99523.3	325	FLFASVMADKDTTR	RIHVST	-32.08
>gi 84028263 sp Q99523.3	326	LFASVMADKDTTRR	IHVSTD	-29.938
>gi 84028263 sp Q99523.3	382	GDTGFGTIFTSDDR	GIVYSK	-45.781
>gi 84028263 sp Q99523.3	392	SDDRGIVYSKSLDR	HLYTTT	-28.288
>gi 84028263 sp Q99523.3	411	TGGETDFTNVTSLR	GVYITS	-24.682
>gi 84028263 sp Q99523.3	436	NSIQTMITFDQGGR	WTHLRK	-41.968
>gi 84028263 sp Q99523.3	441	MITFDQGGRWTHLR	KPENSE	-30.572

>gi 84028263 sp Q99523.3	542	DSGGIIVAIHSSR	PINVIK	-23.655
>gi 84028263 sp Q99523.3	564	TDEGQCWQTYTFTR	DPIYFT	-33.29
>gi 84028263 sp Q99523.3	579	PIYFTGLASEPGAR	SMNISI	-34.439
>gi 84028263 sp Q99523.3	610	WVSYTIDFKDILER	NCEEKD	-31.799
>gi 84028263 sp Q99523.3	644	EDGCILGYKEQFLR	LRKSSV	-32.562
>gi 84028263 sp Q99523.3	646	GCILGYKEQFLRLR	KSSVCQ	-31.787
>gi 84028263 sp Q99523.3	655	FLRLRKSSVCQNGR	DYVVTK	-37.838
>gi 84028263 sp Q99523.3	681	CSLEDFLCDFGYYR	PENDSK	-47.981
>gi 84028263 sp Q99523.3	706	ELKGHDFCLYGR	EEHLTT	-41.373
>gi 84028263 sp Q99523.3	716	LYGREEHLTTNGYR	KIPGDK	-39.011
>gi 84028263 sp Q99523.3	731	IPGDKCQGGVNPVR	EVKDLK	-23.739
>gi 84028263 sp Q99523.3	786	AGVLIVKKYVCGGR	FLVHRY	-30.42
>gi 84028263 sp Q99523.3	791	VKKYVCGGRFLVHR	YSVLQQ	-11.661
>gi 8928570 sp Q61180.2 S	51	PPLPMQGLGKGDKR	EEQALG	-24.278
>gi 8928570 sp Q61180.2 S	64	REEQALGPEPSEPR	QPTEEE	-32.751
>gi 8928570 sp Q61180.2 S	78	QPTEEEALIEFHR	SYRELF	-31.564
>gi 8928570 sp Q61180.2 S	81	EEEEALIEFHRSYR	ELFQFF	-4.337
>gi 8928570 sp Q61180.2 S	98	QFFCNNTTIHGAI	LVCSKH	-31.833
>gi 8928570 sp Q61180.2 S	106	IHGAI RLVCSKHNR	MKTAFW	-27.791
>gi 8928570 sp Q61180.2 S	164	VFPAVTVCTLNPYR	YTEIKE	-32.98
>gi 8928570 sp Q61180.2 S	177	RYTEIKEDLEELDR	ITEQTL	-50.4
>gi 8928570 sp Q61180.2 S	195	TLFDLYKYNSSYTR	QAGGRR	-28.133
>gi 8928570 sp Q61180.2 S	200	YKYNSSYTRQAGGR	RRSTRD	-25.898
>gi 8928570 sp Q61180.2 S	201	KYNSSYTRQAGGRR	RSTRDL	-18.08
>gi 8928570 sp Q61180.2 S	202	YNSSYTRQAGGRRR	STRDLR	-9.206
>gi 8928570 sp Q61180.2 S	208	RQAGGRRRSTRDLR	GALPHP	-13.902
>gi 8928570 sp Q61180.2 S	217	TRDLRGALPHPLQR	LRTPPP	-30.546
>gi 8928570 sp Q61180.2 S	219	DLRGALPHPLQRLR	TPPPPN	-26.217
>gi 8928570 sp Q61180.2 S	228	LQRLRTPPPNPAR	SARSAS	-18.87
>gi 8928570 sp Q61180.2 S	238	NPARSARSASSSVR	DNNPQV	-23.794
>gi 8928570 sp Q61180.2 S	246	ASSSVRDNNPQVDR	KDWKIG	-40.109
>gi 8928570 sp Q61180.2 S	276	CFYQTYSSGVDAVR	EWYRFH	-34.214
>gi 8928570 sp Q61180.2 S	280	TYSSGVDAVREWYR	FHYINI	-35.669
>gi 8928570 sp Q61180.2 S	289	REWYRFHYINILSR	LPDTSP	-31.494
>gi 8928570 sp Q61180.2 S	310	LEEEALGSFIFTCR	FNQAPC	-34.574
>gi 8928570 sp Q61180.2 S	360	SMPGVNNGLSLTLR	TEQNDF	-34.851
>gi 8928570 sp Q61180.2 S	377	NDFIPLLSTVTGAR	VMVHGQ	-37.905
>gi 8928570 sp Q61180.2 S	397	DEPAFMDDGGFNVR	PGVETS	-31.652
>gi 8928570 sp Q61180.2 S	407	FNVRPGVETSISMR	KEALDS	-33.826
>gi 8928570 sp Q61180.2 S	503	AFSLDSLGCFSKCR	KPCSVT	-43.92
>gi 8928570 sp Q61180.2 S	519	CSVTNYKLSAGYSR	WPSVKS	-33.663
>gi 8928570 sp Q61180.2 S	545	MLSLQNNYTINNK	NGVAKL	-19.588
>gi 8928570 sp Q61180.2 S	614	FDLLVITLIMLLHR	FRSRYW	-33.565

>gi 8928570 sp Q61180.2 S	616	LLVITLIMLLHRFR	SRYWSP	-15.983
>gi 8928570 sp Q61180.2 S	618	VITLIMLLHRFRSR	YWSPGR	-22.254
>gi 8928570 sp Q61180.2 S	624	LLHRFRSRYWSPGR	GARGAR	-32.732
>gi 8928570 sp Q61180.2 S	627	RFRSRYWSPGRGAR	GAREVA	8.77
>gi 8928570 sp Q61180.2 S	630	SRYWSPGRGARGAR	EVASTP	8.149
>gi 8928570 sp Q61180.2 S	643	REVASTPASSFPSR	FCPHPT	-26.967
>gi 8928358 sp Q9WU39.1 S	42	MHWYCLNTNTHGCR	RIVVSR	-31.856
>gi 8928358 sp Q9WU39.1 S	43	HWYCLNTNTHGCRR	IVVSRG	-25.734
>gi 8928358 sp Q9WU39.1 S	48	NTNTHGCRRIVVSR	GRLRRL	-0.019
>gi 8928358 sp Q9WU39.1 S	50	NTHGCRRIVVSRGR	LRLLW	-32.157
>gi 8928358 sp Q9WU39.1 S	52	HGCRRIVVSRGLR	RLWIA	-18.488
>gi 8928358 sp Q9WU39.1 S	53	GCRRIVVSRGLRR	LLWIAF	-7.742
>gi 8928358 sp Q9WU39.1 S	140	SLYGVKVDVLDSTPR	KRREAG	-36.073
>gi 8928358 sp Q9WU39.1 S	142	YGVKVDVLDSTPRKR	REAGSM	-20.907
>gi 8928358 sp Q9WU39.1 S	149	DSTPRKRREAGSMR	STWEGT	-31.502
>gi 8928358 sp Q9WU39.1 S	158	AGSMRSTWEGTPPR	FLNLIP	-28.702
>gi 8928358 sp Q9WU39.1 S	177	PLLVFNENEKGKAR	DFFTGR	-25.084
>gi 8928358 sp Q9WU39.1 S	183	ENEKGKARDFFTGR	KRKISG	-36.684
>gi 8928358 sp Q9WU39.1 S	185	EKGKARDFFTGRKR	KISGKI	-24.041
>gi 8928358 sp Q9WU39.1 S	276	LVTCCFDGMSCDAR	NFTLFH	-37.954
>gi 8928358 sp Q9WU39.1 S	295	HHPMYGNCYTFNNR	ENATIL	-33.56
>gi 8928358 sp Q9WU39.1 S	450	WMYCYQLYQAFVR	EELGCQ	-37.272
>gi 8928358 sp Q9WU39.1 S	520	LAKLLIFYKDLNQR	SIMESP	-25.973
>gi 8928358 sp Q9WU39.1 S	569	IEVFFIDFFSIIAR	RQWQKA	-24.945
>gi 8928358 sp Q9WU39.1 S	570	EVFFIDFFSIIARR	QWQKAK	-14.483
>gi 8928358 sp Q9WU39.1 S	581	ARRQWQKAKDWWAR	RRTPPS	-32.092
>gi 8928358 sp Q9WU39.1 S	582	RRQWQKAKDWWARR	RTPPST	-28.538
>gi 8928358 sp Q9WU39.1 S	583	RQWQKAKDWWARRR	TPPSTE	-25.782
>gi 8928358 sp Q9WU39.1 S	616	DTDDDLPFTFSAMR	LPPAPE	-39.627
>gi 8928358 sp Q9WU39.1 S	632	PAPEAPVPGTPPPR	YNTLRL	-27.551
>gi 8928358 sp Q9WU39.1 S	637	PVPGTPPPRYNTLR	LDSAFS	-31.968
>gi 120611 sp P09958.2 FU	37	AQGQKVFTNTWAVR	IPGGPA	-36.918
>gi 120611 sp P09958.2 FU	50	RIPGGPAVANSVAR	KHGFLN	-37.141
>gi 120611 sp P09958.2 FU	70	LGQIFGDYYHFVHR	GVTKRS	-25.364
>gi 120611 sp P09958.2 FU	81	WHRGVTKRSLSPHR	PRHSRL	-29.707
>gi 120611 sp P09958.2 FU	83	RGVTKRSLSPHRPR	HSRLQR	-5.461
>gi 120611 sp P09958.2 FU	86	TKRSLSPHRPRHSR	LQREPQ	-14.557
>gi 120611 sp P09958.2 FU	89	SLSPHRPRHSRLQR	EPQVQW	9.334
>gi 120611 sp P09958.2 FU	103	EPQVQWLEQQVAKR	RTKRDV	-15.497
>gi 120611 sp P09958.2 FU	104	PQVQWLEQQVAKRR	TKRDVY	-22.007
>gi 120611 sp P09958.2 FU	130	KFPQQWYLSGVTQR	DLNVKA	-14.356
>gi 120611 sp P09958.2 FU	185	SFDVNDQDPDPQPR	YTMND	-28.177
>gi 120611 sp P09958.2 FU	193	PDQPQRYTQMNDNR	HGTRCA	-38.986

>gi 120611 sp P09958.2 FU	197	PRYTQMNDNRHGTR	CAGEVA	-0.326
>gi 120611 sp P09958.2 FU	220	NNGVCVGVVAYNAR	IGGVRM	-34.515
>gi 120611 sp P09958.2 FU	225	GVGVAYNARIGGVR	MLDGEV	-22.808
>gi 120611 sp P09958.2 FU	238	RMLDGEVTDAVEAR	SLGLNP	-21.423
>gi 120611 sp P09958.2 FU	268	GPEDDGKTVDGPAR	LAEEAF	-37.189
>gi 120611 sp P09958.2 FU	276	VDGPARLAEEAFFR	GVSQGR	-41.626
>gi 120611 sp P09958.2 FU	282	LAEEAFFRGVSQGR	GGLGSI	-26.96
>gi 120611 sp P09958.2 FU	298	LGSIFVWASGNGGR	EHDSCN	-34.141
>gi 120611 sp P09958.2 FU	357	GNQNEKQIVTTDLR	QKCTES	-33.607
>gi 120611 sp P09958.2 FU	391	IALTLEANKNLTWR	DMQHLV	-30.54
>gi 120611 sp P09958.2 FU	418	HLNANDWATNGVGR	KVSHSY	-30.963
>gi 120611 sp P09958.2 FU	448	VALAQNWTTVAPQR	KCIIDI	-35.746
>gi 120611 sp P09958.2 FU	464	IIDILTEPKDIGKR	LEVRKT	-26.265
>gi 120611 sp P09958.2 FU	468	LTEPKDIGKRLEVR	KTVTAC	-23.775
>gi 120611 sp P09958.2 FU	483	TVTACLGEPNHITR	LEHAQA	-33.155
>gi 120611 sp P09958.2 FU	490	EPNHITRLEHAQAR	LTLSYN	-33.678
>gi 120611 sp P09958.2 FU	497	LEHAQARLTLSYNR	RGDLAI	-33.172
>gi 120611 sp P09958.2 FU	498	EHAQARLTLSYNRR	GDLAIH	-16.964
>gi 120611 sp P09958.2 FU	512	GDLAIHLVSPMGTR	STLLAA	-25.284
>gi 120611 sp P09958.2 FU	519	VSPMGTRSTLLAAR	PHDYSA	-33.191
>gi 120611 sp P09958.2 FU	637	DTHYSTENDVETIR	ASVCAP	-37.061
>gi 120611 sp P09958.2 FU	677	SHASLDPVEQTCSR	QSQSSR	-40.327
>gi 120611 sp P09958.2 FU	683	PVEQTCSRQSQSSR	ESPPQQ	-18.843
>gi 120611 sp P09958.2 FU	693	QSSRESPPQQPPR	LPPEVE	-30.631
>gi 120611 sp P09958.2 FU	703	QPPRLPPEVEAGQR	LRAGLL	-39.24
>gi 120611 sp P09958.2 FU	705	PRLPPEVEAGQRLR	AGLLPS	-20.712
>gi 120611 sp P09958.2 FU	739	VLVFVTVFLVLQLR	SGFSFR	-24.912
>gi 120611 sp P09958.2 FU	745	VFLVLQLRSGFSFR	GVKVYT	-25.98
>gi 120611 sp P09958.2 FU	754	GFSFRGVKVYTMDR	GLISYK	-41.552
>gi 120611 sp P09958.2 FU	781	QEECPDSEEDEGR	GERTAF	-51.903
>gi 120611 sp P09958.2 FU	784	CPSDSEEDEGRGER	TAFIKD	-28.825
>gi 2499869 sp Q28193.1 F	25	AAAGALVLLVADAR	GEKVFT	-36.714
>gi 2499869 sp Q28193.1 F	47	WAVHIPGGPAVADR	VARKHG	-33.964
>gi 2499869 sp Q28193.1 F	50	HIPGGPAVADRVAR	KHGFLN	-26.703
>gi 2499869 sp Q28193.1 F	70	LGQIFGDYYHFWHR	AVTKRS	-24.994
>gi 2499869 sp Q28193.1 F	81	WHRAVTKRSLSPHR	LGHNRL	-32.146
>gi 2499869 sp Q28193.1 F	86	TKRSLSPHRLGHNR	LQREPQ	-28.864
>gi 2499869 sp Q28193.1 F	89	SLSPHRLGHNRLQR	EPQVKW	7.652
>gi 2499869 sp Q28193.1 F	103	EPQVKWLEQQVAKR	RAKRDI	-14.522
>gi 2499869 sp Q28193.1 F	104	PQVKWLEQQVAKRR	AKRDIY	-14.173
>gi 2499869 sp Q28193.1 F	130	KFPQQWYLSGVTQR	DLNVKE	-14.356
>gi 2499869 sp Q28193.1 F	145	LNVKEAWAQQYTGR	GIVVSI	-26.939
>gi 2499869 sp Q28193.1 F	185	SFDVNDQDPDPQPR	YTQMND	-28.177

>gi 2499869 sp Q28193.1 F	193	PDPQPRYTQMNDNR	HGTRCA	-38.986
>gi 2499869 sp Q28193.1 F	197	PRYTQMNDNRHGTR	CAGEVA	-0.326
>gi 2499869 sp Q28193.1 F	220	NNGVCGVGVAYNAR	IGGVRM	-34.515
>gi 2499869 sp Q28193.1 F	225	GVGVAYNARIGGVR	MLDGEV	-22.808
>gi 2499869 sp Q28193.1 F	238	RMLDGEVTDAVEAR	SLGLNP	-21.423
>gi 2499869 sp Q28193.1 F	276	VDGPAHLAEEAFFR	GVSQGR	-42.059
>gi 2499869 sp Q28193.1 F	282	LAEEAFFRGVSQGR	GGLGSI	-26.96
>gi 2499869 sp Q28193.1 F	298	LGSIFVWASGNGGR	EHDSCN	-34.141
>gi 2499869 sp Q28193.1 F	357	GNQNEKQIVTTDLR	QKCTES	-33.607
>gi 2499869 sp Q28193.1 F	391	IALTLEANKNLTWR	DMQHLV	-30.54
>gi 2499869 sp Q28193.1 F	399	KNLTWRDMQHLVVR	TSKPAH	-19.068
>gi 2499869 sp Q28193.1 F	418	HLNANDWATNGVGR	KVSHSY	-30.963
>gi 2499869 sp Q28193.1 F	448	VALAQNWTTVAPQR	KCTIDI	-34.972
>gi 2499869 sp Q28193.1 F	464	TIDILTEPKDIGKR	LEVRKT	-26.025
>gi 2499869 sp Q28193.1 F	468	LTEPKDIGKRLEVR	KTVTAC	-23.775
>gi 2499869 sp Q28193.1 F	483	TVTACLGEPSHITR	LEHAQA	-31.275
>gi 2499869 sp Q28193.1 F	490	EPSHITRLEHAQAR	LTLSYN	-33.678
>gi 2499869 sp Q28193.1 F	497	LEHAQARLTLSYNR	RGDLAI	-33.172
>gi 2499869 sp Q28193.1 F	498	EHAQARLTLSYNRR	GDLAIH	-16.964
>gi 2499869 sp Q28193.1 F	512	GDLAIHLVSPMGTR	STLLAA	-25.284
>gi 2499869 sp Q28193.1 F	519	VSPMGTRSTLLAAR	PHDYSA	-33.191
>gi 2499869 sp Q28193.1 F	637	DTHYSTENDVEIIR	ASVCTP	-38.415
>gi 2499869 sp Q28193.1 F	677	SHASLDPVEQTCSR	QSQSSR	-40.327
>gi 2499869 sp Q28193.1 F	683	PVEQTCSRQSQSSR	ESHQQQ	-19.125
>gi 2499869 sp Q28193.1 F	695	SRESHQQQPPPPPR	PPPAEV	-25.198
>gi 2499869 sp Q28193.1 F	706	PPRPPPAEVATEPR	LRADLL	-36.11
>gi 2499869 sp Q28193.1 F	708	RPPPAEVATEPRLR	ADLLPS	-29.187
>gi 2499869 sp Q28193.1 F	742	VLVFVTVFLVLQLR	SGFSFR	-24.912
>gi 2499869 sp Q28193.1 F	748	VFLVLQLRSGFSFR	GVKVYT	-25.98
>gi 2499869 sp Q28193.1 F	757	GFSFRGVKVYTMDR	GLISYK	-41.552
>gi 2499869 sp Q28193.1 F	784	QEECPSDSEEDEGR	GERTAF	-51.903
>gi 2499869 sp Q28193.1 F	787	CPSDSEEDEGRGER	TAFIKD	-28.825
>gi 1346604 sp P98089.1 M	81	KTTLPGLDFDPPR	QVNETW	-37.553
>gi 1346604 sp P98089.1 M	126	PPMPTCSNGLKPVR	VPDPDG	-23.616
>gi 1346604 sp P98089.1 M	199	NYHCDANDKVSCPR	TLIVHH	-30.17
>gi 1346604 sp P98089.1 M	255	VYQSGINFVVDIPR	LGAQVS	-38.107
>gi 1346604 sp P98089.1 M	270	GAQVSYNGLSFSIR	LPYHLF	-35.961
>gi 1346604 sp P98089.1 M	332	SKPHCPHKGLTTKR	PAITTP	-16.617
>gi 1346604 sp P98089.1 M	409	AALCAQEGVCIDWR	NHTQGA	-41.607
>gi 1346604 sp P98089.1 M	424	HTQGACAVTCPAHR	QYQACG	-36.068
>gi 1346604 sp P98089.1 M	482	VKICGCVGPDNVPR	EFGEHF	-32.514
>gi 1346604 sp P98089.1 M	513	GGSGIVCQPKKCAR	GNLTTC	-18.147
>gi 1346604 sp P98089.1 M	548	KCCNTTSCCKDPKR	CKAERP	-23.573

>gi 1346604 sp P98089.1 M	553	TSCKCDPKRCKAER	PSCLLG	-26.825
>gi 1346604 sp P98089.1 M	656	CCKKCQQTTHCIKR	PEQQYI	-23.751
>gi 1346604 sp P98089.1 M	676	ILKPGEIQKNPNDR	CTFFSC	-30.332
>gi 1346604 sp P98089.1 M	780	AQAQDLDHGCSCCR	EERTSV	-45.026
>gi 1346604 sp P98089.1 M	783	QDLDHGCSCCREER	TSVRMV	-37.759
>gi 1346604 sp P98089.1 M	787	HGCSCCREERTSVR	MVSLDC	-23.37
>gi 1346604 sp P98089.1 M	825	QGTVCELPAQQSR	TRRSSP	-32.103
>gi 1346604 sp P98089.1 M	827	TVCELPAQQSRTR	RSSPRL	-23.78
>gi 1346604 sp P98089.1 M	832	PQAQQSRTRRSSPR	LLGRK-	-15.999
>gi 1346604 sp P98089.1 M	836	QSRTRRSSPRLGR	K-----	-28.362
>gi 66346700 ref NP_05734	32	LWEASGGLDSGASR	DDDLLL	-34.231
>gi 66346700 ref NP_05734	42	GASRDDDLLLPYPR	ARARLP	-26.761
>gi 66346700 ref NP_05734	44	SRDDDLLLPYPRAR	ARLPRD	-29.533
>gi 66346700 ref NP_05734	46	DDDLLLPYPRARAR	LPRDCT	-21.647
>gi 66346700 ref NP_05734	53	YPRARARLPRDCTR	VRAGNR	-34.447
>gi 66346700 ref NP_05734	55	RARARLPRDCTRVR	AGNREH	-38.681
>gi 66346700 ref NP_05734	59	RLPRDCTRVRAGNR	EHESWP	-26.814
>gi 66346700 ref NP_05734	79	PPPATPGAGGLAVR	TFVSHF	-36.315
>gi 66346700 ref NP_05734	86	AGGLAVRTFVSHFR	DRAVAG	-37.347
>gi 66346700 ref NP_05734	88	GLAVRTFVSHFRDR	AVAGHL	-28.451
>gi 66346700 ref NP_05734	96	SHFRDRAVAGHLTR	AVEPLR	-5.015
>gi 66346700 ref NP_05734	102	AVAGHLTRAVEPLR	TFSVLE	-37.19
>gi 66346700 ref NP_05734	118	SVLEPGGPGGCAAR	RRATVE	-31.108
>gi 66346700 ref NP_05734	119	VLEPGGPGGCAARR	RATVEE	-24.122
>gi 66346700 ref NP_05734	120	LEPGGPGGCAARRR	ATVEET	-19.839
>gi 66346700 ref NP_05734	128	CAARRRATVEETAR	AADCRV	-29.104
>gi 66346700 ref NP_05734	133	RATVEETARAADCR	VAQNGG	-28.251
>gi 66346700 ref NP_05734	142	AADCRVAQNGGFFR	MNSGEC	-35.775
>gi 66346700 ref NP_05734	157	NSGECLGNVVS DER	RVSSSG	-41.04
>gi 66346700 ref NP_05734	158	SGECLGNVVS DERR	VSSSGG	-25.997
>gi 66346700 ref NP_05734	173	SSSGGLQNAQFGIR	RDGTLV	-36.433
>gi 66346700 ref NP_05734	174	SSGGLQNAQFGIRR	DGTLVT	-20.411
>gi 66346700 ref NP_05734	207	PFVQLLSGVVWLIR	NGSIYI	-34.187
>gi 66346700 ref NP_05734	240	TGSFSKFNVISAR	TAIGHD	-23.691
>gi 66346700 ref NP_05734	247	VNVISARTAIGHDR	KGQLVL	-41.193
>gi 66346700 ref NP_05734	263	QLVLFHADGQTEQR	GINLWE	-27.729
>gi 66346700 ref NP_05734	313	ASYPSDHCQDNMWR	CPRQVS	-41.268
>gi 66346700 ref NP_05734	316	PSDHCQDNMWRCPR	QVSTVV	-21.956
>gi 66346700 ref NP_05734	328	PRQVSTVVCVHEPR	CQPPDC	-29.131
>gi 66346700 ref NP_05734	353	CVDGHCQCTGHFWR	GPGCDE	-23.948
>gi 66346700 ref NP_05734	379	NCSQHGLCTETGCR	CDAGWT	-41.026
>gi 66346700 ref NP_05734	404	EECPLGWHGPGCQR	PCKCEH	-36.172
>gi 66346700 ref NP_05734	425	CPCDPKTGNCSVSR	VKQCLQ	-35.118

>gi 66346700 ref NP_05734	438	RVKQCLQPPEATLR	AGELSF	-27.811
>gi 66346700 ref NP_05734	447	EATLRAGELSFTR	TAWLAL	-31.48
>gi 66346700 ref NP_05734	475	LISTAANLSLLLSR	AERNRR	-30.33
>gi 66346700 ref NP_05734	478	TAANLSLLLSRAER	NRRLHG	-21.671
>gi 66346700 ref NP_05734	480	ANLSLLLSRAERNR	RLHGDY	-22.849
>gi 66346700 ref NP_05734	481	NLSLLLSRAERNRR	LHGDYA	-18.665
>gi 38258175 sp Q8NBP7.2	29	LLLLLLLLGPAGAR	AQEDED	-26.31
>gi 38258175 sp Q8NBP7.2	46	DEDGDYEELVLALR	SEEDGL	-28.633
>gi 38258175 sp Q8NBP7.2	66	AEAPEHGTTATFHR	CAKDPW	-24.003
>gi 38258175 sp Q8NBP7.2	73	TTATFHRCAKDPWR	LPPTYV	-34.081
>gi 38258175 sp Q8NBP7.2	93	VVLKEETHLSQSER	TARRLQ	-32.205
>gi 38258175 sp Q8NBP7.2	96	KEETHLSQSERTAR	RLQAQA	-0.899
>gi 38258175 sp Q8NBP7.2	97	EETHLSQSERTARR	LQAQAA	-21.944
>gi 38258175 sp Q8NBP7.2	104	SERTARRLQAQAAR	RGYLTK	-26.294
>gi 38258175 sp Q8NBP7.2	105	ERTARRLQAQAARR	GYLTKI	-23.636
>gi 38258175 sp Q8NBP7.2	160	SSVFAQSIPWNLER	ITPPRY	-42.683
>gi 38258175 sp Q8NBP7.2	165	QSIPWNLERITPPR	YRADEY	-22.924
>gi 38258175 sp Q8NBP7.2	167	IPWNLERITPPRYR	ADEYQP	-27.991
>gi 38258175 sp Q8NBP7.2	194	EVYLLDTSIQSDHR	EIEGRV	-35.236
>gi 38258175 sp Q8NBP7.2	199	DTSIQSDHREIEGR	VMVTDF	-32.141
>gi 38258175 sp Q8NBP7.2	215	VTDFENVPEEDGTR	FHRQAS	-52.369
>gi 38258175 sp Q8NBP7.2	237	DSHGTHLAGVVSGR	DAGVAK	-16.723
>gi 38258175 sp Q8NBP7.2	248	SGRDAGVAKGASMR	SLRVLN	-19.671
>gi 38258175 sp Q8NBP7.2	251	DAGVAKGASMRSLR	VLNCQG	-15.101
>gi 38258175 sp Q8NBP7.2	272	GTVSGTLIGLEFIR	KSQLVQ	-40.319
>gi 38258175 sp Q8NBP7.2	295	PLVLLPLAGGYSR	VLNAAC	-34.002
>gi 38258175 sp Q8NBP7.2	303	AGGYSRVLNAACQR	LARAGV	-38.172
>gi 38258175 sp Q8NBP7.2	306	YSRVLNAACQRLAR	AGVVLV	-18.498
>gi 38258175 sp Q8NBP7.2	319	RAGVVLVTAAGNFR	DDACLY	-32.722
>gi 38258175 sp Q8NBP7.2	357	QPVTGLTGLTNFGR	CVDLFA	-27.83
>gi 38258175 sp Q8NBP7.2	412	MLSAEPELTLAELR	QRLIHF	-31.94
>gi 38258175 sp Q8NBP7.2	414	SAEPELTLAELRQR	LIHFSA	-35.539
>gi 38258175 sp Q8NBP7.2	434	KDVINEAWFPEDQR	VLTPNL	-43.394
>gi 38258175 sp Q8NBP7.2	458	PPSTHGAGWQLFCR	TVWSAH	-43.222
>gi 38258175 sp Q8NBP7.2	469	FCRTVWSAHSGPTR	MATAIA	-24.84
>gi 38258175 sp Q8NBP7.2	476	AHSGPTRMATAIAR	CAPDEE	-22.609
>gi 38258175 sp Q8NBP7.2	491	APDEELSCSSFSR	SGKRRG	-32.333
>gi 38258175 sp Q8NBP7.2	495	ELSCSSFSRSGKR	RGERME	-15.436
>gi 38258175 sp Q8NBP7.2	496	LLSCSSFSRSGKRR	GERMEA	-14.544
>gi 38258175 sp Q8NBP7.2	499	CSSFSRSGKRRGER	MEAQGG	-17.043
>gi 38258175 sp Q8NBP7.2	510	GERMEAQGGKLVCR	AHNAFG	-29.079
>gi 38258175 sp Q8NBP7.2	525	HNAFGGEGVYAIAR	CCLLPQ	-35.42
>gi 38258175 sp Q8NBP7.2	549	VHTAPPAEASMGTR	VHCHQQ	-37.1

>gi 38258175 sp Q8NBP7.2	580	EVEDLGTHKPPVLR	PRGQPN	-25.037
>gi 38258175 sp Q8NBP7.2	582	EDLGTHKPPVLRPR	GQPNQC	-20.729
>gi 38258175 sp Q8NBP7.2	592	LRPRGQPNQCVGHR	EASIHA	-26.14
>gi 38258175 sp Q8NBP7.2	657	VLGAYAVDNTCVVR	SRDVST	-30.404
>gi 38258175 sp Q8NBP7.2	659	GAYAVDNTCVVRSR	DVSTTG	-23.4
>gi 38258175 sp Q8NBP7.2	680	TSEEAVTAVAICCR	SRHLAQ	-31.652
>gi 38258175 sp Q8NBP7.2	682	EEAVTAVAICCRSR	HLAQAS	-37.03
>gi 117949769 sp Q9QXV0.2	27	GVGILVLLLLGLLR	LPPTLS	-34.097
>gi 117949769 sp Q9QXV0.2	35	LLGLLRLPPTLSAR	PVKEPR	-24.077
>gi 117949769 sp Q9QXV0.2	41	LPPTLSARPVKEPR	SLSAAS	-10.72
>gi 117949769 sp Q9QXV0.2	58	AASAPLVETSTPLR	LRRAVP	-35.089
>gi 117949769 sp Q9QXV0.2	60	SAPLVETSTPLRLR	RAVPRG	-24.448
>gi 117949769 sp Q9QXV0.2	65	ETSTPLRLRRVPR	GEAAGA	-18.46
>gi 117949769 sp Q9QXV0.2	77	PRGEAAGAVQELAR	ALAHLL	-28.406
>gi 117949769 sp Q9QXV0.2	87	ELARALAHLLAER	QERARA	-45.267
>gi 117949769 sp Q9QXV0.2	90	RALAHLLAERQER	ARAEAQ	-22.149
>gi 117949769 sp Q9QXV0.2	92	LAHLLAERQERAR	AEAQEA	-25.388
>gi 117949769 sp Q9QXV0.2	104	ARAEAQEAEDQQAR	VLAQLL	-40.881
>gi 117949769 sp Q9QXV0.2	111	AEDQQARVLAQLLR	AWGSPR	-22.028
>gi 117949769 sp Q9QXV0.2	117	RVLAQLLRVWGSPR	ASDPPL	-24.891
>gi 117949769 sp Q9QXV0.2	138	PDDDPDAPAAQLAR	ALLRAR	-17.497
>gi 117949769 sp Q9QXV0.2	142	PDAPAAQLARALLR	ARLDPA	-19.962
>gi 117949769 sp Q9QXV0.2	144	APAAQLARALLRAR	LDPAAL	-30.153
>gi 117949769 sp Q9QXV0.2	163	LAAQLVPAPAAAPR	PRPPVY	-30.284
>gi 117949769 sp Q9QXV0.2	165	AQLVPAPAAAPRPR	PPVYDD	-24.705
>gi 117949769 sp Q9QXV0.2	194	AGDETPDVDPPELLR	YLLGRI	-37.755
>gi 117949769 sp Q9QXV0.2	199	PDVDPPELLRYLLGR	ILTGSS	-31.788
>gi 117949769 sp Q9QXV0.2	214	LTGSSEPEAAPAPR	RLRRSV	-23.59
>gi 117949769 sp Q9QXV0.2	215	TGSSEPEAAPAPRR	LRRSVD	-25.468
>gi 117949769 sp Q9QXV0.2	217	SSEPEAAPAPRRLR	RSVDQD	0.605
>gi 117949769 sp Q9QXV0.2	239	PEVPPENVLGALLR	VKRLN	-31.974
>gi 117949769 sp Q9QXV0.2	242	PPENVLGALLRVKR	LENPSP	-15.506
>gi 117949769 sp Q9QXV0.2	253	VKRLNENPSPQAPAR	RLPP-	-25.763
>gi 117949769 sp Q9QXV0.2	254	KRLNENPSPQAPARR	LLPP--	-22.722
>gi 12643343 sp Q9Y287.1	50	DCKDPDDVVPVGQR	RAWCWC	-23.137
>gi 12643343 sp Q9Y287.1	51	CKDPDDVVPVGQRR	AWCWCM	-15.865
>gi 12643343 sp Q9Y287.1	178	YVIPLNTSIVMPPR	NLLELL	-31.817
>gi 12643343 sp Q9Y287.1	208	QSYLIHEHMVITDR	IENIDH	-42.105
>gi 12643343 sp Q9Y287.1	221	RIENIDHLGFFIYR	LCHDKE	-41.516
>gi 12643343 sp Q9Y287.1	233	YRLCHDKETYKLQR	RETIKG	-18.572
>gi 12643343 sp Q9Y287.1	234	RLCHDKETYKLQRR	ETIKGI	2.721
>gi 12643343 sp Q9Y287.1	252	GIQKREASNCFAIR	HFENKF	-38.627
>gi 119467 sp P03383.1 EN	22	LFSLTHFLAQQR	CTLTIG	-22.938

>gi 119467 sp P03383.1 EN	58	TWNLDLNSLTDDQR	LHPPCP	-41.347
>gi 119467 sp P03383.1 EN	90	SLYLFPHWIKKPNR	QGLGYY	-14.291
>gi 119467 sp P03383.1 EN	147	DVNFTQEVSVSLR	LHFSKC	-32.473
>gi 119467 sp P03383.1 EN	227	LQSTNYSCMVCVDR	SSLSSW	-35.056
>gi 119467 sp P03383.1 EN	250	YTPNISIPQQTSSR	TILFPS	-35.474
>gi 119467 sp P03383.1 EN	276	PSQFPFWTHCYQPR	LQAITT	-37.154
>gi 119467 sp P03383.1 EN	305	PPFLAPVPPPATR	RRRAVP	-30.891
>gi 119467 sp P03383.1 EN	306	PFSLAPVPPPATRR	RRAVPI	-19.955
>gi 119467 sp P03383.1 EN	307	FSLAPVPPPATRRR	RAVPIA	-15.543
>gi 119467 sp P03383.1 EN	366	LTQAIVKNHQNILR	VAQYAA	-30.833
>gi 119467 sp P03383.1 EN	375	QNILRVAQYAAQNR	RGLDLL	-31.866
>gi 119467 sp P03383.1 EN	376	NILRVAQYAAQNRR	GLDLLF	-11.032
>gi 119467 sp P03383.1 EN	412	LNISNTHVSVLQER	PPLEKR	-35.593
>gi 119467 sp P03383.1 EN	418	HVSVLQERPPLEKR	VITGWG	-23.055
>gi 119467 sp P03383.1 EN	436	WGLNWDLGLSQWAR	EALQTG	-21.266
>gi 119467 sp P03383.1 EN	461	LLLLVILFGPCILR	QIQALP	-28.698
>gi 119467 sp P03383.1 EN	469	GPCILRQIQALPQR	LQNRHN	-34.432
>gi 119467 sp P03383.1 EN	473	LRQIQALPQRLQNR	HNQYSL	-23.164
>gi 24079966 gb AAN46089.	29	RWVSLTLTLALCR	PIQTWR	-33.764
>gi 24079966 gb AAN46089.	35	LTLALCRPIQTWR	CSLSLG	-24.745
>gi 24079966 gb AAN46089.	77	EAHNQSPFCAKSPR	YTLDSV	-21.708
>gi 24079966 gb AAN46089.	97	NGYPKIYWPPPQGR	RRFGAR	-29.335
>gi 24079966 gb AAN46089.	98	GYPKIYWPPPQGRR	RFGARA	-18.363
>gi 24079966 gb AAN46089.	99	YPKIYWPPPQGRRR	FGARAM	-15.912
>gi 24079966 gb AAN46089.	103	YWPPPQRRRFGAR	AMVTYD	-19.655
>gi 24079966 gb AAN46089.	113	FGARAMVTYDCEPR	CPYVGA	-38.494
>gi 24079966 gb AAN46089.	121	YDCEPRCPYVGADR	FDCPHW	-37.643
>gi 24079966 gb AAN46089.	196	DFPQLNSDWVPSVR	SWALLL	-31.981
>gi 24079966 gb AAN46089.	207	SVRSWALLLNQTAR	AFPDCA	-22.738
>gi 24079966 gb AAN46089.	267	SFNTTQGWHHPSQR	LLFNVS	-26.513
>gi 24079966 gb AAN46089.	298	LVNLSTASSAPPTR	VRRSPV	-33.772
>gi 24079966 gb AAN46089.	300	NLSTASSAPPTRVR	RSPVAA	-23.853
>gi 24079966 gb AAN46089.	331	TGINVAVSALSHQR	LTSLIH	-32.318
>gi 24079966 gb AAN46089.	345	LTSLIHVLEQDQQR	LITAIN	-46.549
>gi 24079966 gb AAN46089.	368	YNLLNVASVVAQNR	RGLDWL	-31.803
>gi 24079966 gb AAN46089.	369	NLLNVASVVAQNRR	GLDWLY	-12.792
>gi 24079966 gb AAN46089.	377	VAQNRRGLDWLYIR	LGFQSL	-42.756
>gi 24079966 gb AAN46089.	395	SLCPTINEPCCFLR	IQNDSI	-40.611
>gi 24079966 gb AAN46089.	403	PCCFLRIQNDSIIR	LGDLQP	-41.359
>gi 24079966 gb AAN46089.	413	SIIRLGLDQPLSQR	VSTDWQ	-30.241
>gi 24079966 gb AAN46089.	433	WPWNWDLGLTAWVR	ETIHSV	-29.321
>gi 24079966 gb AAN46089.	463	LFLAPCLIKCLTSR	LLKLLR	-32.679
>gi 24079966 gb AAN46089.	469	LKCLTSRLLKLLR	QAPHFP	-4.884

>gi 24079966 gb AAN46089.	512	SHLSPVKPDYINLR	PCP---	-38.359
>gi 74667 pir VCLJST env	35	VQYVTVFYGVVWR	NAS IPL	-29.191
>gi 74667 pir VCLJST env	48	RNAS IPLFCATKNR	DTWG TI	-32.859
>gi 74667 pir VCLJST env	111	KPCVKLPLCVAMR	CNSTTA	-34.88
>gi 74667 pir VCLJST env	142	TANTTIGENSSCIR	TDNCTG	-40.922
>gi 74667 pir VCLJST env	166	EMVDCQFNMTGLER	DKKKLY	-37.279
>gi 74667 pir VCLJST env	217	ITESC DKHYWDTMR	FRYCAP	-41.427
>gi 74667 pir VCLJST env	219	ESCDKHYWDTMRFR	YCAPPG	-41.106
>gi 74667 pir VCLJST env	230	RFRYCAPPGFALLR	CNDTNY	-28.537
>gi 74667 pir VCLJST env	253	EPNCSKVVAATCTR	MMETQT	-41.876
>gi 74667 pir VCLJST env	269	ETQTSTWFGFNGTR	AENRTY	-34.245
>gi 74667 pir VCLJST env	273	STWFGFNGTRAENR	TYIYWH	-34.998
>gi 74667 pir VCLJST env	281	TRAENRTYIYWHGR	DNRTII	-37.041
>gi 74667 pir VCLJST env	284	ENRTYIYWHGRDNR	TIISLN	-23.245
>gi 74667 pir VCLJST env	301	SLNKFYNLTVHCKR	PGNKTV	-21.003
>gi 74667 pir VCLJST env	325	LMSGLVFHSQPINR	RPRQAW	-30.585
>gi 74667 pir VCLJST env	326	MSGLVFHSQPINRR	PRQAWC	-18.596
>gi 74667 pir VCLJST env	328	GLVFHSQPINRRPR	QAWCWF	-3.639
>gi 74667 pir VCLJST env	354	AMKEVKLT LAKHPR	YKGTND	-6.477
>gi 74667 pir VCLJST env	365	HPRYKGTNDTEKIR	FIALGE	-39.253
>gi 74667 pir VCLJST env	372	NDTEKIRFIALGER	SDPEVA	-39.198
>gi 74667 pir VCLJST env	385	RSDPEVAYMWTNCR	GEFLYC	-43.765
>gi 74667 pir VCLJST env	403	YCNMTWFLNWVENR	TNQTQH	-39.143
>gi 74667 pir VCLJST env	435	TWHKVGKNVYLPPR	EGQLTC	-32.367
>gi 74667 pir VCLJST env	472	TNITFSAEVAELYR	LELDY	-45.739
>gi 74667 pir VCLJST env	495	EVTPIGFAPTPVKR	YSSAPV	-17.117
>gi 74667 pir VCLJST env	502	APTPVKRYSSAPVR	NKRGVF	-26.473
>gi 74667 pir VCLJST env	535	AMGAASLTLSAQSR	TLLAGI	-30.59
>gi 74667 pir VCLJST env	554	IVQQQQQLLDVVKR	QQEMLR	-17.022
>gi 74667 pir VCLJST env	560	QLLDVVKRQQEMLR	LTVWGT	-39.208
>gi 74667 pir VCLJST env	572	LRLTVWGTKNLQAR	VT AIEK	-25.33
>gi 74667 pir VCLJST env	594	KDQAQLNSWGCASR	QVCHTT	-32.5
>gi 74667 pir VCLJST env	623	PDWNNMTWQEWQR	IRNLEA	-42.384
>gi 74667 pir VCLJST env	625	WNNMTWQEWQRIR	NLEANI	-36.164
>gi 74667 pir VCLJST env	685	QYGVYIVVGIIVLR	IVIYVV	-26.133
>gi 74667 pir VCLJST env	696	VLRIVYVVQMLSR	LRKGYR	-34.313
>gi 74667 pir VCLJST env	698	RIVYVVQMLSRLR	KGYRPV	-32.271
>gi 74667 pir VCLJST env	702	YVVQMLSRLRKGYR	PVFSSP	-3.915
>gi 74667 pir VCLJST env	721	PPAYFQQIHIHKDR	EQPARE	-14.733
>gi 74667 pir VCLJST env	726	QQIHIHKDREQPAR	EETEED	-23.088
>gi 74667 pir VCLJST env	747	GNSVGDNWWPWPIR	YIHFLI	-37.843
>gi 74667 pir VCLJST env	754	WWPWPIRYIHFLIR	QLIRLL	-34.561
>gi 74667 pir VCLJST env	758	PIRYIHFLIRQLIR	LLNRLY	-30.873

>gi 74667 pir VCLJST env	762	IHFLLRQLRLLNR	LYNICR	-32.587
>gi 74667 pir VCLJST env	768	QLIRLLNRLYNICR	DLLSRS	-35.921
>gi 74667 pir VCLJST env	773	LNRLYNICRDLLSR	SFQTLQ	-14.369
>gi 74667 pir VCLJST env	786	RSFQTLQLISQSLR	RALTAV	-27.733
>gi 74667 pir VCLJST env	787	SFQTLQLISQSLRR	ALTAVR	-14.075
>gi 74667 pir VCLJST env	793	LISQSLRRALTAVR	DWLRFN	-29.277
>gi 74667 pir VCLJST env	797	SLRRALTAVRDWLR	FNTAYL	-25.739
>gi 74667 pir VCLJST env	815	YLQYGGEWIQEAFR	AFARAT	-43.181
>gi 74667 pir VCLJST env	819	GGEWIQEAFRAFAR	ATGETL	-19.292
>gi 74667 pir VCLJST env	830	FARATGETLTNAWR	GFWGTL	-35.69
>gi 74667 pir VCLJST env	841	AWRGFWGTLGQIGR	GILAVP	-23.906
>gi 74667 pir VCLJST env	848	TLGQIGRGILAVPR	RIRQGA	-31.886
>gi 74667 pir VCLJST env	849	LGQIGRGILAVPRR	IRQGAE	-20.382
>gi 74667 pir VCLJST env	851	QIGRGILAVPRRIR	QGAEIA	-7.399
>gi 1722783 sp P52638.1 V	21	LIGFGLVLLVLSAR	TFDLQG	-32.351
>gi 1722783 sp P52638.1 V	44	NTDSTPGLIDLEIR	RLCHTP	-40.117
>gi 1722783 sp P52638.1 V	45	TDSTPGLIDLEIRR	LCHTPT	-34.263
>gi 1722783 sp P52638.1 V	95	KTYWGFSGSYSADR	IINRYT	-46.014
>gi 1722783 sp P52638.1 V	99	GFFGSYSADRIINR	YGTGTVK	-9.845
>gi 1722783 sp P52638.1 V	134	WFYCCSAITTEICR	CSITNV	-37.028
>gi 1722783 sp P52638.1 V	214	CNSSKIVSFDEFR	RSYSLT	-40.365
>gi 1722783 sp P52638.1 V	215	NSSSKIVSFDEFRR	SYSLTN	-32.97
>gi 1722783 sp P52638.1 V	241	SINVTCCANYTSSCR	PRLKRR	-39.7
>gi 1722783 sp P52638.1 V	243	NVTCANYTSSCRPR	LKRRRR	-29.491
>gi 1722783 sp P52638.1 V	246	CANYTSSCRPRLKR	RRRDTQ	9.884
>gi 1722783 sp P52638.1 V	247	ANYTSSCRPRLKRR	RRDTQQ	3.366
>gi 1722783 sp P52638.1 V	248	NYTSSCRPRLKRRR	RDTQQI	8.028
>gi 1722783 sp P52638.1 V	262	RDTQQIEYLVHKLR	PTLKDA	-9.911
>gi 1722783 sp P52638.1 V	295	VFGTGIASASQFLR	SWLNHP	-23.567
>gi 1722783 sp P52638.1 V	319	YIVNGVGVVWQCHR	VNVTFM	-39.451
>gi 1722783 sp P52638.1 V	341	NESTYPPVDYNGR	KYFLND	-41.662
>gi 1722783 sp P52638.1 V	350	DYNGRKYFLNDEGR	LQTNTP	-40.283
>gi 1722783 sp P52638.1 V	359	NDEGRLQNTPEAR	PGLKRV	-31.295
>gi 1722783 sp P52638.1 V	364	LQNTPEARPGLKR	VMWFGR	-28.364
>gi 1722783 sp P52638.1 V	370	EARPGLKRVMWFGR	YFLGTV	-35.471
>gi 1722783 sp P52638.1 V	383	RYFLGTVGSGVKPR	RIRYNK	-17.628
>gi 1722783 sp P52638.1 V	384	YFLGTVGSGVKPRR	IRYNKT	-19.301
>gi 1722783 sp P52638.1 V	386	LGTVGSGVKPRRIR	YNKTSH	1.259
>gi 1722783 sp P52638.1 V	435	HAYGTQADLLPYTR	SSNITS	-24.335
>gi 1722783 sp P52638.1 V	466	LPSFAFLNPLGWLR	DLLAWA	-26.65
>gi 1722783 sp P52638.1 V	494	LISLCVSLPASFAR	RRRLGR	-29.818
>gi 1722783 sp P52638.1 V	495	ISLCVSLPASFARR	RRLGRW	-21.985
>gi 1722783 sp P52638.1 V	496	SLCVSLPASFARRR	RLGRWQ	-16.622

>gi 1722783 sp P52638.1 V	497	LCVSLPASFARRRR	LGRWQE	-13.046
>gi 1722783 sp P52638.1 V	500	SLPASFARRRRRLGR	WQE---	-10.853
>gi 9629363 ref NP_057856	146	DLKNDTNTNSSSGR	MIMEKG	-30.347
>gi 9629363 ref NP_057856	166	EIKNCSFNISTSIR	GKVQKE	-33.669
>gi 9629363 ref NP_057856	252	CTNVSTVQCTHGIR	PVVSTQ	-35.649
>gi 9629363 ref NP_057856	273	LLNGSLAEEVVIR	SVNFTD	-31.404
>gi 9629363 ref NP_057856	298	IVQLNTSVEINCTR	PNNNTR	-43.525
>gi 9629363 ref NP_057856	304	SVEINCTRPNNNTR	KRIRIQ	-33.985
>gi 9629363 ref NP_057856	306	EINCTRPNNNTRKR	IRIQRG	-26.905
>gi 9629363 ref NP_057856	308	NCTRPNNNTRKRIR	IQRGPG	-20.553
>gi 9629363 ref NP_057856	315	NTRKRIRIQRGPGR	AFVTIG	-22.794
>gi 9629363 ref NP_057856	327	GRAFVTIGKIGNMR	QAHCNI	-25.644
>gi 9629363 ref NP_057856	335	KIGNMRQAHCNISR	AKWNNT	-30.508
>gi 9629363 ref NP_057856	350	KWNNTLQIASKLR	EQFGNN	-29.88
>gi 9629363 ref NP_057856	419	NNTEGSDTITLPCR	IKQIIN	-40.1
>gi 9629363 ref NP_057856	444	GKAMYAPPISGQIR	CSSNIT	-33.919
>gi 9629363 ref NP_057856	456	IRCSSNITGLLLTR	DGGNSN	-25.711
>gi 9629363 ref NP_057856	469	RDGGSNNNESEIFR	PGGGDM	-44.776
>gi 9629363 ref NP_057856	476	NESEIFRPGGGDMR	DNWRSE	-35.912
>gi 9629363 ref NP_057856	480	IFRPGGGDMRDNR	SELYKY	-33.536
>gi 9629363 ref NP_057856	503	KIEPLGVAPTKAKR	RVVQRE	4.199
>gi 9629363 ref NP_057856	504	IEPLGVAPTKAKRR	VVQREK	-15.589
>gi 9629363 ref NP_057856	508	GVAPTKAKRRVVQR	EKRAVG	7.772
>gi 9629363 ref NP_057856	542	TMGAASMTLTVQAR	QLLSGI	-19.347
>gi 9629363 ref NP_057856	557	LLSGIVQQNNLLR	AIEAQQ	-26.602
>gi 9629363 ref NP_057856	579	LQLTVWGKQLQAR	ILAVER	-26.458
>gi 9629363 ref NP_057856	585	GKQLQARILAVER	YLKDQQ	-39.395
>gi 9629363 ref NP_057856	633	EQIWNHTTWMEWDR	EINNYT	-47.522
>gi 9629363 ref NP_057856	696	KLFIMIVGGLVGLR	IVFAVL	-28.847
>gi 9629363 ref NP_057856	707	GLRIVFAVLSIVNR	VRQGYS	-29.865
>gi 9629363 ref NP_057856	709	RIVFAVLSIVNRVR	QGYSPL	-35.154
>gi 9629363 ref NP_057856	725	YSPLSFQTHLPTPR	GPDRPE	-19.516
>gi 9629363 ref NP_057856	729	SFQTHLPTPRGPDR	PEGIEE	-32.206
>gi 9629363 ref NP_057856	740	PDRPEGIEEEGGER	DRDRSI	-50.838
>gi 9629363 ref NP_057856	742	RPEGIEEEGGERDR	DRSIRL	-38.504
>gi 9629363 ref NP_057856	744	EGIEEEGGERDRDR	SIRLVN	-32.518
>gi 9629363 ref NP_057856	747	EEEGGERDRDRSIR	LVNGSL	-17.778
>gi 9629363 ref NP_057856	761	LVNGSLALIWDLLR	SLCLFS	-39.146
>gi 9629363 ref NP_057856	770	WDDLRLSLCLFSYHR	LRDLLL	-33.669
>gi 9629363 ref NP_057856	772	DLRSLCLFSYHRLR	DLLLIV	-14.008
>gi 9629363 ref NP_057856	780	SYHRLRDLIVTR	IVELLG	-24.084
>gi 9629363 ref NP_057856	787	LLIVTRIVELLGR	RGWEAL	-37.052
>gi 9629363 ref NP_057856	788	LLIVTRIVELLGRR	GWEALK	-26.172

>gi 9629363 ref NP_057856	828	LNATAIAVAEGTDR	VIEVVQ	-45.801
>gi 9629363 ref NP_057856	838	GTDRVIEVVQGACR	AIRHIP	-33.355
>gi 9629363 ref NP_057856	841	RVIEVVQGACRAIR	HIPRRI	-23.225
>gi 9629363 ref NP_057856	845	VVQGACRAIRHIPR	RIRQGL	-5.503
>gi 9629363 ref NP_057856	846	VQGACRAIRHIPRR	IRQGLE	-14.834
>gi 9629363 ref NP_057856	848	GACRAIRHIPRRIR	QGLERI	-6.367
>gi 9629363 ref NP_057856	853	IRHIPRRIRQGLER	ILL---	-33.008
>gi 138252 sp P12568.1 FU	49	TCSAVSKGYLSALR	TGWYTS	-36.711
>gi 138252 sp P12568.1 FU	106	LQLLMQSTPAANNR	ARRELP	-28.288
>gi 138252 sp P12568.1 FU	108	LLMQSTPAANNRAR	RELPRF	-30.652
>gi 138252 sp P12568.1 FU	109	LMQSTPAANNRARR	ELPRFM	11.385
>gi 138252 sp P12568.1 FU	113	TPAANNRARRELPR	FMNYTL	-18.822
>gi 138252 sp P12568.1 FU	133	NNTKKTNVTLSSKKR	KRRFLG	-23.547
>gi 138252 sp P12568.1 FU	135	TKKTNVTLSSKKRKR	RFLGFL	5.466
>gi 138252 sp P12568.1 FU	213	DKQLLPVINKQSCR	ISNIET	-28.389
>gi 138252 sp P12568.1 FU	229	NIETVIEFQQKNNR	LLEITR	-27.192
>gi 138252 sp P12568.1 FU	235	EFQQKNNRLEITR	EFSVNA	-31.183
>gi 138252 sp P12568.1 FU	282	DQKKLMSNNVQIVR	QQSYSI	-26.676
>gi 138252 sp P12568.1 FU	336	TTNTKEGSNICLTR	TDRGWY	-34.733
>gi 138252 sp P12568.1 FU	339	TKEGSNICLTRTDR	GWYCDN	-19.678
>gi 138252 sp P12568.1 FU	364	FFPQAETCKVQSNR	VFCDTM	-26.987
>gi 138252 sp P12568.1 FU	429	CYGKTKCTASNKNR	GIKTF	-23.73
>gi 138252 sp P12568.1 FU	507	QVNEKINQSLAFIR	KSDELL	-34.625
>gi 138252 sp P12568.1 FU	553	SLIAVGLLLYCKAR	STPRTL	-27.994
>gi 138261 sp P06156.1 FU	35	VLSCICPANSIDGR	PLAAAG	-29.872
>gi 138261 sp P06156.1 FU	86	KEACAKAPLDAYNR	TLTLL	-41.499
>gi 138261 sp P06156.1 FU	100	TLTLLTPLGDSIR	RIQESV	-34.972
>gi 138261 sp P06156.1 FU	101	LTTLLTPLGDSIRR	IQESVT	-29.979
>gi 138261 sp P06156.1 FU	112	IRRIQESVTTSGGR	RQKRFI	-31.242
>gi 138261 sp P06156.1 FU	113	RRIQESVTTSGRR	QKRFIG	-17.096
>gi 138261 sp P06156.1 FU	153	ALIQAQNAANILR	LKESIA	-32.168
>gi 138261 sp P06156.1 FU	201	DQFNKTAQELGCIR	IAQQVG	-42.369
>gi 138261 sp P06156.1 FU	299	QVTLPVSVGNLNNMR	ATYLET	-32.862
>gi 138261 sp P06156.1 FU	312	RATYLETLSVSTTR	GFASAL	-26.857
>gi 138261 sp P06156.1 FU	349	SYCIETDLDYCTR	IVTFPM	-44.225
>gi 138261 sp P06156.1 FU	400	KGSVIANCKMTTCR	CVNPPG	-25.287
>gi 138261 sp P06156.1 FU	435	QSCNVLSLDGITLR	LSGEFD	-29.232
>gi 138261 sp P06156.1 FU	548	TLLWLGNNTLDQMR	ATTKM-	-32.1
>gi 138273 sp P06828.2 FU	47	SPKGMKISQNFETR	YLILSL	-32.436
>gi 138273 sp P06828.2 FU	73	SNSCGDQQIKQYKR	LLDRLI	-22.138
>gi 138273 sp P06828.2 FU	77	GDQQIKQYKRLLDR	LIIPLY	-28.91
>gi 138273 sp P06828.2 FU	87	LLDRLIIPLYDGLR	LQKDVI	-42.542
>gi 138273 sp P06828.2 FU	106	IVSNQESNENTDPR	TKRFFG	-38.071

>gi 138273 sp P06828.2 FU	141	ITAAVALVEAKQAR	SDIEKL	-10.046
>gi 138273 sp P06828.2 FU	152	QARSDIEKLKEAIR	DTNKAV	-25.639
>gi 138273 sp P06828.2 FU	189	QDYVNKEIVPSIAR	LGCEAA	-32.607
>gi 138273 sp P06828.2 FU	236	EKGIKLQGIASLYR	TNITEI	-39.276
>gi 138273 sp P06828.2 FU	265	DIYDLLFTESIKVR	VIDVDL	-30.93
>gi 138273 sp P06828.2 FU	281	DVDLNDYSITLQVR	LPLLTR	-38.001
>gi 138273 sp P06828.2 FU	287	YSITLQVRLPLLTR	LLNTQI	-29.68
>gi 138273 sp P06828.2 FU	295	LPLLTRLLNTQIYR	VDSISY	-37.902
>gi 138273 sp P06828.2 FU	306	IYRVDSISYNIQNR	EWYIPL	-26.832
>gi 138273 sp P06828.2 FU	365	MESCLSGNISQCPR	TVVKSD	-36.467
>gi 138273 sp P06828.2 FU	375	QCPRTVVKSDIVPR	YAFVNG	-24.211
>gi 138273 sp P06828.2 FU	400	CITTCTCNGIGNR	INQPPD	-32.114
>gi 138273 sp P06828.2 FU	475	KAKSDLEESKEWIR	RSNQKL	-28.933
>gi 138273 sp P06828.2 FU	476	AKSDLEESKEWIRR	SNQKLD	-13.827
>gi 138273 sp P06828.2 FU	520	INVTIIIIVKYYR	IQKRNK	-32.289
>gi 138273 sp P06828.2 FU	524	IIIVKYYRIQKR	NRVDQN	3.843
>gi 138273 sp P06828.2 FU	526	IIIVKYYRIQKRNK	VDQNDK	-27.665
>gi 18700321 dbj BAB85129	35	ALGCVHLTSSLDGR	PLAAAG	-33.584
>gi 18700321 dbj BAB85129	86	KEACAKAPLEAYNR	TLTLL	-39.262
>gi 18700321 dbj BAB85129	100	TLTLLTPLGDSIR	RIQESV	-34.972
>gi 18700321 dbj BAB85129	101	LTTLLTPLGDSIRR	IQESVT	-29.979
>gi 18700321 dbj BAB85129	112	IRRIQESVTTSGGR	RQRRFI	-31.572
>gi 18700321 dbj BAB85129	113	RRIQESVTTSGGRR	QRRFIG	-19.324
>gi 18700321 dbj BAB85129	115	IQESVTTSGGRRQR	RFIGAI	-4.344
>gi 60416260 sp P69353.1	48	VVGIGSASYKVMTR	SSHQSL	-5.218
>gi 60416260 sp P69353.1	70	KLMPNITLLNNCTR	VEIAEY	-41.68
>gi 60416260 sp P69353.1	77	LLNNCTRVEIAEYR	RLLRV	-39.404
>gi 60416260 sp P69353.1	78	LNNCTRVEIAEYRR	LLRTVL	-32.305
>gi 60416260 sp P69353.1	81	CTRVEIAEYRLLR	TVLEPI	3.039
>gi 60416260 sp P69353.1	88	EYRLLRRTVLEPIR	DALNAM	-33.422
>gi 60416260 sp P69353.1	99	PIRDALNAMTQNIR	PVQSVA	-32.989
>gi 60416260 sp P69353.1	108	TQNIRPVQSVASSR	RHKRFA	-30.73
>gi 60416260 sp P69353.1	109	QNIRPVQSVASSRR	HKRFA	-17.315
>gi 60416260 sp P69353.1	151	HQSMLNSQAIDNLR	ASLETT	-28.211
>gi 60416260 sp P69353.1	165	ASLETTNQAIEAIR	QAGQEM	-31.993
>gi 60416260 sp P69353.1	208	CDLIGQKLGLKLLR	YYTEIL	-14.477
>gi 60416260 sp P69353.1	222	YYTEILSLFGPSLR	DPISAE	-27.532
>gi 60416260 sp P69353.1	263	GYSGGDLLGILESR	GIKARI	-26.104
>gi 60416260 sp P69353.1	268	DLLGILESRGIKAR	ITHVDT	-16.061
>gi 60416260 sp P69353.1	298	YPTLSEIKGVIVHR	LEGVSY	-29.804
>gi 60416260 sp P69353.1	360	ALYPMSPLLQECLR	GSTKSC	-35.524
>gi 60416260 sp P69353.1	368	LQECLRGSTKSCAR	TLVSGS	-29.961
>gi 60416260 sp P69353.1	378	SCARTLVSGSFGNR	FILSQG	-28.2

>gi 60416260 sp P69353.1	435	VVEVNGVTIQVGSR	RYPDAV	-35.992
>gi 60416260 sp P69353.1	436	VEVNGVTIQVGSRR	YPDAVY	-17.902
>gi 60416260 sp P69353.1	445	VGSRRYPDAVYLHR	IDLGPP	-31.937
>gi 60416260 sp P69353.1	456	LHRIDLGPPISLER	LDVGTN	-40.759
>gi 60416260 sp P69353.1	485	DAKELLESSDQILR	SMKGLS	-32.518
>gi 60416260 sp P69353.1	518	GGLIGIPALICCCR	GRCNKK	-39.671
>gi 60416260 sp P69353.1	520	LIGIPALICCCRGR	CNKKGE	-41.231
>gi 60416260 sp P69353.1	532	GRCNKKGEQVGMSR	PGLKPD	-31.683
>gi 60416260 sp P69353.1	548	LKPDLTGTSKSYVR	SL----	-18.116
>gi 21326945 gb AAM48106.	28	CGLGETHGSNETR	HNKTD	-27.776
>gi 21326945 gb AAM48106.	126	STQTAGGTSAPTNR	TSLPNS	-28.768
>gi 21326945 gb AAM48106.	147	STPSTPQDTHHPVR	NLLSVT	-9.237
>gi 21326945 gb AAM48106.	182	ESSATSSPHVSNR	PPTPPA	-20.878
>gi 21326945 gb AAM48106.	244	PITVQDTHPSPTNR	SKRNLK	-20.048
>gi 21326945 gb AAM48106.	270	LSQGLKKYYGKILR	LLQLTL	-23.487
>gi 21326945 gb AAM48106.	289	LEEDTEGLLEWCKR	NLGLDC	-25.508
>gi 21326945 gb AAM48106.	303	NLGLDCDDTFFQKR	IEEFFI	-30.337
>gi 21326945 gb AAM48106.	322	ITGEGHFNEVLQFR	TPGTLS	-42.44
>gi 21326945 gb AAM48106.	379	GTSNSGLQLINITR	HSTRIV	-26.638
>gi 21326945 gb AAM48106.	383	SGLQLINITRHSTR	IVDTPG	-17.674
>gi 21326945 gb AAM48106.	412	NCINLKASIFKEHR	EVEINV	-23.343
>gi 21326945 gb AAM48106.	450	HVCDYSLDIDGAVR	LPHIYH	-41.033
>gi 21326945 gb AAM48106.	478	YKIVIDKKNKLNDR	CTLFTD	-30.322
>gi 21326945 gb AAM48106.	490	DRCTLFTDCVIKGR	EVRKGQ	-23.189
>gi 21326945 gb AAM48106.	493	TLFTDCVIKGREVR	KGQSVL	-17.748
>gi 21326945 gb AAM48106.	500	IKGREVRKGQSVLR	QYKTEI	-32.192
>gi 21326945 gb AAM48106.	507	KGQSVLRQYKTEIR	IGKAST	-35.049
>gi 21326945 gb AAM48106.	516	KTEIRIGKASTGSR	RLLSEE	-26.929
>gi 21326945 gb AAM48106.	517	TEIRIGKASTGSRR	LLSEEP	-19.411
>gi 21326945 gb AAM48106.	530	RLLSEEPSDDCISR	TQLLRT	-49.768
>gi 21326945 gb AAM48106.	535	EPSDDCISRTQLLR	TETAEI	-28.12
>gi 21326945 gb AAM48106.	565	KITICNGSTIVDQR	LGSELG	-32.959
>gi 21326945 gb AAM48106.	577	QRLGSELGTYTINR	VRSFKL	-39.82
>gi 21326945 gb AAM48106.	579	LGSELGTYTINRVR	SFKLCE	-25.632
>gi 21326945 gb AAM48106.	603	GKNCEIDSVPVKCR	QGYCLR	-26.154
>gi 21326945 gb AAM48106.	609	DSVPVKCRQGYCLR	ITQEGR	-37.737
>gi 21326945 gb AAM48106.	615	CRQGYCLRITQEGR	GHVKLS	-37.236
>gi 21326945 gb AAM48106.	622	RITQEGRGHVKLSR	GSEVVL	2.168
>gi 21326945 gb AAM48106.	682	KIPLLGKMAIYICR	MSNHPK	-31.786
>gi 21326945 gb AAM48106.	724	IFYLLIIVGTLGKR	LKQYRE	-27.465
>gi 21326945 gb AAM48106.	729	IIVGTLGKRLKQYR	ELKPQT	0.444
>gi 21326945 gb AAM48106.	767	LNCSYNICPYCASR	LTSDGL	-36.044
>gi 21326945 gb AAM48106.	775	PYCASRLTSDGLAR	HVIQCP	-29.966

>gi 21326945 gb AAM48106.	783	SDGLARHVIQCPKR	KEKVEE	-29.728
>gi 21326945 gb AAM48106.	798	EKVEETELYLNLER	IPWVVR	-44.007
>gi 21326945 gb AAM48106.	804	ELYLNLERIPWVVR	KLLQVS	-35.151
>gi 21326945 gb AAM48106.	819	LLQVSESTGVALKR	SSWLIV	-13.31
>gi 21326945 gb AAM48106.	852	SAPIGQGKTIEAYR	AREGYT	-35.604
>gi 21326945 gb AAM48106.	854	PIGQGKTIEAYRAR	EGYTSI	-31.135
>gi 21326945 gb AAM48106.	923	HKCYCSLFCCPYCR	HCSTDK	-45.039
>gi 21326945 gb AAM48106.	942	KEIHKLHLSICKKR	KKGSNV	-21.494
>gi 21326945 gb AAM48106.	959	SNVMLAVCKLMCFR	ATMEVS	-31.238
>gi 21326945 gb AAM48106.	967	KLMCFRATMEVSNR	ALFIRS	-26.362
>gi 21326945 gb AAM48106.	972	RATMEVSNRALFIR	SIINTT	-11.495
>gi 21326945 gb AAM48106.	1008	AVEMENLPAGTWER	EEDLTN	-40.877
>gi 21326945 gb AAM48106.	1037	ETECLCPYEALVLR	KPLFLD	-39.024
>gi 21326945 gb AAM48106.	1096	TANIALSWSSVEHR	GNKILV	-20.536
>gi 21326945 gb AAM48106.	1105	SVEHRGNKILVSGR	SESIMK	-28.446
>gi 21326945 gb AAM48106.	1115	VSGRSESIMKLEER	TGISWD	-38.79
>gi 21326945 gb AAM48106.	1155	QMYSVPVFEYLSGDR	QVGEWP	-38.224
>gi 21326945 gb AAM48106.	1172	EWPKATCTGDPPER	CGCTSS	-45.78
>gi 21326945 gb AAM48106.	1189	TSSTCLHKEWPHSR	NWRCNP	-40.725
>gi 21326945 gb AAM48106.	1192	TCLHKEWPHSRNWR	CNPTWC	-14.906
>gi 21326945 gb AAM48106.	1244	TEAIVCVELTSQER	QCSLIE	-38.041
>gi 21326945 gb AAM48106.	1254	SQERQCSLIEAGTR	FNLGPV	-40.33
>gi 21326945 gb AAM48106.	1268	FNLGPVTITLSEPR	NIQQKL	-27.244
>gi 21326945 gb AAM48106.	1284	QQKLPPEIITLHPR	IEEGFF	-37.887
>gi 21326945 gb AAM48106.	1401	ETDYTKNFHFHSKR	VTAHGD	-16.693
>gi 21326945 gb AAM48106.	1416	TAHGDTQPQLDKAR	PTYGAG	-31.51
>gi 21326945 gb AAM48106.	1467	GCYACSSGISCKVR	IHVDEP	-39.026
>gi 21326945 gb AAM48106.	1497	DPDVVAASSLMAR	KLEFGT	-28.88
>gi 21326945 gb AAM48106.	1525	AMPKTSLCFYIVER	EHCKSC	-42.615
>gi 21326945 gb AAM48106.	1618	PFILLILFFMFGWR	ILFCFK	-45.63
>gi 21326945 gb AAM48106.	1627	MFGWRILFCFKCCR	RTRGLF	-38.335
>gi 21326945 gb AAM48106.	1628	FGWRILFCFKCCR	TRGLFK	-30.474
>gi 21326945 gb AAM48106.	1630	WRILFCFKCCRTR	GLFKYR	-21.678
>gi 21326945 gb AAM48106.	1636	FKCCRTRGLFKYR	HLKDDE	-27.917
>gi 21326945 gb AAM48106.	1647	KYRHLKDDEETGYR	RIIEKL	-47.145
>gi 21326945 gb AAM48106.	1648	YRHLKDDEETGYRR	IIEKLN	-30.006
>gi 21326945 gb AAM48106.	1667	NNKKGKNKLLDGER	LARRRI	-44.328
>gi 21326945 gb AAM48106.	1671	GKNKLLDGERLADR	RIAEFL	-35.471
>gi 21326945 gb AAM48106.	1672	KNKLLDGERLADRR	IAELFS	-23.116
>gi 138192 sp P06473.1 GB	43	HATSSTHNGSHTSR	T TSAQT	-11.606
>gi 138192 sp P06473.1 GB	50	NGSHTSRTTSAQTR	SVYSQH	-18.602
>gi 138192 sp P06473.1 GB	66	YSQHVTSSSEAVSHR	ANETIY	-23.493
>gi 138192 sp P06473.1 GB	92	GDVVGVNNTTKYPYR	VCSMAQ	-34.625

>gi 138192 sp P06473.1 GB	104	YRVCSMAQGTDLIR	FERNII	-39.657
>gi 138192 sp P06473.1 GB	107	CSMAQGTDLIRFER	NIICTS	-18.975
>gi 138192 sp P06473.1 GB	131	NEDLDEGIMVVYKR	NIVAHT	-17.404
>gi 138192 sp P06473.1 GB	141	VYKRNIVAHTFKVR	VYQKVL	-35.097
>gi 138192 sp P06473.1 GB	150	TFKVRVYQKVLTFR	RSYAYI	-24.813
>gi 138192 sp P06473.1 GB	151	FKVRVYQKVLTFRR	SYAYIY	-22.164
>gi 138192 sp P06473.1 GB	191	HINKFAQCYSSYSR	VIGGTV	-36.352
>gi 138192 sp P06473.1 GB	203	SRVIGGTVFVAYHR	DSYENK	-28.82
>gi 138192 sp P06473.1 GB	225	QLIPDDYSNTHSTR	YVTVKD	-10.358
>gi 138192 sp P06473.1 GB	236	STRYVTVKDQWHSR	GSTWLY	-32.989
>gi 138192 sp P06473.1 GB	243	KDQWHSRGSTWLYR	ETCNLN	-27.653
>gi 138192 sp P06473.1 GB	258	TCNLNCMLTITTAR	SKYPYH	-21.214
>gi 138192 sp P06473.1 GB	285	DVVYISPFYNGTNR	NASYFG	-29.384
>gi 138192 sp P06473.1 GB	311	FIFPNYTIIVSDFGR	PNAAPE	-37.173
>gi 138192 sp P06473.1 GB	320	SDFGRPNAAPETHR	LVAFLE	-30.803
>gi 138192 sp P06473.1 GB	327	AAPETHRLVAFLE	ADSVIS	-34.517
>gi 138192 sp P06473.1 GB	354	NVTCQLTFWEASER	TIRSEA	-44.497
>gi 138192 sp P06473.1 GB	357	CQLTFWEASERTIR	SEAEDS	-9.708
>gi 138192 sp P06473.1 GB	393	QEVNMSDSALDCVR	DEAINK	-41.712
>gi 138192 sp P06473.1 GB	444	WQGIKQKSLVELER	LANRSS	-41.784
>gi 138192 sp P06473.1 GB	448	KQKSLVELERLANR	SSLNIT	-12.796
>gi 138192 sp P06473.1 GB	456	ERLANRSSLNITHR	TRRSTS	-25.605
>gi 138192 sp P06473.1 GB	458	LANRSSLNITHRTR	RSTSDN	-9.982
>gi 138192 sp P06473.1 GB	491	LVYAQLQFTYDTLR	GYINRA	-41.847
>gi 138192 sp P06473.1 GB	496	LQFTYDTLRGYINR	ALAQIA	-18.769
>gi 138192 sp P06473.1 GB	510	ALAQIAEAWCVDQR	RTLEVF	-38.036
>gi 138192 sp P06473.1 GB	511	LAQIAEAWCVDQRR	TLEVFK	-30.55
>gi 138192 sp P06473.1 GB	539	AILSAINKPIAAR	FMGDVL	-10.879
>gi 138192 sp P06473.1 GB	562	SCVTINQTSVKVLR	DMNVKE	-10.573
>gi 138192 sp P06473.1 GB	572	KVLRDMNVKESPGR	CYSRPV	-32.682
>gi 138192 sp P06473.1 GB	576	DMNVKESPGRCYSR	PVVIFN	-22.841
>gi 138192 sp P06473.1 GB	606	QLGEDNEILLGNHR	TEECQL	-34.062
>gi 138192 sp P06473.1 GB	634	GNSAYEYVDYLFKR	MIDLSS	-31.201
>gi 138192 sp P06473.1 GB	661	IALDIDPLENTDFR	VLELYS	-45.954
>gi 138192 sp P06473.1 GB	672	DFRVLELYSQKELR	SSNVFD	-14.75
>gi 138192 sp P06473.1 GB	684	LRSSNVFDLEEIMR	EFNSYK	-41.077
>gi 138192 sp P06473.1 GB	692	LEEIMREFNSYKQR	VKYVED	-31.411
>gi 138192 sp P06473.1 GB	773	AIAVVIITYLIYTR	QRRRCT	-29.671
>gi 138192 sp P06473.1 GB	775	AVVIITYLIYTRQR	RLCTQP	-30.605
>gi 138192 sp P06473.1 GB	776	VVIITYLIYTRQRR	LCTQPL	-15.119
>gi 138192 sp P06473.1 GB	822	APPSYEESVYNSGR	KGPGPP	-34.553
>gi 138192 sp P06473.1 GB	853	TNEQAYQMLLALAR	LDAEQR	-31.674
>gi 138192 sp P06473.1 GB	859	QMLLALARLDAEQR	AQQNGT	-33.83

>gi 138192 sp P06473.1 GB	886	GTQDKGQKPNLLDR	LRHRKN	-40.142
>gi 138192 sp P06473.1 GB	888	QDKGQKPNLLDRLR	HRKNGY	-31.849
>gi 138192 sp P06473.1 GB	890	KGQKPNLLDRLRHR	KNGYRH	-28.215
>gi 138192 sp P06473.1 GB	895	NLLDRLRHRKNGYR	HLKDSD	-21.169
>gi 21702651 gb AAM76034.	29	RTSFFLWVILFQR	TFSIPL	-40.707
>gi 21702651 gb AAM76034.	54	STLQVSDVDKLVCR	DKLSST	-31.384
>gi 21702651 gb AAM76034.	64	LVCRDKLSSTNQLR	PVGLNL	-25.799
>gi 21702651 gb AAM76034.	85	GNGVATDVPSATKR	WGFRSG	-21.328
>gi 21702651 gb AAM76034.	89	ATDVPSATKRWGFR	SGVPPK	-20.539
>gi 21702651 gb AAM76034.	130	DGSECLPAAPDGIR	GFPRCR	-37.344
>gi 21702651 gb AAM76034.	134	CLPAAPDGIRGFPR	CRYVHK	-28.084
>gi 21702651 gb AAM76034.	136	PAAPDGIRGFPRCR	YVHKVS	-29.967
>gi 21702651 gb AAM76034.	164	FAFHKEGAFFLYDR	LASTVI	-46.811
>gi 21702651 gb AAM76034.	172	FFLYDRLASTVIYR	GTTFAE	-22.753
>gi 21702651 gb AAM76034.	200	PQAKKDFSSHPLR	EPVNAT	-8.079
>gi 21702651 gb AAM76034.	219	TEDPSSGYSTTIR	YQATGF	-33.137
>gi 21702651 gb AAM76034.	247	FEVDNLTYVQLEPR	FTPQFL	-26.769
>gi 21702651 gb AAM76034.	266	LLQLNETIYTSGKR	SNTTGK	-19.97
>gi 21702651 gb AAM76034.	299	GEWAFWETKKNLTR	KIRSEE	-23.25
>gi 21702651 gb AAM76034.	302	AFWETKKNLTRKIR	SEELSF	-1.011
>gi 21702651 gb AAM76034.	325	SNGAKNISGQSPAR	TSSDPG	-30.823
>gi 21702651 gb AAM76034.	358	ENSSAMVQVHSQGR	EAAVSH	-22.593
>gi 21702651 gb AAM76034.	409	LDISEATQVEQHHR	RTDNDS	-27.668
>gi 21702651 gb AAM76034.	410	DISEATQVEQHHR	TDNDST	-15.287
>gi 21702651 gb AAM76034.	497	NTIAGVAGLITGGR	RTRREA	-30.043
>gi 21702651 gb AAM76034.	498	TIAGVAGLITGRR	TRREAI	-25.592
>gi 21702651 gb AAM76034.	500	AGVAGLITGRRRTR	REAIVN	-7.961
>gi 21702651 gb AAM76034.	559	GLMHNQDGLICGLR	QLANET	-26.376
>gi 21702651 gb AAM76034.	574	LANETTQALQLFLR	ATTELRL	-25.273
>gi 21702651 gb AAM76034.	580	QALQLFLRATTELRL	TFSILN	-36.489
>gi 21702651 gb AAM76034.	587	RATTELRTFSILNR	KAIDFL	-27.836
>gi 21702651 gb AAM76034.	596	SILNRKAIDFLLQR	WGGTCH	-41.39
>gi 21702651 gb AAM76034.	649	PDQGDNDNWWTGWR	QWIPAG	-43.603
>gi 3253216 gb AAC24346.1	30	KTSFLVWVILFQR	AISMPL	-31.919
>gi 3253216 gb AAC24346.1	55	STLKATEIDQLVCR	DKLSST	-39.794
>gi 3253216 gb AAC24346.1	86	GNGIATDVPSATKR	WGFRSG	-21.37
>gi 3253216 gb AAC24346.1	90	ATDVPSATKRWGFR	SGVPPK	-20.539
>gi 3253216 gb AAC24346.1	131	DGSECLPLPPDGVR	GFPRCR	-33.391
>gi 3253216 gb AAC24346.1	135	CLPLPPDGVRGFPR	CRYVHK	-22.759
>gi 3253216 gb AAC24346.1	137	PLPPDGVRGFPRCR	YVHKVQ	-29.967
>gi 3253216 gb AAC24346.1	165	LAFHKNGAFFLYDR	LASTVI	-46.787
>gi 3253216 gb AAC24346.1	173	FFLYDRLASTVIYR	GTTFAE	-22.753
>gi 3253216 gb AAC24346.1	247	LFKVDNHTYVQLDR	PHTPQF	-41.495

>gi 3253216 gb AAC24346.1	262	HTPQFLVQLNETLR	RNNRLS	-32.117
>gi 3253216 gb AAC24346.1	263	TPQFLVQLNETLRR	NNRLSN	-24.213
>gi 3253216 gb AAC24346.1	266	FLVQLNETLRRNRR	LSNSTG	-12.612
>gi 3253216 gb AAC24346.1	273	TLRRNNRLSNSTGR	LTWTLD	-31.441
>gi 3253216 gb AAC24346.1	359	TDSPPVVSVLTAGR	TEEMST	-35.282
>gi 3253216 gb AAC24346.1	498	NTVSKVADSLSPTR	KQKRSV	-33.781
>gi 3253216 gb AAC24346.1	505	DSLSPTRKQKRSVR	QNTANK	6.274
>gi 3253216 gb AAC24346.1	560	GVMHNNQGLICGLR	QLANET	-26.376
>gi 3253216 gb AAC24346.1	575	LANETTQALQLFLR	ATTELRL	-25.273
>gi 3253216 gb AAC24346.1	581	QALQLFLRATTELRL	TYSLLN	-39.931
>gi 3253216 gb AAC24346.1	588	RATTELRTYSLLRN	KAIDFL	-32.856
>gi 3253216 gb AAC24346.1	597	SLLNRKAIDFLLQR	WGGTCR	-41.036
>gi 3253216 gb AAC24346.1	603	AIDFLLQRWGGTCR	ILGPSC	-40.379
>gi 3253216 gb AAC24346.1	650	PDHGDDLNLWTGWR	QWIPAG	-41.932
>gi 288930 emb CAA51257.1	57	LLSFLPSDFFPVSR	DLLDTA	-29.212
>gi 288930 emb CAA51257.1	68	SVRDLLDTASALYR	DALESP	-26.131
>gi 288930 emb CAA51257.1	85	ESPEHCSPHHTALR	QAILCW	-22.892
>gi 288930 emb CAA51257.1	111	ATWVGVNLEDPASR	DLVVSY	-40.311
>gi 288930 emb CAA51257.1	127	VVSYVNTNMGLKFR	QLLWFH	-32.276
>gi 288930 emb CAA51257.1	141	QLLWFHISCLTFGR	ETVIEY	-35.367
>gi 288930 emb CAA51257.1	156	TVIEYLVSFGVWIR	TPPAYR	-36.397
>gi 288930 emb CAA51257.1	162	VSFGVWIRTPPAYR	PPNAPI	-33.855
>gi 288930 emb CAA51257.1	179	APILSTLPETTIVR	RRGRSP	-35.785
>gi 288930 emb CAA51257.1	180	PILSTLPETTIVRR	RGRSPR	-14.017
>gi 288930 emb CAA51257.1	181	ILSTLPETTIVRRR	GRSPRR	-10.665
>gi 288930 emb CAA51257.1	186	PETTIVRRRGRSPR	RRTSPS	7.612
>gi 288930 emb CAA51257.1	187	ETTVVRRRGRSPRR	RTPSPR	-11.322
>gi 288930 emb CAA51257.1	188	TTVVRRRGRSPRRR	TPSPRR	-13.685
>gi 288930 emb CAA51257.1	193	RRGRSPRRRTPSPR	RRRSQS	-20.815
>gi 288930 emb CAA51257.1	194	RGRSPRRRTPSPRR	RRSQSP	-20.14
>gi 288930 emb CAA51257.1	195	GRSPRRRTPSPRRR	RSQSPR	-11.814
>gi 288930 emb CAA51257.1	201	RTPSPRRRRSQSPR	RRRSQS	-16.025
>gi 288930 emb CAA51257.1	202	TPSPRRRRSQSPRR	RRSQSR	-20.838
>gi 288930 emb CAA51257.1	203	PSPRRRRSQSPRRR	RSQSRE	-14.003
>gi 288930 emb CAA51257.1	204	SPRRRRSQSPRRRR	SQSRES	16.661
>gi 288930 emb CAA51257.1	208	RRSQSPRRRRSQSR	ESQC--	-10.989
>gi 1346266 sp P16060.2 H	64	KEHNGKLCSLKGVR	PLILKD	-10.806
>gi 1346266 sp P16060.2 H	131	KHLMSSTNHIEKIR	IIPRNS	-35.784
>gi 1346266 sp P16060.2 H	135	SSTNHIEKIRIIPR	NSWSEH	-1.522
>gi 1346266 sp P16060.2 H	156	ASSGVSSSCPYNRR	SSFYRN	-31.491
>gi 1346266 sp P16060.2 H	161	SSSCPYNRRSSFYR	NVVWLI	-24.54
>gi 1346266 sp P16060.2 H	178	WLIKKNNSYPTIKR	TYNNTN	-29.48
>gi 1346266 sp P16060.2 H	205	WGIHHPADAAEQTR	LYKNSN	-41.426

>gi 1346266 sp P16060.2 H	224	NTYVSVGTSTLNQR	SIPEIA	-24.145
>gi 1346266 sp P16060.2 H	232	STLNQRSIPEIATR	PKVNGQ	-27.83
>gi 1346266 sp P16060.2 H	241	EIATRPKVNGQNGR	IEFFWT	-38.55
>gi 1346266 sp P16060.2 H	250	GQNGRIEFFWTILR	PNHAIS	-39.902
>gi 1346266 sp P16060.2 H	282	AYKIVKKGDSAIMR	SELEYG	-38.604
>gi 1346266 sp P16060.2 H	334	YVKS NKLVLATGPR	NVPQRR	-24.256
>gi 1346266 sp P16060.2 H	339	KLVLATGPRNVPQR	RKKRGL	-7.743
>gi 1346266 sp P16060.2 H	340	LVLATGPRNVPQRR	KKRGLF	-22.954
>gi 1346266 sp P16060.2 H	418	QFEAVGKEFNLER	RIENLN	-40.345
>gi 1346266 sp P16060.2 H	419	FEAVGKEFNLER	IENLNK	-31.907
>gi 1346266 sp P16060.2 H	449	TYNAELVLMENER	TLDFHD	-45.173
>gi 1346266 sp P16060.2 H	466	FHDSNVKNLYDKVR	LQLRDN	-40.721
>gi 1346266 sp P16060.2 H	470	NVKNLYDKVRLQLR	DNAKEL	-3.602
>gi 1346266 sp P16060.2 H	496	FYHKCDNECMESVR	NGTYDY	-40.611
>gi 1346266 sp P16060.2 H	510	NGTYDYPQYSEESR	LNREEI	-40.145
>gi 1346266 sp P16060.2 H	513	YDYPQYSEESRLNR	EEIDGV	-11.122
>gi 1346266 sp P16060.2 H	562	LSFWMCSNGSLQCR	ICI---	-38.621
>gi 122933 sp P11135 HEMA	69	KLCSLNGVKPLILR	DCSVAG	-12.969
>gi 122933 sp P11135 HEMA	131	KHLLSCTKHFEKIR	IIPRDS	-37.715
>gi 122933 sp P11135 HEMA	135	SCTKHFEKIRIIPR	DSWPNH	0.295
>gi 122933 sp P11135 HEMA	156	ASLGVSSACPYNGR	SSFFRN	-31.83
>gi 122933 sp P11135 HEMA	161	SSACPYNGRSSFFR	NVVWLI	-24.79
>gi 122933 sp P11135 HEMA	178	WLIKKNAYPTIKR	SYSNTN	-21.627
>gi 122933 sp P11135 HEMA	224	TTYVSVGTSTLNQR	SIPKIA	-24.112
>gi 122933 sp P11135 HEMA	232	STLNQRSIPKIATR	PKLNGQ	-8.031
>gi 122933 sp P11135 HEMA	241	KIATRPKLNGQSGR	MEFFWT	-31.76
>gi 122933 sp P11135 HEMA	326	LTIGECPKYVKSDR	LVLATG	-30.968
>gi 122933 sp P11135 HEMA	334	YVKSDRLVLATGLR	NTPQRK	-26.104
>gi 122933 sp P11135 HEMA	339	RLVLATGLRNTPQR	KRKKRG	-28.723
>gi 122933 sp P11135 HEMA	341	VLATGLRNTPQRKR	KKRGLF	-18.459
>gi 122933 sp P11135 HEMA	419	QFEAVGKEFNLER	RIENLN	-40.345
>gi 122933 sp P11135 HEMA	420	FEAVGKEFNLER	IENLNK	-31.907
>gi 122933 sp P11135 HEMA	450	TYNAELVLMENER	TLDFHD	-45.173
>gi 122933 sp P11135 HEMA	467	FHDANVKS LYDKVR	LQLKDN	-40.721
>gi 122933 sp P11135 HEMA	475	LYDKVRLQLKDNR	ELGNGC	-20.166
>gi 122933 sp P11135 HEMA	497	FYHKCDNECMESIR	NGTYNY	-41.497
>gi 122933 sp P11135 HEMA	511	NGTYNYPQYSEEAR	LNREEI	-38.338
>gi 122933 sp P11135 HEMA	514	YNYPQYSEEARLNR	EEISGI	-12.152
>gi 122933 sp P11135 HEMA	563	LSFWMCSNGSLQCR	ICI---	-38.621
>gi 28849361 gb AAO52863.	58	KLCDLDGVKPLILR	DCSVAG	-12.871
>gi 28849361 gb AAO52863.	112	DFNDYEELKHLLSR	INHFEK	-26.471
>gi 28849361 gb AAO52863.	150	SSACPYLGKSSFFR	NVVWLI	-26.581
>gi 28849361 gb AAO52863.	167	WLIKKNAYPTIKR	SYNNTN	-21.606

>gi 28849361 gb AAO52863.	213	TTYISVGTSTLNQR	LVPKIA	-32.261
>gi 28849361 gb AAO52863.	221	STLNQRLVPKIATR	SKVNGQ	-1.836
>gi 28849361 gb AAO52863.	230	KIATRSKVNGQSGR	MEFFWT	-31.76
>gi 28849361 gb AAO52863.	315	LTIGECPKYVKSNR	LVLATG	-24.563
>gi 28849361 gb AAO52863.	323	YVKS NRLVLATGLR	NTPQRE	-26.682
>gi 28849361 gb AAO52863.	328	RLVLATGLRNTPQR	ERRRKK	-22.968
>gi 28849361 gb AAO52863.	330	VLATGLRNTPQRER	RRKKRG	-32.867
>gi 28849361 gb AAO52863.	331	LATGLRNTPQRERR	RKKRGL	7.958
>gi 28849361 gb AAO52863.	332	ATGLRNTPQRERRR	KKRGLF	-18.83
>gi 28849361 gb AAO52863.	403	IIDKMNTQFEAVGR	EFNNLE	-35.83
>gi 28849361 gb AAO52863.	410	QFEAVGREFNNLER	RIENLN	-39.647
>gi 28849361 gb AAO52863.	411	FEAVGREFNNLERR	IENLNK	-30.932
>gi 28849361 gb AAO52863.	441	TYNAELLVLMENER	TLDFHD	-45.173
>gi 28849361 gb AAO52863.	458	FHDSNVKNLYDKVR	LQLRDN	-40.721
>gi 28849361 gb AAO52863.	462	NVKNLYDKVRLQLR	DNAKEL	-3.602
>gi 28849361 gb AAO52863.	499	SVKNGTYDYPQYLR	KAGLNR	-30.863
>gi 28849361 gb AAO52863.	505	YDYPQYLRKAGLNR	EEISGV	-26.768
>gi 28849361 gb AAO52863.	554	LSLWMCSNGSLQCR	ICI---	-38.599
>gi 324096 gb AAA43150.1	40	AVSNGTKVNTLTER	GVEVVN	-32.513
>gi 324096 gb AAA43150.1	53	RGVEVVNATETVER	TNIPKI	-48.109
>gi 324096 gb AAA43150.1	65	ERTNIPKICKSGKR	TTDLGQ	-21.052
>gi 324096 gb AAA43150.1	98	DQFLEFSADLIER	REGNDV	-41.131
>gi 324096 gb AAA43150.1	99	QFLEFSADLIERR	EGNDVC	-12.05
>gi 324096 gb AAA43150.1	117	VCYPGKVFVNEEALR	QILRGS	-39.423
>gi 324096 gb AAA43150.1	121	GKVFVNEEALRQILR	GSGGID	-12.915
>gi 324096 gb AAA43150.1	139	IDKETMGFTYSGIR	TNGTTS	-36.058
>gi 324096 gb AAA43150.1	148	YSGIRNNGTTSACR	RSGSSF	-33.325
>gi 324096 gb AAA43150.1	149	SGIRNNGTTSACRR	SGSSFY	-19.072
>gi 324096 gb AAA43150.1	181	ASFPQMTKSYKNTR	RESALI	-30.835
>gi 324096 gb AAA43150.1	182	SFPQMTKSYKNTRR	ESALIV	-12.538
>gi 324096 gb AAA43150.1	229	SKYHQSFVPSPGTR	PQINGQ	-29.287
>gi 324096 gb AAA43150.1	238	SPGTRPQINGQSGR	IDFHWL	-31.514
>gi 324096 gb AAA43150.1	265	VTFSFN GAFIAPNR	ASFLRG	-29.441
>gi 324096 gb AAA43150.1	270	NGAFIAPNRASFLR	GKSMGI	-21.049
>gi 324096 gb AAA43150.1	300	EGECYHSGGTITSR	LPFQNI	-25.626
>gi 324096 gb AAA43150.1	309	TITSRLPFQINISR	AVGKCP	-19.484
>gi 324096 gb AAA43150.1	316	FQINISR AVGK CPR	YVKQES	-20.361
>gi 324096 gb AAA43150.1	339	ATGMKNVPEPSKRR	KKRGLF	-28.364
>gi 324096 gb AAA43150.1	367	NGWEGLVDGWYGFR	HQNAQG	-39.83
>gi 324096 gb AAA43150.1	396	TQSAIDQITGKLN R	LIEKTN	-23.244
>gi 324096 gb AAA43150.1	459	NQHTIDLADSEMNR	LYERVR	-51.058
>gi 324096 gb AAA43150.1	463	IDLADSEMNRLYER	VRKQLR	-34.598
>gi 324096 gb AAA43150.1	465	LADSEMNRLYERVR	KQLREN	-37.898

>gi 324096 gb AAA43150.1	469	EMNRLYERVRKQLR	ENAEED	3.944
>gi 324096 gb AAA43150.1	495	IFHKDDDCMASIR	NNTYDH	-36.558
>gi 324096 gb AAA43150.1	505	ASIRNNTYDHSKYR	EEAMQN	-37.425
>gi 324096 gb AAA43150.1	512	YDHSKYREEAMQNR	IQIDPV	-41.338
>gi 324096 gb AAA43150.1	558	MGLVFICVKNGNMR	CTICI-	-28.748
>gi 1491997 gb AAC55182.1	34	LVIVLVALLFLYSR	ACELEI	-33.52
>gi 1491997 gb AAC55182.1	86	SFPEQLDSSLSEGR	THKHKF	-36.919
>gi 1491997 gb AAC55182.1	130	FSCVLVDPEQVVQR	HLALTP	-28.745
>gi 1491997 gb AAC55182.1	146	ALTPPGTTPPTATR	TPPENA	-32.261
>gi 1491997 gb AAC55182.1	158	TRTPPENADAAGAR	RRRRGA	-35.441
>gi 1491997 gb AAC55182.1	159	RTPPENADAAGARR	RRRGAP	-20.172
>gi 1491997 gb AAC55182.1	160	TPPENADAAGARRR	RRGAPT	-18.408
>gi 1491997 gb AAC55182.1	161	PPENADAAGARRRR	RGAPTS	10.817
>gi 1491997 gb AAC55182.1	212	GNKKNKKKGKGGKR	RGNKTK	-12.769
>gi 1491997 gb AAC55182.1	213	NKKNKKKGKGGKRR	GNKTKH	11.008
>gi 1491997 gb AAC55182.1	225	RRGNKTKHKNDKKR	GGIPKN	-14.279
>gi 1491997 gb AAC55182.1	232	HKNDKKRGGIPKNR	HVR---	-22.921
>gi 138680 sp P26540.1 VL	61	AGVFFGGLGISTGR	GTGGAT	-24.762
>gi 138680 sp P26540.1 VL	79	ATGYVPLGEGPGVR	VGGTPT	-39.635
>gi 138680 sp P26540.1 VL	88	GPGVRVGGTPTVVR	PSLVPE	-28.625
>gi 138680 sp P26540.1 VL	174	AVLEVAPEPIPTR	VRVSRT	-33.255
>gi 138680 sp P26540.1 VL	176	LEVAPEPIPTRVR	VSRTHY	-29.851
>gi 138680 sp P26540.1 VL	179	APEPIPTRVRVSR	THYHNP	-3.672
>gi 138680 sp P26540.1 VL	233	DITDIIIEEIPSR	YTFEIE	-34.942
>gi 138680 sp P26540.1 VL	245	SRYTFEIEEPTPPR	RSSTPL	-32.125
>gi 138680 sp P26540.1 VL	246	RYTFEIEEPTPPRR	SSTPLP	-11.737
>gi 138680 sp P26540.1 VL	253	EPTPPRRSSTPLPR	NQSVGR	-24.289
>gi 138680 sp P26540.1 VL	259	RSSTPLPRNQSVGR	RRGFSL	-33.972
>gi 138680 sp P26540.1 VL	260	SSTPLPRNQSVGRR	RGFSLT	-15.2
>gi 138680 sp P26540.1 VL	261	STPLPRNQSVGRRR	GFSLTN	-15.052
>gi 138680 sp P26540.1 VL	268	QSVGRRRGFSLTNR	RLVQQV	-28.811
>gi 138680 sp P26540.1 VL	269	SVGRRRGFSLTNR	LVQQVQ	-20.912
>gi 138680 sp P26540.1 VL	290	DNPLFLTQPSKLVR	FAFDNP	-3.104
>gi 138680 sp P26540.1 VL	319	FENDLDVFEPPDR	DFLDVR	-50.922
>gi 138680 sp P26540.1 VL	325	VFEPPDRDFLDVR	ELRRPQ	-38.531
>gi 138680 sp P26540.1 VL	328	EPPDRDFLDVREL	RPQYST	-18.088
>gi 138680 sp P26540.1 VL	329	PPDRDFLDVRELRR	PQYSTT	-17.154
>gi 138680 sp P26540.1 VL	341	RRPQYSTTPAGYVR	VSRLGT	-32.342
>gi 138680 sp P26540.1 VL	344	QYSTTPAGYVRVSR	LGTRAT	-20.01
>gi 138680 sp P26540.1 VL	348	TPAGYVRVSRGTR	ATIRTR	-7.604
>gi 138680 sp P26540.1 VL	352	YVRVSRGTRATIR	TRSGAQ	-26.08
>gi 138680 sp P26540.1 VL	354	RVSRLGTRATIRTR	SGAQIG	-17.231
>gi 138680 sp P26540.1 VL	367	RSGAQIGSQVHFYR	DLSSIN	-24.125

>gi 138680 sp P26540.1 VL	441	VEDFSGSQLVIGNR	RSTNSY	-22.734
>gi 138680 sp P26540.1 VL	442	EDFSGSQLVIGNRR	STNSYT	-13.827
>gi 138680 sp P26540.1 VL	451	IGNRRSTNSYTVPR	FETTRN	-33.635
>gi 138680 sp P26540.1 VL	456	STNSYTVPRFETTR	NGSYYT	-25.394
>gi 138680 sp P26540.1 VL	476	QDTKGYVAYPESR	NNAEII	-36.285
>gi 138680 sp P26540.1 VL	509	HDNTGDFYLHPSLR	RRKRKR	-26.121
>gi 138680 sp P26540.1 VL	510	DNTGDFYLHPSLRR	RKRKRK	-17.367
>gi 138680 sp P26540.1 VL	511	NTGDFYLHPSLRRR	KRKRKY	-19.436
>gi 138680 sp P26540.1 VL	513	GDFYLHPSLRRRKR	KRKYL-	-7.235
>gi 138680 sp P26540.1 VL	515	FYLHPSLRRRKRKR	KYL---	-14.122
>gi 459921 gb AAA46955.1	47	PKIEHTTIADQILR	YGSMGV	-32.653
>gi 459921 gb AAA46955.1	69	GGLGIGSGSGTGGR	TGYVPL	-36.615
>gi 459921 gb AAA46955.1	78	GTGGRTGYVPLSTR	PSTVSE	-26.126
>gi 459921 gb AAA46955.1	90	TRPSTVSEASIPR	PPVSID	-25.61
>gi 459921 gb AAA46955.1	215	NENITSSTPIPGVR	RPARLG	-28.303
>gi 459921 gb AAA46955.1	216	ENITSSTPIPGVRR	PARLGL	-23.46
>gi 459921 gb AAA46955.1	219	TSSTPIPGVRRPAR	LGLYSK	-14.853
>gi 459921 gb AAA46955.1	284	APDPDFLDIIALHR	PALTSR	-31.843
>gi 459921 gb AAA46955.1	290	LDIIALHRPALTSR	RNTVRY	-25.161
>gi 459921 gb AAA46955.1	291	DIIALHRPALTSRR	NTVRYS	-13.86
>gi 459921 gb AAA46955.1	295	LHRPALTSRRNTVSR	YSRLGN	-14.381
>gi 459921 gb AAA46955.1	298	PALTSRRNTVRYSR	LGNKQT	-19.069
>gi 459921 gb AAA46955.1	306	TVRYSRLGNKQTLR	TRSGAT	-25.44
>gi 459921 gb AAA46955.1	308	RYSRLGNKQTLRTR	SGATIG	-25.553
>gi 459921 gb AAA46955.1	316	QTLRTRSGATIGAR	VHYYD	-32.039
>gi 459921 gb AAA46955.1	450	GDFYLHPSYMLKR	RRKRVS	-27.777
>gi 459921 gb AAA46955.1	451	DFYLHPSYMLKRR	RKRVS	-20.974
>gi 459921 gb AAA46955.1	452	FYLHPSYMLKRRR	KRVSYF	-17.482
>gi 459921 gb AAA46955.1	454	LHPSYMLKRRRKR	VSFFFT	-3.891
>gi 56463030 gb AAV91690.	69	GGLGIGTGSSTGGR	TGYIPL	-36.719
>gi 56463030 gb AAV91690.	78	GTGGRTGYIPLGTR	PPTATD	-35.522
>gi 56463030 gb AAV91690.	90	TRPPTATDTLAPVR	PPLTVD	-30.357
>gi 56463030 gb AAV91690.	220	PNTVTSSTPIPGSR	PVARLG	-26.986
>gi 56463030 gb AAV91690.	224	TSSTPIPGSRPVAR	LGLYSR	-24.49
>gi 56463030 gb AAV91690.	230	PGSRPVARLGLYSR	TTQQVK	-32.591
>gi 56463030 gb AAV91690.	291	APDPDFLDIVALHR	PALTSR	-31.909
>gi 56463030 gb AAV91690.	297	LDIVALHRPALTSR	RTGIRY	-23.035
>gi 56463030 gb AAV91690.	298	DIVALHRPALTSRR	TGIRYS	-21.846
>gi 56463030 gb AAV91690.	302	LHRPALTSRRTGIR	YSRIGN	-20.741
>gi 56463030 gb AAV91690.	305	PALTSRRTGIRYSR	IGNKQT	-19.225
>gi 56463030 gb AAV91690.	313	GIRYSRIGNKQTLR	TRSGKS	-25.358
>gi 56463030 gb AAV91690.	315	RYSRIGNKQTLRTR	SGKSIG	-24.887
>gi 56463030 gb AAV91690.	456	AGDFYLHPSYMLR	KRRKRL	-36.376

>gi 56463030 gb AAV91690.	458	DFYLHPSYYMLRKR	RKRLPY	-21.99
>gi 56463030 gb AAV91690.	459	FYLHPSYYMLRKRR	KRLPYF	-15.186
>gi 56463030 gb AAV91690.	461	LHPSYYMLRKRKR	LPYFFS	-6.16
>gi 6002621 gb AAF00067.1	68	GGLGIGTGS GTGGR	TGYVPL	-36.649
>gi 6002621 gb AAF00067.1	89	TSAKPSITSGPMAR	PPVVVE	-27.525
>gi 6002621 gb AAF00067.1	156	DVSVTSHTTTSIFR	NPVFTE	-33.004
>gi 6002621 gb AAF00067.1	219	GPTSSTPVPGTAPR	PRVGLY	-30.62
>gi 6002621 gb AAF00067.1	221	TSSTPVPGTAPRPR	VGLYSR	-29.895
>gi 6002621 gb AAF00067.1	227	PGTAPRPRVGLYSR	ALHQVQ	-25.338
>gi 6002621 gb AAF00067.1	245	VQVTDPAFLSTPQR	LITYDN	-31.904
>gi 6002621 gb AAF00067.1	281	IHNAPDEAFMDIIR	LHRPAI	-46.169
>gi 6002621 gb AAF00067.1	284	APDEAFMDIIRLHR	PAIASR	-2.719
>gi 6002621 gb AAF00067.1	290	MDIIRLHRPAIASR	RGLVRY	-22.35
>gi 6002621 gb AAF00067.1	291	DIIRLHRPAIASRR	GLVRYS	-11.502
>gi 6002621 gb AAF00067.1	295	LHRPAIASRRGLVR	YSRIGQ	-15.49
>gi 6002621 gb AAF00067.1	298	PAIASRRGLVRYSR	IGQRGS	-20.131
>gi 6002621 gb AAF00067.1	302	SRRGLVRYSRIGQR	GSMHTR	-0.853
>gi 6002621 gb AAF00067.1	308	RYSRIGQRGSMHTR	SGKHIG	-22.848
>gi 6002621 gb AAF00067.1	316	GSMHTRSGKHIGAR	IHYFYD	-25.899
>gi 6002621 gb AAF00067.1	444	GSGFYLHPAWYFAR	KRRKRI	-35.029
>gi 6002621 gb AAF00067.1	446	GFYLHPAWYFARKR	RKRIPL	-23.009
>gi 6002621 gb AAF00067.1	447	FYLHPAWYFARKRR	KRIPLF	-15.015
>gi 6002621 gb AAF00067.1	449	LHPAWYFARKRRKR	IPLFFS	-6.937
>gi 6010224 emb CAB57284.	64	YLGGLGIGTWSTGR	VAAGGS	-37.022
>gi 6010224 emb CAB57284.	72	TWSTGRVAAGGSPR	YTPLRT	-22.395
>gi 6010224 emb CAB57284.	77	RVAAGGSPRYTPLR	TAGSTS	-29.252
>gi 6010224 emb CAB57284.	91	TAGSTSSLASIGSR	AVTAGT	-16.9
>gi 6010224 emb CAB57284.	98	LASIGRAVTAGTR	PSIGAG	-31.153
>gi 6010224 emb CAB57284.	117	GIPLDTLETLGALR	PGVYED	-31.359
>gi 6010224 emb CAB57284.	180	PEDIAVLELQPLDR	PTWQVS	-38.294
>gi 6010224 emb CAB57284.	238	GGENIELTYFGSPR	TSTPRS	-31.916
>gi 6010224 emb CAB57284.	243	ELTYFGSPRTSTPR	SIASKS	-14.327
>gi 6010224 emb CAB57284.	250	PRTSTPRSIASKSR	GILNWF	-29.78
>gi 6010224 emb CAB57284.	259	ASKSRGILNWFSKR	YYTQVP	-31.287
>gi 6010224 emb CAB57284.	295	YEAEPAVLKGPSGR	VGLSQV	-28.929
>gi 6010224 emb CAB57284.	310	GLSQVYKPDTLTTR	SGTEVG	-30.817
>gi 6010224 emb CAB57284.	322	TRSGTEVGPQLHVR	YSLSTI	-28.214
>gi 6010224 emb CAB57284.	371	FEEIELDDFSETHR	LLPQNT	-33.775
>gi 6010224 emb CAB57284.	387	PQNTSSTPVGSGVR	RSLIPT	-30.422
>gi 6010224 emb CAB57284.	388	QNTSSTPVGSGVRR	SLIPTQ	-10.324
>gi 6010224 emb CAB57284.	400	RRSLIPTQEFSTR	PTGVVT	-38.513
>gi 6010224 emb CAB57284.	461	LYSSNYTLHPSLLR	KRKKRK	-30.317
>gi 6010224 emb CAB57284.	463	SSNYTLHPSLLRKR	KKRKHA	-21.965

>gi 6010224 emb CAB57284.	466	YTLHPSLLRKRKKR	KHA---	-9.917
>gi 8919574 emb CAB96120.	66	GGLGISSAGGSGGR	LGYTPL	-37.057
>gi 8919574 emb CAB96120.	86	SGGGGSVIAAAPVR	PPITTE	-30.597
>gi 8919574 emb CAB96120.	160	ISDVTSDTSGTVSR	THINNP	-36.865
>gi 8919574 emb CAB96120.	172	SRTHINNPFAFEAPR	SGDQDV	-28.52
>gi 8919574 emb CAB96120.	210	ENTGGELIEMVPLR	HPPRSE	-30.703
>gi 8919574 emb CAB96120.	214	GELIEMVPLRHPPR	SEGDFR	-1.089
>gi 8919574 emb CAB96120.	220	VPLRHPPRSEGDFR	ETSFST	-38.7
>gi 8919574 emb CAB96120.	233	RETSFSTSTPNPDR	SALRSI	-31.61
>gi 8919574 emb CAB96120.	237	FSTSTPNPDRSALR	SINLAS	-21.378
>gi 8919574 emb CAB96120.	244	PDRSALRSINLASR	RYQQVQ	-34.76
>gi 8919574 emb CAB96120.	245	DRSALRSINLASRR	YQQVQV	-19.084
>gi 8919574 emb CAB96120.	259	YQQVQVENPAFLNR	PRELVQ	-30.56
>gi 8919574 emb CAB96120.	261	QVQVENPAFLNRPR	ELVQFE	-25.101
>gi 8919574 emb CAB96120.	305	VVAAPDPAFQDVVVR	LSRPSF	-41.892
>gi 8919574 emb CAB96120.	308	APDPAFQDVVRLSR	PSFTQS	-2.859
>gi 8919574 emb CAB96120.	315	DVVRLSRPSFTQSR	AGRVRV	-26.255
>gi 8919574 emb CAB96120.	318	RLSRPSFTQSRAGR	VRVSRL	-21.69
>gi 8919574 emb CAB96120.	320	SRPSFTQSRAGRVR	VSRLGR	-23.34
>gi 8919574 emb CAB96120.	323	SFTQSRAGRVRVSR	LGRTL	-13.273
>gi 8919574 emb CAB96120.	326	QSRAGRVRVSR	TLTMQT	0.559
>gi 8919574 emb CAB96120.	333	RVSRLGRTLTMQTR	SAKAFG	-21.304
>gi 8919574 emb CAB96120.	408	TSADENLTLVFSR	GRGQGS	-35.961
>gi 8919574 emb CAB96120.	410	ADENLTLVFSRGR	GQGSYV	-33.673
>gi 8919574 emb CAB96120.	441	INIGDSKYTLNPR	ETVSFE	-25.896
>gi 8919574 emb CAB96120.	472	GNADGTYYLEEPLR	KKRRKS	-39.863
>gi 8919574 emb CAB96120.	475	DGTYYLEEPLRKKR	RKSIFL	10.959
>gi 8919574 emb CAB96120.	476	GTYYLEEPLRKKRR	KSIFLL	-9.581
>gi 9626076 ref NP_040316	68	GGLGIGTGSSTGGR	TGYIPL	-36.719
>gi 9626076 ref NP_040316	77	GTGGRTGYIPLGGR	SNTVVD	-32.282
>gi 9626076 ref NP_040316	88	GGRSNTVVDVGPTR	PPVVIE	-36.606
>gi 9626076 ref NP_040316	119	LIEDSSVVTSGAPR	PTFTGT	-26.349
>gi 9626076 ref NP_040316	219	GEEPISTPLPTVR	RVAGPR	-24.072
>gi 9626076 ref NP_040316	220	EEPISTPLPTVRR	VAGPRL	-20.305
>gi 9626076 ref NP_040316	225	STPLPTVRRVAGPR	LYSRAY	-30.612
>gi 9626076 ref NP_040316	229	PTVRRVAGPRLYSR	AYQQVS	-14.646
>gi 9626076 ref NP_040316	244	YQQVSVANPEFLTR	PSSLIT	-31.994
>gi 9626076 ref NP_040316	268	AFEPVDTTLTFDPR	SDVPDS	-29.979
>gi 9626076 ref NP_040316	281	RSDVPDSDFMDIIR	LHRPAL	-45.165
>gi 9626076 ref NP_040316	284	VPDSDFMDIIRLHR	PALTSR	-2.539
>gi 9626076 ref NP_040316	290	MDIIRLHRPALTSR	RGTVRF	-25.448
>gi 9626076 ref NP_040316	291	DIIRLHRPALTSRR	GTVRFS	-12.564
>gi 9626076 ref NP_040316	295	LHRPALTSRRGTVR	FSRLGQ	-11.895

>gi 9626076 ref NP_040316	298	PALTSRRGTVRFSR	LGQRAT	-18.265
>gi 9626076 ref NP_040316	302	SRRGTVRFSRLGQR	ATMFTR	-6.472
>gi 9626076 ref NP_040316	308	RFSRLGQRATMFTR	SGTQIG	-25.524
>gi 9626076 ref NP_040316	316	ATMFTRSGTQIGAR	VHFYHD	-32.94
>gi 9626076 ref NP_040316	364	YADDMDPAVPVPSR	STTSFA	-18.256
>gi 9626076 ref NP_040316	448	YYLWPLYFIPKKR	KRVPYF	-27.356
>gi 9626076 ref NP_040316	450	LWPLYFIPKKRKR	VPYFFA	-12.426
>gi 975238 gb AAA86870.1	27	PPRRVSKETATKTR	QPRVQM	-23.693
>gi 975238 gb AAA86870.1	30	RVSKETATKTRQPR	VQMPNG	-13.309
>gi 975238 gb AAA86870.1	41	QPRVQMPNGLVLMR	MMGILW	-35.514
>gi 975238 gb AAA86870.1	55	MMGILWHAVAGTAR	NPVLKA	-25.617
>gi 975238 gb AAA86870.1	76	WNSVPLKQATAALR	KIKRTV	-32.814
>gi 975238 gb AAA86870.1	80	PLKQATAALRKIKR	TVSALM	6.228
>gi 975238 gb AAA86870.1	92	KRTVSALMVGLQKR	GKRRSA	-16.578
>gi 975238 gb AAA86870.1	95	VSALMVGLQKRQKR	RSATDW	9.967
>gi 975238 gb AAA86870.1	96	SALMVGLQKRQKR	SATDWM	-3.467
>gi 975238 gb AAA86870.1	120	VITLLGMTLAATVR	KERDGS	-35.331
>gi 975238 gb AAA86870.1	123	LLGMTLAATVRKER	DGSTVI	-7.167
>gi 975238 gb AAA86870.1	130	ATVRKERDGSTVIR	AEGKDA	-31.701
>gi 975238 gb AAA86870.1	141	VIRAEGKDAATQVR	VENGTC	-36.09
>gi 975238 gb AAA86870.1	183	DQGEPEVDVDCFCR	NVDGVY	-40.777
>gi 975238 gb AAA86870.1	194	FCRNVDGVVLEYGR	CGKQEG	-37.41
>gi 975238 gb AAA86870.1	202	YLEYGRCGKQEGSR	TRRSVL	-28.66
>gi 975238 gb AAA86870.1	204	EYGRGCGKQEGSRTR	RSVLIP	-25.996
>gi 975238 gb AAA86870.1	220	VLIPSHAQEGELTGR	GHKWLE	-35.22
>gi 975238 gb AAA86870.1	231	TGRGHKWLEGDSLRL	THLTRV	-44.571
>gi 975238 gb AAA86870.1	236	KWLEGDSLRLTHLTR	VEGWVV	-27.587
>gi 975238 gb AAA86870.1	265	VTVVWLTLESVVTR	VAVLVV	-33.128
>gi 975238 gb AAA86870.1	282	LVVLLCLAPVYASR	CTHLEN	-27.11
>gi 975238 gb AAA86870.1	289	APVYASRCTHLENR	DFVTGT	-28.046
>gi 975238 gb AAA86870.1	300	ENRDFVTGTQGTR	VTLVLE	-32.566
>gi 975238 gb AAA86870.1	337	WLDAIYQENPAKTR	EYCLHA	-31.608
>gi 975238 gb AAA86870.1	353	CLHAKLSDTKVAAR	CPTMGP	-3.783
>gi 975238 gb AAA86870.1	374	TLAEEHQGGTVCKR	DQSDRG	-16.396
>gi 975238 gb AAA86870.1	379	HQGGTVCKRDQSDR	GWGNHC	-31.489
>gi 975238 gb AAA86870.1	440	TGDYVAANETHSGR	KTASFT	-32.91
>gi 975238 gb AAA86870.1	467	LTMGEYGDVSLLCR	VASGVD	-35.569
>gi 975238 gb AAA86870.1	497	KTVEHLPTAWQVHR	DWFNDL	-28.966
>gi 975238 gb AAA86870.1	520	WKHEGAQNWNNAER	LVEFGA	-41.614
>gi 975238 gb AAA86870.1	596	TYTMCCKTKFTWKR	APTDSG	-15.279
>gi 975238 gb AAA86870.1	619	VVMEVTFSGTKPCR	IPVRAV	-30.578
>gi 975238 gb AAA86870.1	623	VTFSGTKPCRIPVR	AVAHGS	-18.122
>gi 975238 gb AAA86870.1	681	LSHQWFQKGSSIGR	VFQKTK	-34.311

>gi 975238 gb AAA86870.1	692	IGRVFQKTKKGIER	LTVIGE	-28.759
>gi 975238 gb AAA86870.1	752	LLGVALAWLGLNMR	NPTMSM	-33.054
>gi 975238 gb AAA86870.1	786	GVGADVGCVDTER	MELRCG	-46.198
>gi 975238 gb AAA86870.1	790	DVGCAVDTERMELR	CGEGLV	-28.244
>gi 975238 gb AAA86870.1	799	RMELRCGEGLVVWR	EVSEWY	-20.059
>gi 975238 gb AAA86870.1	838	TFEEGSCGVVPQNR	LEMAMW	-39.163
>gi 975238 gb AAA86870.1	845	GVVPQNRLEMAMWR	SSVTEL	-35.495
>gi 975238 gb AAA86870.1	875	LTVVVDKFDPTDYR	GGVPGL	-45.409
>gi 975238 gb AAA86870.1	908	WGHSMIWSIPEAPR	RFMVGT	-40.063
>gi 975238 gb AAA86870.1	909	GHSMIWSIPEAPRR	FMVGT	-26.504
>gi 975238 gb AAA86870.1	924	MVGTEGQSECPLER	RKTGVF	-42.266
>gi 975238 gb AAA86870.1	925	VGTEGQSECPLERR	KTGVFT	-26.736
>gi 975238 gb AAA86870.1	940	TGVFTVAEFGVGLR	TKVFLD	-32.783
>gi 975238 gb AAA86870.1	948	FGVGLRKTQVFLDFR	QEPTHE	-40.045
>gi 975238 gb AAA86870.1	979	NGMAIHTDQSLWMR	SMKNDT	-36.203
>gi 975238 gb AAA86870.1	998	TGTIVIVELLVTDLR	NCSWPA	-36.08
>gi 975238 gb AAA86870.1	1028	DSEFLPASLAGPR	SWYNRI	-26.237
>gi 975238 gb AAA86870.1	1033	LPASLAGPRSWYNR	IPGYSE	-29.263
>gi 975238 gb AAA86870.1	1051	SEQVKGPWKYTPIR	VIREEC	-32.588
>gi 975238 gb AAA86870.1	1054	VKGPWKYTPIRVIR	EECPGT	-3.386
>gi 975238 gb AAA86870.1	1071	PGTTVTINAKCDKR	GASVRS	-16.758
>gi 975238 gb AAA86870.1	1076	TINAKCDKRGASVR	STTESG	-14.078
>gi 975238 gb AAA86870.1	1091	TTESGKVIPEWCCR	ACTMPP	-42.543
>gi 975238 gb AAA86870.1	1101	WCCRACMPVPTFR	TGTDCW	-29.636
>gi 975238 gb AAA86870.1	1113	FRTGTDCWYAMEIR	PVHDQG	-34.492
>gi 975238 gb AAA86870.1	1123	MEIRPVHDQGGGLVR	SMVVAD	-31.099
>gi 975238 gb AAA86870.1	1154	GIVALFVVLEYIIR	RRPSTG	-39.029
>gi 975238 gb AAA86870.1	1155	IVALFVVLEYIIRR	RPSTGT	-25.359
>gi 975238 gb AAA86870.1	1156	VALFVVLEYIIRRR	PSTGTT	-12.954
>gi 975238 gb AAA86870.1	1180	GIVVLALLVTGMVR	IESLVR	-41.885
>gi 975238 gb AAA86870.1	1186	LLVTGMVRIESLVR	YVAVG	-39.296
>gi 975238 gb AAA86870.1	1216	IVALMLLQAVFELR	VGLLSA	-37.087
>gi 975238 gb AAA86870.1	1226	FELRVGLLSAFALR	RSLTVR	-28.259
>gi 975238 gb AAA86870.1	1227	ELRVGLLSAFALRR	SLTVRE	-12.616
>gi 975238 gb AAA86870.1	1232	LLSAFALRRSLTVR	EMVTTY	-14.224
>gi 975238 gb AAA86870.1	1271	KWGDALAMGALIFR	ACTAEG	-31.379
>gi 975238 gb AAA86870.1	1315	VCFLSVASACSVWR	LLKGHR	-43.382
>gi 975238 gb AAA86870.1	1321	ASACSVWRLLKGHR	EQKGLT	-3.412
>gi 975238 gb AAA86870.1	1344	PLAGLLGGEGSGIR	LLAFWE	-41.586
>gi 975238 gb AAA86870.1	1355	GIRLLAFWELSAHR	GRRSFS	-35.741
>gi 975238 gb AAA86870.1	1357	RLAFWELSAHRGR	RSFSEP	-10.232
>gi 975238 gb AAA86870.1	1358	LLAFWELSAHRGRR	SFSEPL	11.453
>gi 975238 gb AAA86870.1	1379	VVGVMMLTLASGMMR	HTSQEA	-30.86

>gi 975238 gb AAA86870.1	1404	VASLLLLMLVLGTR	KMQLVA	-37.689
>gi 975238 gb AAA86870.1	1432	YPELVNEGGEVSLR	VRQDAM	-32.473
>gi 975238 gb AAA86870.1	1434	ELVNEGGEVSLRVR	QDAMGN	-27.172
>gi 975238 gb AAA86870.1	1451	MGNFHLTELEKEER	MMAFWL	-42.482
>gi 975238 gb AAA86870.1	1485	LGVMGLWTLTEMLR	SSRRSD	-28.221
>gi 975238 gb AAA86870.1	1488	MGLWTLTEMLRSSR	RSDLVF	-4.355
>gi 975238 gb AAA86870.1	1489	GLWTLTEMLRSSRR	SDLVFS	-9.627
>gi 975238 gb AAA86870.1	1500	SRRSDLVFSGQGGR	ERGDRP	-25.764
>gi 975238 gb AAA86870.1	1502	RSDLVFSGQGGRE	GDRPFE	-34.649
>gi 975238 gb AAA86870.1	1505	LVFSGQGGREGRDR	PFEVKD	-22.814
>gi 975238 gb AAA86870.1	1515	RGDRPFVKGDVYR	IFSPGL	-40
>gi 975238 gb AAA86870.1	1546	GSKGVLHTMWHVTR	GAALSI	-28.086
>gi 975238 gb AAA86870.1	1565	IDDAVAGPYWADV	EDVVCY	-40.387
>gi 975238 gb AAA86870.1	1595	KGETVQVHAFPPGR	AHEVHQ	-32.434
>gi 975238 gb AAA86870.1	1613	HQCQPGELILDTR	KLGAIP	-37.809
>gi 975238 gb AAA86870.1	1665	YVSSIAQGEAEKSR	PNLPQA	-40.557
>gi 975238 gb AAA86870.1	1697	TVLDMHPGSGKTHR	VLPELI	-19.564
>gi 975238 gb AAA86870.1	1704	GSGKTHRVLPELIR	QCIDRR	-35.624
>gi 975238 gb AAA86870.1	1709	HRVLPELIRQCIDR	RLRTL	-30.67
>gi 975238 gb AAA86870.1	1710	RVLPELIRQCIDRR	LRTLVL	-29.871
>gi 975238 gb AAA86870.1	1712	LPELIRQCIDRRRLR	TLVLAP	-15.623
>gi 975238 gb AAA86870.1	1720	IDRRLRTLVLAPTR	VVLKEM	-32.847
>gi 975238 gb AAA86870.1	1728	VLAPTRVVLKEMER	ALNGKR	-29.3
>gi 975238 gb AAA86870.1	1734	VVLKEMERALNGKR	VRFHSP	-27.577
>gi 975238 gb AAA86870.1	1736	LKEMERALNGKRV	FHSPAV	-11.756
>gi 975238 gb AAA86870.1	1763	AIVDVMCHATYVNR	RLLPQG	-29.961
>gi 975238 gb AAA86870.1	1764	IVDVMCHATYVNR	LLPQGR	-23.429
>gi 975238 gb AAA86870.1	1770	HATYVNRLLPQGR	QNWEVA	-27.486
>gi 975238 gb AAA86870.1	1792	DEAHWTDPHSIAAR	GHLYTL	-11.951
>gi 975238 gb AAA86870.1	1832	PFPESENGAITSEER	QIPDGE	-43.243
>gi 975238 gb AAA86870.1	1840	ITSEERQIPDGEWR	DGFDWI	-37.886
>gi 975238 gb AAA86870.1	1852	WRDGFWDWITEYEGR	TAWFVP	-39.277
>gi 975238 gb AAA86870.1	1868	WFVPSIAKGGAIAR	TLRQKG	-28.707
>gi 975238 gb AAA86870.1	1871	PSIAKGGAIARTLR	QKGKSV	-5.97
>gi 975238 gb AAA86870.1	1891	ICLNSKTFEKDYSR	VRDEKP	-36.942
>gi 975238 gb AAA86870.1	1893	LNSKTFEKDYSRVR	DEKPDF	-37.809
>gi 975238 gb AAA86870.1	1916	TDISEMGANLDVSR	VIDGRT	-38.334
>gi 975238 gb AAA86870.1	1921	MGANLDVSRVIDGR	TNIKPE	-27.989
>gi 975238 gb AAA86870.1	1939	PEEVDGKVELTGTR	RVTAS	-35.33
>gi 975238 gb AAA86870.1	1940	EEVDGKVELTGTRR	VTTASA	-20.261
>gi 975238 gb AAA86870.1	1949	TGTRRVTTASAAQR	RGRVGR	-27.335
>gi 975238 gb AAA86870.1	1950	GTRRVTTASAAQRR	GRVGRQ	-16.294
>gi 975238 gb AAA86870.1	1952	RRVTTASAAQRRGR	VGRQDG	-18.411

>gi 975238 gb AAA86870.1	1955	TTASAAQRRGRVGR	QDGRTD	7.349
>gi 975238 gb AAA86870.1	1959	AAQRRGRVGRQDGR	TDEYIY	-28.439
>gi 975238 gb AAA86870.1	1993	KEAQILLDNITTLR	GPVATF	-26.31
>gi 975238 gb AAA86870.1	2015	PEQDKMPEVAGHFR	LTEEKR	-35.913
>gi 975238 gb AAA86870.1	2021	PEVAGHFRLTEEKR	KHFRHL	-33.088
>gi 975238 gb AAA86870.1	2025	GHFRLTEEKRKHFR	HLLTHC	1.318
>gi 975238 gb AAA86870.1	2051	AWHVAANVSSVTDR	SWTWEG	-26.694
>gi 975238 gb AAA86870.1	2074	NAVDEASGDLVTFR	SPNGAE	-27.401
>gi 975238 gb AAA86870.1	2081	GDLVTFRSPNGAER	TLRPVW	-38.433
>gi 975238 gb AAA86870.1	2084	VTFRSPNGAERTLR	PVWKDA	-3.481
>gi 975238 gb AAA86870.1	2091	GAERTLRPVWKDAR	MFKEGR	-31.967
>gi 975238 gb AAA86870.1	2097	RPVWKDARMFKEGR	DIKEFV	-22.131
>gi 975238 gb AAA86870.1	2109	GRDIKEFVAYASGR	RSFGDV	-32.079
>gi 975238 gb AAA86870.1	2110	RDIKEFVAYASGRR	SFGDVL	-19.92
>gi 975238 gb AAA86870.1	2127	DVLTGMSGVPELLR	HRCVSA	-34.367
>gi 975238 gb AAA86870.1	2129	LTGMSGVPELLRHR	CVSALD	-29.027
>gi 975238 gb AAA86870.1	2148	DVFYTLMHHEEPGSR	AMRMAE	-43.991
>gi 975238 gb AAA86870.1	2151	YTLMHHEEPGRAMR	MAERDA	-3.765
>gi 975238 gb AAA86870.1	2155	HEEPGRAMRMAER	DAPEAF	-26.62
>gi 975238 gb AAA86870.1	2184	GLATLGVWCFVVR	TSISRM	-38.881
>gi 975238 gb AAA86870.1	2189	GVIWCFVVRTSISR	MMLGTL	-34.563
>gi 975238 gb AAA86870.1	2236	TLLTVLQPEAGKQR	SSDDNK	-26.314
>gi 975238 gb AAA86870.1	2280	KTKADLSTALWSER	EEPRPW	-36.866
>gi 975238 gb AAA86870.1	2284	DLSTALWSEREPR	PWSEWT	-33.22
>gi 975238 gb AAA86870.1	2298	PWSEWTNVDIQPAR	SWGTYV	-28.869
>gi 975238 gb AAA86870.1	2338	LVNSAVASGAQAMR	DLGGGA	-25.502
>gi 975238 gb AAA86870.1	2394	AIVVSGLEAELTQR	AHKVFF	-34.159
>gi 975238 gb AAA86870.1	2405	TQRAHKVFFSAMVR	NPMVDG	-31.262
>gi 975238 gb AAA86870.1	2429	PFGEGEAKPALYER	KMSLVL	-42.196
>gi 975238 gb AAA86870.1	2448	LATVLCCLMSVMMNR	TVASIT	-27.729
>gi 975238 gb AAA86870.1	2469	ASAVGLAAAGQLLR	PEADTL	-31.232
>gi 975238 gb AAA86870.1	2489	WTMPVACGMSGVVR	GSLWGF	-27.902
>gi 975238 gb AAA86870.1	2501	VRGSLWGFLPLGHR	LWLRAS	-35.739
>gi 975238 gb AAA86870.1	2505	LWGFLPLGHRLWLR	ASGGRR	-2.99
>gi 975238 gb AAA86870.1	2510	PLGHRLWLRASGGR	RGGSEG	-25.299
>gi 975238 gb AAA86870.1	2511	LGHRLWLRASGGRR	GGSEGD	-16.207
>gi 975238 gb AAA86870.1	2525	GGSEGDTLGDWKR	RLNNCT	-24.859
>gi 975238 gb AAA86870.1	2526	GSEGDTLGDWKR	LNNCTR	-27.115
>gi 975238 gb AAA86870.1	2532	LGDLWKRRLNNCTR	EEFFVY	-38.507
>gi 975238 gb AAA86870.1	2539	RLNNCTREEFFVYR	RTGILE	-40.577
>gi 975238 gb AAA86870.1	2540	LNNCTREEFFVYRR	TGILET	-25.755
>gi 975238 gb AAA86870.1	2548	FFVYRRTGILETER	DKAREL	-42.265
>gi 975238 gb AAA86870.1	2552	RRTGILETERDKAR	ELLRRG	-22.699

>gi 975238 gb AAA86870.1	2556	ILETERDKARELLR	RGETNV	-22.522
>gi 975238 gb AAA86870.1	2557	LETERDKARELLRR	GETNVG	-3.705
>gi 975238 gb AAA86870.1	2568	LRRGETNVGLAVSR	GTAKLA	-23.856
>gi 975238 gb AAA86870.1	2579	VSRGTAKLAWLEER	GYATLK	-44.265
>gi 975238 gb AAA86870.1	2595	ATLKGEVVDLGCCR	GGWSYY	-41.406
>gi 975238 gb AAA86870.1	2605	GCGRGGWSYYAASR	PAVMSV	-36.351
>gi 975238 gb AAA86870.1	2612	SYAASRPVMSVR	AYTIGG	-29.57
>gi 975238 gb AAA86870.1	2638	KMVTSLGWNLKFR	SGMDVF	-24.621
>gi 975238 gb AAA86870.1	2650	FRSGMDVFSMQPHR	ADTVMC	-23.969
>gi 975238 gb AAA86870.1	2671	IGESSPDAAVEGER	TRKVIL	-41.607
>gi 975238 gb AAA86870.1	2673	ESSPDAAVEGERTR	KVILLM	-42.123
>gi 975238 gb AAA86870.1	2685	TRKVILLMEQWKNR	NPTAAC	-35.733
>gi 975238 gb AAA86870.1	2700	PTAACVFKVLAPYR	PEVIEA	-41.399
>gi 975238 gb AAA86870.1	2709	LAPYRPEVIEALHR	FQLQWG	-35.457
>gi 975238 gb AAA86870.1	2720	LHRFQLQWGGGLVR	TPFSRN	-31.168
>gi 975238 gb AAA86870.1	2725	LQWGGGLVRTPFSR	NSTHEM	-21.368
>gi 975238 gb AAA86870.1	2750	VTGNIVNSVNVQSR	KLLARF	-27.758
>gi 975238 gb AAA86870.1	2755	VNSVNVQSRKLLAR	FGDQRG	0.654
>gi 975238 gb AAA86870.1	2760	VQSRKLLARFGDQR	GPTKVP	-26.056
>gi 975238 gb AAA86870.1	2775	PTKVPDLGVGTR	CVVLAE	-21.046
>gi 975238 gb AAA86870.1	2792	LAEDKVKEQDVQER	IRALRE	-45.374
>gi 975238 gb AAA86870.1	2794	EDKVKEQDVQERIR	ALREQY	-31.457
>gi 975238 gb AAA86870.1	2797	VKEQDVQERIRALR	EQYSET	8.172
>gi 975238 gb AAA86870.1	2813	YSETWHMDEEHPYR	TWQYWG	-36.662
>gi 975238 gb AAA86870.1	2822	EHPYRTWQYWGSYR	TAPTGS	-39.433
>gi 975238 gb AAA86870.1	2847	NGVVKLLSWPWNAR	EDVVRM	-32.684
>gi 975238 gb AAA86870.1	2852	LLSWPWNAREDVVR	MAMTDT	-31.787
>gi 975238 gb AAA86870.1	2865	RMAMTDTTAFGQQR	VFKDKV	-35.35
>gi 975238 gb AAA86870.1	2883	KVDTKAQEPQPGTR	VIMRAV	-33.609
>gi 975238 gb AAA86870.1	2887	KAQEPQPGTRVIMR	AVNDWI	-3.409
>gi 975238 gb AAA86870.1	2896	RVIMRAVNDWILER	LAQKSK	-44.927
>gi 975238 gb AAA86870.1	2904	DWILERLAQKSKPR	MCSREE	-21.895
>gi 975238 gb AAA86870.1	2908	ERLAQKSKPRMCSR	EEFIAK	-28.316
>gi 975238 gb AAA86870.1	2930	SNAALGAWSDEQNR	WASARE	-43.49
>gi 975238 gb AAA86870.1	2935	GAWSDEQNRWASAR	EAVEDP	-19.951
>gi 975238 gb AAA86870.1	2945	ASAREAVEDPAFWR	LVDEER	-41.157
>gi 975238 gb AAA86870.1	2951	VEDPAFWRLVDEER	ERHLMG	-43.013
>gi 975238 gb AAA86870.1	2953	DPAFWRLVDEERER	HLMGRC	-53.455
>gi 975238 gb AAA86870.1	2958	RLVDEERERHLMGR	CAHCYV	-3.457
>gi 975238 gb AAA86870.1	2970	GRCACHCVYNNMMGKR	EKKLGE	-21.615
>gi 975238 gb AAA86870.1	2984	EKKLGEFGVAKGSR	AIWYMW	-8.509
>gi 975238 gb AAA86870.1	2994	KGSRAIWYMWLGSR	FLEFEA	-33.814
>gi 975238 gb AAA86870.1	3012	EALGFLNEDHWASR	ESSGAG	-29.572

>gi 975238 gb AAA86870.1	3067	VTNADLEDEEQILR	YMEGEH	-42.281
>gi 975238 gb AAA86870.1	3094	MQKAYHAKVVKVAR	PSRDGG	-7.006
>gi 975238 gb AAA86870.1	3097	AYHAKVVKVARPSR	DGGCIM	-3.071
>gi 975238 gb AAA86870.1	3108	PSRDGGCIMDVITR	RDQRGS	-34.188
>gi 975238 gb AAA86870.1	3109	SRDGGCIMDVITRR	DQRGSG	-13.652
>gi 975238 gb AAA86870.1	3112	GGCIMDVITRRDQR	GSGQVV	-9.942
>gi 975238 gb AAA86870.1	3134	ALNTLTNIKVQLIR	MMEGEG	-32.907
>gi 975238 gb AAA86870.1	3151	GEGVIEAADAHNPR	LLRVER	-31.407
>gi 975238 gb AAA86870.1	3154	VIEAADAHNPRLLR	VERWLK	-24.175
>gi 975238 gb AAA86870.1	3157	AADAHNPRLLRVER	WLKEHG	-21.667
>gi 975238 gb AAA86870.1	3166	LRVERWLKEHGEER	LGRMLV	-45.755
>gi 975238 gb AAA86870.1	3169	ERWLKEHGEERLGR	MLVSGD	-11.605
>gi 975238 gb AAA86870.1	3180	LGRMLVSGDDCVVR	PLDDRF	-44.022
>gi 975238 gb AAA86870.1	3185	VSGDDCVVRPLDDR	FGKALY	-33.989
>gi 975238 gb AAA86870.1	3200	GKALYFLNDMAKTR	KDIGEW	-41.246
>gi 975238 gb AAA86870.1	3234	CSHHFHELVMKDGR	TLVVPC	-31.827
>gi 975238 gb AAA86870.1	3241	LVMKDGRTLVVPCR	DQDELV	-25.61
>gi 975238 gb AAA86870.1	3249	LVVPCRDQDELVGR	ARISPG	-40.146
>gi 975238 gb AAA86870.1	3251	VPCRDQDELVGRAR	ISPGCG	-27.684
>gi 975238 gb AAA86870.1	3261	GRARISPGCGWSVR	ETACLS	-31.352
>gi 975238 gb AAA86870.1	3281	KAYQMWLLSYFHR	RDLRTL	-28.79
>gi 975238 gb AAA86870.1	3282	AYGQMWLLSYFHRR	DLRTL	-20.846
>gi 975238 gb AAA86870.1	3285	QMWLLSYFHRRDLR	TLGLAI	-15.966
>gi 975238 gb AAA86870.1	3304	INSAVPADWVPTGR	TTWSIH	-34.73
>gi 975238 gb AAA86870.1	3327	AWMTTEDMLDVWNR	VWILDN	-42.127
>gi 975238 gb AAA86870.1	3341	VWILDNPFMQNKER	VMEWRD	-43.012
>gi 975238 gb AAA86870.1	3346	NPFMQNKERVMEWR	DVPYLP	-22.175
>gi 975238 gb AAA86870.1	3365	PKAQDMLCSSLVGR	RERAEW	-32.018
>gi 975238 gb AAA86870.1	3366	KAQDMLCSSLVGR	ERAewa	-13.938
>gi 975238 gb AAA86870.1	3368	QDMLCSSLVGRER	AEWAKN	-11.599
>gi 975238 gb AAA86870.1	3383	EWAKNIWGAVEKVR	KMIGPE	-39.865
>gi 975238 gb AAA86870.1	3400	GPEKFKDYLSMDR	HDLHWE	-38.753
>gi 975238 gb AAA86870.1	3408	LSCMDRHDLHWELR	LESSII	-36.894
>gi 465412 sp P35253.1 VG	69	GQKVADSPLEASKR	WAFRTG	-24.206
>gi 465412 sp P35253.1 VG	73	ADSPLEASKRWAFR	TGVPPK	-28.425
>gi 465412 sp P35253.1 VG	114	SGKSLLLDPPTNIR	DYPKCK	-35.341
>gi 465412 sp P35253.1 VG	148	IALHLWGAFFLYDR	IASTTM	-47.794
>gi 465412 sp P35253.1 VG	156	FFLYDRIASTTMYR	GKVFTE	-31.841
>gi 465412 sp P35253.1 VG	181	MIVNKTVHKMIFSR	QGGQYR	-19.622
>gi 465412 sp P35253.1 VG	187	VHKMIFSRQGGQYR	HMNLT	-37.434
>gi 465412 sp P35253.1 VG	239	CAPSKIPPLPTAR	PEIKLT	-31.125
>gi 465412 sp P35253.1 VG	276	DEDLATSGSGSGER	EPHTTS	-33.658
>gi 465412 sp P35253.1 VG	432	PTPSSTAQHLVYFR	RKRSIL	-28.51

>gi 465412 sp P35253.1 VG	433	TPSSTAQHLYVFRR	KRSILW	-25.57
>gi 465412 sp P35253.1 VG	440	HLVYFRRKRSILWR	EGDMFP	-16.006
>gi 465412 sp P35253.1 VG	517	YSGENENDCDAELR	IWSVQE	-45.825
>gi 465412 sp P35253.1 VG	558	TAVLIKNQNNLVCR	LRRLAN	-40.068
>gi 465412 sp P35253.1 VG	560	VLIKNQNNLVCRLR	RLANQT	-24.994
>gi 465412 sp P35253.1 VG	561	LIKNQNNLVCRLRR	LANQTA	-13.864
>gi 465412 sp P35253.1 VG	575	LANQTAKSLELLLR	VTTEER	-35.025
>gi 465412 sp P35253.1 VG	581	KSLELLLRVTTEER	TFSLIN	-44.211
>gi 465412 sp P35253.1 VG	588	RVTTEERTFSLINR	HAI DFL	-29.559
>gi 465412 sp P35253.1 VG	597	SLINRHAI DFLTR	WGGTCK	-42.408
>gi 465412 sp P35253.1 VG	674	LSIAVLIALSCICR	IFTKYI	-42.447
>gi 130579 sp P03316.1 PO	22	LGRRPFPAPTAMWR	PRRRRQ	-36.283
>gi 130579 sp P03316.1 PO	24	RRPFPAPTAMWRPR	RRRQAA	-28.418
>gi 130579 sp P03316.1 PO	25	RFPAPTAMWRPRR	RRQAAP	-17.806
>gi 130579 sp P03316.1 PO	26	PFPAPTAMWRPRRR	RQAAPM	-18.484
>gi 130579 sp P03316.1 PO	27	FPAPTAMWRPRRRR	QAAPMP	15.653
>gi 130579 sp P03316.1 PO	35	RPRRRRQAAPMPAR	NGLASQ	-26.337
>gi 130579 sp P03316.1 PO	59	TTAVSALVIGQATR	PQPPRP	-34.45
>gi 130579 sp P03316.1 PO	64	ALVIGQATRPPPR	PRPPPR	-21.506
>gi 130579 sp P03316.1 PO	66	VIGQATRPPPRPR	PPPRQK	-25.106
>gi 130579 sp P03316.1 PO	70	ATRPQPPRPPPR	QKKQAP	-16.632
>gi 130579 sp P03316.1 PO	103	KKKKQPAKPKPGKR	QRMALK	-16.56
>gi 130579 sp P03316.1 PO	105	KKQPAKPKPGKRQR	MALKLE	-3.884
>gi 130579 sp P03316.1 PO	114	GKRQRMALKLEADR	LFDVKN	-40.909
>gi 130579 sp P03316.1 PO	174	AYDMEFAQLPVNMR	SEAFTY	-29.249
>gi 130579 sp P03316.1 PO	202	YNWHHGAVQYSGGR	FTIPRG	-35.453
>gi 130579 sp P03316.1 PO	207	GAVQYSGGRFTIPR	GVGGRG	-17.657
>gi 130579 sp P03316.1 PO	212	SGGRFTIPRGVGG	GDSGRP	-1.713
>gi 130579 sp P03316.1 PO	217	TIPRGVGGRGDSGR	PIMDNS	-25.087
>gi 130579 sp P03316.1 PO	225	RGDSGRPIMDNSGR	VVAIVL	-40.717
>gi 130579 sp P03316.1 PO	239	VVAIVLGADEGTR	TALSVV	-46.2
>gi 130579 sp P03316.1 PO	285	AMCLLGNVSFPCDR	PPTCYT	-45.356
>gi 130579 sp P03316.1 PO	292	VSFPCDRPPTCYTR	EPSRAL	-27.103
>gi 130579 sp P03316.1 PO	296	CDRPPTCYTREPSR	ALDILE	-18.471
>gi 130579 sp P03316.1 PO	319	NHEAYDTLLNAILR	CGSSGR	-27.786
>gi 130579 sp P03316.1 PO	325	TLLNAILRCGSSGR	SKRSVI	-31.109
>gi 130579 sp P03316.1 PO	372	IEQVWDEADDNTIR	IQ TSAQ	-48.389
>gi 130579 sp P03316.1 PO	393	GYDQSGAASANKYR	YMSLKQ	-36.256
>gi 130579 sp P03316.1 PO	420	TMDDIKISTSGPCR	RLSYKG	-30.535
>gi 130579 sp P03316.1 PO	421	MDDIKISTSGPCRR	LSYKGY	-26.467
>gi 130579 sp P03316.1 PO	456	IVSSNSATSCTLAR	KIKPKF	-37.241
>gi 130579 sp P03316.1 PO	465	CTLARKIKPKFVGR	EKYDLP	-19.825
>gi 130579 sp P03316.1 PO	485	PVHGKKIPCTVYDR	LKETTA	-43.577

>gi 130579 sp P03316.1 PO	498	RLKETTAGYITMHR	PRPHAY	-33.753
>gi 130579 sp P03316.1 PO	500	KETTAGYITMHRPR	PHAYTS	-18.088
>gi 130579 sp P03316.1 PO	542	CKCGDYKTGTVSTR	TEITGC	-31.401
>gi 130579 sp P03316.1 PO	573	DQTKWVFNSPDLIR	HDDHTA	-35.96
>gi 130579 sp P03316.1 PO	626	LQLDTHLTLTTR	RLGANP	-25.148
>gi 130579 sp P03316.1 PO	627	QLDTHLTLTTRR	LGANPE	-22.951
>gi 130579 sp P03316.1 PO	645	PEPTTEWIVGKTVR	NFTVDR	-9.964
>gi 130579 sp P03316.1 PO	651	WIVGKTVRNFTVDR	DGLEYI	-39.271
>gi 130579 sp P03316.1 PO	665	DGLEYIWGNHEPVR	VYAQES	-38.903
>gi 130579 sp P03316.1 PO	690	HGWPHEIVQHYYHR	HPVYTI	-29.277
>gi 130579 sp P03316.1 PO	721	IGVTVAVLCAACKAR	RECLTP	-38.542
>gi 130579 sp P03316.1 PO	722	GVTAVLCAACKARR	ECLTPY	-19.021
>gi 130579 sp P03316.1 PO	747	AVIPTSLALLCCVR	SANAET	-29.966
>gi 130579 sp P03316.1 PO	785	QLCIPLAAFIVLMR	CCSCCL	-31.531
>gi 130579 sp P03316.1 PO	827	PNVPQIPYKALVER	AGYAPL	-28.041
>gi 130579 sp P03316.1 PO	940	AIKVHTAAMKVGLR	IVYGNT	-25.379
>gi 130579 sp P03316.1 PO	987	ASFTPFDHKVVHR	GLVYNY	-3.323
>gi 130579 sp P03316.1 PO	1026	SLTSKDLIASTDIR	LLKPSA	-38.993
>gi 130579 sp P03316.1 PO	1055	ASSGFEMWKNNSSGR	PLQETA	-23.253
>gi 130579 sp P03316.1 PO	1073	TAPFGCKIAVNPLR	AVDCSY	-22.695
>gi 130579 sp P03316.1 PO	1095	IPISIDIPNAAFIR	TSDAPL	-37.89
>gi 130579 sp P03316.1 PO	1130	DFGGMATLQYVSDR	EGQCPV	-37.338
>gi 130579 sp P03316.1 PO	1244	LMIFACSMMLTSTR	R----	-36.453
>gi 130577 sp P03315.1 PO	21	TFYGRRWRPRPAAR	PWPLQA	-22.39
>gi 130577 sp P03315.1 PO	55	MQQLISAVNALTMR	QNAIAP	-33.432
>gi 130577 sp P03315.1 PO	63	NALTMRQNAIAPAR	PPKPKK	-26.052
>gi 130577 sp P03315.1 PO	108	DKQADKKKKKPGKR	ERMCMK	-13.174
>gi 130577 sp P03315.1 PO	110	QADKKKKKPGKRER	MCMKIE	-18.056
>gi 130577 sp P03315.1 PO	178	KYDLECAQIPVHMR	SDASKY	-29.468
>gi 130577 sp P03315.1 PO	206	YNWHHGAVQYSGGR	FTIPTG	-36.081
>gi 130577 sp P03315.1 PO	221	TIPTGAGKPGDSGR	PIFDNK	-31.229
>gi 130577 sp P03315.1 PO	229	PGDSGRPIFDNKGR	VVAIVL	-41.665
>gi 130577 sp P03315.1 PO	243	VVAIVLGGANEGSR	TALSVV	-38.937
>gi 130577 sp P03315.1 PO	258	ALSVVTWNKDMVTR	VTPEGS	-33.012
>gi 130577 sp P03315.1 PO	304	VPCCYENNAEATLR	MLEDNV	-28.179
>gi 130577 sp P03315.1 PO	312	AEATLRMLEDNVDR	PGYYDL	-57.357
>gi 130577 sp P03315.1 PO	326	PGYYDLLQAALTCR	NGTRHR	-31.184
>gi 130577 sp P03315.1 PO	330	DLLQAALTCRNGTR	HRRSVS	-30.765
>gi 130577 sp P03315.1 PO	332	LQAALTCRNGTRHR	RSVSQH	-22.993
>gi 130577 sp P03315.1 PO	346	RSVSQHFNVYKATR	PYIAYC	-25.096
>gi 130577 sp P03315.1 PO	371	GHSCHSPVAIEAVR	SEATDG	-34.17
>gi 130577 sp P03315.1 PO	401	GIDKSDNHDTYKIR	YADGHA	-38.353
>gi 130577 sp P03315.1 PO	413	IRYADGHAIENAVR	SSLKVA	-35.761

>gi 130577 sp P03315.1 PO	452	PPGEFLQVSIQDTR	NAVRAC	-28.013
>gi 130577 sp P03315.1 PO	456	FLQVSIQDTRNAVR	ACRIQY	-21.756
>gi 130577 sp P03315.1 PO	459	VSIQDTRNAVRACR	IQYHHD	-23.287
>gi 130577 sp P03315.1 PO	471	CRIQYHHDQPVGVR	EKFTIR	-25.487
>gi 130577 sp P03315.1 PO	477	HDPQVPGREKFTIR	PHYGKE	-36.156
>gi 130577 sp P03315.1 PO	511	EEIDMHMPPDTPDR	TLLSQQ	-46.889
>gi 130577 sp P03315.1 PO	577	DHKKWQFNPFVPR	ADEPAR	-22.826
>gi 130577 sp P03315.1 PO	583	FNSPFVPRADEPAR	KGKVHI	-43.91
>gi 130577 sp P03315.1 PO	599	KVHIPPLDNITCR	VPMARE	-38.742
>gi 130577 sp P03315.1 PO	604	FPLDNITCRVPMAR	EPTVIH	-18.226
>gi 130577 sp P03315.1 PO	613	VPMAREPTVIHGKR	EVTLHL	4
>gi 130577 sp P03315.1 PO	630	LHLHPDHPTLFSYR	TLGEDP	-33.934
>gi 130577 sp P03315.1 PO	649	PQYHEEWVTAVER	TIPVPV	-39.399
>gi 130577 sp P03315.1 PO	669	DGMEYHWGNNDPVR	LWSQLT	-43.004
>gi 130577 sp P03315.1 PO	725	ISIFASCYMLVAAR	SKCLTP	-21.735
>gi 130577 sp P03315.1 PO	752	AVPWTGLILCCAPR	AHAASV	-39.347
>gi 130577 sp P03315.1 PO	792	APVACILIITYCLR	NVLCCC	-40.046
>gi 130577 sp P03315.1 PO	814	LSFLVLLSLGATAR	AYEHST	-28.254
>gi 130577 sp P03315.1 PO	836	PNVVGFPYKAHIER	PGYSPL	-27.866
>gi 130577 sp P03315.1 PO	925	DSENTQLSEAYVDR	SDVCRH	-40.11
>gi 130577 sp P03315.1 PO	930	QLSEAYVDRSDVCR	HDHASA	-29.402
>gi 130577 sp P03315.1 PO	949	AYKAHTASLKAKVR	VMYGNV	-32.412
>gi 130577 sp P03315.1 PO	1014	NQDFPPYGSQPGR	FGDIQS	-23.009
>gi 130577 sp P03315.1 PO	1021	GSGQPGRFGDIQSR	TVESND	-29.307
>gi 130577 sp P03315.1 PO	1038	SNDLYANTALKLAR	PSPGMV	-6.621
>gi 130577 sp P03315.1 PO	1082	KAPFGCQIKTNPVR	AMNCAV	-28.661
>gi 130577 sp P03315.1 PO	1104	IPVSMNLPDSAFTR	IVEAPT	-37.988
>gi 130577 sp P03315.1 PO	1188	SASPSFVVSLSAR	ATCSAS	-22.431
>gi 130577 sp P03315.1 PO	1252	AILLVVVVTCIGLR	R-----	-38.294
>gi 62291022 sp P69697.1	49	VCFITKALGISYGR	KKRRQR	-34.059
>gi 62291022 sp P69697.1	52	ITKALGISYGRKKR	RQRRRP	8.069
>gi 62291022 sp P69697.1	53	TKALGISYGRKKRR	QRRRPP	8.731
>gi 62291022 sp P69697.1	55	ALGISYGRKKRRQR	RRPPQG	8.32
>gi 62291022 sp P69697.1	57	GISYGRKKRRQRRR	PPQGSQ	-5.528
>gi 62291022 sp P69697.1	78	HQVLSKQPTSQSR	GDPTGP	-25.325
>gi 113485 sp P09167.2 AE	33	QAQAAEPVVPDQLR	LFSLGQ	-41.127
>gi 113485 sp P09167.2 AE	47	LFSLGQGVCGDKYR	PVNREE	-41.884
>gi 113485 sp P09167.2 AE	51	GQGVCGDKYRPVNR	EEAQSV	-25.928
>gi 113485 sp P09167.2 AE	127	LDIPDGDEV DVQWR	LVHDSA	-35.742
>gi 113485 sp P09167.2 AE	167	NHSQYVGEDMDVTR	DGDGWV	-40.878
>gi 113485 sp P09167.2 AE	175	DMDVTRDGDGWVIR	GNNDDG	-35.689
>gi 113485 sp P09167.2 AE	186	VIRGNDDGGCDGYR	CGDKTA	-44.747
>gi 113485 sp P09167.2 AE	217	PDSFKHGDVTQSDR	QLVKTV	-31.184

>gi 113485 sp P09167.2 AE	243	DSDTPQSGYDVTLR	YDTATN	-30.467
>gi 113485 sp P09167.2 AE	305	NGGSTTTTSLSQSVR	PTVPAR	-22.843
>gi 113485 sp P09167.2 AE	311	TSLSQSVRPTVPAR	SKIPVK	-16.466
>gi 113485 sp P09167.2 AE	346	ADVSYDLTSLGFLR	WGGNAW	-33.711
>gi 113485 sp P09167.2 AE	359	RWGGNAWYTHPDNR	PNWNHT	-35.254
>gi 113485 sp P09167.2 AE	379	FVIGPYKDKASSIR	YQWDKR	-28.711
>gi 113485 sp P09167.2 AE	385	KDKASSIRYQWDKR	YIPGEV	-27.375
>gi 113485 sp P09167.2 AE	414	QQNGLSTMQNNLAR	VLRPVR	-32.19
>gi 113485 sp P09167.2 AE	417	GLSTMQNNLARVLR	PVRAGI	-0.348
>gi 113485 sp P09167.2 AE	420	TMQNNLARVLRPVR	AGITGD	-3.266
>gi 113485 sp P09167.2 AE	452	IGAPVPLAADSKVR	RARSVD	-33.137
>gi 113485 sp P09167.2 AE	453	GAPVPLAADSKVRR	ARSVDG	-2.943
>gi 113485 sp P09167.2 AE	465	RRARSVDGAGQGLR	LEIPLD	-36.468
>gi 913139 gb AAB32892.1	72	DLKAKIIQDPEFIR	NWANVA	-46.3
>gi 913139 gb AAB32892.1	102	TANPNVGGQGFEFKR	EVGAGG	-19.508
>gi 913139 gb AAB32892.1	117	VGAGGKVSYLLSAR	YNPNDP	-28.86
>gi 913139 gb AAB32892.1	129	ARYNPNDPYASGYR	AKDRLS	-32.013
>gi 913139 gb AAB32892.1	133	PNDPYASGYRAKDR	LSMKIS	-32.053
>gi 913139 gb AAB32892.1	142	RAKDRLSMKISNVR	FVIDND	-20.386
>gi 913139 gb AAB32892.1	261	TTYTATVSPQTKKR	LFLDVL	-26.811
>gi 913139 gb AAB32892.1	292	IYMEYDIELMGFLR	YTG NAR	-28.816
>gi 913139 gb AAB32892.1	298	IELMGFLRYTG NAR	EDHTED	-29.264
>gi 913139 gb AAB32892.1	305	RYTG NAREDHTEDR	PTVKLK	-42.263
>gi 913139 gb AAB32892.1	361	GYLFKNSYDALTSR	KLGGII	-35.417
>gi 913139 gb AAB32892.1	382	GSFTNINGTKIVIR	EGKEIP	-8.36
>gi 913139 gb AAB32892.1	394	IREGKEIPLPDKKR	RGKRSV	-20.747
>gi 913139 gb AAB32892.1	395	REGKEIPLPDKKRR	GKRSVD	4.517
>gi 913139 gb AAB32892.1	406	KRRGKRSVDSL D AR	LQNEGI	-42.535
>gi 913139 gb AAB32892.1	413	VDSL D ARLQNEGIR	IENIET	-41.281
>gi 913139 gb AAB32892.1	426	RIENIETQDVP GFR	LNSITY	-42.063
>gi 118949 sp P00588.2 DT	158	PLMEQVGT EEFIKR	FGDGAS	-28.439
>gi 118949 sp P00588.2 DT	165	TEEFIKRFGDGASR	VVLSLP	-39.08
>gi 118949 sp P00588.2 DT	202	KALSVELEINFETR	GKRGQD	-35.431
>gi 118949 sp P00588.2 DT	205	SVELEINFETR GKR	GQDAMY	-0.972
>gi 118949 sp P00588.2 DT	222	AMYEYMAQACAGNR	VRRSVG	-35.208
>gi 118949 sp P00588.2 DT	224	YEYMAQACAGNRVR	RSVGSS	-24.873
>gi 118949 sp P00588.2 DT	242	SSLSCINLDWDVIR	DKTKTK	-47.744
>gi 118949 sp P00588.2 DT	409	IINLFQVVHNSYNR	PAYSPG	-31.572
>gi 118949 sp P00588.2 DT	439	YAVSWNTVEDSIIR	TGFQGE	-47.049
>gi 118949 sp P00588.2 DT	487	DVNKSKTHISVNGR	KIRMRC	-32.117
>gi 118949 sp P00588.2 DT	490	KSKTHISVNGRKIR	MRCRAI	-8.992
>gi 118949 sp P00588.2 DT	492	KTHISVNGRKIRM R	CRAIDG	-1.703
>gi 118949 sp P00588.2 DT	494	HISVNGRKIRMRCR	AIDGDV	-25.872

>gi 118949 sp P00588.2 DT	504	MRCRAIDGDVTFGR	PKSPVY	-43.009
>gi 118949 sp P00588.2 DT	525	GNGVHANLHVAFHR	SSSEKI	-19.665
>gi 12231043 sp P11439.2	49	CAKACVLDLKDGVR	SSRMSV	-22.495
>gi 12231043 sp P11439.2	52	ACVLDLKDGVRRSSR	MSVDPA	0.483
>gi 12231043 sp P11439.2	99	DNALSITSDGLTIR	LEGGVE	-40.441
>gi 12231043 sp P11439.2	111	IRLEGGVEPNKPVR	YSYTRQ	-8.453
>gi 12231043 sp P11439.2	116	GVEPNKPVRYSTR	QARGSW	-27.44
>gi 12231043 sp P11439.2	119	PNKPVRYSTRQAR	GSWSLN	0.698
>gi 12231043 sp P11439.2	172	TIEMGDELLAKLAR	DATFFV	-2.755
>gi 12231043 sp P11439.2	179	LLAKLARDATFFVR	AHESNE	-31.834
>gi 12231043 sp P11439.2	207	HAGVSVVMAQAQPR	REKRWS	-32.357
>gi 12231043 sp P11439.2	208	AGVSVVMAQAQPRR	EKRWSE	-15.284
>gi 12231043 sp P11439.2	211	SVVMAQAQPRREKR	WSEWAS	-5.979
>gi 12231043 sp P11439.2	238	DPLDGVYNYLAQQR	CNLDDT	-29.413
>gi 12231043 sp P11439.2	251	RCNLDDTWEGKIYR	VLAGNP	-31.768
>gi 12231043 sp P11439.2	272	KHDLDIKPTVISHR	LHFPEG	-29.423
>gi 12231043 sp P11439.2	299	AHQACHLPLETFTR	HRQPRG	-36.263
>gi 12231043 sp P11439.2	301	QACHLPLETFTRHR	QPRGWE	-26.152
>gi 12231043 sp P11439.2	318	GWEQLEQCGYPVQR	LVALYL	-36.342
>gi 12231043 sp P11439.2	327	YPVQRLVALYLAAR	LSWNQV	-36.36
>gi 12231043 sp P11439.2	338	AARLSWNQVDQVIR	NALASP	-34.673
>gi 12231043 sp P11439.2	355	ASPGSGGDLGEAIR	EQPEQA	-34.585
>gi 12231043 sp P11439.2	362	DLGEAIREQPEQAR	LALTLA	-34.261
>gi 12231043 sp P11439.2	374	ARLALTLAAAESER	FVRQGT	-34.698
>gi 12231043 sp P11439.2	377	ALTLLAAAESERFVR	QGTGND	-7.661
>gi 12231043 sp P11439.2	417	CAGPADSGDALLER	NYPTGA	-48.562
>gi 12231043 sp P11439.2	437	EFLDGGDISFSTR	GTQNWT	-29.148
>gi 12231043 sp P11439.2	446	SFSTRGTQNWTVR	LLQHR	-42.715
>gi 12231043 sp P11439.2	452	TQNWTVERLLQHR	QLEERG	-20.749
>gi 12231043 sp P11439.2	457	VERLLQHRQLEER	GYVFGV	-33.406
>gi 12231043 sp P11439.2	481	FLEAAQSIVFGGVR	ARSQDL	-32.537
>gi 12231043 sp P11439.2	483	EAAQSIVFGGVRAR	SQDLDA	-15.51
>gi 12231043 sp P11439.2	492	GVRARSQDLDAIWR	GFYIAG	-39.652
>gi 12231043 sp P11439.2	515	LAYGYAQDQEPDAR	GRIRNG	-38.763
>gi 12231043 sp P11439.2	517	YGYAQDQEPDARGR	IRNGAL	-35.768
>gi 12231043 sp P11439.2	519	Y AQDQEPDARGRIR	NGALLR	-22.812
>gi 12231043 sp P11439.2	525	PDARGRIRNGALLR	VYVPRS	-37.299
>gi 12231043 sp P11439.2	530	RIRNGALLRVYVPR	SSLPGF	-14.497
>gi 12231043 sp P11439.2	538	RVYVPRSSLPGFYR	TGLTLA	-38.757
>gi 12231043 sp P11439.2	554	LTLAAPEAAGEVER	LIGHPL	-44.326
>gi 12231043 sp P11439.2	563	GEVERLIGHPLPLR	LDAITG	-32.772
>gi 12231043 sp P11439.2	576	RLDAITGPEEEGGR	LETILG	-50.379
>gi 12231043 sp P11439.2	588	GRLETILGWPLAER	TVVIPS	-39.17

>gi 12231043 sp P11439.2	601	RTVVIPSAIPTDPR	NVGGDL	-35.713
>gi 12231043 sp P11439.2	634	ALPDYASQPGKPPR	EDLK--	-4.895
>gi 17380160 sp P13423.2	36	NLEVIQAEVKQENR	LLNESE	-26.061
>gi 17380160 sp P13423.2	136	QEVINKASNSNKIR	LEKGRL	-36.626
>gi 17380160 sp P13423.2	141	KASNSNKIRLEKGR	LYQIKI	-33.386
>gi 17380160 sp P13423.2	151	EKGRLYQIKIQYQR	ENPTEK	-19.89
>gi 17380160 sp P13423.2	193	LQLPELKQKSSNSR	KKRSTS	-26.943
>gi 17380160 sp P13423.2	207	KKRSTSAGPTVPDR	DNDGIP	-29.724
>gi 17380160 sp P13423.2	229	LEVEGYTVDVKNKR	TFLSPW	-14.06
>gi 17380160 sp P13423.2	271	ASDPYSDFEKVTGR	IDKNVS	-27.508
>gi 17380160 sp P13423.2	281	VTGRIDKNVSPEAR	HPLVAA	-26.934
>gi 17380160 sp P13423.2	316	NEDQSTQNTDSQTR	TISKNT	-37.403
>gi 17380160 sp P13423.2	326	SQTRTISKNTSTSR	THTSEV	-35.111
>gi 17380160 sp P13423.2	373	TVAIDHSLSLAGER	TWAETM	-41.717
>gi 17380160 sp P13423.2	388	WAETMGLNTADTAR	LNANIR	-35.188
>gi 17380160 sp P13423.2	394	LNTADTARLNANIR	YVNTGT	-30.506
>gi 17380160 sp P13423.2	478	YNQFLELEKTKQLR	LDTDQV	-20.199
>gi 17380160 sp P13423.2	497	VYGNIATYNFENGR	VRVDTG	-40.915
>gi 17380160 sp P13423.2	499	GNIATYNFENGRVR	VDTGSN	-35.994
>gi 17380160 sp P13423.2	519	WSEVLPQIQETTAR	IIFNGK	-37.024
>gi 17380160 sp P13423.2	532	RIIFNGKDLNLVER	RIAAVN	-35.865
>gi 17380160 sp P13423.2	533	IIFNGKDLNLVERR	IAAVNP	-19.483
>gi 17380160 sp P13423.2	621	DKIKLNAKMNILIR	DKRFHY	-26.478
>gi 17380160 sp P13423.2	624	KLNAKMNILIRDKR	FHYDRN	0.42
>gi 17380160 sp P13423.2	629	MNILIRDKRFHYDR	NNIAVG	-28.994
>gi 17380160 sp P13423.2	646	AVGADESVVKEAHR	EVINSS	-22.749
>gi 17380160 sp P13423.2	665	STEGLLLIDKDIR	KILSGY	-37.825
>gi 17380160 sp P13423.2	688	IEDTEGLKEVINDR	YDMLNI	-40.551
>gi 17380160 sp P13423.2	698	INDRYDMLNISSLR	QDGKTF	-28.07
>gi 9955819 emb CAC05622.	43	STAKTYVDSLNVIR	SAIGTP	-26.305
>gi 9955819 emb CAC05622.	77	DSGAGDNLFAVDVR	GIDPEE	-28.467
>gi 9955819 emb CAC05622.	85	FAVDVRGIDPEEGR	FNNLRL	-39.609
>gi 9955819 emb CAC05622.	90	RGIDPEEGRFNNLR	LIVERN	-29.426
>gi 9955819 emb CAC05622.	95	EEGRFNNLRLIVER	NNLYVT	-22.958
>gi 9955819 emb CAC05622.	106	VERNLYVTGFVNR	TNNVfy	-34.706
>gi 9955819 emb CAC05622.	113	VTGFVNRTNNVfyR	FADFSH	-24.779
>gi 9955819 emb CAC05622.	141	VTLSGDSSYTTLQR	VAGISR	-33.065
>gi 9955819 emb CAC05622.	147	SSYTTLQRVAGISR	TGMQIN	-33.805
>gi 9955819 emb CAC05622.	154	RVAGISRTGMQINR	HSLTTS	-25.53
>gi 9955819 emb CAC05622.	178	MSHSGTSLTQSVAR	AMLRfv	-31.648
>gi 9955819 emb CAC05622.	182	GTSLTQSVARAMLR	FVTvTA	-16.93
>gi 9955819 emb CAC05622.	192	AMLRfvTVTAeALR	FRQIQR	-32.675
>gi 9955819 emb CAC05622.	194	LRfvTVTAeALRfR	QIQRGF	-36.131

>gi 9955819 emb CAC05622.	198	TVTAEALRFQIQR	GFRTTL	-19.642
>gi 9955819 emb CAC05622.	201	AEALRFQIQGFR	TTLDDL	-19.28
>gi 9955819 emb CAC05622.	210	QRGFRTTLDDLGR	SYVMTA	-43.621
>gi 9955819 emb CAC05622.	227	MTAEDVDLTLNWGR	LSSVLP	-35.125
>gi 9955819 emb CAC05622.	242	SSVLPDYHGQDSVR	VGRISF	-39.186
>gi 9955819 emb CAC05622.	245	LPDYHGQDSVRVGR	ISFGSI	-15.608
>gi 9955819 emb CAC05622.	270	SVALILNCHHHASR	VARMAS	-23.771
>gi 9955819 emb CAC05622.	288	ASDEFPSMCPADGR	VRGITH	-35.816
>gi 9955819 emb CAC05622.	290	DEFPSMCPADGRVR	GITHNK	-30.679
>gi 9955819 emb CAC05622.	310	ILWDSSTLGAILMR	RTISS-	-24.657
>gi 9955819 emb CAC05622.	311	LWDSSTLGAILMRR	TISS--	-22.091