

Supplemental spectra and MALDI TOF MS identification information for Table 1

Annotated spectra for Table 1: 209 differentially expressed proteins identified by PMF and the combination results of PMF.

Spot numbers of the 209 proteins correspond to the proteins that listed in Table 1.

CID: collision induced desorption

MALDI TOF:

matrix assisted laser desorption/ionization time of flight

MS: mass spectrometry

PMF: peptide mass fingerprinting

Spot No.: 1

Mascot score: 114 Sequence coverage %: 22

NCBI accession No.: gi| 15233779

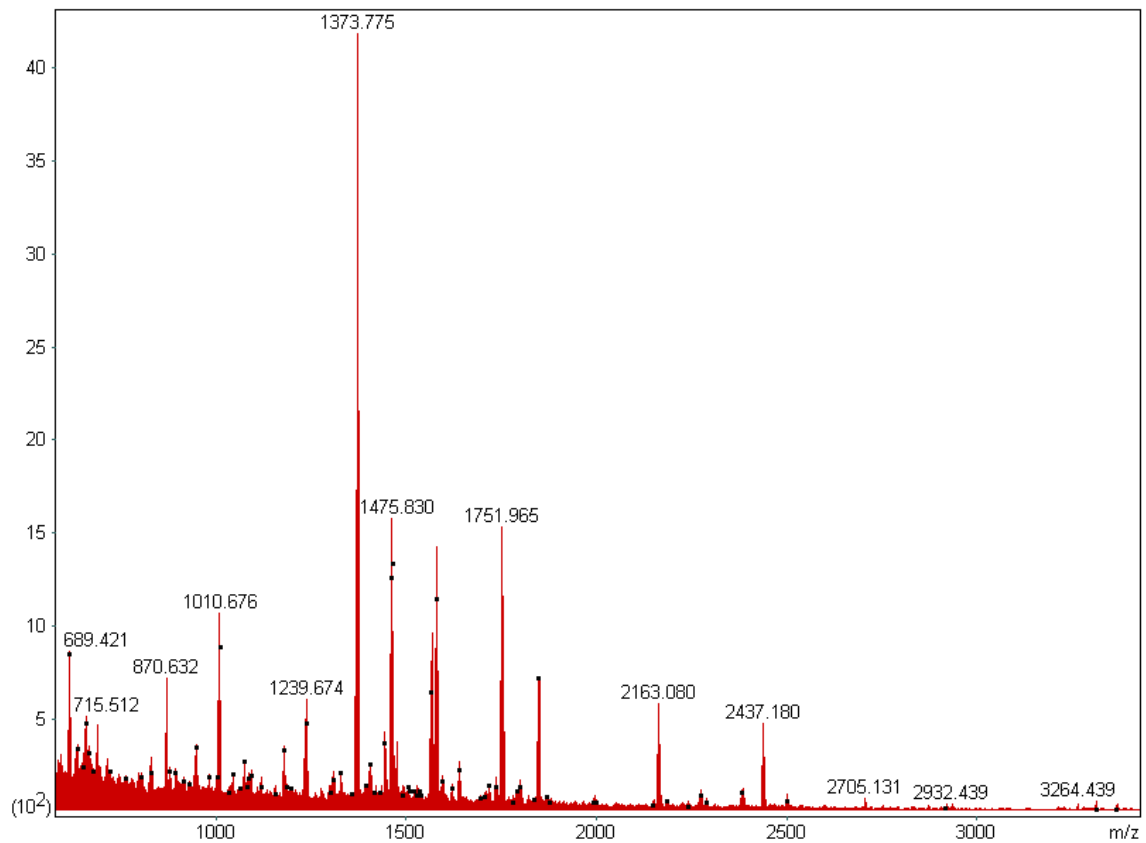
Matched peptides No.: 15

Total peptides No.: 31

Calculated Mr: 76575

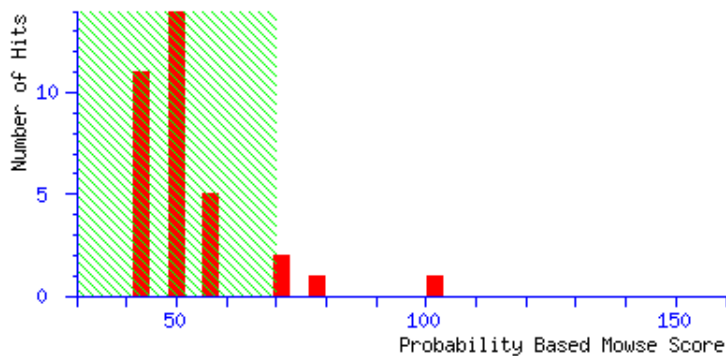
Calculated pI: 5.07

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASSAAQIHV LGGIGFASSS SSKRNLNGKG GTFMPRSAFF GTRTGPFFSTP
51 TSAFLRMGTR NGGGASRYAV GPVRVVMNEKV VGIDLGTNS AVAAAMEGGKP
101 TIVTNAEGQR TTPSVVAYTK SGDRLVGQIA KRQAVVNPEN TFFSVKRFIG
151 RKMNEVDEES KQVSYRVVRD ENNVKLECP AINKQFAAEE ISAQVLRKLV
201 DDASRFLNDK VTKAVITVPA YFNDSQRTAT KDAGRIAGLE VLRIINEPTA
251 ASLAYGFDRK ANETILVFDL GGGTFDVSVL EVGDGVFEVL STSGDTHLGG
301 DDFDKRVVDW LAAEFKKDEG IDLLKDKQAL QRLTEAAEKA KIELSSLTQT
351 NMSLPFITAT ADGPKHIETT LTRAKFEELC SDLLDRVTP VENSLRDAKL
401 SFKDIDEVIL VGGSTRIPAV QELVRKVTKG EPNVTVNPDE VVALGAAVQA
451 GVLAGDVSDI VLLDVTPLSI GLETLGGVMT KIIPRNTTLP TSKSEVFSTA
501 ADGQTSVEIN VLQGEREFVR DNKSLGSFRL DGIPPAPRGV PQIEVKFDID
551 ANGILSVSAV DKGTGKKQDI TITGASTLPK DEVQMQEA ERFAKDDKEK
601 RDAIDTKNQA DSVVYQTEKQ LKELGEKIPG EVKEKVEAKL QELKDKIGSG
651 STQEIKDAMA ALNQEVMQIG QSLYNQPGAG GPGAGPSPGG EGASSGDSSS
701 SKGGDGDDVI DADFTDSQ

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
25 - 36	1307.7306	1306.7233	1306.6452	60	1	R. NLNGKGGTFMPR .S	Oxidation (M)
133 - 147	1735.9638	1734.9565	1734.9053	30	1	R. QAVVNPENTFFSVKR .F	
162 - 166	652.4457	651.4384	651.3340	160	0	K. QVS YR.V	
167 - 176	1186.6598	1185.6525	1185.6102	36	1	R.VVRDEN NNVK .L	
185 - 197	1461.8320	1460.8247	1460.7623	43	0	K. QFAAEEISAQVLR .K	
214 - 227	1580.8757	1579.8684	1579.7995	44	0	K.AVITV PAYFNDSQR .T	
236 - 243	870.6318	869.6246	869.5334	105	0	R. IAGLEVLR .I	
328 - 332	615.4386	614.4313	614.3500	132	0	K. QALQR .L	
374 - 386	1595.8403	1594.8330	1594.7661	42	1	R. AKFEELCSDLLDR .V	
389 - 396	915.5702	914.5630	914.4821	88	0	R.TPV ENSLR .D	
400 - 416	1849.0589	1848.0516	1847.9993	28	1	K.L SFKDIDEVILVGGSTR .I	
404 - 416	1373.7755	1372.7682	1372.7198	35	0	K.D IDEVILVGGSTR .I	
494 - 516	2437.1804	2436.1731	2436.1769	-2	0	K. SEVFSTAADGQTSVEINVLQGER .E	
524 - 529	666.4692	665.4619	665.3497	169	0	K. SLGSFR .L	
581 - 592	1464.9001	1463.8928	1463.6198	187	0	K. DEV Q MQEAER .F	Oxidation (M)

Spot No.: 2

Mascot score: 86 Sequence coverage %: 16

NCBI accession No.: gi| 20559

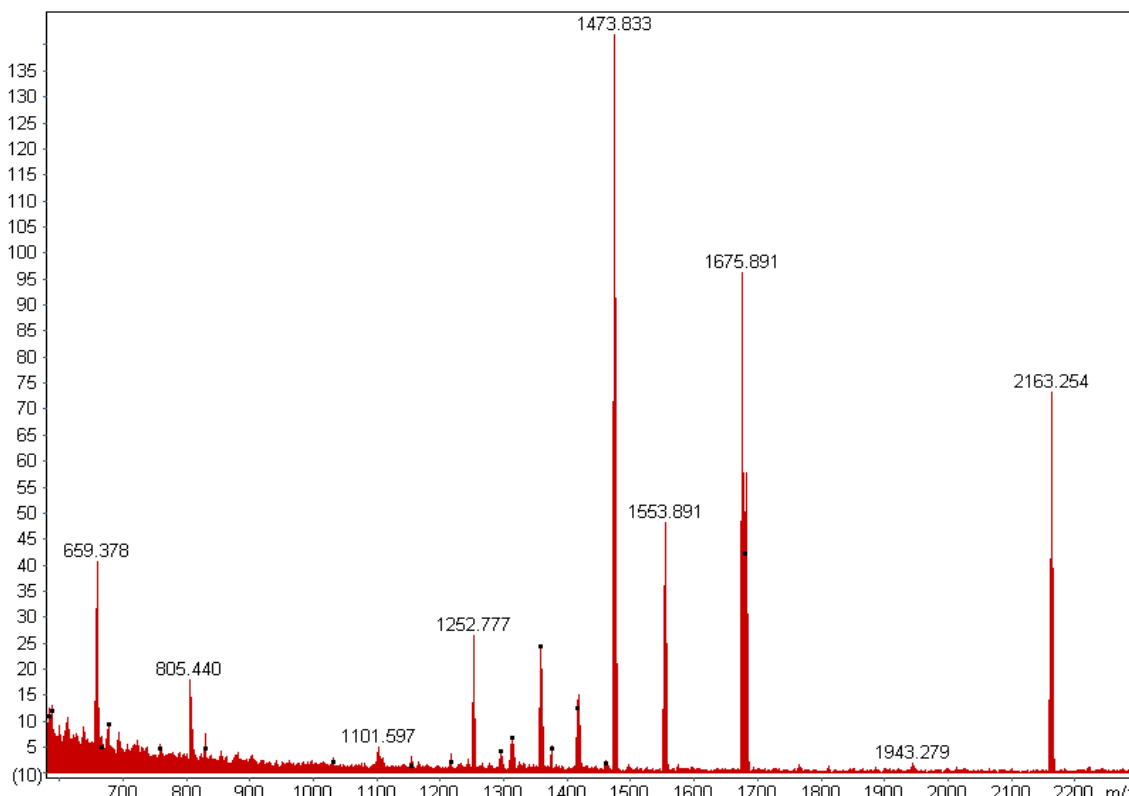
Matched peptides No.: 10

Total peptides No.: 19

Calculated Mr: 71137

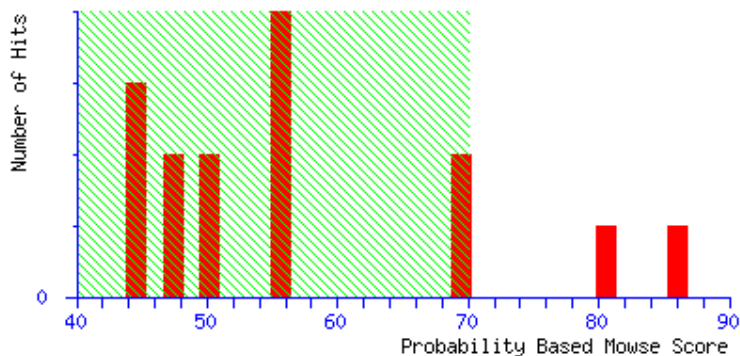
Calculated pI: 5.07

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  EGPAIGIDLG  TTYSCVGVWQ  HDRVEIIAND  QGNRTPSYV GFTDTERLIG
51  DAAKNQVAMN  PINTVFDAGR  LIGRRFSDPS  VQSDIKLWPF  KVIPGPGDKP
101 MIVVTYKGEE  KQFAAEEISS MVLTKMKEIA  EAYLGTTIKN  AVVTVPAYFN
151 DSQRQATKDA GVIAGLNVMR  IINEPTAAAI  AYGLDKKASS  AGEKNVLIFD
201 LGGGTFDVSL  LTIEEGIFEV  KATAGDTHLG  GEDFDNRMVN  HFVQEFKRKN
251 KKDISGNPRA  LRRLRTACER  AKRTLSSTAQ  TTIEIDSLYE  GIDFYSTITR
301 ARFEELNMDL  FRKCMPEVEK  CLRDAKMDKS  SVHDVVLVGG  STRIPKVQQL
351 LQDFFNGKEL  CKSINPDEAV  AYGAAVQAAI  LSGEGNEKVQ  DLLLLDVTPL
401 SLGLETAGGG  MTVLIPRNTT  IPTKKEQVFS  TYSDNQPGVL  IQVYEGERAR
451 TKDNMNLGKF  ELSGIPPAPR  GVPQITVCFD  IDANGILNVS  AEDKTTGQKN
501 KITITNDKGR  LSKEEIERMV  QEAEKYKSED  EELKKKVEAK  NALENYAYNM
551 RNTIKDDKIN  SQLSAADKKR  IEDAIDEAIK  WLDNNQLAEA  DEFEDKMKEL
601 ESICNPPIAK  MYQGGAGGAT  MDEDGPSVGG  SAGSQTGAGP  KIEEVD

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
35 - 47	1473.8331	1472.8258	1472.6784	100	0	R. TPSYVGF TDTER .L
112 - 125	1553.8911	1552.8838	1552.7807	66	0	K. QFAAEEISSMVLTK .M
140 - 154	1681.0152	1680.0079	1679.8267	108	0	K. NAVVTVPAYF DSQR .Q
159 - 170	1215.7410	1214.7337	1214.6441	74	0	K. DAGVIAGLNVMR .I
222 - 237	1675.8905	1674.8832	1674.7234	95	0	K. ATAGDTHLGGEDF DNRM .M
238 - 247	1294.7463	1293.7390	1293.6176	94	0	R. MVNHVQEFK .R Oxidation (M)
253 - 259	758.3629	757.3557	757.3719	-21	0	K. DISGNPRA
303 - 312	1313.7345	1312.7272	1312.6122	88	0	R. FEELNMDLFR .K
541 - 551	1358.7360	1357.7287	1357.6084	89	0	K. NALENYAYNMR .N
541 - 551	1374.7432	1373.7359	1373.6033	97	0	K. NALENYAYNMR .N Oxidation (M)

Spot No.: **3**

Mascot score: **99** Sequence coverage %: **22**

NCBI accession No.: **gi| 3962377**

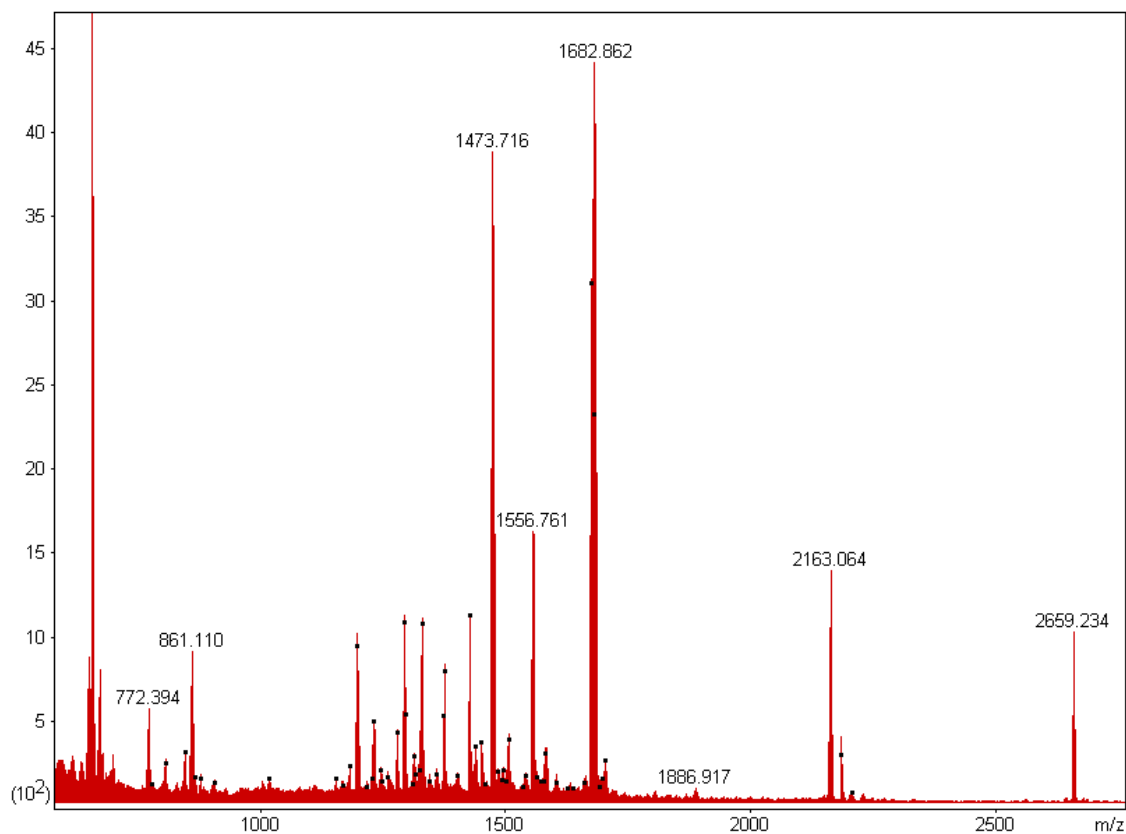
Matched peptides No.: **20**

Total peptides No.: **53**

Calculated Mr: **71408**

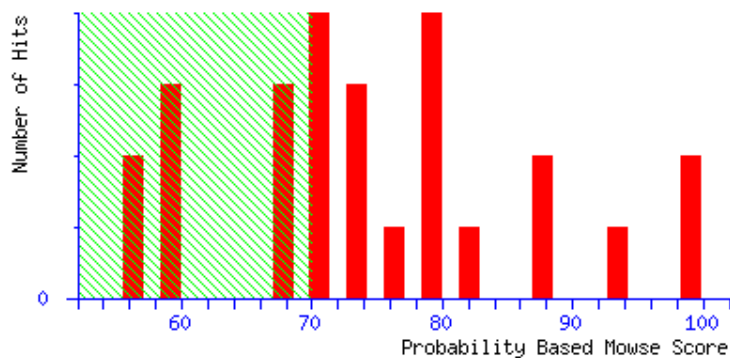
Calculated pI: **5.14**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MAGKGEGPAI  GIDLGTTYSC  VGVWQHDRVE  IILANDQGNRT  TPSYVAFTDS
51 ERLIGDAAKN  QVAMNPTNTV  FDAKRLIGRR  YSDPSVQADK  SHWPFKVVSG
101 PGEKPMIVVN  HKGEEKQFSA  EEISSIVLIK  MREIAEAFLG  SPVKNAVVIV
151 PAYFNDSQRQ  GTKDAGVISG  LNVMRIINEP  TAAAIAYGLD  KKASSVGEKN
201 VLIFDLGGGT  FDVSLLTIEE  GIFEVKATAG  DTHLGGEDFD  NRMVNHFVQE
251 FKRKNKKDIT  GNPRALRRLR  TACERAKRTL  SSTAQTTIEI  DSLFEGIDFY
301 TTITRARFEE  LHMDLFRKCM  EPVEKCLRDA  KMDKSSVHDV  VVVGGSTRIP
351 KVQQLVQDFF  NGKELCKSIN  PDEAVAYGAA  VQAAILSGEG  NEKVQDLLLL
401 DVTPLSLGLE  TAGGVMTVLI  PRNTTIPTKK  EQIFSTYSDN  QPGVLIQVYE
451 GERARTKDNN  LLGKFELSGI  PPAPRGVPQI  TVCFDIDANG  ILNVSAEDKT
501 TGQKNKITIT  HDKGRLSKEE  IEKMVQEAEK  YKAEDEEHKK  KVDAKNALEN
551 YAYNMRNTIK  DEKIASKLDA  ADKKKIEDAI  DQAIEWLDGN  QLAEADEFED
601 KMKELESLCN  PIIARMYQGA  GPDMGGAGGM  DDDTPAGGSG  GAGPKIEEVD
651

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Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
29 - 39	1228.6360	1227.6287	1227.6207	7	0	R.VEIIANDQGNR.T
40 - 52	1473.7156	1472.7083	1472.6783	20	0	R.TPSYVAFTDSEK.L
133 - 144	1260.5921	1259.5848	1259.6761	-72	0	R.EIAEAFLGSPVK.N
145 - 159	1692.8384	1691.8311	1691.8631	-19	0	K.NAVVIVPAYFNDSQR.Q
160 - 175	1661.7971	1660.7898	1660.8567	-40	1	R.QGTKDAGVISGLNVMR.I Oxidation (M)
164 - 175	1231.6494	1230.6421	1230.6391	2	0	K.DAGVISGLNVMR.I
164 - 175	1247.6125	1246.6052	1246.6340	-23	0	K.DAGVISGLNVMR.I Oxidation (M)
192 - 199	805.4144	804.4071	804.4341	-34	1	K.KASSVGEK.N
193 - 199	677.2703	676.2630	676.3392	-113	0	K.ASSVGEK.N
227 - 242	1675.7566	1674.7493	1674.7234	15	0	K.ATAGDTHLGGEDFNK.M
243 - 252	1294.6377	1293.6304	1293.6176	10	0	R.MVNHFVQEFK.R Oxidation (M)
258 - 264	772.3941	771.3868	771.3875	-1	0	K.DITGNPR.A
271 - 275	636.2717	635.2644	635.2697	-8	0	R.TACER.A
306 - 317	1540.7625	1539.7552	1539.7504	3	1	R.ARFEELNMDLFR.K
306 - 317	1556.7606	1555.7533	1555.7453	5	1	R.ARFEELNMDLFR.K Oxidation (M)
308 - 317	1313.6354	1312.6281	1312.6122	12	0	R.FEELNMDLFR.K
308 - 317	1329.6340	1328.6267	1328.6071	15	0	R.FEELNMDLFR.K Oxidation (M)
507 - 515	1017.5738	1016.5665	1016.5614	5	1	K.IITINDKGR.L
546 - 556	1358.6374	1357.6301	1357.6084	16	0	K.NALENYAYNMR.N
546 - 556	1374.6163	1373.6090	1373.6033	4	0	K.NALENYAYNMR.N Oxidation (M)

Spot No.: 4

Mascot score: 100 Sequence coverage %: 22

NCBI accession No.: gi| 15230534

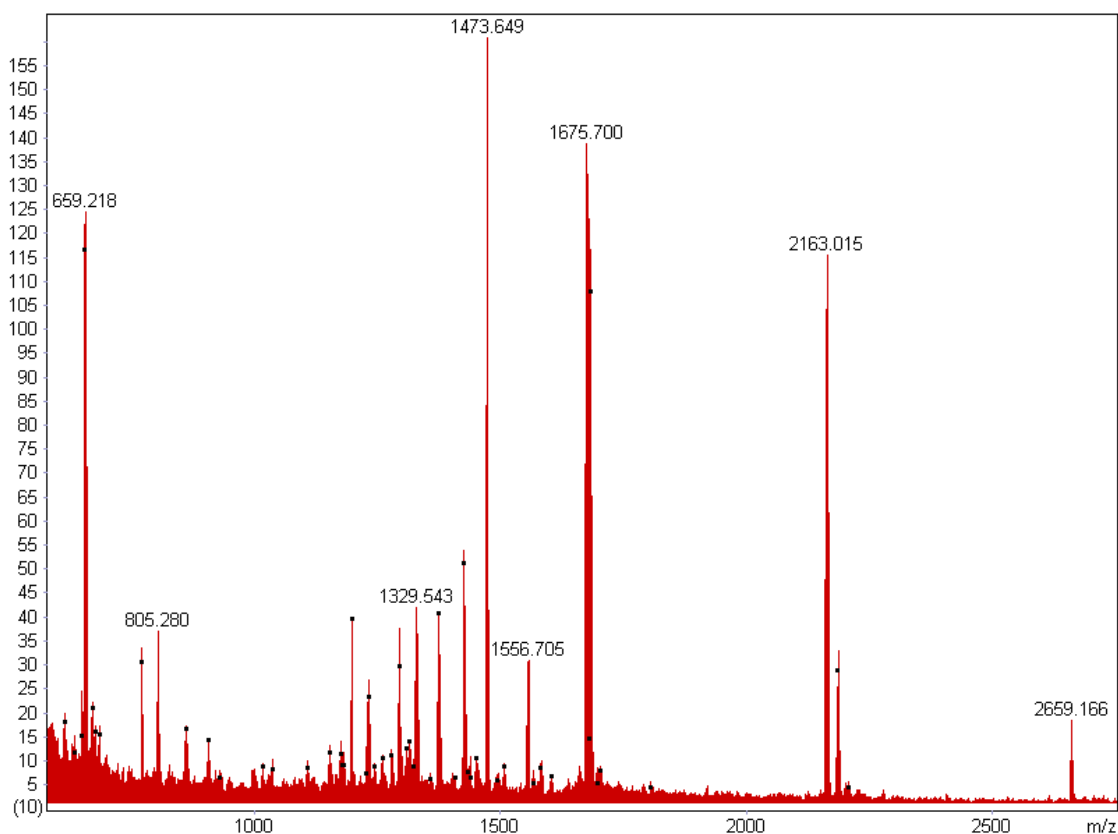
Matched peptides No.: 17

Total peptides No.: 37

Calculated Mr: 71456

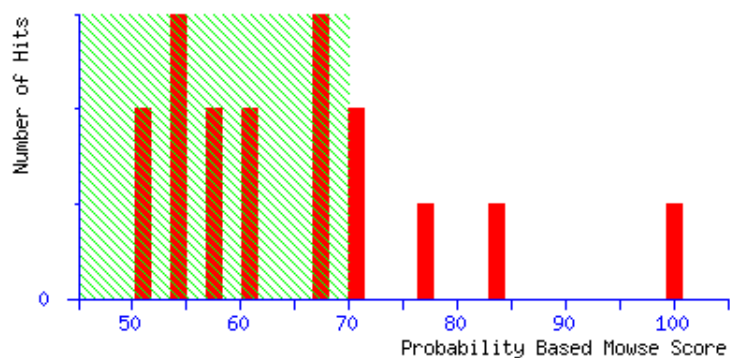
Calculated pI: 5.14

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MAGKGEPAI  GIDLGTTYSC  VGVWQHDRVE I IANDQGNRT  TPSYVAFTDS
51 ERLIGDAAKN  QVAMNPTNTV  FDAKRLIGRR  YSDPSVQADK  SHWPFKVVSG
101 PGEKPMIVVN  HKGEEKQFSA  EEISSMVLIK  MREIAEAFLG  SPVKNAVVTV
151 PAYFNDSQRQ  ATKDAGVISG  LNVMRIINEP  TAAAIAYGLD  KKASSVGEKN
201 VLIFDLGGGT  FDVSLLTIEE  GIFEVKATAG  DTHLGGEDFD  HRMVNHFVQE
251 FKRKNKKDIT  GNPRALRRLR  TACERAKRTL  SSTAQTTEI  DSLFEGIDFY
301 TTITARFEE  LNMDLFRKCM  EPVEKCLRDA  KMDKSSVHDV  VLVGGSTRIP
351 KVQQLLQDFF  NGKELCKSIN  PDEAVAYGAA  VQAAILSGEG  NEKVQDLLLL
401 DVTPLSLGLE  TAGGVMTVLI  PRNTTIPTKK  EQIFSTYSDN  QPGVLIQVYE
451 GERARTKDNM  LLGKFELSGI  PPAPRGVPQI  TVCFDIDANG  ILNVSAEDKT
501 TGQKNKITIT  NDKGRLSKEE  IEKMQEAEK  YKAEDEEHKK  KVDAKNALEN
551 YAYNMRNTIK  DEKIASK LDA  ADKKKIEDAI  DQAI EWLDGN  QLAEADEFED
601 KMKELES LCN  PIIARMYQGA  GPDMGGAGGM  DDDTPAGGSG  GAGPKIEEVD
651

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
29 - 39	1228.5482	1227.5409	1227.6207	-65	0	R.VEIIANDQGNR.T
40 - 52	1473.6494	1472.6421	1472.6783	-25	0	R.TTPSYVAFTDSER.L
117 - 130	1581.7492	1580.7419	1580.8120	-44	0	K.QFSAEEISSMVLIK.M
133 - 144	1260.5210	1259.5137	1259.6761	-129	0	R.EIAEAFLGSPVK.N
164 - 175	1231.5561	1230.5488	1230.6391	-73	0	K.DAGVISGLNVMR.I
192 - 199	805.2802	804.2729	804.4341	-200	1	K.KASSVGEK.N
193 - 199	677.1712	676.1639	676.3392	-259	0	K.ASSVGEK.N
227 - 242	1675.7004	1674.6931	1674.7234	-18	0	K.ATAGDTHLGGEDFDNR.M
243 - 252	1294.5305	1293.5232	1293.6176	-73	0	R.MVNHFVQEFK.R Oxidation (M)
258 - 264	772.2478	771.2406	771.3875	-191	0	K.DITGNPR.A
271 - 275	636.1199	635.1127	635.2697	-247	0	R.TACER.A
306 - 317	1556.7047	1555.6974	1555.7453	-31	1	R.ARFEE LNMDLFR.K Oxidation (M)
308 - 317	1313.5713	1312.5640	1312.6122	-37	0	R.FEELNMDLFR.K
308 - 317	1329.5431	1328.5358	1328.6071	-54	0	R.FEELNMDLFR.K Oxidation (M)
318 - 325	1036.4181	1035.4108	1035.4729	-60	1	R.KMEPVKEK.C Oxidation (M)
507 - 515	1017.4587	1016.4514	1016.5614	-108	1	K.ITITNDKGR.L
546 - 556	1358.5748	1357.5675	1357.6084	-30	0	K.NALENYAYNMR.N

Spot No.: **5**

Mascot score: **201** Sequence coverage %: **43**

NCBI accession No.: **gi| 15241849**

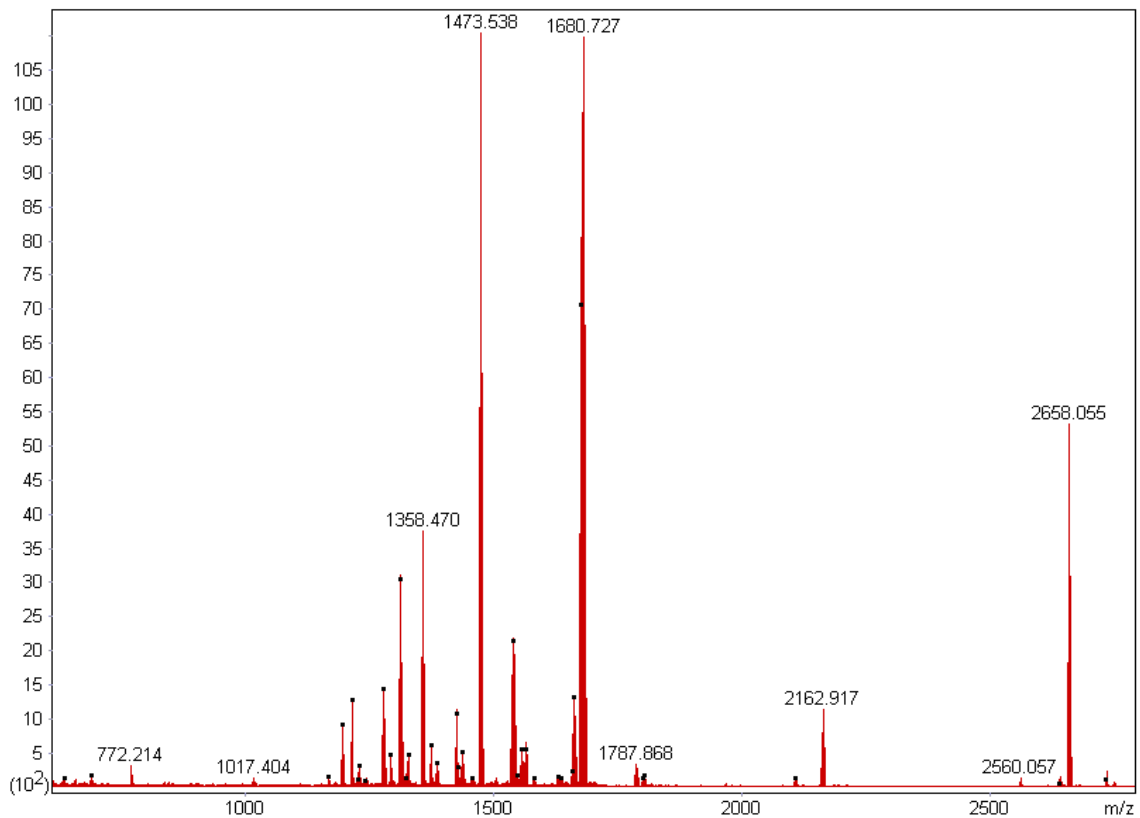
Matched peptides No.: **27**

Total peptides No.: **37**

Calculated Mr: **71712**

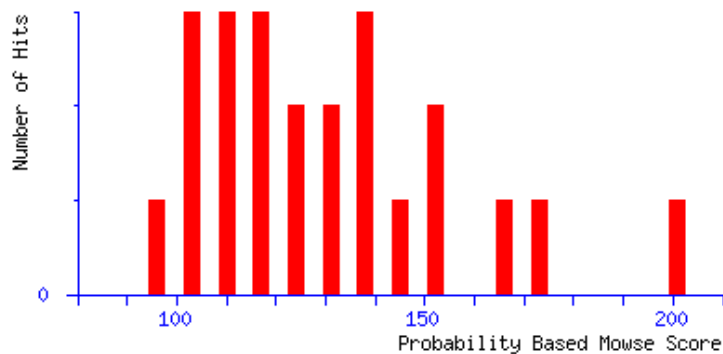
Calculated pI: **5.03**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Red**

```

1  MSGKGEGPAI  GIDLGTTYSC  VGVWQHDRVE  IIANDQGNRT  TPSYVAFTDS
51  ERLIGDAAKN  QVAMNPVNTV  FDAKRLIGRR  FSDSSVQSDM  KLWPFKIQAG
101 PADKPMIYVE  YKGEEKEFAA  EEISSMVLIK  MREIAEAYLG  VTIKNAVVTV
151 PAYFNDSQRQ  ATKDAGVIAG  LNVMRIINEP  TAAAIAYGLD  KKATSVGEKN
201 VLIFDLGGGT  FDVSLLTIEE  GIFEVKATAG  DTHLGGEDFD  NRMVNHVQE
251 FKRKSKDIT  GNPRALRRLR  TSCERAKRTL  SSTAQTTEIE  DSLYEGIDFY
301 STITRARFEE  LNMDLFRKCM  EPVEKCLRDA  KMDKSTVHDV  VLVGGSTRIP
351 KVQQLLQDF  NGKELCKSIN  PDEAVAYGAA  VQGAILSSEG  NEKVQDLLLL
401 DVTPLSLGLE  TAGGVMTTLI  PRNTTIPTTK  EQVFSTYSDN  QPGVLIQVYE
451 GERARTKDMN  LLGKFELSGI  PPAPRGVPQI  TVCFDIDANG  ILNVSAEDKT
501 TGQKNKITIT  NDKGRLSKDE  IEKMVQEAEK  YKSEDEEHKK  KVEAKNALEN
551 YAYNMRNTIQ  DEKIGEKLPA  ADKKKIEDSI  EQAIQWLEGN  QLAEADEFED
601 KMKELESICN  PIIAKMYQGA  GGEAGGPGAS  GMDDDAPPAS  GGAGPKIEEV
651 D

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
29 - 39	1228.4528	1227.4455	1227.6207	-143	0	R.VEIIANDQGNR.T
40 - 52	1473.5385	1472.5312	1472.6783	-100	0	R.TPSYVAFTDSER.L
60 - 75	1803.7642	1802.7569	1802.9097	-85	1	K.NQVAMNPVNTVFDKRL.L
80 - 91	1386.5521	1385.5448	1385.6245	-58	1	R.RFSDSSVQSDMK.L
92 - 96	690.2053	689.1980	689.3901	-279	0	K.LWPFK.I
145 - 159	1680.7268	1679.7195	1679.8267	-64	0	K.NAVVTVPAYFNDSQR.Q
160 - 175	1659.7071	1658.6998	1658.8774	-107	1	R.QATKDAGVIAGLNVMR.I Oxidation (M)
164 - 175	1215.5029	1214.4956	1214.6441	-122	0	K.DAGVIAGLNVMR.I
164 - 175	1231.4628	1230.4555	1230.6391	-149	0	K.DAGVIAGLNVMR.I Oxidation (M)
176 - 192	1787.8676	1786.8603	1786.9828	-69	1	R.IINEPTAAAIAYGLDKK.A
227 - 242	1675.5911	1674.5838	1674.7234	-83	0	K.ATAGDTHLGGEDFNR.M
243 - 252	1278.4590	1277.4517	1277.6227	-134	0	R.MVNHVQVEFK.R
243 - 252	1294.4670	1293.4597	1293.6176	-122	0	R.MVNHVQVEFK.R Oxidation (M)
258 - 264	772.2138	771.2065	771.3875	-235	0	K.DITGNPR.A
306 - 317	1540.6256	1539.6183	1539.7504	-86	1	R.ARFEELNMDLFR.K
306 - 317	1556.6246	1555.6173	1555.7453	-82	1	R.ARFEELNMDLFR.K Oxidation (M)
308 - 317	1313.4659	1312.4586	1312.6122	-117	0	R.FEELNMDLFR.K
308 - 317	1329.4649	1328.4576	1328.6071	-112	0	R.FEELNMDLFR.K Oxidation (M)
332 - 348	1800.7879	1799.7806	1799.9200	-77	1	K.MDKSTVHDVVLVGGSTR.I
335 - 348	1426.5942	1425.5869	1425.7576	-120	0	K.STVHDVVLVGGSTR.I
368 - 393	2560.0569	2559.0496	2559.2452	-76	0	K.SINPDEAVAYGAAVQGAILSSEGNEK.V
431 - 453	2658.0552	2657.0479	2657.2609	-80	0	K.EQVFSTYSDNQPGVLIQVYEGEGER.A
507 - 515	1017.4037	1016.3964	1016.5614	-162	1	K.ITITNDKGR.L
546 - 556	1358.4704	1357.4631	1357.6084	-107	0	K.NALENYAYNMR.N
546 - 556	1374.4657	1373.4584	1373.6033	-106	0	K.NALENYAYNMR.N Oxidation (M)
602 - 615	1661.6749	1660.6676	1660.8528	-111	1	K.MKELESICNPITAK.M Oxidation (M)
616 - 646	2732.9674	2731.9601	2732.1443	-67	0	K.MYQAGGGEAGGPASGMDDDAPPASGGAGPK.I

Spot No.: **6**

Mascot score: **93** Sequence coverage %: **19**

NCBI accession No.: **gi| 1695717**

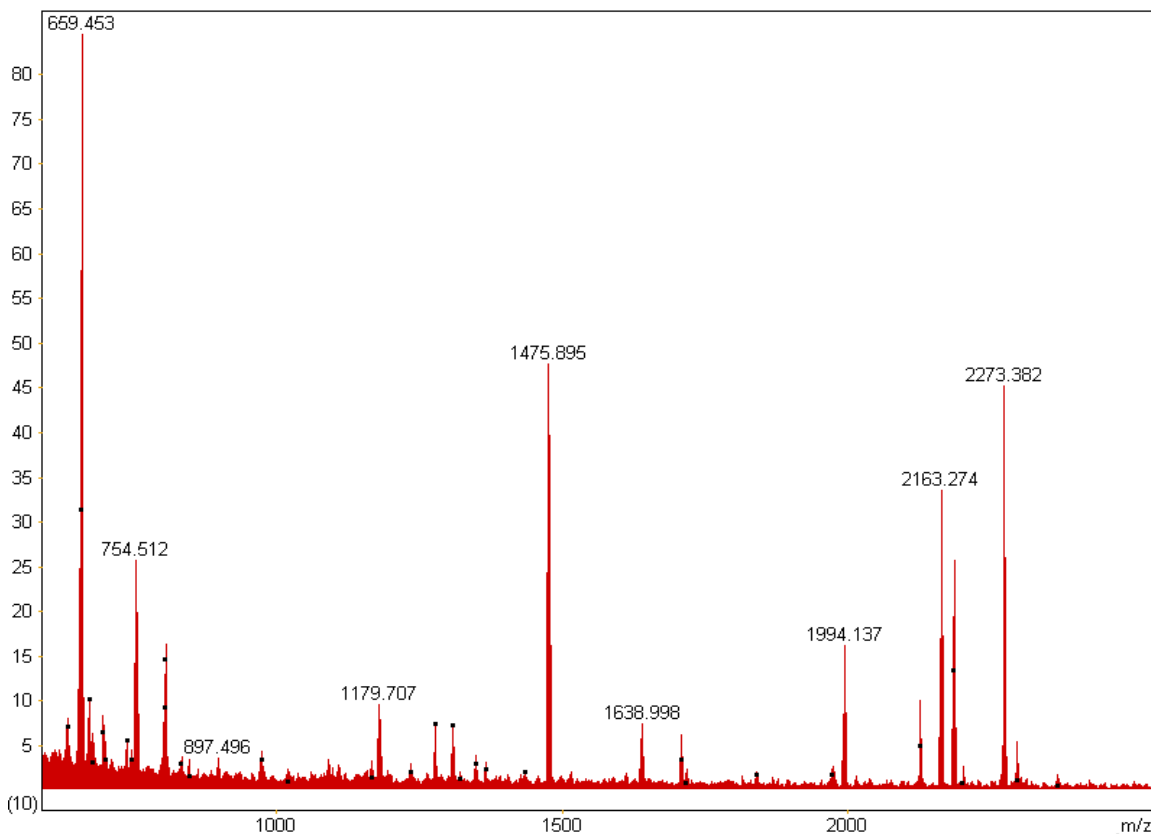
Matched peptides No.: **11**

Total peptides No.: **21**

Calculated Mr: **73862**

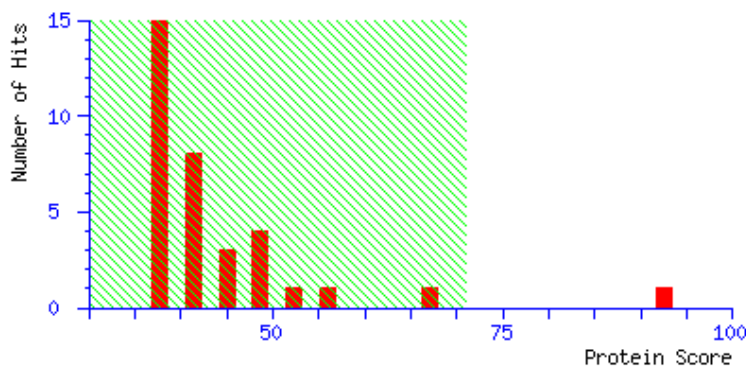
Calculated pI: **5.08**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MARSFGANST VVLAIIFFGC LFALSSAIEE ATKLGSVIGI DLGTTYSCVG
51  VYKNGHVEII ANDQGNRITP SWVGFTDSER LIGEAAKNQA AVNPERTVFD
101 VKRLIGRKFE DKEVQKDRKL VPYQIVNKDG KPVIQVKIKD GETKVFSPPEE
151 ISAMILTKMK ETAEAYLGKK IKDAVVTVPA YFNDAQRQAT KDAGVIAGLN
201 VARIINEPTA AAIANVLDKK GGEKNILVFD LGGGTFDVSV LTIDNGVFEV
251 LSTNGDTHLG GEDFDHRVME YFIKLIKHH QKDISKDNKA LGKLRRECER
301 AKRALSSQHQ VRVEIESLFD GVDFSEPLTR ARFEELNNDL FRKTMGPVKK
351 AMDDAGLQKS QIDEIVLVGG STRIPKVQQL LKDFEFEGKEP NKGVNPDEAV
401 AYGAAVQGGI LSGEGGDETK DILLLDVAPL TLGIETVGGV MTKLIPRNTV
451 IPTKKSQVFT TYQDQQTIVS IQVFEGERSL TKDCRLLGKF DLNGIPPAPR
501 GTPQIEVTFE VDANGILNVK AEDKASGKSE KITITNEKGR LSQEEIDRMV
551 KEAEFFAEED KKVKEKIDAR NALETYVYNM KNQVNDKDKL ADKLEGDEKE
601 KIAAATKEAL EWLDENQNSE KEEYDEKLKE VEAVCNPIIT AVYQRSGGAP
651 GGAGGESSTE EEDESHDEL

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
68 - 80	1494.9289	1493.9216	1493.7151	138	0	R.ITPSWVGFTDSER.L
171 - 187	1907.3162	1906.3089	1905.9949	165	1	K.IKDAVVTVPAYFNDAQR.Q
173 - 187	1666.0759	1665.0686	1664.8158	152	0	K.DAVVTVPAYFNDAQR.Q
192 - 203	1155.7271	1154.7198	1154.6408	68	0	K.DAGVIAGLNVAR.I
313 - 330	2053.2618	2052.2545	2052.0052	122	0	R.VEIESLFDGVD FSEPLTR .A
331 - 342	1523.9135	1522.9062	1522.7528	101	1	R.A RFEELNNDLFR .K
333 - 342	1296.7326	1295.7253	1295.6146	85	0	R.FEELNNDLFR.K
360 - 373	1473.9855	1472.9782	1472.7835	132	0	K.SQIDEIVLVGGSTR.I
521 - 528	805.4343	804.4271	804.3977	36	1	K.AEDKASGK.S
608 - 627	2498.3303	2497.3230	2497.0768	99	1	K.EALEWLDENQ NSEKEEYDEK .L
630 - 645	1862.2176	1861.2103	1860.9404	145	0	K.EVEAVCN PIITAVYQR .S

Spot No.: 7

Mascot score: 99 Sequence coverage %: 20

NCBI accession No.: gi| 2493122

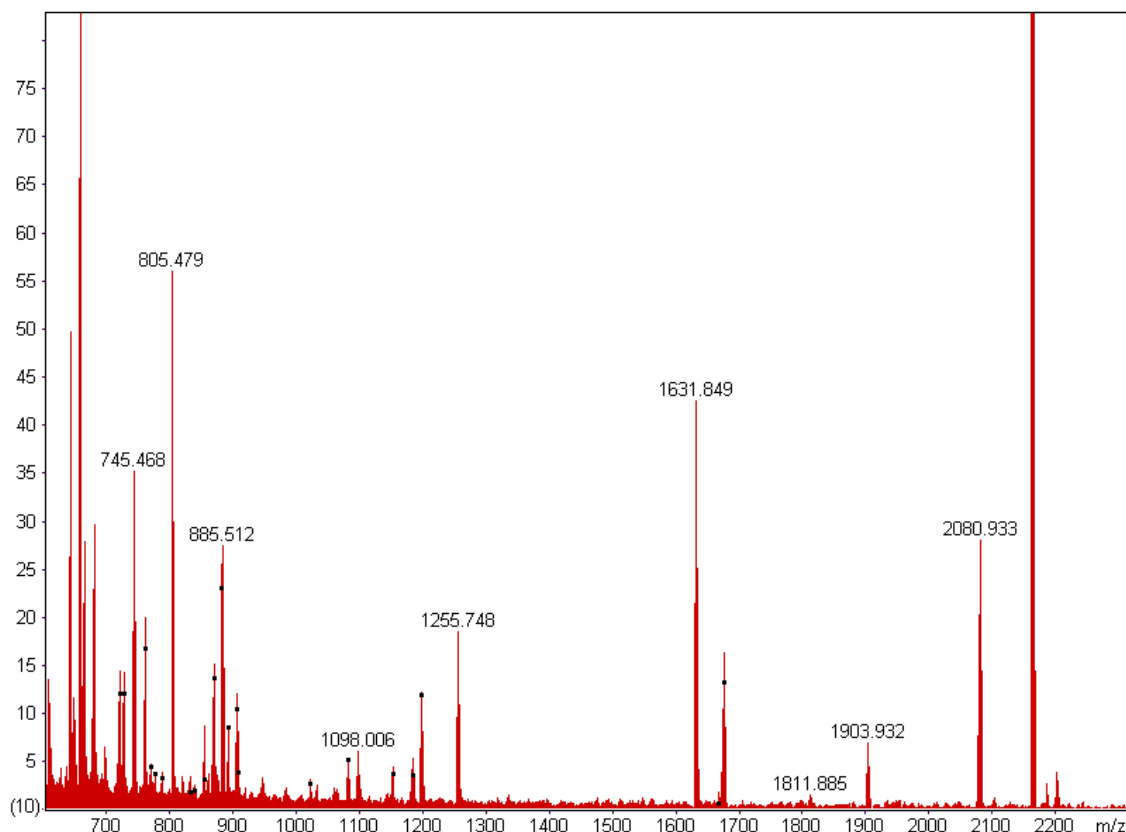
Matched peptides No.: 11

Total peptides No.: 27

Calculated Mr: 69030

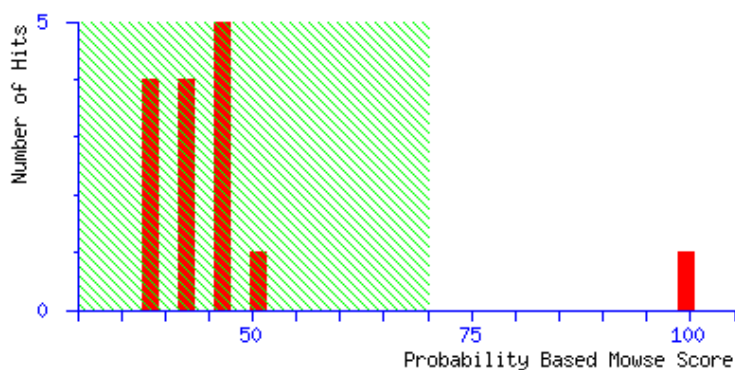
Calculated pI: 5.19

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MPAFYGGK**LT TFE**DEKESE **YGYVR**KVSGP VVVADGMAGA AMYELVVRVGH
51 DNLIGEII**RL EGD**SATI**QVY EETAGLTVND PVL**RTHKPLS VELGPGILGN
101 IFDGIQRPLK TIAK**RS**GD**VY IPR**GV**SVPAL DK**DCLW**EFQP KDF**VEGDTIT
151 GGDLYATVFE NSLMQH**HVAL PPD**AMGKITY LAPAGQYSLK DTVLELE**FQG**
201 VKKSFTMLQT WPVRTPRPVA SK**LAADTPLL TGQR**VLDALF PSVLGGTCAI
251 PGAFGCGKTV ISQALSK**YSN SDA**VVY**VGCG ER**GNEMAEVL MDFPQLTMTL
301 PDG**REESVMK RT**TLVANTSN MPVAA**REASI YTG**ITIAEYF RDMGYNV**SMM**
351 AD**STSRWAEA LRE**IS**RLAE MPAD**SGYPAY **LAAR**LASFYE RAGKVK**CLGG**
401 **PER**NGSVTIV GAVSPPGGDF SDP**VTSATLS IVQ**VF**WGLDK KLA**QRKH**FPS**
451 VN**WLISYSKY STA**LESFYEK FDSDFIDIRT KAREVLQRED DLNEIVQL**VG**
501 KDALAEGDKI TLETAKLLRE DYLAQNA**FTP YDK**FC**PFYKS V**W**MMR**NIHF
551 YNLANQ**AVER GAG**MDGQKIS YSLIKH**RLGD LF**YRLV**SQKF EDP**AEGEDVL
601 VGKFKKLHDD LTSGFRNLED ETR

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
9 - 25	2080.9328	2079.9255	2079.9273	-1	1 K.LTTFEDDEKESEYGYVR.K
60 - 84	2690.3088	2689.3015	2689.3447	-16	0 R.LEGDSATIQVYEETAGLTVNDPVL.R.T
116 - 123	906.5246	905.5173	905.4607	63	0 R.SGDVYIPR.G
124 - 132	885.5116	884.5043	884.4967	9	0 R.GVSVPALDK.D
223 - 234	1255.7479	1254.7406	1254.6932	38	0 K.LAADTPLL TGQR.V
268 - 282	1675.7655	1674.7582	1674.7308	16	0 K.YSNSDAVVYVGCGER.G
357 - 362	745.4680	744.4607	744.3918	93	0 R.WAEALR.E
368 - 384	1811.8846	1810.8773	1810.8559	12	0 R.LAEMPADSGYPAYLAAR.L Oxidation (M)
397 - 403	788.4156	787.4083	787.3647	55	0 K.CLGGPER.N
540 - 545	841.3851	840.3778	840.3622	19	0 K.SV WMMR.N 2 Oxidation (M)
578 - 584	883.5153	882.5080	882.4599	54	0 R.LGD LFYR.L

Spot No.: 8

Mascot score: 129 Sequence coverage %: 36

NCBI accession No.: gi| 312282199

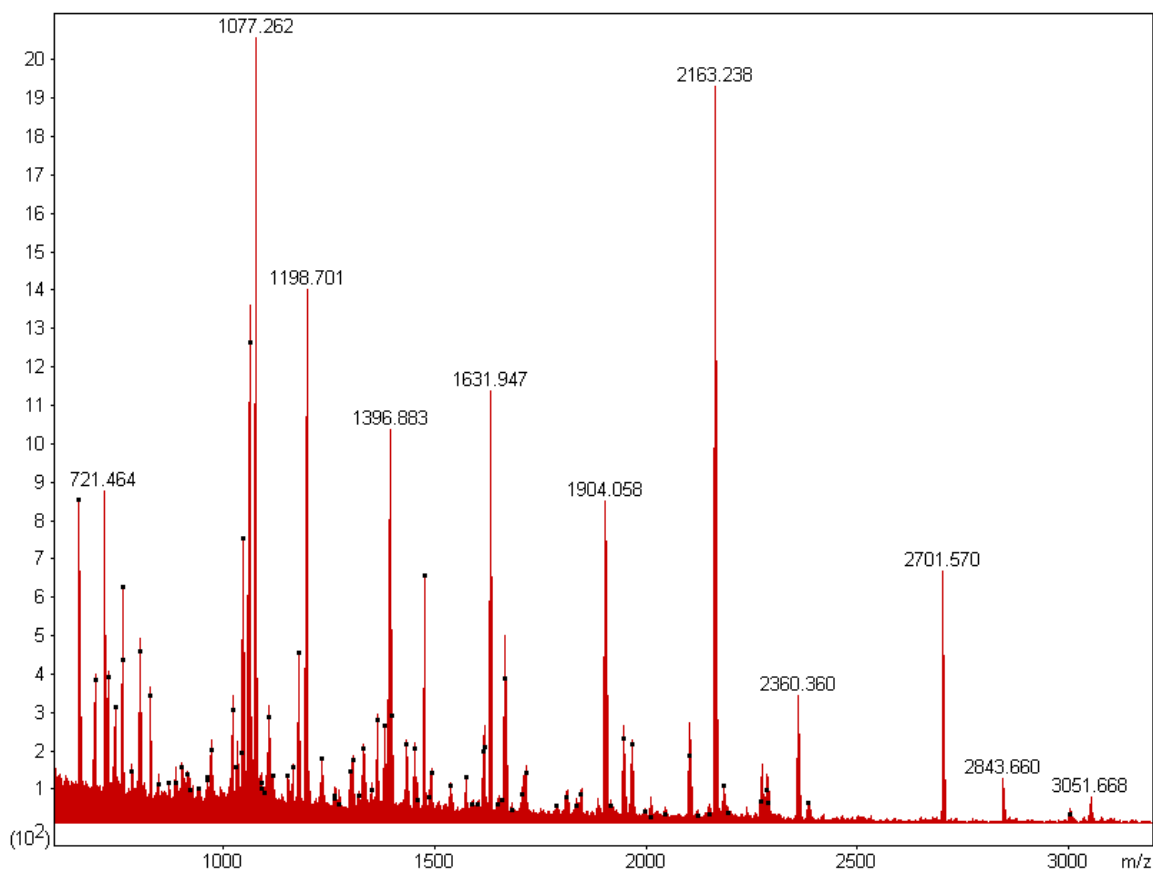
Matched peptides No.: 24

Total peptides No.: 64

Calculated Mr: 74860

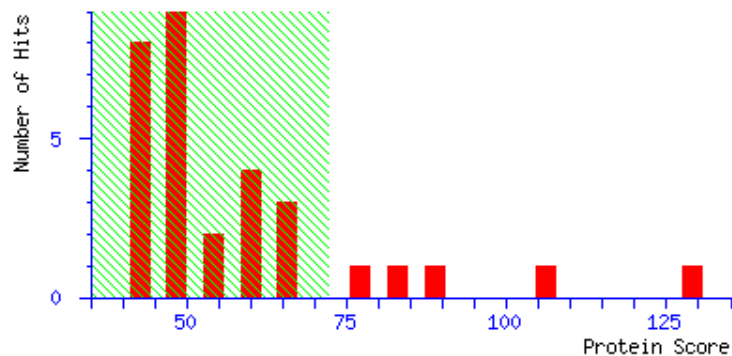
Calculated pI: 6.13

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAASSACLVG NGLSVYTTKQ RLSKNFSRRQ IGLSTTFSSV SRTSKVNVVK
51 ASLDVKKHDG RRDFLKILLG NAGIGLIGSG KANADEQGVV SSRMSYSRFL
101 EYLDKDRVNK VDLYENGTIA IVEAVSPELG NRVQRVVRVQL PGLSQELLQK
151 LRAKNIDFAA HNDQEDQGSV LFNLIGNLAF PLLLIGGLFL LSRRSSGGMG
201 GPGGPGFPLQ FGQSKAKFQM EPNTGVTFDD VAGVDEAKQD FMEVVEFLKK
251 PERFTAVGAR IPKGVLLIGP PGTGKILLAK AIAGEAGVVF FSISGSEFVE
301 MFVGVGASRV RDLFKKAKEN APCIVFVDEI DAVGRQRGTG IGGGNDEREQ
351 TLNQLLEMD GFEGNTGIIV VAATNRADIL DSALLRPGRF DRQVSDVDPD
401 IKGRTDILKV HAGNKKFEND VSLEVIAMRT PGFSGADLAN LLNEAAILAG
451 RRGKTAIASK EIDDSIDRIV AGMEGTVMTD SKSKSLVAYH EVGHAVCGTL
501 TPGHDAVQKV TLIPRQARG LTFWIPSDDP TLISKQQLFA RIVGGLGGRA
551 AAEVIFGEPE VTTGAVGDLQ QITGLAKQMV TTFGMSDIGP WSLMVSSAQS
601 DVIMRMMARN SMSERLAEDI DSAIKKLSDS AYEIALSHIR NNREAMDKLV
651 EVLLEKETIG GDEFRAILSE YTEIPPENRV PTSTTATPTS TPTPASV

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
29 - 42	1538.8398	1537.8325	1537.8213	7	1	R.RQIGLSTTFSSVSR.T
94 - 98	659.4351	658.4278	658.2744	233	0	R.MSYSR.F Oxidation (M)
99 - 107	1198.7013	1197.6940	1197.6030	76	1	R.FLEYLDRDR.V
218 - 238	2286.2174	2285.2101	2285.0158	85	0	K.FQMEPNTGVTFDDVAGVDEAK.Q Oxidation (M)
239 - 249	1400.7520	1399.7447	1399.6694	54	0	K.QDFMEVVEFLK.K Oxidation (M)
254 - 260	721.4636	720.4564	720.3919	90	0	R.FTAVGAR.I
264 - 275	1108.7020	1107.6947	1107.6652	27	0	K.GVLLIGPPGTGK.T
317 - 335	2103.1773	2102.1700	2102.0466	59	1	K.AKENAPCIVFVDEIDAVGR.Q
319 - 335	1904.0583	1903.0510	1902.9146	72	0	K.ENAPCIVFVDEIDAVGR.Q
338 - 348	1032.4885	1031.4812	1031.4632	17	0	R.GTGIGGGNDER.E
377 - 389	1396.8829	1395.8756	1395.7834	66	1	R.ADILDSALLRPGR.F
416 - 429	1650.9369	1649.9296	1649.8447	51	1	K.KFENDVSLEVIAMR.T
416 - 429	1666.9652	1665.9579	1665.8396	71	1	K.KFENDVSLEVIAMR.T Oxidation (M)
461 - 468	962.5087	961.5014	961.4352	69	0	K.EIDDSIDR.I
510 - 515	698.5007	697.4934	697.4487	64	0	K.VTLIPR.G
520 - 535	1790.0120	1789.0047	1788.9298	42	0	R.GLTFWIPSDDPPTLISK.Q
536 - 541	762.4829	761.4757	761.4184	75	0	K.QQLFAR.I
542 - 549	728.5082	727.5009	727.4341	92	0	R.IVGGLGGR.A
550 - 577	2843.6603	2842.6530	2842.4600	68	0	R.AAEVIFGEPEVTTGAVGDLQQITGLAK.Q
627 - 640	1574.9255	1573.9182	1573.8100	69	0	K.LSDSAYEIALSHIR.N
649 - 656	942.5623	941.5550	941.5797	-26	0	K.LVEVLLEK.E
649 - 665	1947.1701	1946.1628	1946.0360	65	1	K.LVEVLLEKETIGGDEFR.A
657 - 665	1023.5537	1022.5464	1022.4669	78	0	K.ETIGGDEFR.A
666 - 679	1631.9468	1630.9395	1630.8202	73	0	R.AILSEYTEIPPENR.V

Spot No.: **9**

Mascot score: **90** Sequence coverage %: **29**

NCBI accession No.: **gi| 20467991**

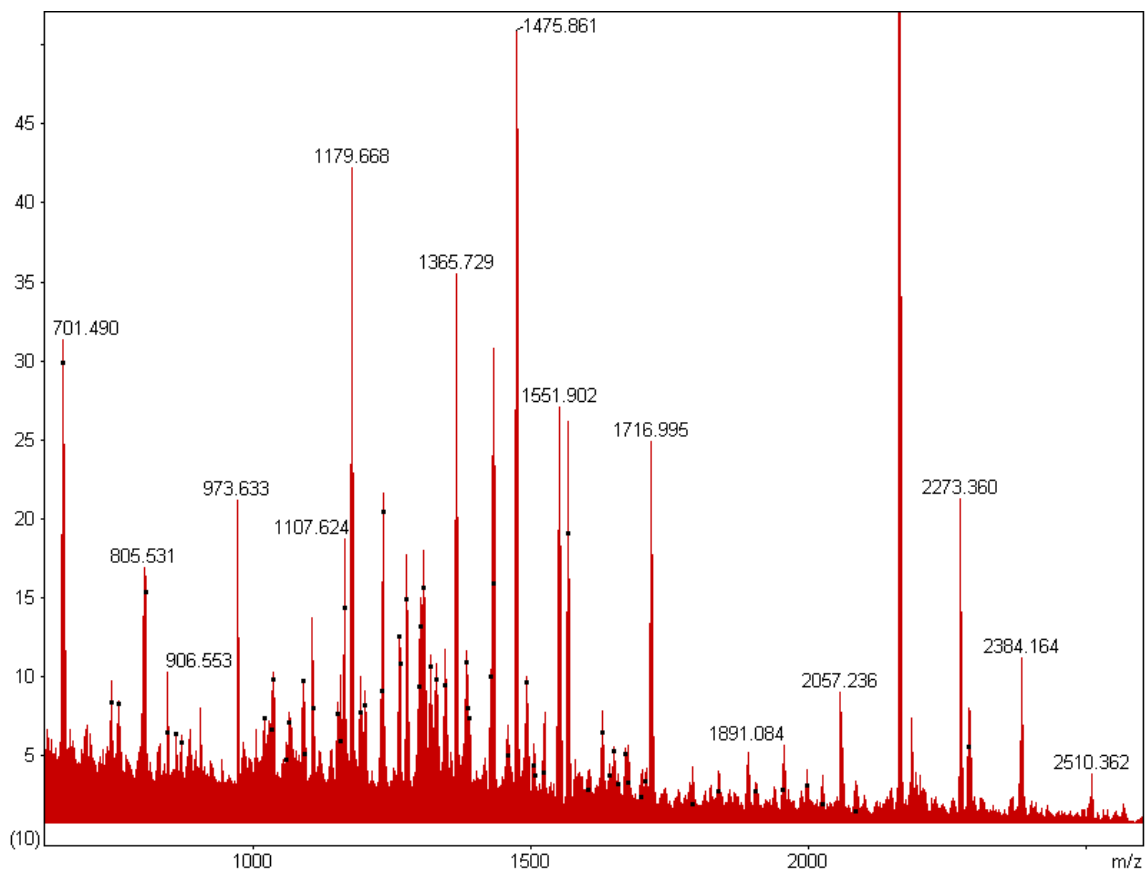
Matched peptides No.: **18**

Total peptides No.: **58**

Calculated Mr: **74547**

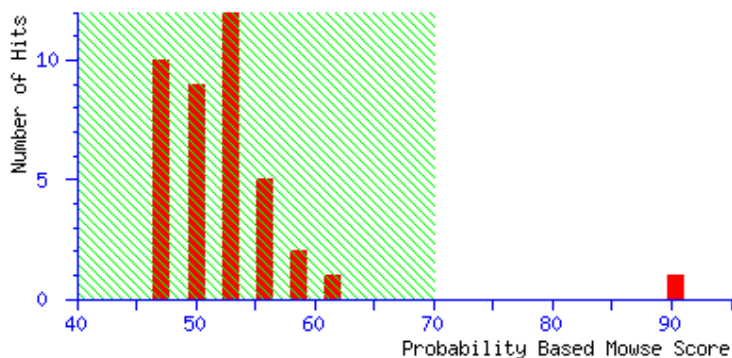
Calculated pI: **6.75**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MEYSSDDSD ISDSEIDEYG AKIQARLLSG DLKFRNGDSY SCPFCTGRKN
51 KDYNMQSLLQ HSSGVGAAPN RPAKDKASHR ALAKHLKNGV AKPSDPQQAQ
101 QIAVEPQQPQ QISVEPQPLP NRHEKFWVPW MGVLVNVPTV WKDGRQVGES
151 GNRLKGELSQ FCPLKVIPLW NFRGHTGNAI VEFAKNWNGF RNALAFEKYF
201 EAGGCGRRDW KQNMNQGSKL CGWVARAEDY NFPGLIGDHL RKNADLKTID
251 DLENEGTRKN NKLVANLANQ IEVKNKYLQE LELRYNETTV SLEKMMGQRE
301 QRLQAYNEEI RKMQQLARRH SEKIIDENQN LRSELESKMS ELNARSKELD
351 DLAAKSSHDK SNLEQEKQKN AIKSNHLKLA TAEQQRADED VVKLVLDQKR
401 EKVAALNKIL ELEQQLEAKQ TLELEIQQLK GKLEVMKHMP GHEDSVLKDK
451 INELSEELQD KMDEL DAMES LNQTLVIKES KSNTM QEAR KELENGLLNL
501 PGGRAHIGIK RMGELD LKAV SNVLGQKLSK EDA EVTAAIL CSKWEAEIKN
551 PEWHPPFRAVM VDGKEMERIN ADDAKLRELK DEHGEEIYSL VTKALREYNV
601 NSTRYPVGEL WNFREERKAS LKEAVQV VLR QWRANRRKR

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
27 - 33	745.5092	744.5019	744.4381	86	0	R.LLSGDLK.F
186 - 198	1566.8631	1565.8558	1565.7739	52	1	K.NWNGFRNALAFEK.Y
227 - 241	1716.9954	1715.9881	1715.8267	94	0	R.AEDYNFPGLIGDHLR.K
248 - 259	1390.7614	1389.7541	1389.6736	58	1	K.TIDLENEGTRK.N
303 - 312	1263.7173	1262.7100	1262.6618	38	1	R.LQAYNEEIRK.M
333 - 345	1493.8084	1492.8011	1492.7191	55	1	R.SELESKMSELNAR.S
361 - 367	847.5362	846.5290	846.4083	143	0	K.SNLEQEK.Q
368 - 373	701.4900	700.4828	700.4231	85	1	K.QKNAIK.S
394 - 399	758.5183	757.5111	757.4446	88	1	K.LVRDQK.R
438 - 448	1265.7165	1264.7092	1264.5870	97	0	K.HMPGHEDSVLK.D Oxidation (M)
438 - 450	1508.8192	1507.8119	1507.7089	68	1	K.HMPGHEDSVLKDK.I Oxidation (M)
451 - 478	3264.7942	3263.7869	3263.5788	64	1	K.INELSEELQDKMDEL DAMESLNQTLVIK.E Oxidation (M)
482 - 490	1065.5921	1064.5848	1064.4556	121	0	K.SNTM QEAR.K
482 - 491	1193.6844	1192.6771	1192.5506	106	1	K.SNTM QEAR.K.E
512 - 518	805.5308	804.5235	804.4051	147	0	R.MGELD LK.A
531 - 549	2163.2609	2162.2536	2162.0565	91	1	K.EDA EVTAAILCSKWEAEIK.N
565 - 575	1307.7582	1306.7509	1306.5823	129	1	K.EMERINADDAK.L Oxidation (M)
623 - 633	1383.7538	1382.7465	1382.7783	-23	1	K.EAVQV VLRQWR.A

Spot No.: **10**

Mascot score: **95** Sequence coverage %: **22**

NCBI accession No.: **gi| 312283065**

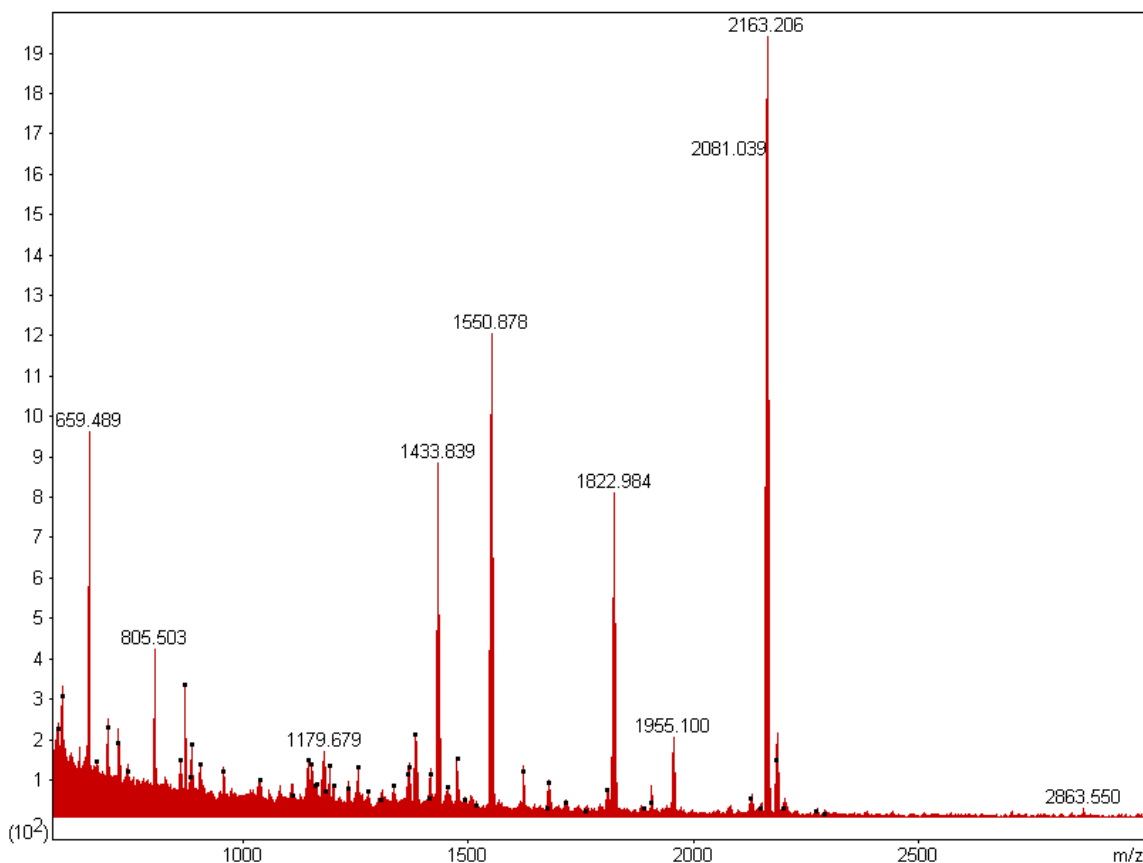
Matched peptides No.: **16**

Total peptides No.: **35**

Calculated Mr: **73489**

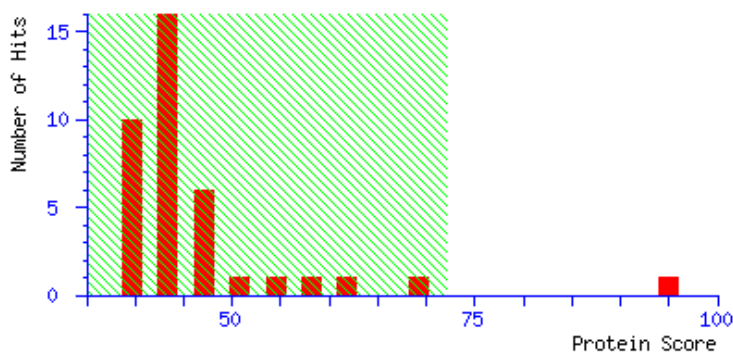
Calculated pI: **5.72**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MATAALLRSI RRREVASTPF SAYKCLSSSG KISFNNGSYLG QNWRSFSRAF
51  SSKPAGNDVI GIDLGTNSC VAVMEGKNPK VIENAEGART TPSVVAFNPK
101 GELLVGTPAK RQAVTNPTNT VFGTKRLIGR KFDDPQTQKE MKMVPYKIVR
151 APNGDAWVEA NGQQYSPSQV GAFVLTKMKE TAEAYLGKSV KKAVVTVPAY
201 FNDAQRQATK DAGRIAGLDV ERIINEPTAA ALSYGMTNKE GLIAVFDLGG
251 GTFDISVLEI SNGVFEVKAT NGDTFLGGED FDNALLDFLV NEFKTTEGID
301 LAKDRLALQR LREAAEKAKI ELSSTSQTEI NLPFITADAS GAKHFNITLT
351 RSRFETLVNH LIERTRDPCK NCLKDAGISA KEVDEVLLVG GMTRVPKVQS
401 VVSEIFGKTP SKGVNPDEAV AMGAALQGGI LRGDVKELL LDTVPLSLGI
451 ETLGGVFTRL ISRNTTIPTK KSQVFSTAAD NQTQVGIRVL QGEREMATDN
501 KLLGEFDLVG IPPSPRGIPQ IEVTFDIDAN GIVTVSAKDK TTGKEQQITI
551 RSSGGLSEDD IQKVMREAEL HAQKDKERKD LIDTKNTADT TIYSIEKSLG
601 EYREKIPSEV AKEIEDAVSD LRSATSGDDL NEIKAKIDAA NKAIVSKIGE
651 MSNGGSGGGS APGGGAQKGS DEAPEAEYEE VKK

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
1 - 8	862.5249	861.5176	861.4742	50	0	-.MATAALLR.S Oxidation (M)
81 - 89	958.5598	957.5525	957.4879	67	0	K.VIENAEGAR.T
178 - 188	1256.7208	1255.7135	1255.6118	81	1	K.MKETAEAYLGK.S Oxidation (M)
193 - 206	1550.8776	1549.8703	1549.7889	53	0	K.AVVTVPAYFNDAQR.Q
215 - 222	872.5613	871.5540	871.4763	89	0	R.IAGLDVER.I
223 - 239	1809.9646	1808.9573	1808.8978	33	0	R.IINEPTAAALSYGMTNK.E Oxidation (M)
306 - 310	600.4723	599.4650	599.3755	149	0	R.LALQR.L
354 - 364	1370.7903	1369.7830	1369.7354	35	0	R.FETLVNH LIER.T
382 - 394	1417.8149	1416.8076	1416.7283	56	0	K.EVDEVLLVGGMTR.V
382 - 394	1433.8390	1432.8317	1432.7232	76	0	K.EVDEVLLVGGMTR.V Oxidation (M)
398 - 408	1192.7085	1191.7012	1191.6499	43	0	K.VQSVVSEIFGK.T
413 - 432	1955.1000	1954.0927	1953.9942	50	0	K.GVNPDEAVAMGAALQGGILR.G Oxidation (M)
489 - 494	701.4826	700.4753	700.3868	126	0	R.VLQGER.E
545 - 551	887.5645	886.5572	886.4872	79	0	K.EQQITIR.S
598 - 603	724.4592	723.4520	723.3551	134	0	K.SLGEYR.E
613 - 622	1146.6350	1145.6277	1145.5564	62	0	K.EIEDAVSDLR.S

Spot No.: **11**

Mascot score: **146** Sequence coverage %: **43**

NCBI accession No.: **gi| 312282567**

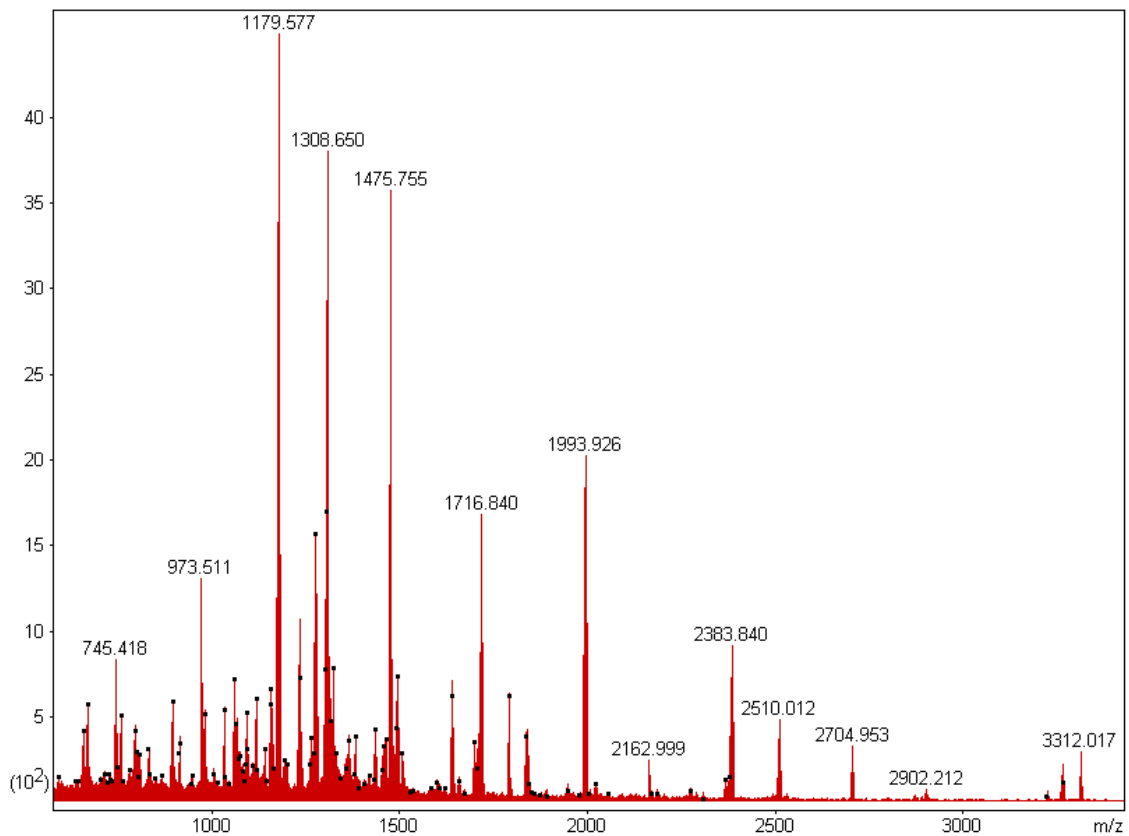
Matched peptides No.: **15**

Total peptides No.: **29**

Calculated Mr: **42944**

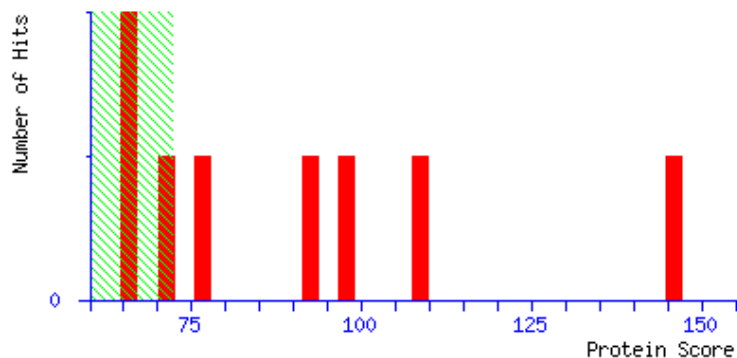
Calculated pI: **7.59**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASATFSVPK PSLQGFTEFS GLRSSASLP FGKKLSSDEF VSVVTFQTS
51 MGSSGGYRKG VTEAKLKVAI SGFGRIGRNF LRCWHGRKDS PLDVIAINDT
101 GGVKQASHLL KYDSTLGIFD ADVKPSGDAA LSVDGKIIQV VSNRNPSNLP
151 WKELGIDIVI EGTGVFVDRE GAGKHIEAGA KKVIITAPGK GDIPTYVGV
201 NADAYNPDEP IISNASCTTN CLAPFVKVLD QKFGIIKGTM TTTPSYTGDQ
251 RLLDASHRDL RRARAAALNI VPTSTGAAKA VALVLPNLKG KLNGIALRVP
301 TPNVSVVDLV VQVSKKTFAE EVNAAFRDAA EKELKGILEV CDEPLVSVDF
351 RCSDVSSTID SSLTMVMGDD MVKVIAWYDN EWGYSQRVVD LADIVANNWK
401

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
83 - 87	715.1768	714.1695	714.3020	-186	0	R.CWHGR.K
89 - 104	1613.7024	1612.6951	1612.8308	-84	0	K.DSPLDVIAINDTGGVK.Q
112 - 136	2541.2203	2540.2130	2540.2282	-6	1	K.YDSTLGI FDADV KPSGDAALSVDGK.I
137 - 144	928.4151	927.4078	927.5502	-153	0	K.IIQVVSNR.N
145 - 152	955.3390	954.3318	954.4923	-168	0	R.NPSNLPWK.E
153 - 169	1831.8466	1830.8393	1830.9727	-73	0	K.ELGIDIVIEGTGVFVDR.E
252 - 258	811.2828	810.2755	810.4348	-197	0	R.LLDASHR.D
280 - 289	1037.4606	1036.4533	1036.6644	-204	0	K.AVALVLPNLK.G
292 - 298	756.3273	755.3201	755.4653	-192	0	K.LNGIALR.V
299 - 315	1779.8339	1778.8266	1779.0142	-105	0	R.VPTPNVSVVDLVVQVSK.K
316 - 327	1382.5814	1381.5741	1381.6990	-90	1	K.KTFAEVNAEFR.D
317 - 327	1254.4878	1253.4805	1253.6040	-99	0	K.TFAEEVNAEFR.D
336 - 351	1847.8656	1846.8583	1846.9135	-30	0	K.GILEVCDEPLVSVDFR.C
374 - 387	1786.7127	1785.7054	1785.8111	-59	0	K.VIAWYDNEWGYSQR.V
388 - 400	1456.6131	1455.6058	1455.7722	-114	0	R.VVDLADIVANNWK.-

Spot No.: **12**

Mascot score: **85** Sequence coverage %: **35**

NCBI accession No.: **gi| 619894**

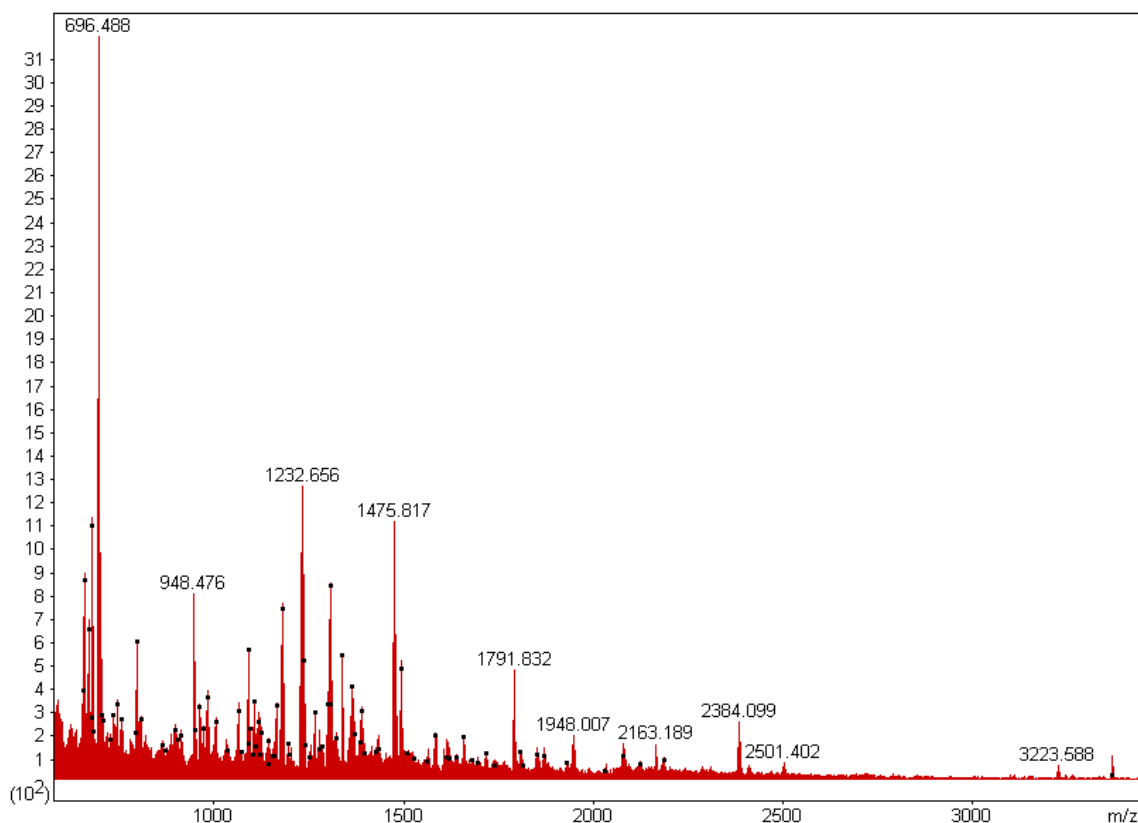
Matched peptides No.: **16**

Total peptides No.: **94**

Calculated Mr: **46805**

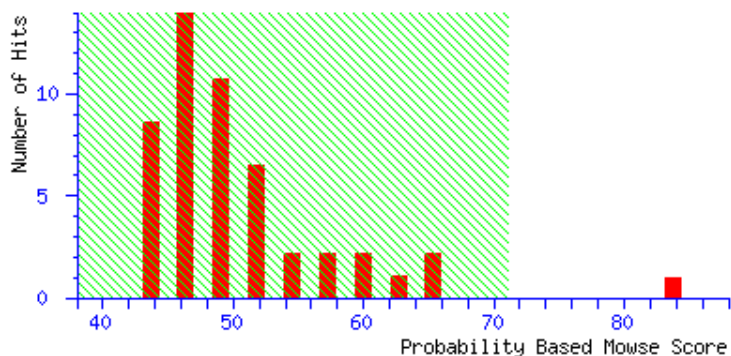
Calculated pI: **8.71**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MASGIMPSAG GKHRTDAMLV DKLPEEINEM KIRDDKAEKE MEAAVVDGNG
51 TEKGHIIVTT IGGKNGEPKQ TISYMAERVV GQGSFGIVFQ AKCLETGETV
101 AIKKVLQDKR YKNRELQTIR **LLDHPNVVAL RHCFFSTTEK** DELYLNVLVLE
151 YVPETVYRVL RHYSKANQQM PMIYVKLYTY QIFRALAYIH GIGVCHRDIK
201 PQNLLVNPHT HQLKLCDFGS AKVLVKGEPN ISYICSRYYR APELIFGATE
251 YTFDAIDIWSV GCVLAELLG QPLFPGESGV DQLVEIIKVL GTPTREEIKS
301 MNPNYTEFKF PQIKAHPWK IFHKRMPPEA VDLVSRLLOQ SPNLRSTALE
351 ACTHTFFDEL RDPKTRLPNG RPLPLFNFR PQELKGASAD LLNK**L**IP**EHA**
401 KKQCTFLGV

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 12	1122.5952	1121.5879	1121.5209	60	0 -.MASGIMPSAGGK.H Oxidation (M)
2 - 14	1284.6230	1283.6157	1283.6404	-19	1 M.ASGIMPSAGGKHR.T Oxidation (M)
13 - 22	1201.6383	1200.6310	1200.5921	32	1 K.HRTDAMLVDK.L Oxidation (M)
23 - 31	1118.5542	1117.5469	1117.5325	13	0 K.LPEEINEMK.I Oxidation (M)
54 - 64	1095.5599	1094.5526	1094.6448	-84	0 K.GHIIVTTIGGK.N
65 - 78	1639.8497	1638.8424	1638.7671	46	1 K.NGEPKQTISYMAER.V Oxidation (M)
105 - 110	758.4561	757.4488	757.4446	6	1 K.VLQDKR.Y
121 - 140	2384.0991	2383.0918	2383.2107	-50	1 R.LLDHPNVVALRHCFFSTTEK.D
162 - 176	1869.9043	1868.8970	1868.8913	3	1 R.HYSKANQQMPMIYVK.L 2 Oxidation (M)
166 - 176	1322.6758	1321.6685	1321.6522	12	0 K.ANQQMPMIYVK.L
177 - 184	1103.5514	1102.5441	1102.5811	-34	0 K.LYTYQIFR.A
215 - 222	897.4624	896.4552	896.4062	55	0 K.LCDFGSAK.V
310 - 320	1388.7377	1387.7304	1387.7513	-15	1 K.FPQIKAHPWK.I
315 - 324	1300.6208	1299.6135	1299.6989	-66	1 K.AHPWHKIFHK.R
325 - 336	1369.6896	1368.6823	1368.7184	-26	1 K.RMPPEAVDLVSR.L
395 - 401	807.4489	806.4416	806.4650	-29	0 K.LIPEHAK.K

Spot No.: **13**

Mascot score: **81** Sequence coverage %: **21**

NCBI accession No.: **gi| 116055771**

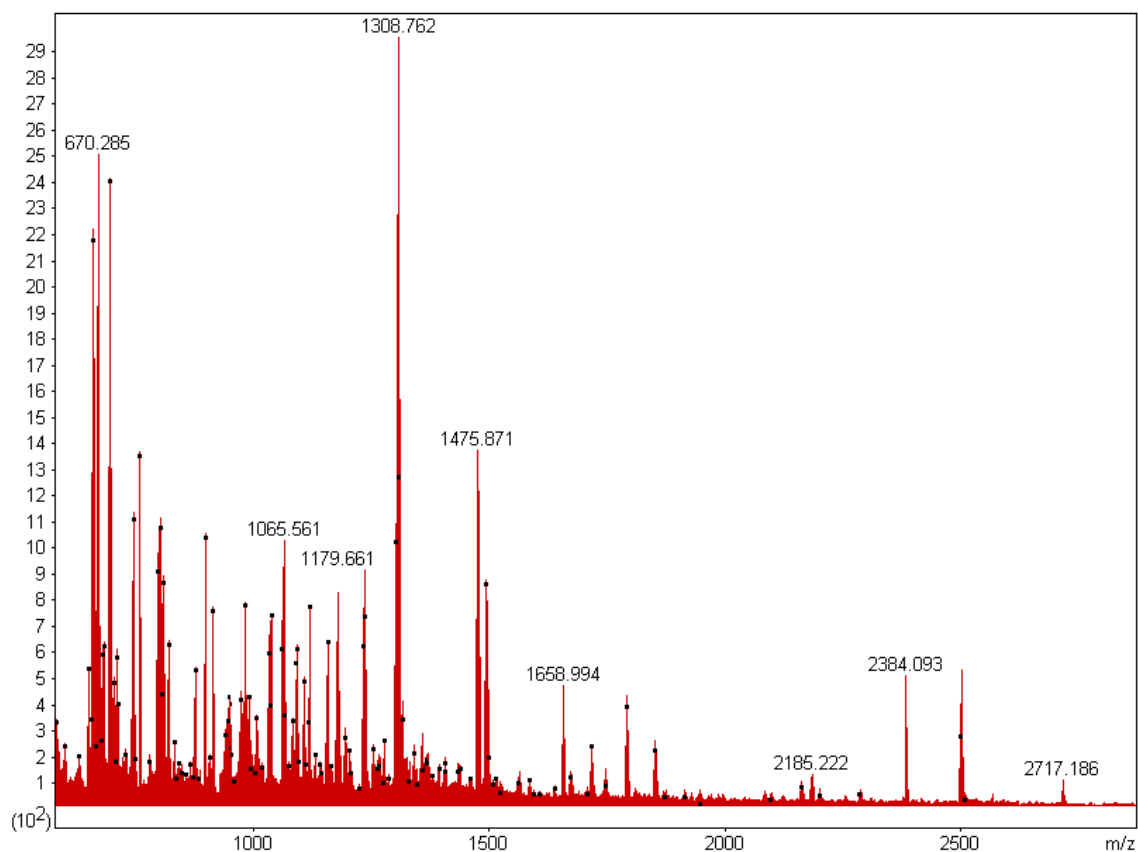
Matched peptides No.: **12**

Total peptides No.: **126**

Calculated Mr: **63246**

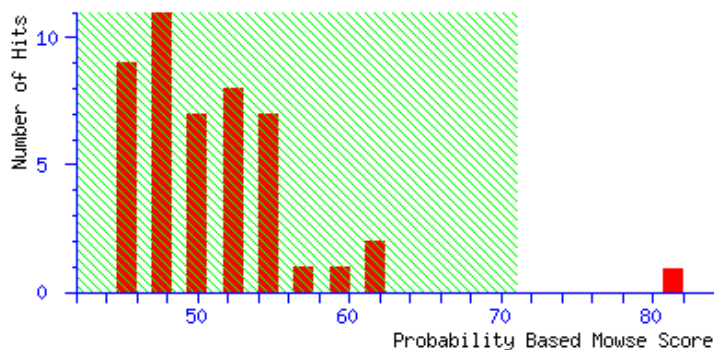
Calculated pI: **9.35**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Red**

1 **MTNDTLLITD** **KLK**ALTALTP PLR**SSASSPI** **STAFPR**FDAR ATARASAHGD
51 VWT**PKS**NDRT RRR**TAA**MLIS QFFILG**PRGD** **ALAH**R**DFR**GD VFSTS**RED**FY
101 RSTR**FW**SSNE RSSVRSNRTT KTNAS**PPP**AF ERDGVN**YL**HV KASGL**YF**VAT
151 TTSNG**SP**SAV LELLGRLARL VKDYCGALTE DAVR**KN**STLV SEVIDEAM**DY**
201 GYAQT**T**STEM LRERVCSE**FV** ETGDDLAGVL VSAKADGARA VAQGA**FK**AGQ
251 KVEAVLE**KH**NL GVKV**NFP**TKA **AINL****HAASV** **ASGV****VR**SSS **ATQ**SVVSAS
301 **SAT**TRDEIFV DIIEKLN**V**TF SANGDV**V**TSE INGH**I**QVR**N**F LQ**G**AG**T**K**V**K
351 **AL**SE**DL**T**I**GG **K**GTSARGNYA GVILDDCN**F**H ESAKLE**Q**FDV DR**T**IT**L**R**P**PQ
401 GEFSLM**NY**RS **AGH****F**PP**F**KV IAI**F**DES**V**PY KVG**V**EL**K**LFA D**F**PS**K****H**CT**G**
451 **LIV****H**L**P**IP**E**KG ALGAT**G**RL**P**K SV**F**SG**S**Q**H**VM F**D**AAEK**Q****I**V**V** **Q****F**K**F**AG**G**S**D**
501 HECS**V**Q**I**ALQ SERIP**N**VRRE IG**P**LS**L**S**F**Q**I** P**T**FCASALAV R**Y**LQ**V**V**G**NR**P**
551 LD**P**LD**E**APP R**A**PH**R**W**I**RYL TK**SS****S****I****V****V****R****V**

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
1 - 11	1252.6521	1251.6448	1251.6017	34	0 -. MTNDTLLITDK. L
1 - 13	1493.8615	1492.8542	1492.7807	49	1 -. MTNDTLLITDKL. A
24 - 36	1307.7718	1306.7645	1306.6517	86	0 R. SSASSPISTAFPR. F
79 - 88	1157.6360	1156.6287	1156.5737	48	1 R. GDALAHDFR. G
270 - 286	1658.9937	1657.9864	1657.8569	78	0 K. AAINLHAASVASGVVR. V
287 - 294	807.3897	806.3824	806.4134	-38	0 R. VSSSATQK. S
295 - 305	1065.5607	1064.5534	1064.5462	7	0 K. SVVSASSATTR. D
350 - 361	1234.7108	1233.7035	1233.6275	62	0 K. WALSEDLTIGGK. G
410 - 419	1092.5533	1091.5460	1091.5764	-28	0 R. SAGHFPPFK. V
446 - 459	1562.8788	1561.8715	1561.8650	4	0 K. HTCTGLIVHLPIEK. G
487 - 493	948.4624	947.4551	947.5229	-72	0 K. QIVVQFK. K
573 - 579	797.3456	796.3383	796.4079	-87	0 K. SSIVVR. V

Spot No.: **14**

Mascot score: **84** Sequence coverage %: **27**

NCBI accession No.: **gi| 147826444**

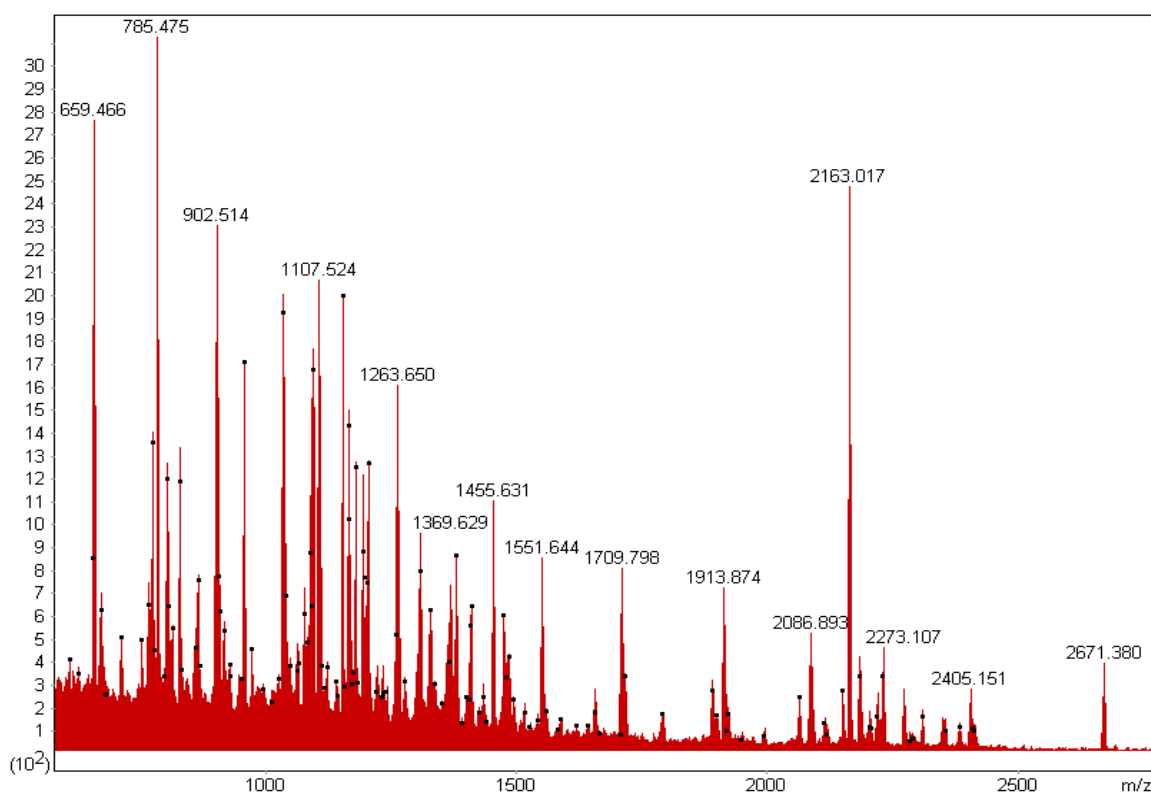
Matched peptides No.: **23**

Total peptides No.: **81**

Calculated Mr: **100047**

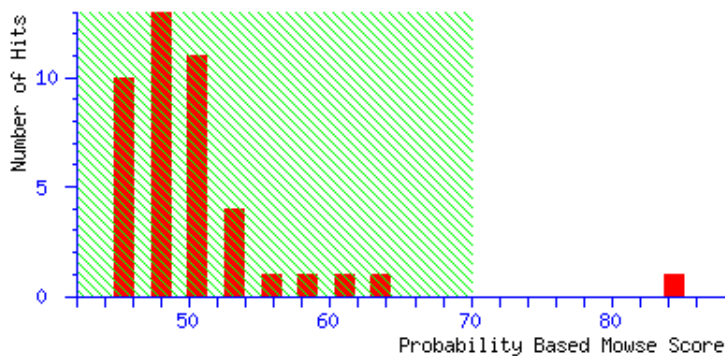
Calculated pI: **9.49**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MSPADEEKTA** **FITPHDLYCY** **RVMPFGLKNA** GATYQRLMTN IFKPLIGHTV
 51 **EVYIDDIVVK** **SKTREEHVLH** **LQEVFHLLRK** **YSMKLNPSKC** **VFGVSAGKFL**
 101 **GFMVSRGIE** **VSPDQIKAVM** **ETPPRSKKE** LQSLTGKLVA LGRFIARFTN
 151 **ELQPFLLVIR** **KAGANGWMD** **CQNAFEKIKH** CLTQPPILSS PIPKEKLYMY
 201 **LVVSEWAINA** **VLFRCPSPKE** **QKPIYYVNRA** LADVETRYSK **MELTALALRS**
 251 **AAQKLRPFSQ** **AHPVVVLTQ** **PLRNILHKPD** **LTGRMLQWAI** **ELSKFRIEFQ**
 301 **PRLSMKGQVM** **VDFVLKYSRR** **PSQRQEHSEK** **EWWTLRVDGA** **SRSSGSGVGL**
 351 **LLQSPTGEHL** **EQAIGLGFPA** **SNNEAEYEA** LSGLALALAL SVSKLRVYSD
 401 **SQLVVRHVQK** **EYEAKDECMA** **QYLAKWTIEK** **IKRTENGRAD** ALAGIAASLP
 451 **IKETTFLPIH** **VQANSSVAET** **STCNAIEASQ** **PDSQEWNTDI** IQYLRTSTLP
 501 **EDRKQAHKIR** **VQATRFTLIG** **GHLYKRSFTG** **PYLRCLSHSK** ALYVLAEMHE
 551 **GVCGNHSGGR** **SLTHRAHSQG** **YYWPTMKKDA** **AAAIKKCDKC** QKHAPIPHMS
 601 **SKTLKPISGP** **WPFAQWGM** **DI VGPLPTAPAQ** **KKFLLVATDY** FSKWVEVEAY
 651 **ASIKDKDVTK** **FVWKNIIICRF** **GIPQTIIAYN** **GPQFDSIAFR** **NFCSELNIRN**
 701 **SYSTPRYPQS** **NGQAEATNKT** **QITALKKRL** **E QAKGKWVEEL** PGVLWAYRTT
 751 **PECPTGNTPF** **ALVYGMDAII** **PTEIGLPTIR** **TEAGKQDDAN** **TKLGRNLDWA**
 801 **DKVREAAASIR** **MPDYQQRASA** **HYNRKAKPRS** **FKNGTLVLRK** EGPYIVSKSS
 851 **ESGAYHLQKL** **DGTPLLRPWN** **VSNLKQYYQ**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 8	906.4874	905.4801	905.3800	111	0	-.MSPADEEK.T
9 - 21	1656.6855	1655.6782	1655.7766	-59	0	K.TAFITPHDLYCYR.V
22 - 28	807.4375	806.4302	806.4361	-7	0	R.VMPFGLK.N Oxidation (M)
80 - 84	672.4185	671.4112	671.3312	119	1	R.KYSMK.L Oxidation (M)
99 - 117	2150.9782	2149.9709	2150.1194	-69	1	K.FLGMVSRGIEVSPDQIK.A
108 - 126	2064.0407	2063.0334	2063.0721	-19	1	R.GIEVSPDQIKAVMETPPPR.S
138 - 143	628.4320	627.4247	627.4068	29	0	K.LVALGR.F
161 - 177	1913.8741	1912.8668	1912.8196	25	1	R.KAGANGWMDSCQNAFEK.I
238 - 249	1411.6248	1410.6175	1410.7540	-97	1	R.YSKMELTALALR.S Oxidation (M)
274 - 284	1263.6499	1262.6426	1262.7095	-53	0	R.NILHKPDLTGR.M
285 - 294	1234.5768	1233.5695	1233.6427	-59	0	R.MLQWAIELSK.F Oxidation (M)
307 - 319	1541.6522	1540.6449	1540.8072	-105	1	K.GQVMVDFVLKYSR.R
317 - 324	1049.5163	1048.5090	1048.5526	-42	1	K.YSRRPSQR.Q
331 - 342	1475.6816	1474.6743	1474.7317	-39	1	K.EWWTLRVDGASR.S
397 - 406	1165.5628	1164.5555	1164.6139	-50	0	R.VYSDSQLVVR.H
426 - 432	917.4913	916.4840	916.5382	-59	1	K.WTIEKIK.R
670 - 690	2355.1044	2354.0971	2354.2059	-46	0	R.FGIPQTIIAYNGPQFDSIAFR.N
707 - 719	1407.6396	1406.6323	1406.6426	-7	0	R.YPQSNQAEATNK.T
707 - 726	2163.0174	2162.0101	2162.0967	-40	1	R.YPQSNQAEATNKTQITALK.K
720 - 727	902.5141	901.5068	901.5596	-59	1	K.TQITALKK.R
781 - 792	1277.6356	1276.6283	1276.5895	30	1	R.TEAGKQDDANTK.L
826 - 832	833.4304	832.4232	832.4919	-83	1	K.AKPRSFK.N
860 - 879	2405.1513	2404.1440	2404.2539	-46	1	K.LDGTPLLRPWNVSNLKQYYQ.-

Spot No.: **15**

Mascot score: **102** Sequence coverage %: **33**

NCBI accession No.: **gi| 27752799**

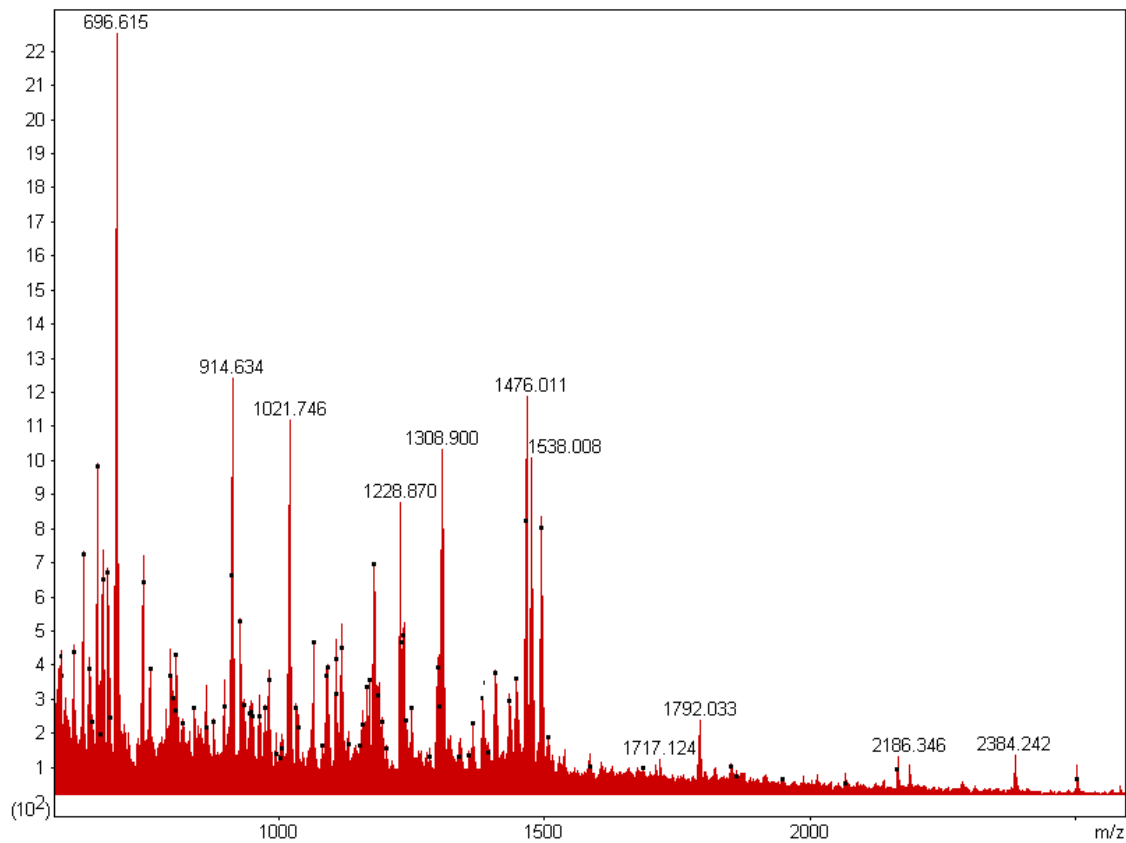
Matched peptides No.: **18**

Total peptides No.: **86**

Calculated Mr: **47920**

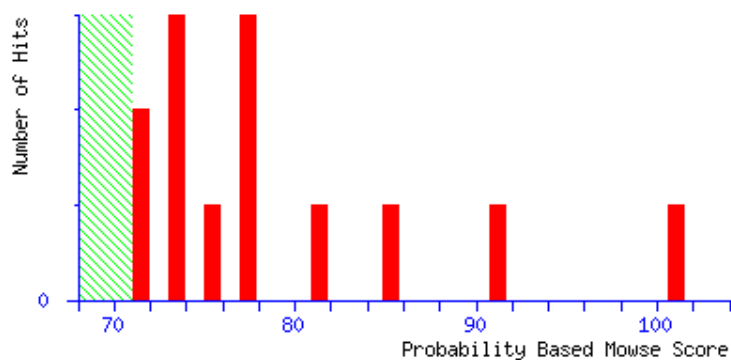
Calculated pI: **6.12**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **KLTYTPEYE TKDIDLAAF** RVTPQPGVPP EEAGAAVAEE SSTGTWTTVW
51 TDGLTSLDRY KGRCYHIEPV PGEETQFIAY VAYPLDLFEE GSVTNMFTSI
101 VGNVFGFKAL **AALRLEDLRI** PPAYTK**TFQG** **PPHGIQVERD** KLNKYGRPLL
151 GCTIKPKLGL SAKNYGRAVY **ECLRGGLDFT** **KDDENVNSQP** **FMRWRDRFLF**
201 CAEAIYKSQA ETGEIKGHYL NATAGTCEEM IKRAVFAREL GVPVIMHDYL
251 TGGFTANTSL SHYCRD**NGLL** **LHIHRAMHAV** **IDRQKNHGMH** **FRVLAKALRL**
301 **SGGDHIHAGT** **VVGKLEGDRE** **STLGFVDLLR** DDYVEKDRSR GIFFTQDWVS
351 LPGVLPVASG GIHVWHMPAL TEIFGDDSVL QFGGGTLGHP WGNAPGAVAN
401 RVALEACVQA **RNEGRDLAVE** **GNEIIREACK**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 12	1407.9132	1406.9059	1406.6605	174	0	K.LTYTPEYETK.D
13 - 21	1021.7456	1020.7383	1020.5240	210	0	K.DTDILAAFR.V
109 - 114	614.5430	613.5357	613.3911	236	0	K.ALAALR.L
109 - 119	1240.8806	1239.8733	1239.7299	116	1	K.ALAALRLEDLRI
115 - 119	645.5053	644.4980	644.3493	231	0	R.LEDLR.I
127 - 139	1466.0006	1464.9933	1464.7474	168	0	K.TFQPPHGIQVERD
168 - 174	910.6410	909.6337	909.4378	215	0	R.AVYECLR.G
175 - 193	2186.3457	2185.3384	2184.9746	167	1	R.GGLDFTKDDENVNSQPFMR.W Oxidation (M)
194 - 197	632.5038	631.4965	631.3190	281	1	R.WRDR.F
266 - 275	1187.8568	1186.8495	1186.6571	162	0	R.DNGLLLHIHR.A
276 - 283	928.6674	927.6602	927.4596	216	0	R.AMHAVIDR.Q Oxidation (M)
284 - 292	1170.8223	1169.8150	1169.5512	226	1	R.QKNHGMHFR.V Oxidation (M)
286 - 292	914.6343	913.6270	913.3977	251	0	K.NHGMHFR.V Oxidation (M)
300 - 314	1448.0036	1446.9963	1446.7579	165	0	R.LSGGDHIHAGTVVGK.L
320 - 330	1249.8752	1248.8679	1248.6714	157	0	R.ESTLGFVDLLR.D
412 - 426	1685.1143	1684.1070	1683.8540	150	1	R.NEGRDLAVEGNEIIR.E
416 - 426	1228.8698	1227.8625	1227.6459	176	0	R.DLAVEGNEIIR.E
416 - 430	1717.1236	1716.1163	1715.8512	155	1	R.DLAVEGNEIIREACK.-

Spot No.: **16**

Mascot score: **82**

Sequence coverage %: **21**

NCBI accession No.: **gi| 226463312**

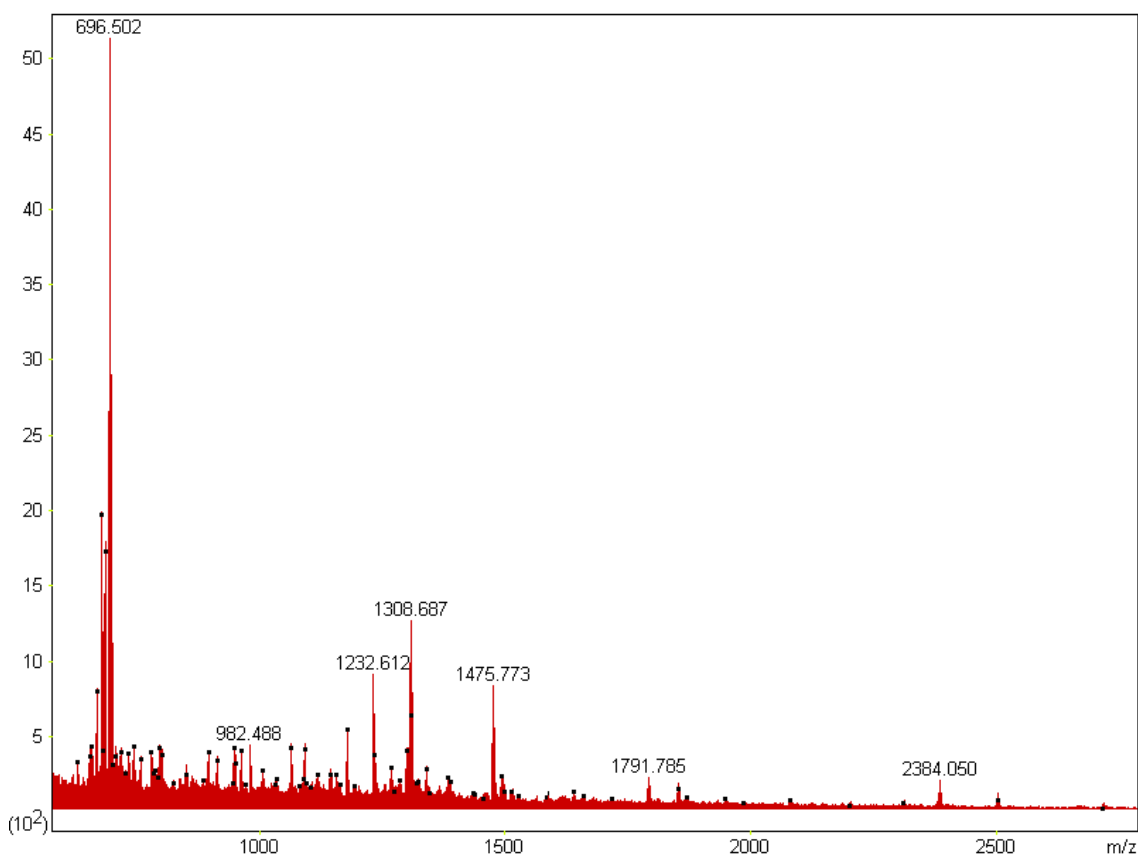
Matched peptides No.: **28**

Total peptides No.: **84**

Calculated Mr: **111653**

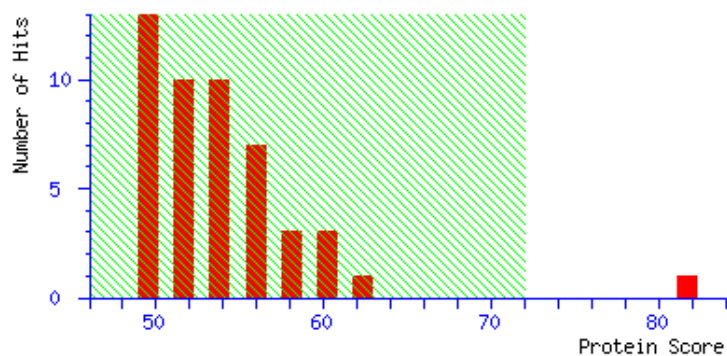
Calculated pI: **9.23**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MATTMTSSPL QDRSNDAKLS PFSTRSKSVL GASAVAKSAL SKKSKSVVYQ
51 DENAHATPTK SSKSSTSAAE KSLDKVADEN DKLRDLNKRL LAELKNARVS
101 AKDAADAAAA NASASVENGE SVEKLTTQND ALRELNRMKI AHLKAAKLEA
151 SSSAAEIDSL RAANEASSKE LAKALQKAET KYAFQIADAL TATAKAQEAA
201 AKANAHAADL RASADAERRD SATLKSLNDR ALAELKESRD AMESMNAAGA
251 TLSESMKLAE SQRDGLQATN ASLTTELRAA KKASAAAVAA AEANVLKKHA
301 KAMQEAKVAA AKENEMLREV NAKLVRTLKQ AQADSVGVAD AGDQLKALNA
351 KLLAELKKAR AEANDAKNSS EGSAKAAAASA HEMLKSVIHA RAELLAANAQ
401 ALSELQFMKE ASEHAHAHAV DAAARLSDAE HQRDSLKALN VNVLNKLEA
451 KAETAKAASD AAAALKRHSE LAADRERVEE QRANLQELNR RLISEARRAR
501 AEFGRELAR AQMEKAKEDA EASVKAHAAN AEALKAQVAE KHAELARIEK
551 QTAKKIAEKE IAVAKAQAAE ADAEAKAAAA QLTMNGNLES QKKEAAGVLE
601 KVTQEKQALS SRLEIALQEL LEESAALKDA RESVKSLDAK LHAAACELKD
651 SCAGLTAASD ALVAAAEANA AKDKRVKMLE KECVKLTNAF AESEIHRMD
701 LEAAVEAHAQ ETAKTEKLEN VLKMTKIAAT HKHEQHKATT AKLHGEIAGA
751 KKAEAAAKAL ARAERDAAAD ATKTRDAAAK EAARANDRAK AATADALAAK
801 AAAKEETAAA KREIADAKN AARSAKASAA AAAAAAAAEK RACAAEREMA
851 AAASRAAKAV KAAEDAATAK VAVADKRLAQ TMAKHAASEH EAATQRAAAA
901 KLESALAAAN AALTTANAAN ATLREQDAKR HEKELARVVA KADAHVAELA
951 AELVAARATV NAANAELARR SNDLRRMKEI SGSVSRSLKA DASDAAARAD
1001 AMCVEVTGLE MRTESLESAL KAADAALAAA NREKCAAKRR EKFALFGLAI
1051 AAVRALLSAL AKARK

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Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
1 - 13	1438.6840	1437.6767	1437.6592	12	0	-.MATTMTSSPLQDR.S
1 - 18	1985.9572	1984.9499	1984.8830	34	1	-.MATTMTSSPLQDRSNDAK.L 2 Oxidation (M)
2 - 13	1307.6766	1306.6693	1306.6187	39	0	M.ATTMTSSPLQDR.S
2 - 13	1323.6473	1322.6400	1322.6136	20	0	M.ATTMTSSPLQDR.S Oxidation (M)
46 - 60	1659.7658	1658.7585	1658.7900	-19	0	K.SVVYQDENAHATPTK.S
61 - 71	1082.5637	1081.5564	1081.5251	29	1	K.SSKSSTSAAEK.S
64 - 71	780.4469	779.4396	779.3661	94	0	K.SSTSAAEK.S
96 - 102	745.4670	744.4597	744.4242	48	1	K.NARVSAK.D
134 - 138	659.4297	658.4224	658.3762	70	1	R.ELNRK.M
139 - 144	728.4388	727.4316	727.4051	36	0	K.MIAHLK.A Oxidation (M)
139 - 147	982.4880	981.4807	981.5793	-100	1	K.MIAHLKAAK.L
258 - 263	703.4284	702.4211	702.3660	78	0	K.LAESQR.D
352 - 357	686.4757	685.4684	685.4374	45	0	K.LLAE LK .K
361 - 367	718.4648	717.4575	717.3293	179	0	R.AEANDAK.N
386 - 391	682.4060	681.3988	681.3922	10	0	K.SVIHAR.A
392 - 409	1947.9517	1946.9444	1947.0135	-35	0	R.AELLAANAQALSELQFMK.E
452 - 466	1388.7027	1387.6954	1387.7307	-25	1	K.AETAKAASDAAAALK.R
476 - 482	945.5107	944.5034	944.4675	38	1	R.ERVEEQR.A
542 - 547	696.5019	695.4947	695.3714	177	0	K.HAE LAR .I
636 - 649	1526.7733	1525.7660	1525.7922	-17	1	K.SLD AKLHAAACE LK.D
678 - 685	1036.5406	1035.5333	1035.5093	23	1	K.MLE KECVK .L
763 - 773	1118.5438	1117.5365	1117.5363	0	1	R.AERDAAADATK.T
812 - 818	802.4746	801.4673	801.4344	41	1	K.REIADAK.K
827 - 841	1300.5774	1299.5701	1299.6894	-92	1	K.ASAAAAAAAAAAEKR.A
848 - 858	1092.5406	1091.5333	1091.5393	-5	1	R.EMAAAASRAAK.A Oxidation (M)
859 - 870	1145.5778	1144.5705	1144.6088	-33	1	K.AV KAAEDAATAK .V
871 - 877	758.4871	757.4798	757.4446	46	1	K.VAVADKR.L
934 - 941	885.4759	884.4686	884.5443	-86	1	K.ELAR VVAK .A

Spot No.: **17**

Mascot score: **84** Sequence coverage %: **42**

NCBI accession No.: **gi| 159475545**

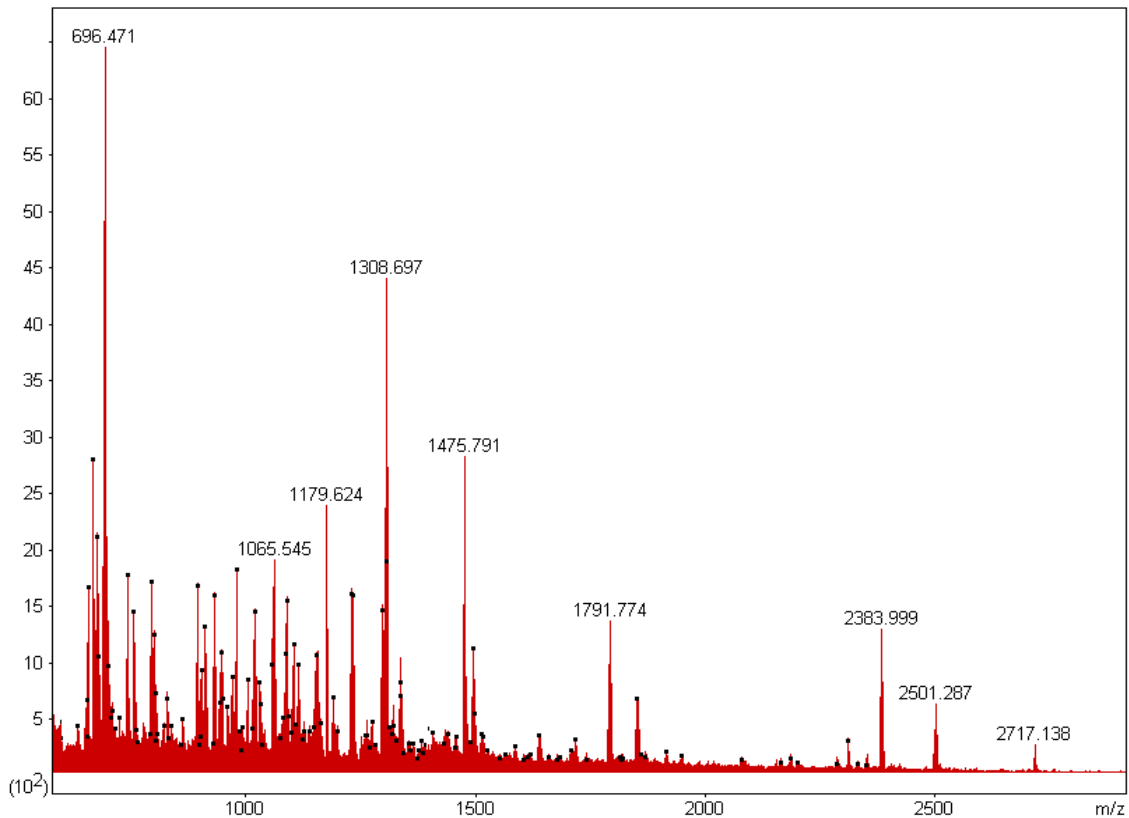
Matched peptides No.: **18**

Total peptides No.: **122**

Calculated Mr: **40712**

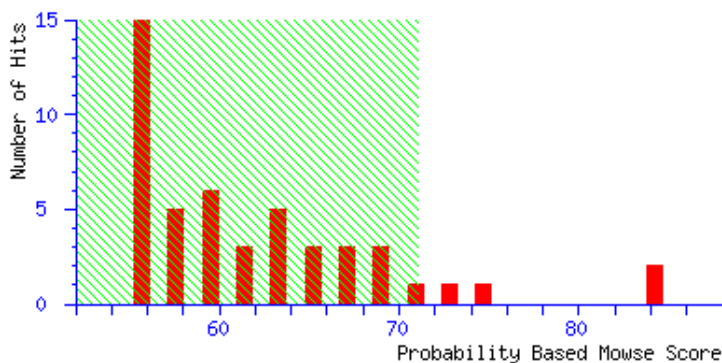
Calculated pI: **8.87**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MPLWVDKYRP NSFDFKVVHK DIADNLKKLV ATGDFPHTLF YGPPGAGG**KT**
 51 **LVMALLRAIY GAGVEKVRVE** TKPWKIDLPS RKLEVELTTL SSNHHLELNP
 101 ADVGSNDRYV VQEIIEKEMAR **SRPMGADGSR GFKVLVLNEV DRLSKEAQQG**
 151 **LRRTMEKYSS ACRLIMVCSN** VSKVMEPVRS **RCLCVRVAAP SDAQVMEVLQ**
 201 **GVAKKENLVL PEAFARVVD** YAGRNLRRAL LCLEVCRAQQ YPFGDSQEPQ
 251 **RADWELYIAE VAKNIMDEQS** PKQLYLVRSK LYELLANCVP PELIMRQLTF
 301 ELLKRMDDEI KLETVSYAAQ FEQRLQEGAK **AIFHLEAFVA RVMSNVKTYL**
 351 **VSCGLA**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence	
49 - 57	1060.5631	1059.5558	1059.6474	-86	1 K.KTLMALLR.A	Oxidation (M)
50 - 57	932.4764	931.4692	931.5525	-89	0 K.TLMALLR.A	Oxidation (M)
58 - 66	907.5123	906.5051	906.4811	26	0 R.AIYGAGVEK.V	
121 - 130	1033.5423	1032.5350	1032.4771	56	0 R.SRPMGADGSR.G	
121 - 133	1365.6888	1364.6815	1364.6619	14	1 R.SRPMGADGSRGFK.V	
131 - 142	1388.7148	1387.7075	1387.7823	-54	1 R.GFKVLVLNEVDR.L	
134 - 145	1384.7058	1383.6985	1383.8085	-80	1 K.VLVLNEVDRLSK.E	
143 - 152	1129.5589	1128.5516	1128.6251	-65	1 R.LSKEAQQGLR.R	
154 - 163	1232.6222	1231.6149	1231.5325	67	1 R.TMEKYSSACR.L	
174 - 181	973.5272	972.5200	972.5175	3	1 K.VMEPVRSR.C	
174 - 181	989.5272	988.5200	988.5124	8	1 K.VMEPVRSR.C	Oxidation (M)
182 - 204	2501.2869	2500.2796	2500.2600	8	1 R.CLCVRVAAPSDAQVMEVLQGVAK.K	
206 - 217	1329.6766	1328.6693	1328.7088	-30	0 K.ENLVLPEAFAR.V	
252 - 263	1407.7185	1406.7112	1406.7081	2	0 R.ADWELYIAEVAK.N	
264 - 272	1077.5257	1076.5184	1076.4808	35	0 K.HIMDEQSPK.Q	Oxidation (M)
331 - 341	1273.5961	1272.5888	1272.6979	-86	0 K.AIFHLEAFVAR.V	
331 - 347	1947.9157	1946.9084	1947.0400	-68	1 K.AIFHLEAFVARVMSNVK.T	Oxidation (M)
342 - 356	1657.8564	1656.8491	1656.8215	17	1 R.VMSNVKTYLVSCGLA.-	Oxidation (M)

Spot No.: **18**

Mascot score: **107**

Sequence coverage %: **20**

NCBI accession No.: **gi| 4586021**

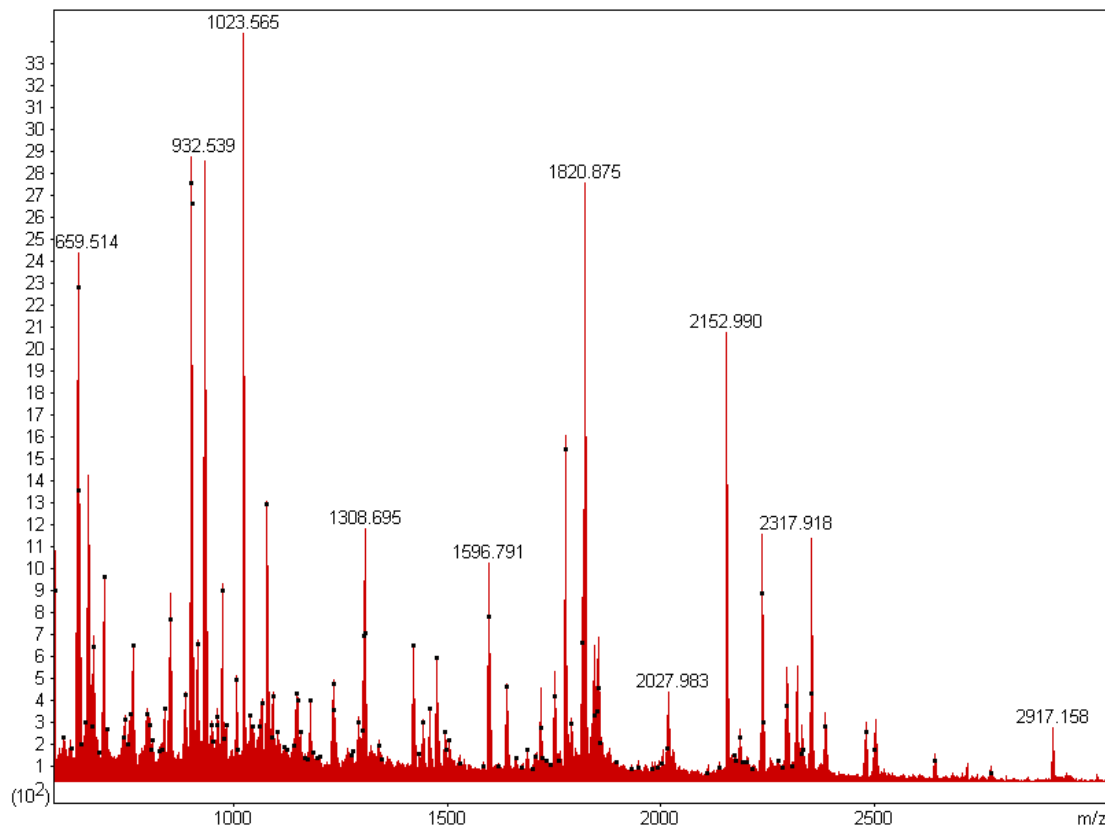
Matched peptides No.: **23**

Total peptides No.: **71**

Calculated Mr: **98720**

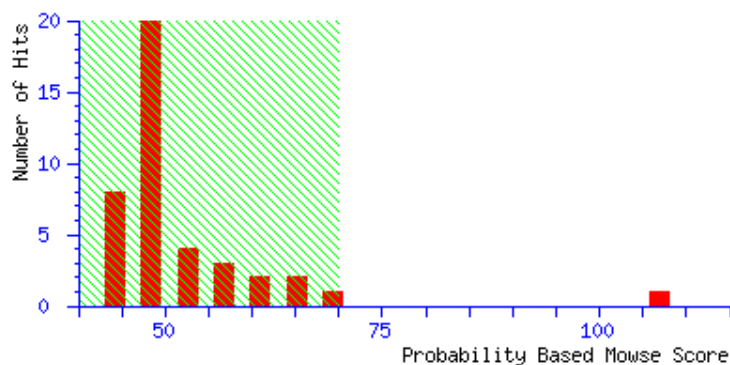
Calculated pI: **5.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASEHPFKGI FTTLPKPGGG EFGKFYSLPA LNDPRVDKLP YSIRILLESA
51 IRNCDNFQVT KEDVEKIIDW EKTSPKQVEI PFKPARVLLQ DFTGVPVAVD
101 LACMRDAMNK LGSDSNKINP LVPVDLVIDH SVQVDVARSE NAVQANMELE
151 FQRNKERFAF LKWGSTAFQN MLVVPPGSGI VHQVNLEYLG RVVFNTKGLL
201 YPDSVVGTDS HTTMIDGLGV AGWGVGGIEA EATMLGQPMS MVLPGVVGFK
251 LAGKMRNGVT ATDLVLTVTQ MLRKHGTVGK FVEFYGNMS GLSLADRATI
301 ANMSPEYGAT MGFFPVDHVT LQYLKLTGRS DETVAMIEAY LRANNMFVDY
351 NEPQQDRVYS SYLELNLDV EPCISGPKRP HDRVTLKEMK ADWHSCLDSK
401 VGFKGFAIPK EAQEKVVNFS FDGQPAELKH GSVVIAAITS CTNTSNPSVM
451 LGAGLVAKKA CDLGLQVKPW IKTSLAPGSG VVTKYLLKSG LQEYLNEQGF
501 NIVVGCTTC IGNSGEINES VGAAITENDI VAAAVLSGNR NFEGRVHPLT
551 RANYLASPPL VVAYALAGTV NIDFETEPIG KGKNGKDVFL RDIWPTTEEI
601 AEVVQSSVLP DMFRATYESI TKGNPMWNKL SVPENTLYSW DPNSTYIHEP
651 PYFKDMTMDP GPHNVKDAY CLLNFGDSIT TDHISPAGNI QKDSPAAKFL
701 MERGVDRKDF NSYGSRRGND EIMARGTFAN IRIVNKLMNG EVGPKTVHIP
751 SGEKLSVFDA AMRYKSSGED TIILAGAEYG SGSSRDWAAK GPMLQGVKAV
801 IAKSFERIHR SNLVGMGIIP LCFKSGEDAD TLGLTGHERY TIHLPTDISE
851 IRPGQDVTVT TDNGKSTCT VRFDTEVELA YFNHGGILPY VIRNLSKQ

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
25 - 35	1292.7140	1291.7067	1291.6561	39	0 K.FYSLPALNDPR.V
45 - 52	914.6371	913.6298	913.5596	77	0 R.ILLES A .N
77 - 86	1184.7371	1183.7298	1183.6713	49	0 K.QVEI PFK PAR.V
192 - 197	707.4732	706.4660	706.4014	91	0 R.VV FNTK .G
330 - 342	1497.7968	1496.7895	1496.7181	48	0 R.SDETVAMIEAYLR.A
330 - 342	1513.7895	1512.7822	1512.7130	46	0 R.SDETVAMIEAYLR.A Oxidation (M)
343 - 357	1840.8405	1839.8332	1839.7846	26	0 R.ANNMFVDYNEPQQDR.V
401 - 410	1063.5641	1062.5568	1062.6226	-62	1 K.VGFKGF AI PK.E
541 - 545	622.4040	621.3968	621.2871	177	0 R.NFEGR.V
546 - 551	722.5078	721.5005	721.4235	107	0 R.VHPLTR.A
623 - 629	862.4907	861.4834	861.3803	120	0 K.GN PM WNK.L Oxidation (M)
708 - 716	1073.5702	1072.5629	1072.4938	64	1 R.KDFNSYGS R .R
709 - 716	945.4952	944.4879	944.3988	94	0 K.DFNSYGS R .R
717 - 725	1077.5212	1076.5139	1076.5033	10	1 R.RGNDEIMAR.G Oxidation (M)
726 - 732	778.5166	777.5094	777.4133	124	0 R.GTFANIR.I
726 - 736	1232.6783	1231.6710	1231.7037	-27	1 R.GTFANIRIVNK.L
746 - 754	967.5365	966.5292	966.5134	16	0 K.TVHIPS G EK.L
755 - 763	1009.5864	1008.5791	1008.5062	72	0 K.LSVF DA AMR.Y
755 - 763	1025.5695	1024.5622	1024.5012	60	0 K.LSVF DA AMR.Y Oxidation (M)
766 - 785	1956.9583	1955.9510	1955.9072	22	0 K.SSGEDTIILAGAEYSGSS R .D
791 - 798	829.3971	828.3898	828.4528	-76	0 K.GPMLQ G VK.A
825 - 839	1557.7875	1556.7802	1556.7067	47	0 K.SGEDADTLGLT G HER.Y
866 - 872	870.5138	869.5065	869.4066	115	0 K.S FT CTVR.F

Spot No.: **19**

Mascot score: **155** Sequence coverage %: **31**

NCBI accession No.: **gi| 18407650**

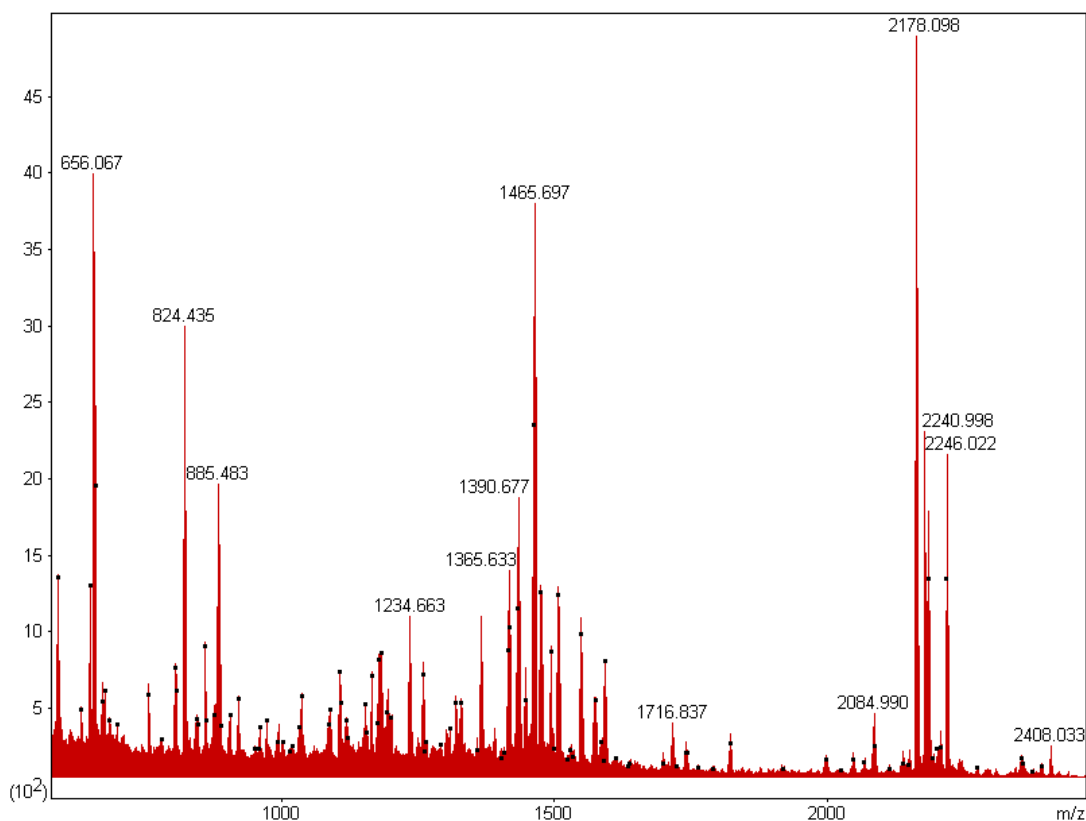
Matched peptides No.: **27**

Total peptides No.: **71**

Calculated Mr: **86345**

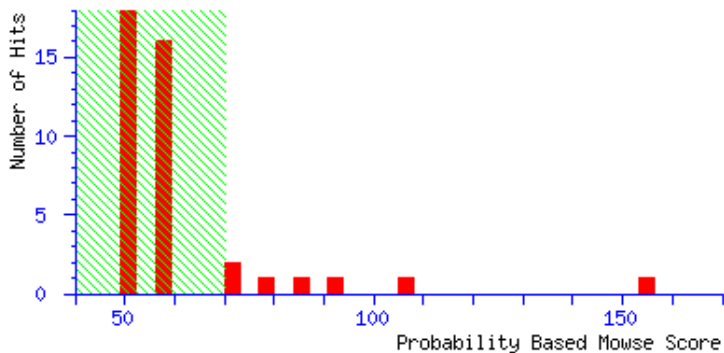
Calculated pI: **5.43**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAADALRISS SSSGSLVCNL NGSQRRPVLL PLSHRATFLG LPPRASSSSI
51 SSSIPQFLGT SRIGLGSSKL SQKKKQFSVF AAAEAEAKRA VPLKDYRNIG
101 IMAHIDAGKT TTTERILYTT GRNYKIGEVH EGTATMDWME QEQERGITIT
151 SAATTTTWDK HRINIIDTPG HVDFLEVER ALRVLDGAIC LFDSVAGVEP
201 QSETVWRQAD KYGVPRICFV NKMDRLGANF FRTRDMIVTN LGAKPLVLQI
251 PIGAEDVFKG VVDLVRMKAI VWSGEELGAK FSYEDIPEDL EDLAQEYRAA
301 MMELIVLDD EVMENYLEGV EPDEATVKRL VRKGTITGKF VPILCGSAFK
351 NKGVQPLLDA VVDYLPSPVE VPPMNGTDPE NPEITIIIRKP DDDEPFAGLA
401 FKIMSDPFVG SLTFVRVYSG KISAGSYVLN ANKGKKERIG RLLEMHANSR
451 EDVKVALTGD IIALAGLKDT ITGETLSDPE NPVLERMDF PDPVIKVAIE
501 PKTKADIDKM ATGLIKLAQE DPSFHSRDE EMNQTVIEGM GELHLEIIVD
551 RLKREFKVEA NVGAPQVNYR ESISKIAEVK YTHKKQSGGQ GQFADITVRF
601 EPLEAGSGYE FKSEIKGGAV PREYIPGVMK GLEECMSTGV LAGFPVVDVR
651 ACLVDGSYHD VDSSVLAFLQ AARGAFREGM RKAGPRMLEP IMRVEVVTPE
701 EHLGDVIGDL NSRRGQINSF GDKPGGLKVV DSLVPLAEMF QYVSTLRGMT
751 KGRASYTMQL AKFDVVPQHI QNQLSSKDQE VAA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
90 - 97	961.5208	960.5135	960.5392	-27	1 R.AVPLKDYR.N
110 - 122	1574.8046	1573.7973	1573.8100	-8	1 K.TTTERILYTTGR.N
116 - 122	885.4830	884.4757	884.4756	0	0 R.ILYTTGR.N
126 - 145	2376.0685	2375.0612	2375.0158	19	0 K.IGEVHEGTATMDWMEQEQR.G
126 - 145	2392.0079	2391.0006	2391.0107	-4	0 K.IGEVHEGTATMDWMEQEQR.G Oxidation (M)
126 - 145	2408.0327	2407.0254	2407.0056	8	0 K.IGEVHEGTATMDWMEQEQR.G 2 Oxidation (M)
163 - 180	2068.0217	2067.0144	2067.0637	-24	0 R.INIIDTPGHVDFLEVER.A
208 - 216	1033.5074	1032.5001	1032.5352	-34	1 R.QADKYGVPR.I
212 - 216	591.3073	590.3000	590.3176	-30	0 K.YGVPR.I
217 - 222	780.3829	779.3757	779.4000	-31	0 R.ICFVVK.M
226 - 232	824.4354	823.4282	823.4341	-7	0 R.LGANFFR.T
260 - 266	757.4362	756.4289	756.4494	-27	0 K.GVVDLVR.M
260 - 268	1016.5060	1015.4987	1015.5848	-85	1 K.GVVDLVRK.A
267 - 280	1534.7026	1533.6953	1533.7861	-59	1 R.MKATVWSGEELGAK.F Oxidation (M)
269 - 280	1259.6222	1258.6149	1258.6557	-32	0 K.AIVWSGEELGAK.F
403 - 416	1584.7714	1583.7641	1583.8018	-24	0 K.IMSDPFVGSVSLTFVR.V Oxidation (M)
442 - 450	1086.5204	1085.5131	1085.5287	-14	0 R.LLEMHANSR.E Oxidation (M)
469 - 487	2084.9898	2083.9825	2084.0273	-22	0 K.DTITGETLSDPENPVVLER.M
488 - 502	1698.7921	1697.7848	1697.9062	-71	1 R.MDFPDPVIKVAIEPK.T
505 - 516	1291.6075	1290.6002	1290.6853	-66	1 K.ADIDKMATGLIK.L Oxidation (M)
517 - 528	1433.6833	1432.6760	1432.6735	2	0 K.LAQEDPSFHSR.D
558 - 570	1416.7030	1415.6957	1415.7157	-14	0 K.VEANVGAPQVNYR.E
586 - 599	1463.6995	1462.6922	1462.7165	-17	0 K.QSGGQGFADITVR.F
623 - 630	952.4454	951.4382	951.4735	-37	0 R.EYIPGVMK.G Oxidation (M)
687 - 693	889.4099	888.4026	888.4561	-60	0 R.MLEPIMR.V
687 - 693	921.4258	920.4185	920.4459	-30	0 R.MLEPIMR.V 2 Oxidation (M)
694 - 713	2178.0981	2177.0908	2177.0964	-3	0 R.VEVVTPEEHLGDVIGDLNSR.R

Spot No.: 20

Mascot score: 94 Sequence coverage %: 19

NCBI accession No.: gi| 77548468

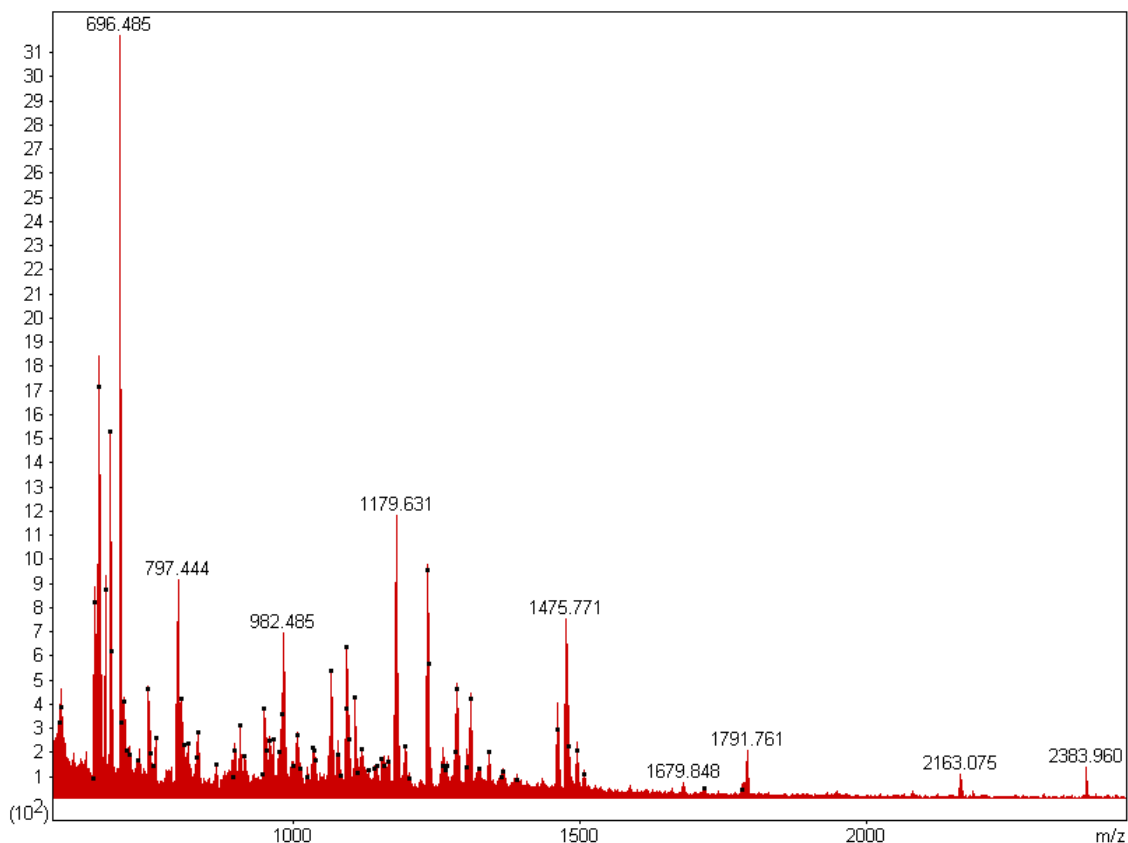
Matched peptides No.: 24

Total peptides No.: 85

Calculated Mr: 115734

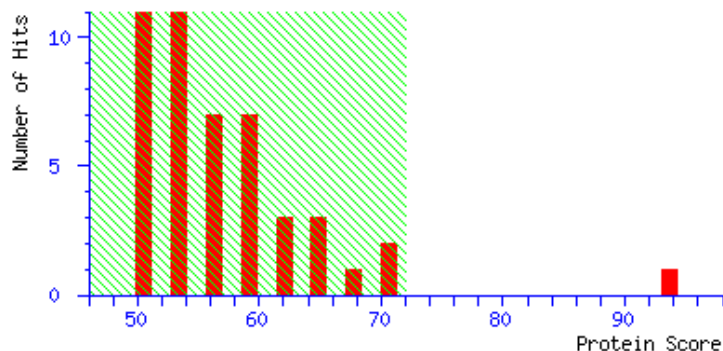
Calculated pI: 5.29

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MARGSALLDG SVLPPSRIVS ERQAGLPRRF MPESATGREI VTLGEGRPAP
51 DYPGRSVFFL PFAMAGLVPP FSSFFMDVLE FYDLQMayLT PNAVMTLAI F
101 AHLCEMFIGV RPSLRLFRWF FTVQSVSPPS VVGGCYFQPR GPVANRYIPC
151 TLRKKWDDWK SDWFYTPLAD EARLRLPSQP PVQASSWRAP VDLGDGYDAV
201 LDRLAGLRSQ GLTGAMVYGD YLRRRIAPLQ RRARGAWeyT GSEDFMRTHQ
251 GVRWDWAPED FKILVQRVLN LNSVEAALIP QGILPLCSDP DRASILTImm
301 AVGASEERAP KGHdGAGGSr RGEQSTPRGG HASGSrDSGP GSSRPANARG
351 KRKQGGTPPP SPPRGDGAAR ASSRRPEGAA PASQPEGERK KKRPRKMGET
401 EPSRGNLISP PKWSFNRPPr SEIPSRPSRH SKSGQSETED PAAAEARRRE
451 SDRREAADRL REAEAAQEA ARARQAEeIA REEAARACQA EEAVREEAPR
501 ARQAEAAARE EAGFRQDEVm ATSEASrDEA AGASLGPTPS GDAQATTSGA
551 AGDEAAGASL GPTPSGDAQD QPGPRDIPES GTSIGGPSRV ASSPRLFP T
601 PSIAPLNTEP LLQALAAANT TMLDGLSAQV EALQAERAEL DAAWTRVEEG
651 RRSVEAMVEV GRKAHRRHVS ELETRKKVLA EIAKEVEEER EAALIATTVM
701 NEAQDTLRLQ YGNWEAELGK KLDAAQGVLD AAAAREQRAA ETEATSRRRE
751 EAEARAMAL EERACVVERD LADREAAVTI REATLAAHEA ACAEEEF TLR
801 LREDALTERE RALEGAEAAA QQLADSLSLR EAAQEEQVRR NLEGARAERA
851 ALNQRAAELE ARAKELDARA RSGGAAAGES DLAARLAAAE RTIADLQGT L
901 DSSAGEVEAL RLAGEVGPgM LWDAVSRLDC AGRQVGLWRG RTVKYAAANQ G
951 GLAQRLSKMA GALQRLHEEL EKTIKSSSRD LAQGAVELVL ASYQARDPNF
1001 SPWMALDEFP PGTEDHARAQ VRDTADHIVD SFEGSAPRLA FAPNSDEEGN
1051 AGGDANSDEE AGDPGASD

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
23 - 29	797.4439	796.4366	796.4668	-38	1	R.QAGLPRR.F
30 - 38	1011.5292	1010.5219	1010.4491	72	0	R.FMPESATGR.E Oxidation (M)
156 - 160	749.4171	748.4098	748.3180	123	0	K.WDDWK.S
233 - 247	1791.7611	1790.7538	1790.7682	-8	1	R.ARGAWeyT GSEDFMR .T Oxidation (M)
329 - 336	728.4276	727.4203	727.3362	116	0	R.GGHASGSr.D
354 - 364	1090.5673	1089.5600	1089.5567	3	0	K.QGGTPPPSPPr.G
375 - 390	1679.8476	1678.8403	1678.8387	1	1	R.RPEGAA PASQPEGERK .K
397 - 404	906.5207	905.5134	905.3913	135	0	K.MGETEPSR.G
487 - 495	1033.5632	1032.5559	1032.4658	87	0	R.ACQAE EA VR.E
510 - 515	708.4296	707.4224	707.3238	139	0	R.EEAGFR.Q
516 - 527	1339.6544	1338.6471	1338.5721	56	0	R.QDEV MA TSEASr.D Oxidation (M)
647 - 652	745.4738	744.4666	744.3878	106	1	R.VEEGRR.S
652 - 662	1232.6238	1231.6165	1231.6343	-14	1	R.RSVEAMVEVGR.K
653 - 662	1092.5457	1091.5384	1091.5281	9	0	R.SVEAMVEVGR.K Oxidation (M)
749 - 756	973.5469	972.5396	972.4988	42	1	R.REEALEAR.A
803 - 811	1118.5637	1117.5564	1117.5363	18	1	R.EDALTERER.A
840 - 846	815.5047	814.4974	814.4409	69	1	R.RNLEGAR.A
841 - 846	659.4496	658.4423	658.3398	156	0	R.NLEGAR.A
856 - 864	958.5125	957.5052	957.5243	-20	1	R.AAELEARAK.E
863 - 869	802.5005	801.4933	801.4344	73	1	R.AKELDAR.A
870 - 885	1459.7770	1458.7697	1458.7175	36	1	R.ARSGGAAAGESDLAAR.L
934 - 939	758.4809	757.4736	757.4235	66	0	R.QVGLWR.G
966 - 972	897.4865	896.4792	896.4603	21	0	R.LHEELEK.T
1023 - 1038	1716.8061	1715.7988	1715.7751	14	0	R.DTADHIVDSFEGSAPR.L

Spot No.: **21**

Mascot score: **90**

Sequence coverage %: **23**

NCBI accession No.: **gi| 303276186**

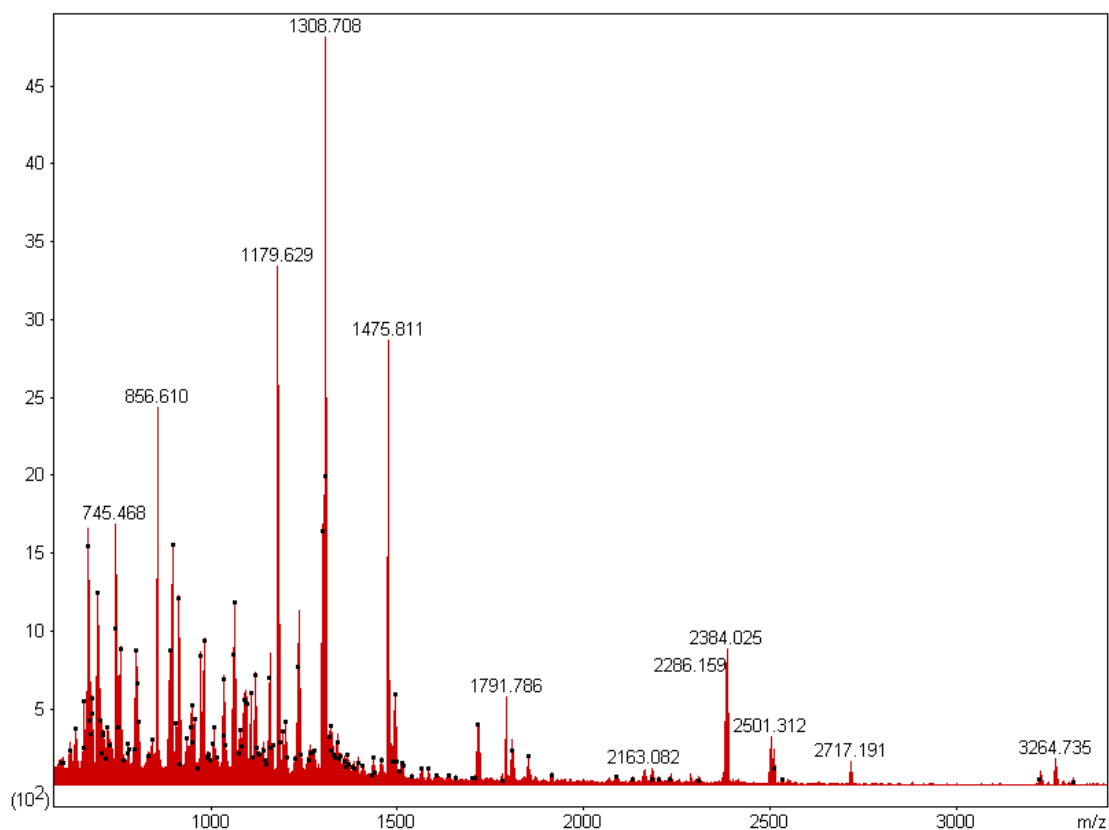
Matched peptides No.: **44**

Total peptides No.: **126**

Calculated Mr: **188682**

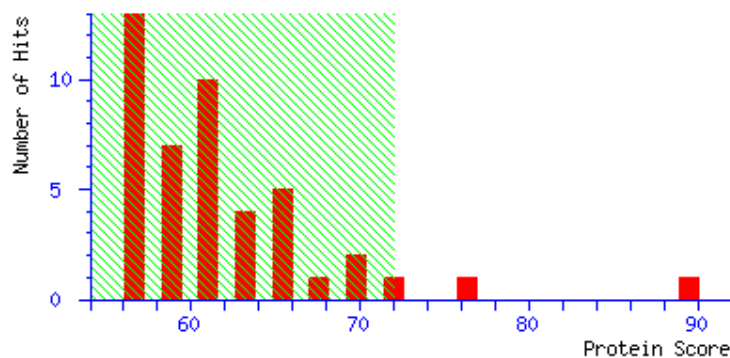
Calculated pI: **6.11**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MPVSKERTVP  ITSWANAEE  VSERLRRSER  EFFVPKIPEL  ARERSRSAPE
51  TAAPRSPARE  TSTSTSGGAR  ERSPDHLLTK  RRGNPFQGF  AIDVHALLDK
101  LPKPGRRAPP  SPARRPASEN  DATSSSENSHS  SPSPAKENAL  VAAGLATPPP
151  TKTPDADAML  ASSPDADAML  ASSPAPTWTF  KHLDSANKLN  AELHAKLVRE
201  QEKAREAIKN  LKREHDARLN  KERGERKEEV  RRMNEQHEAR  AKKREEEASR
251  EREKREDERE  RARERDADDL  KRLNERLEEK  ATRLGEEMRR  LCDEHEARLK
301  KHDDERKAER  ENVRRLKAEH  DAARKADKAV  AEGKYAEYEK  AVALGKLEME
351  DLARQLEKDR  RELRTERGEF  KIRVRRFQED  HDLMESELDE  TQTNAQMMLR
401  EAQAEIIALK  NTAQRIEAEW  EVTKLEQAAV  AAEKEKERAR  QKVELRFKTV
451  WMSALRASFV  RWKSESRRIK  NGRAIEEERK  LLISNAAKAE  KALEEESARG
501  AAMLEAAREE  AKREREAACL  QREETLAAAK  KDLNDAEAAK  KAAIKKMEDA
551  LKAQTEATIR  AQNQLEEAEL  NQAAAAARAAS  VAALGRLEQR  AALRFRTVLM
601  SLLRSSFTRW  KNETSLSRVE  RVERAEMLEH  KAAKERAEQA  LEDARASQEK
651  MIEGMKAKHE  ESDVAIKTEH  SRAVETIKAE  HSEAVSKLED  ALRKSNEEIS
701  ELARAAAVQA  LAQNAAAQKV  EVAARERAAQ  TATLRFRTVL  MGSLRSSFVR
751  WKYVAKYQKM  ERTEQSERLA  LVKEKEKAEN  ELAEARKANQ  ETVAAMRSQ
801  AETLQIIEDA  KQSIAKQVQE  KQDSTIKKLE  EALEKQTNAT  LRAQKQFDDA
851  ELARAAAVQA  AKIAATERAL  QKAALRFKTV  MMGSLRASFQ  RWKYAAKFMR
901  RDREADAERE  TLLASTRKAG  RELEDARRAQ  EDAVASLREK  QRKEKQRLLE
951  QHAAAEEQKA  STYAEQLAAI  KREAAAALAS  AREEELDSTA  DIERRVKTAV
1001 DQTKLELGS  VDLRAQLAS  LEIKLTASRK  SFEMASHRNA  TLEDEVDAN
1051 RKADEAQKY  QGARAAAAFM  EADADEMKQV  LDQVNEAHAL  ALEDERRKLA
1101 RAEAMNLAGD  EEMRKEINRL  HSELEEQKLL  VAAASKATKD  AMAAAAAKAA
1151 BAAKAESEAA  RARESMLLSD  AASSAEMAKT  NAAMSDRESL  AKECEQLRLE
1201 LAAARQAAAL  VANSPASEER  KRTSARKASP  SPAPAGSASS  SKKKSARQRG
1251 TITVDEHEEA  IALLRGEIQV  LVSRLGDVVK  NDEVTDEDVA  RARSKAAKDL
1301 DLAIQLTDEW  EEPRTPRGA  NDDDGSESGS  ESDDDHVETV  VKLNNRCKTL
1351 VVKGKAALAR  IVALEVELAS  AVNEKESATA  WALACTRRAR  GAEEAAMFAK
1401 DEARDLKLRT  RDIRLGKRST  EAEDVDPIAA  KAAIERLEVE  LSEARDAAAA
1451 SATTIAEIAR  ERDVLKRELV  GYERRKKAGG  DFDELISGSN  VIERLGMPTV
1501 KAKEPEPEE  EEEEEGFFAW  LITPSRQPDV  EEKAKKKEED  DEPGFFRTLF
1551 GLTPSKDAAG  EGGARPAASE  KSDSSASRSD  AFATAAPRFR  SGASVTSGDD
1601 AATRNLANTP  PSIPKLDLSR  VSRSPGEERD  RGGREGARSD  ADADAESDAE
1651 SDAASGDARR  VAGEASESDA  RSRSGPGGFW  KRVAGDDADF  SDSDSVEVS
1701 GQL

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
31 - 36	716.4218	715.4146	715.3905	34	0	R.EFFVPK.I
214 - 221	982.4828	981.4756	981.4992	-24	1	R.EHDARLNK.E
284 - 290	906.5101	905.5028	905.4389	71	1	R.LGEEMRR.L Oxidation (M)
311 - 315	673.4170	672.4097	672.3667	64	1	R.ENVRRL.L
318 - 325	897.4651	896.4578	896.4464	13	1	K.AEHDAARK.A
329 - 340	1357.7302	1356.7229	1356.6561	49	1	K.AVAEGKYAEYEK.A
368 - 373	749.4233	748.4160	748.4232	-10	1	R.GEFKIR.V
449 - 456	963.5118	962.5046	962.5008	4	0	K.TVWMSALR.A
471 - 479	1073.5913	1072.5840	1072.5261	54	1	K.NGRAIEEER.K
481 - 491	1157.6070	1156.5997	1156.6815	-71	1	K.LLISNAAKAEK.A
514 - 519	703.4229	702.4156	702.3660	71	1	R.EREAAK.L
523 - 530	832.4981	831.4908	831.4338	69	0	R.EETLAAAK.K
597 - 604	948.4841	947.4768	947.5474	-75	0	R.TVLMSELLR.S Oxidation (M)
705 - 718	1493.7899	1492.7826	1492.7997	-11	1	K.HLEBAKLAQNAAAQK.K
711 - 719	914.5887	913.5814	913.5345	51	1	K.LAQNAAAQK.V
736 - 745	1179.6290	1178.6217	1178.6594	-32	1	R.FRTVLMGSLR.S
751 - 756	794.4409	793.4336	793.4486	-19	1	R.WKYVAK.Y
760 - 768	1165.5966	1164.5893	1164.5193	60	1	K.MERTEQSER.L
763 - 773	1273.5843	1272.5770	1272.7037	-100	1	R.TEQSERLALVK.E
787 - 797	1234.6530	1233.6457	1233.6135	26	1	R.KANQETVAAMR.S Oxidation (M)
788 - 797	1090.5468	1089.5395	1089.5237	15	0	K.ANQETVAAMR.S
877 - 886	1201.6739	1200.6666	1200.5995	56	1	R.FKTVMGSLR.A 2 Oxidation (M)
910 - 917	890.5379	889.5306	889.4869	49	0	R.ETLLASTR.K
929 - 940	1316.6045	1315.5972	1315.6732	-58	1	R.AQEDAVASLREK.Q
960 - 971	1265.6403	1264.6330	1264.6663	-26	0	K.ASTYAEQLAAIK.R
996 - 1004	989.5314	988.5242	988.5553	-32	1	R.VKTAVDQTK.L
1030 - 1038	1092.5408	1091.5335	1091.5182	14	1	R.KSFEMASHR.N
1053 - 1064	1307.7098	1306.7025	1306.6265	58	1	K.ADEAQKAYQGAR.A
1102 - 1115	1564.8130	1563.8057	1563.7021	66	1	R.AEAMNLAGDEMREK.E
1115 - 1119	659.4427	658.4355	658.3762	90	1	R.KEINR.L
1140 - 1154	1360.6431	1359.6358	1359.6816	-34	1	K.DAMAAAAAKAAEAAK.A
1180 - 1192	1393.7381	1392.7308	1392.6667	46	1	K.TNAAMSDRESLAK.E
1206 - 1220	1513.7750	1512.7677	1512.7532	10	0	R.QAAALVANSPASEER.K
1281 - 1291	1262.6266	1261.6193	1261.5422	61	0	K.NDEVTDEDVAR.A
1349 - 1355	744.4426	743.4354	743.4905	-74	1	K.TLVVKGK.A
1361 - 1375	1584.7789	1583.7716	1583.8770	-67	0	R.IVALEVELASAVNEK.E
1419 - 1431	1345.6967	1344.6894	1344.6409	36	0	R.STEAEDVDPIAAK.A
1446 - 1462	1716.8880	1715.8807	1715.8802	0	1	R.DAAAASATTIABIARER.D
1495 - 1501	745.4681	744.4608	744.4204	54	0	R.LGMPVK.A
1579 - 1588	1006.4987	1005.4914	1005.4879	3	0	R.SDAFATAAPR.F
1616 - 1620	603.3909	602.3836	602.3388	74	0	K.LDLSR.V
1616 - 1623	945.5085	944.5012	944.5403	-41	1	K.LDLSRVS.R
1621 - 1629	1016.5577	1015.5504	1015.5047	45	1	R.VSRSPGEER.D
1672 - 1681	1078.5872	1077.5799	1077.5356	41	1	R.SRSGPGGFWK.R

Spot No.: **22**

Mascot score: **90**

Sequence coverage %: **25**

NCBI accession No.: **gi| 294460288**

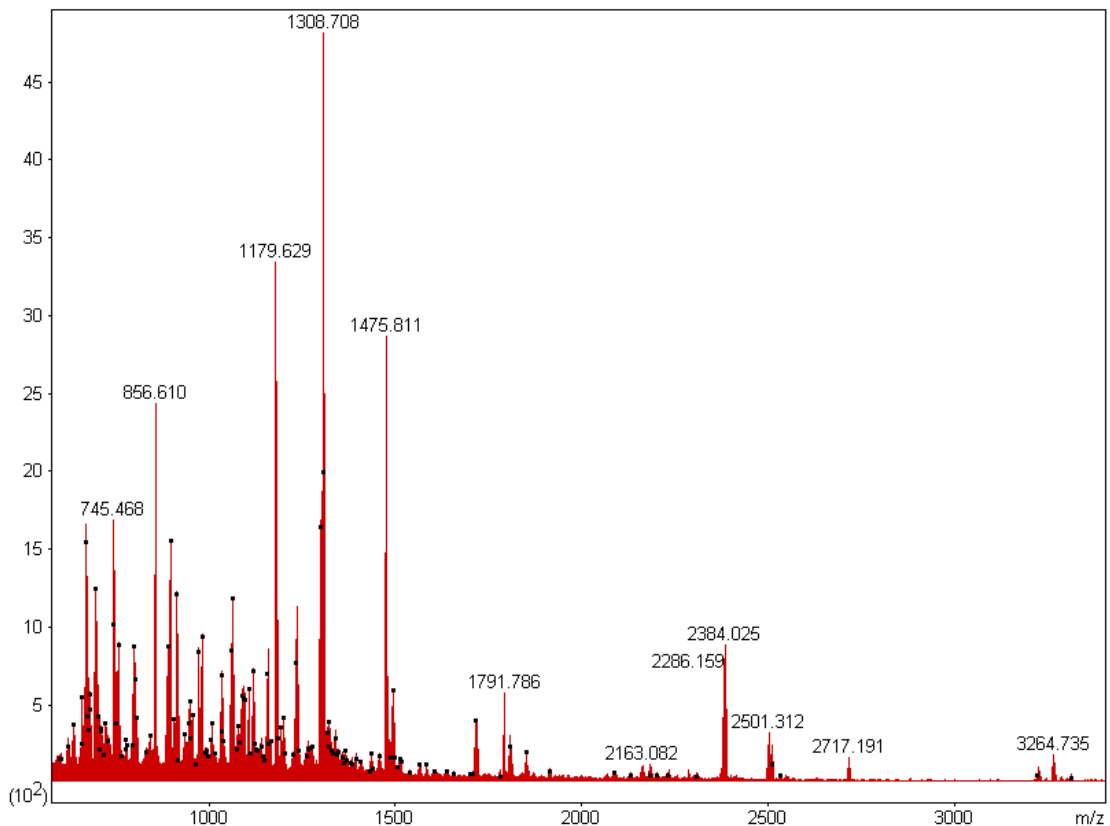
Matched peptides No.: **12**

Total peptides No.: **71**

Calculated Mr: **52848**

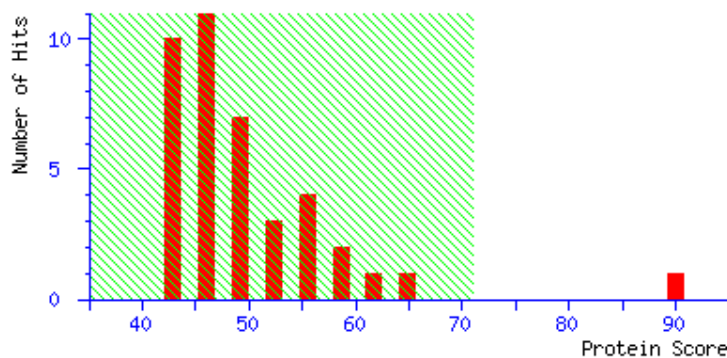
Calculated pI: **5.97**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MSSSALPSSS DDGDARSHAK PNSTPPTKSS AASSDSEPKT PRRSSVMKKS
51 RDGSRPDTRV GPKQSRDRLE AKLPASKKKK NSRKTGVSGN KSQIDIEELL
101 AQTYPKEPSV LGDETHITNG LEMPSEHAKD TAKKWSAEDE ISLANAVLAS
151 SAGGQVNMTA FYERAKETLQ SESHGQIYEK MRRMRSRFWT IESQLRDAKI
201 AEDFFPYRSM HEAELYKVWK QIWGRHERRN EAAQDIEMEQ NRELRSRSHA
251 RQVHNGDVNE DRHESRTEAA HMNGEPRSHS HAMQRQNGEV TDDPPEEEEE
301 EEEHQAAEEE DNVVETAGKT PSRVACNHDE EFNLIQTEIK ALVCKVKNNV
351 QTMLDDTEAK MEGLIDSLFK RAVVAAQVQS LGSEVGIGSC LCSSLSRRMK
401 ELECVRVRE FRGLNEAAEK ILQQKWRKHQ IEELRTFSGR LELLQEECKL
451 CIKDLETANS SHNS

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
29 - 39	1065.5701	1064.5628	1064.4622	95	0	K.SSAASSDSEPK.T
44 - 49	679.4951	678.4878	678.3734	169	1	R.SSVMKK.S
188 - 196	1179.6518	1178.6445	1178.6084	31	0	R.FWTIESQLR.D
188 - 199	1493.8081	1492.8008	1492.7674	22	1	R.FWTIESQLRDAK.I
200 - 208	1157.6412	1156.6339	1156.5553	68	0	K.IAEDFFPYR.S
209 - 217	1107.5964	1106.5891	1106.5066	75	0	R.SMHEAELYK.V
221 - 225	659.4705	658.4632	658.3551	164	0	K.QIWGR.H
252 - 266	1791.8549	1790.8476	1790.8044	24	1	R.QVHNGDVNEDRHESR.T
263 - 277	1737.8921	1736.8848	1736.7648	69	1	R.HESRTEAAHMNGEPR.S Oxidation (M)
267 - 285	2163.1430	2162.1357	2161.9494	86	1	R.TEAAHMNGEPRSHSHAMQR.Q Oxidation (M)
320 - 340	2501.3457	2500.3384	2500.2016	55	1	K.TPSRVACNHDEEFNLIQTEIK.A
361 - 371	1308.7160	1307.7087	1307.6907	14	1	K.MEGLIDSLFKR.A

Spot No.: 23

Mascot score: 81 Sequence coverage %: 34

NCBI accession No.: gi| 125575959

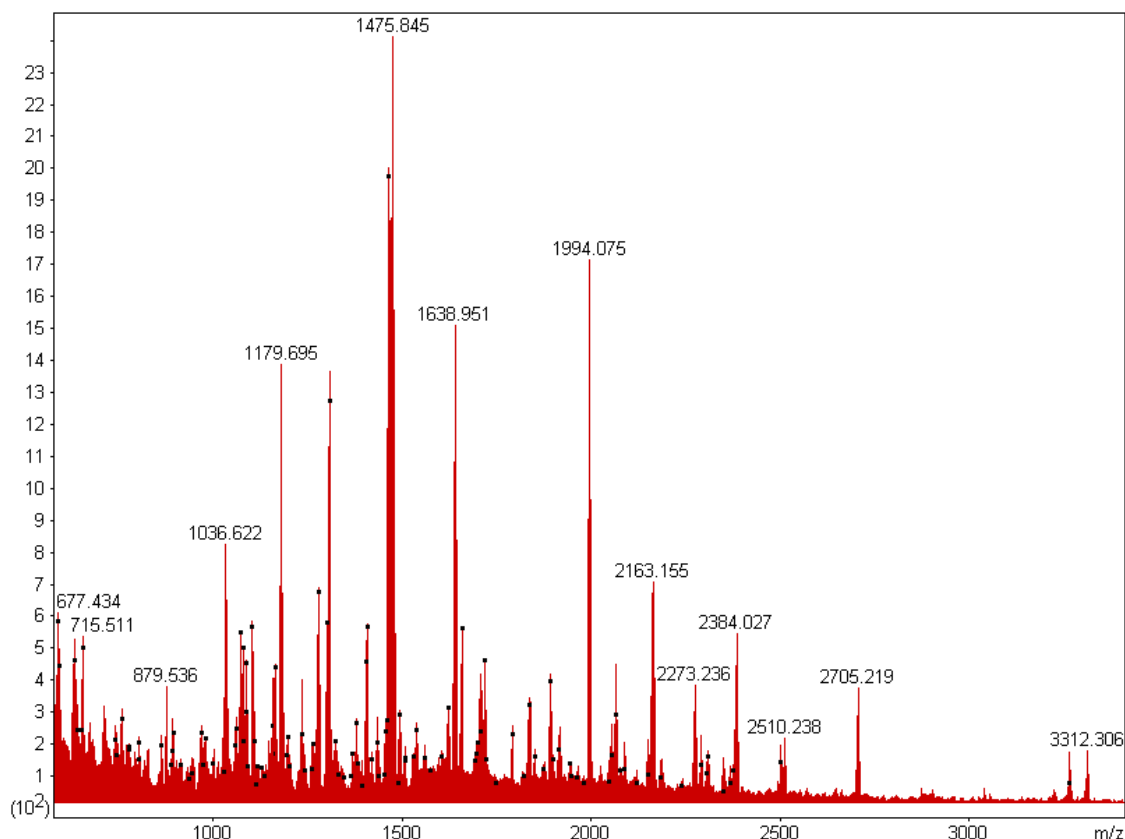
Matched peptides No.: 12

Total peptides No.: 111

Calculated Mr: 29568

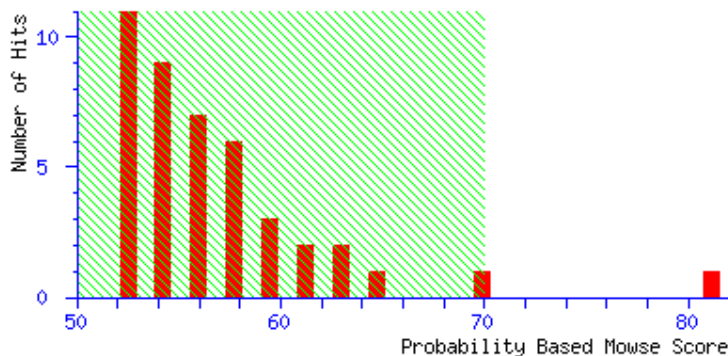
Calculated pI: 5.53

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MASMYRLPRN **A**ICAACYEGA **K**AIIAFFNDD DDEHADADQG SVKPSRLTKL
51 NSTIKGLRDA **W**EEVKQMR**C**R **E**EETKQRAS**F** LQEGFAAAWK DGIHTDIAIR
101 PGTGPPIQAH **K**AILATRSE**V** **F**RHILAGDD**D** CKAPAGDSLS LPELTHDELS
151 HLLAFLYTGS LATCAEER**H**L **H**ALLVAGD**K**Y **D**VPFLRR**A**C**E** **A**RLAAGVEAG
201 NVLR**T**LEVA**E** **L**SSSA**A**LKER AMGTVVEHAE EVVFSPEYEE FAVRNAALCV
251 QITR**T**LL**A**NK SLPK**T**P

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 9	1140.6369	1139.6296	1139.5579	63	1 -.MASMYRLPR.N Oxidation (M)
7 - 21	1693.9448	1692.9375	1692.8076	77	1 R.LPRNAICAACYEGAK.A
59 - 68	1307.7733	1306.7660	1306.5976	129	1 R.DAWEEVKQMR.C Oxidation (M)
71 - 77	919.5537	918.5464	918.4406	115	1 R.EEETKQR.A
112 - 117	644.3303	643.3231	643.4017	-122	0 K.AILATR.S
112 - 122	1262.7219	1261.7146	1261.7142	0	1 K.AILATRSEVFR.H
118 - 122	637.4024	636.3951	636.3231	113	0 R.SEVFR.H
169 - 186	2064.2133	2063.2060	2063.1316	36	1 R.HLHALLVAGDKYDVPFLR.R
180 - 187	1065.6273	1064.6200	1064.5767	41	1 K.YDVPFLRR.A
187 - 192	762.4623	761.4550	761.3602	124	1 R.RACEAR.L
205 - 218	1418.7674	1417.7601	1417.7664	-4	0 R.TLEVAELSSSAALK.E
255 - 260	659.4620	658.4548	658.4014	81	0 R.TLLANK.S

Spot No.: 24

Mascot score: 82 Sequence coverage %: 26

NCBI accession No.: gi| 168036931

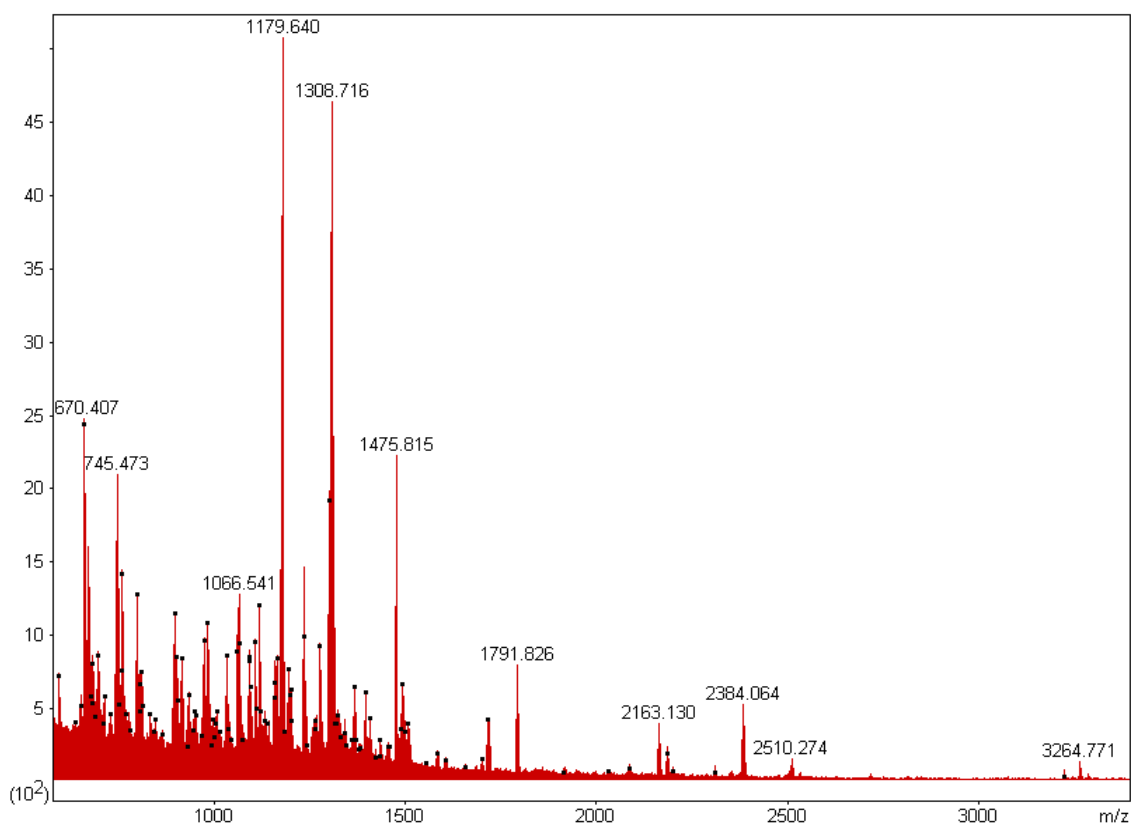
Matched peptides No.: 17

Total peptides No.: 116

Calculated Mr: 49474

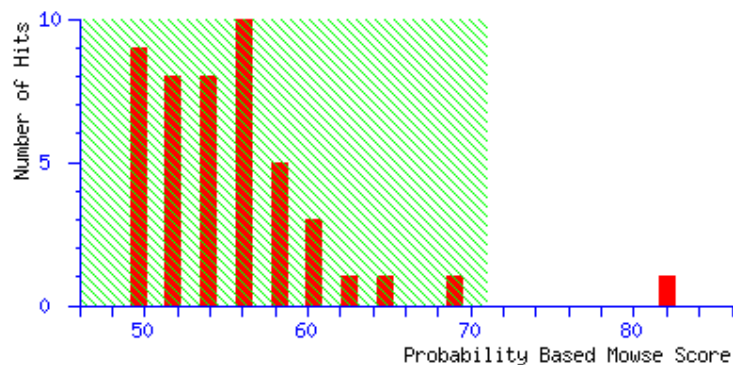
Calculated pI: 9.31

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MLSFQ****MDQT** **VSHGQKSISH** **CIRNGVTPGS** **LKPVACRSNS** HPSQGIGLLF
51 DDAEFFAGF VRL**LWEAWKAI** **DKLTDERIKE** **RNEQNGEAMV** **ERVLILLSGT**
101 GPFLYPSGTL TWGLAP**RCS** **VWFPRHGLE** **SRS**GPAA**DRY** **SAWRRI****LQGC**
151 **LWR**ALLFFHR SSSVARM**LLI** APP**PF**CVD**AV** EASGGQ**LQT** SPDRLLGLPS
201 PTAPVLESSE QMCMHILL**LL** LVRSQQIT**LT** GTICERS**LQL** QDAVP**GRGAR**
251 **CHCSSR**TRLA FR**S**SEELE**TL** RLSQKAV**LLA** VFDLPPILRV LVNGNAEQEN
301 ISRSKNIYIS AALSDWT**VD**T EVRALS**GHLE** PTCIS**V**ERR**V** **VRC**DAMR**CHA**
351 HLHPSPPP**QL** NSIQFFS**FLF** HLIYQGR**NRC** **SGR**SF**W**NP**RR** HHC**V**ESALND
401 SAPRGDLCSE SRPTGRGSKC VSTLRQRAQ**F** V**V**FQ

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 6	797.4214	796.4141	796.3902	30	0	-. MLSFQR .M Oxidation (M)
2 - 6	650.2355	649.2282	649.3548	-195	0	M.LSFQR .M
7 - 16	1130.5669	1129.5596	1129.5186	36	0	R.MDQTVSHGQK .S
17 - 37	2309.1566	2308.1493	2308.1892	-17	1	K.SISHCIRNGVTPGSLKPVACR .S
24 - 37	1455.7398	1454.7325	1454.7664	-23	0	R.NGVTPGSLKPVACR .S
63 - 68	832.5130	831.5057	831.4279	94	0	R.LWEAWK .A
69 - 77	1060.5948	1059.5875	1059.5560	30	1	K.AIDKLTDER .I
82 - 92	1276.6119	1275.6046	1275.5513	42	0	R.NEQNGEAMVER .V
118 - 125	1107.5692	1106.5619	1106.5444	16	1	R.RCSVWFPR .H
119 - 125	951.5154	950.5082	950.4433	68	0	R.CSVWFPR .H
126 - 132	811.4518	810.4446	810.4348	12	0	R.HGLESR .S
140 - 144	682.4003	681.3931	681.3234	102	0	R.YSAWR .R
145 - 153	1201.6639	1200.6566	1200.6550	1	1	R.RILQGCLWR .A
146 - 153	1045.5343	1044.5270	1044.5539	-26	0	R.ILQGCLWR .A
248 - 256	1090.5693	1089.5620	1089.4556	98	1	R.GARCHCSSR .T
340 - 347	1006.4984	1005.4911	1005.4848	6	1	R.VVRC DAMR.C
378 - 383	749.4279	748.4206	748.3398	108	1	R.NRCSGR .S

Spot No.: **25**

Mascot score: **96** Sequence coverage %: **26**

NCBI accession No.: **gi| 168037847**

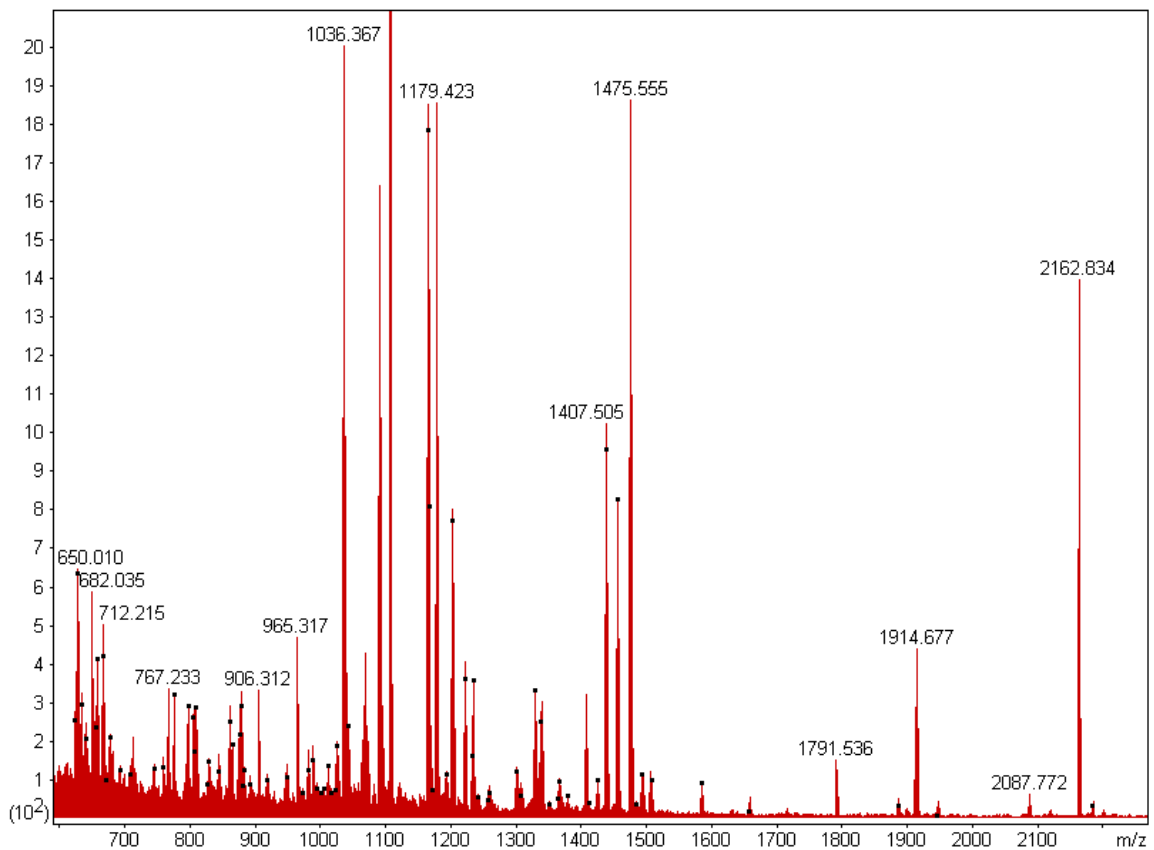
Matched peptides No.: **20**

Total peptides No.: **53**

Calculated Mr: **70593**

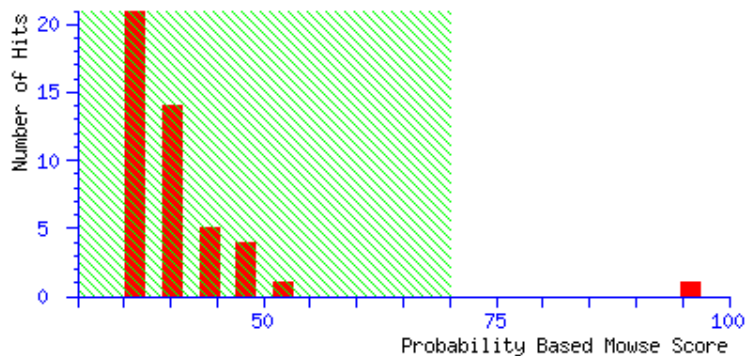
Calculated pI: **9.86**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MGVMFLCPV **VKLEHTLSKM** KHSPNAEQLR GAENVKGRMLN RTSR**SLQAAN**
 51 **MI**IARNPNPM GLSDMLDSTS DNLNGQMGNS SGLLGMMVK**Q** **GH**ETTR**E**FKL
 101 AECLKELASF QR**SVLEDPQE** **DYPMQPK**DLN TLFSAGIIQS KRVENADALS
 151 AEAKGTVSED LGKAGCNVGA VKSTRRREVK AIQKQPWSFS TKTSVRQLKG
 201 DAGVGKIERL IRMSKKSPVV GAKSR**QYVIH** **SNPLATGR**RRL STASSKRR**DS**
 251 **LELSPTK**CKR MSNSPTLKP**K** SAEKK**KYGF**G **IQAANAGHR**K TCSNKEQMPT
 301 LKGGKAENKA LKHTDRQKVI LK**RVMSSPVN** **GKKKVLRETA** SGLMSSVDLS
 351 AAARRAR**RLS** **QVLRSEHELK** HHNQYAKE**A** **QQLRQQLAIK** EDEADRAQSA
 401 SMLLRQICAN QAAELKSYKE AVPILMKELS EVREKYFKQE DDLQFELNAK
 451 LGFQTEVSNL RDCVESL**TND** IQQTR**TVNTA** **LAKRVHQY**EK SVCTSCRL**YI**
 501 NQKPMKK**EMS** **PMP**SKTKAGH PLKTPIRLRS DSNLGR**WNSP** **RA**AL**TSMKEM**
 551 ENSWQLENQK **L**PFK**STGDVN** **Q**NPLK**DLEQH** DFALQARCEN VSQGLSNS**DC**
 601 PPVDAL**KNRI** **S**LL**LFTASQA** **L**EN**QHR**AM

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
13 - 19	827.2610	826.2537	826.4548	-243	0	K.LEHTLSK.M
45 - 55	1203.4329	1202.4256	1202.6441	-182	0	R.SLQAANMIAR.N Oxidation (M)
90 - 96	805.2733	804.2660	804.3726	-133	0	K.QGNETTR.E
113 - 127	1791.5361	1790.5288	1790.8033	-153	0	R.SVLEDPQEDYPMQPK.D Oxidation (M)
226 - 238	1455.4855	1454.4782	1454.7630	-196	0	R.QYVIHNSNPLATGR.R
249 - 257	989.3113	988.3040	988.5077	-206	0	R.DSLELSPTK.C
277 - 289	1338.4622	1337.4549	1337.6476	-144	0	K.YGFGIQAANAGNR.K
323 - 332	1074.3601	1073.3528	1073.5652	-198	1	K.RVMSSPVNGK.K
323 - 332	1090.3556	1089.3483	1089.5601	-194	1	K.RVMSSPVNGK.K Oxidation (M)
324 - 333	1062.3337	1061.3264	1061.5539	-214	1	R.VMSSPVNGKK.K Oxidation (M)
359 - 370	1438.4935	1437.4862	1437.7939	-214	1	R.LSQVLRSEHELK.H
379 - 390	1425.5013	1424.4940	1424.8099	-222	1	K.EAQQLRQQLAIK.E
476 - 484	973.3445	972.3373	972.5716	-241	1	R.TVNTALAKR.V
508 - 515	906.3123	905.3050	905.3987	-103	0	K.EMSPMPK.T
508 - 517	1167.4913	1166.4840	1166.5311	-40	1	K.EMSPMPKTK.A 2 Oxidation (M)
537 - 541	659.2599	658.2526	658.3187	-100	0	R.WNSPR.A
561 - 575	1657.5952	1656.5879	1656.8835	-178	1	K.LPFKSTGDVNQNPLK.D
565 - 575	1172.3409	1171.3336	1171.5833	-213	0	K.STGDVNQNPLK.D
608 - 626	2184.8768	2183.8695	2184.1399	-124	1	K.NRISLLFTASQALENQHR.A
610 - 626	1914.6770	1913.6697	1913.9959	-170	0	R.ISSLLFTASQALENQHR.A

Spot No.: 26

Mascot score: 81 Sequence coverage %: 36

NCBI accession No.: gi| 168014980

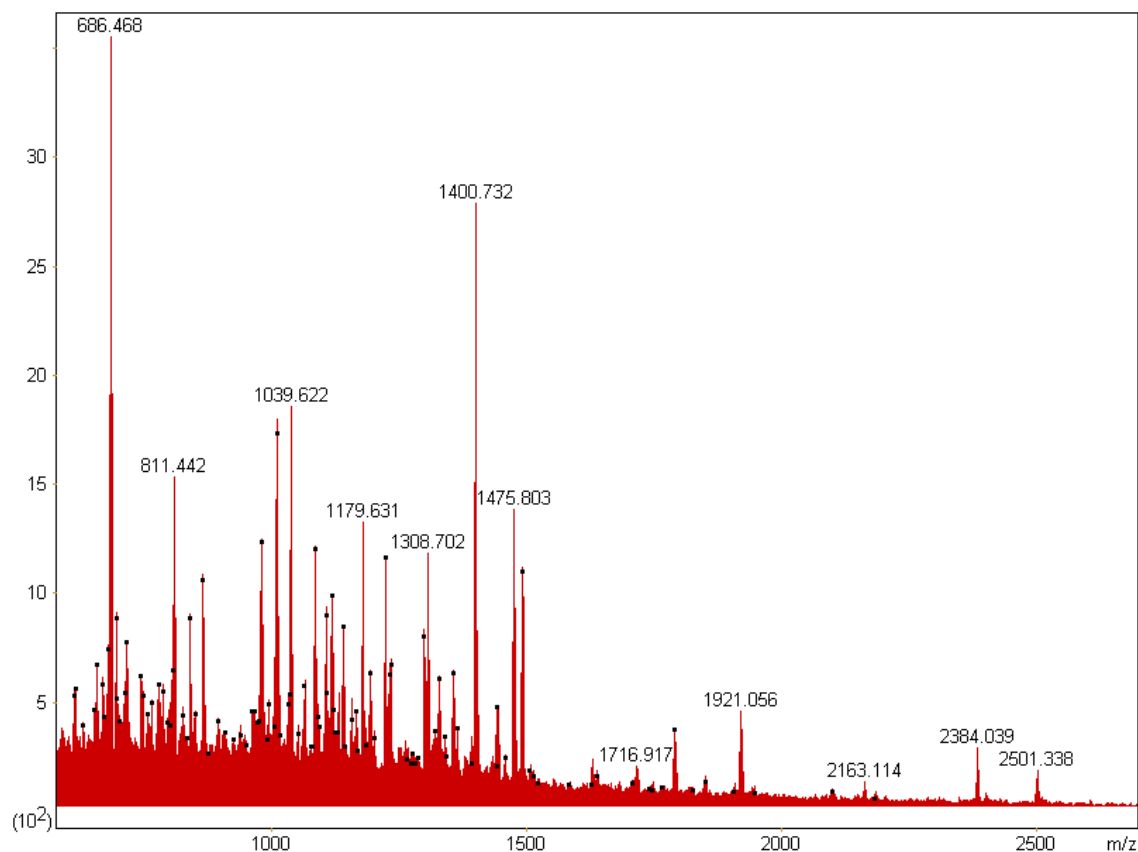
Matched peptides No.: 14

Total peptides No.: 115

Calculated Mr: 29082

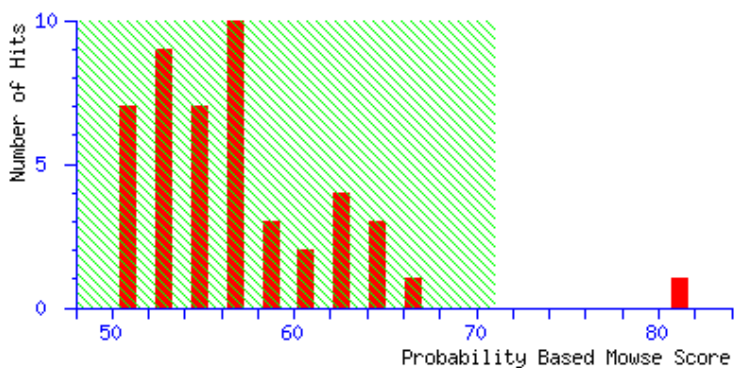
Calculated pI: 9.53

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSHENKSNMC CSSPPLRHNT FPSTNSAFTF SFSKEAWLQD STFSTSFPAI
51 CGLFYWIPDN AIEIVVENQA GEISRSEVKE GSKKCLPKVL KANLCVGINN
101 VTRTLERMPA KPAGASEGES QPKRSKTVDN TVTKLG TSAQ QLHPKSSNVT
151 RLQAVIVAAD VQPKALVAHL GALCASRGVV ILPVSGGDGS GSLKLGEVLG
201 TRAAIAIGIK HITNLR TETF PGRYSNQLG RGINYGNKTQ VTLLSLIPTA
251 VSQVAADIK A TSRCCSCR

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 6	745.4594	744.4521	744.3224	174	0	- .MSHENK. S
2 - 6	614.3925	613.3852	613.2820	168	0	M. SHENK. S
7 - 17	1308.7024	1307.6951	1307.5421	117	0	K. SNMCCSPPLR. H
92 - 103	1330.6993	1329.6920	1329.6823	7	0	K. ANLCVGINNVTR. T
108 - 123	1584.8049	1583.7976	1583.7613	23	0	R. MPAKPAGASEGESQPK. R
108 - 124	1740.8432	1739.8359	1739.8624	-15	1	R. MPAKPAGASEGESQPK. S
125 - 134	1092.5612	1091.5539	1091.5823	-26	1	R. SKTVDNVTVTK. L
127 - 134	877.4499	876.4426	876.4553	-14	0	K. TVDNVTVTK. L
135 - 145	1179.6310	1178.6237	1178.6408	-14	0	K. LGTSAQQLHPK. S
217 - 223	807.4535	806.4463	806.3923	67	0	R. TETFPGR. R
217 - 224	963.5023	962.4950	962.4934	2	1	R. TETFPGR. Y
224 - 231	993.5337	992.5264	992.5152	11	1	R. RYSNQLGR. G
232 - 238	765.4524	764.4451	764.3817	83	0	R. GINYGNK. T
260 - 268	1157.5975	1156.5902	1156.4536	118	1	K. ATSRCCSCR. -

Spot No.: 27

Mascot score: 145 Sequence coverage %: 42

NCBI accession No.: gi| 27752799

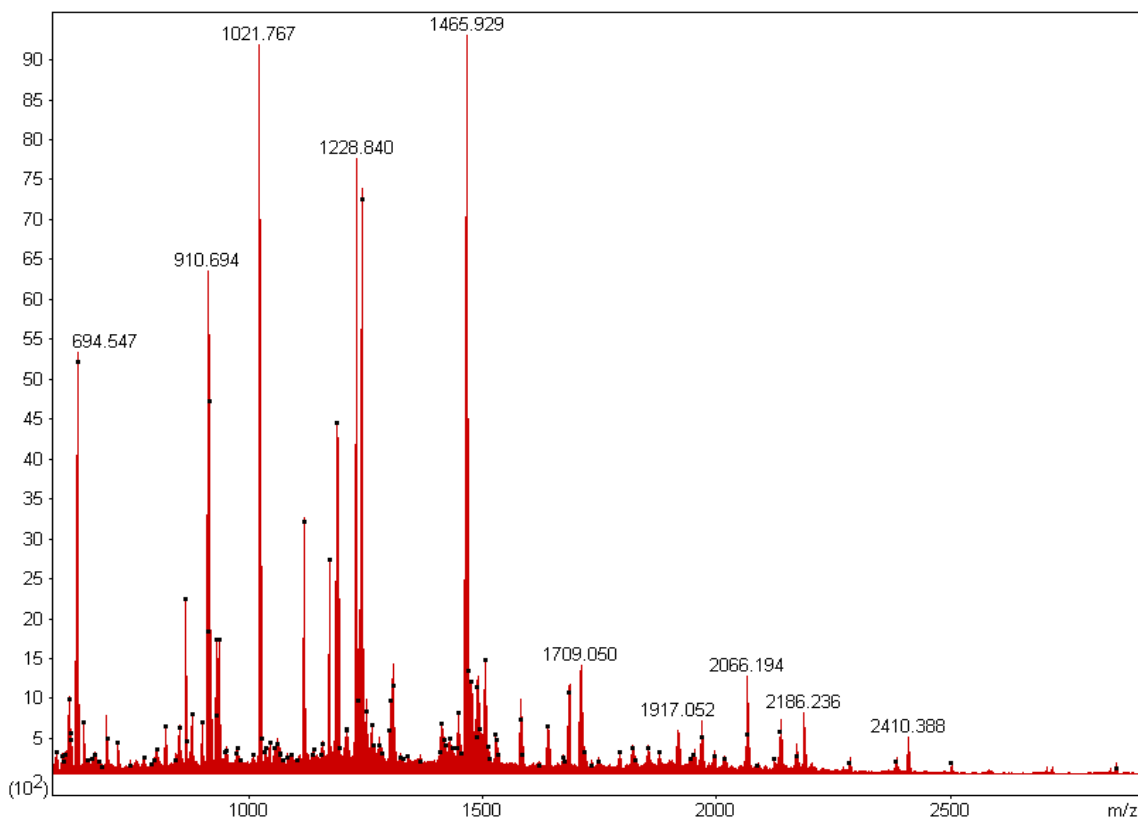
Matched peptides No.: 26

Total peptides No.: 106

Calculated Mr: 47920

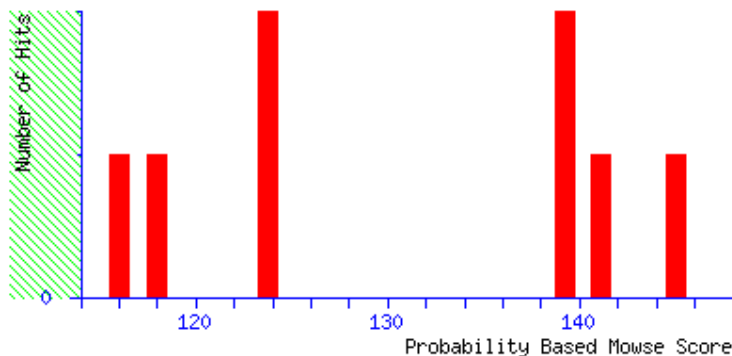
Calculated pI: 6.12

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Red**

1 **KLTYTPEYE TKD**TDILAAF RVTVPQGVPP EEAGA AVAAE SSTGTWTTVW
51 TDGLTSLDRY KGRCYHIEPV PGEETQFIAY VAYPLDLFEE GSVTNMFTSI
101 VGNVFGFK**AL AAL**REDLRI **PPAYTKTFQG PPHGIQVERD** KLNKYGRPLL
151 GCTIKPKLGL SAKNYGRA**VY E**CLRGGLD**F**T **KDDENVNSQP FMR**WRDRFLF
201 CAEAIYKSQA ETGEIK**GHYL N**ATAGT**CEEM IKR**AVFAREL GVPIVMHDYL
251 TGGFTANTSL SHYCR**DNGLL L**HIHRAM**HAV IDR**QKNH**GMH FR**VLAKALRL
301 **SGGDH**HAGT **VVGK**LEG**DRE S**T**LGF**V**DLR** DDYVEKDRSR GIFFTQDWVS
351 LPGVLPVASG GIHVWHMPAL TEIFGDDSVL QFGGGTLGHP WGNAPGAVAN
401 **RVALEACVQA R**NEGRDL**AVE G**NEI**I**REACK

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 21	2410.3885	2409.3812	2409.1740	86	1	K.LTYTPEYETK TDILAAFR.V
13 - 21	1021.7666	1020.7593	1020.5240	231	0	K.DTDILAAFR.V
109 - 119	1240.9356	1239.9283	1239.7299	160	1	K.ALAALREDLR.I
115 - 126	1415.9373	1414.9300	1414.7820	105	1	R.LEDLRIPPAYTK.T
120 - 126	789.6769	788.6697	788.4432	287	0	R.IPPAYTK.T
127 - 139	1465.9295	1464.9222	1464.7474	119	0	K.TFQGGPPHGIQVER.D
127 - 141	1709.0495	1708.0422	1707.8693	101	1	K.TFQGGPPHGIQVERDK.L
168 - 174	910.6939	909.6867	909.4378	274	0	R.AVYECLR.G
175 - 193	2170.1670	2169.1597	2168.9797	83	1	R.GGLDFTKDDENVNSQPFMR.W
175 - 193	2186.2364	2185.2291	2184.9746	116	1	R.GGLDFTKDDENVNSQPFMR.W Oxidation (M)
217 - 233	1951.0774	1950.0701	1949.9087	83	1	K.GHYLNATAGTCEEMIKR.A
217 - 233	1967.1414	1966.1341	1965.9037	117	1	K.GHYLNATAGTCEEMIKR.A Oxidation (M)
266 - 275	1187.8508	1186.8435	1186.6571	157	0	R.DNGLLLHIHR.A
276 - 283	912.7179	911.7106	911.4647	270	0	R.AMHAVIDR.Q
276 - 283	928.6998	927.6925	927.4596	251	0	R.AMHAVIDR.Q Oxidation (M)
284 - 292	1154.7452	1153.7379	1153.5563	157	1	R.QKNHGMHFR.V
284 - 292	1170.8137	1169.8064	1169.5512	218	1	R.QKNHGMHFR.V Oxidation (M)
286 - 292	898.6489	897.6416	897.4028	266	0	K.NHGMHFR.V
286 - 292	914.6479	913.6406	913.3977	266	0	K.NHGMHFR.V Oxidation (M)
300 - 314	1447.9304	1446.9231	1446.7579	114	0	R.LSGGDH>HAGTVVVGK.L
315 - 330	1820.1394	1819.1321	1818.9476	101	1	K.LEGDRESTLGFVDLLR.D
320 - 330	1249.8421	1248.8348	1248.6714	131	0	R.ESTLGFVDLLR.D
402 - 411	1116.8063	1115.7990	1115.5757	200	0	R.VALEACVQAR.N
412 - 426	1685.0548	1684.0475	1683.8540	115	1	R.NEGRDLAVEGNEIIR.E
416 - 426	1228.8397	1227.8324	1227.6459	152	0	R.DLAVEGNEIIR.E
416 - 430	1717.0479	1716.0406	1715.8512	110	1	R.DLAVEGNEIIREACK.-

Spot No.: 28

Mascot score: 104 Sequence coverage %: 24

NCBI accession No.: gi| 2623298

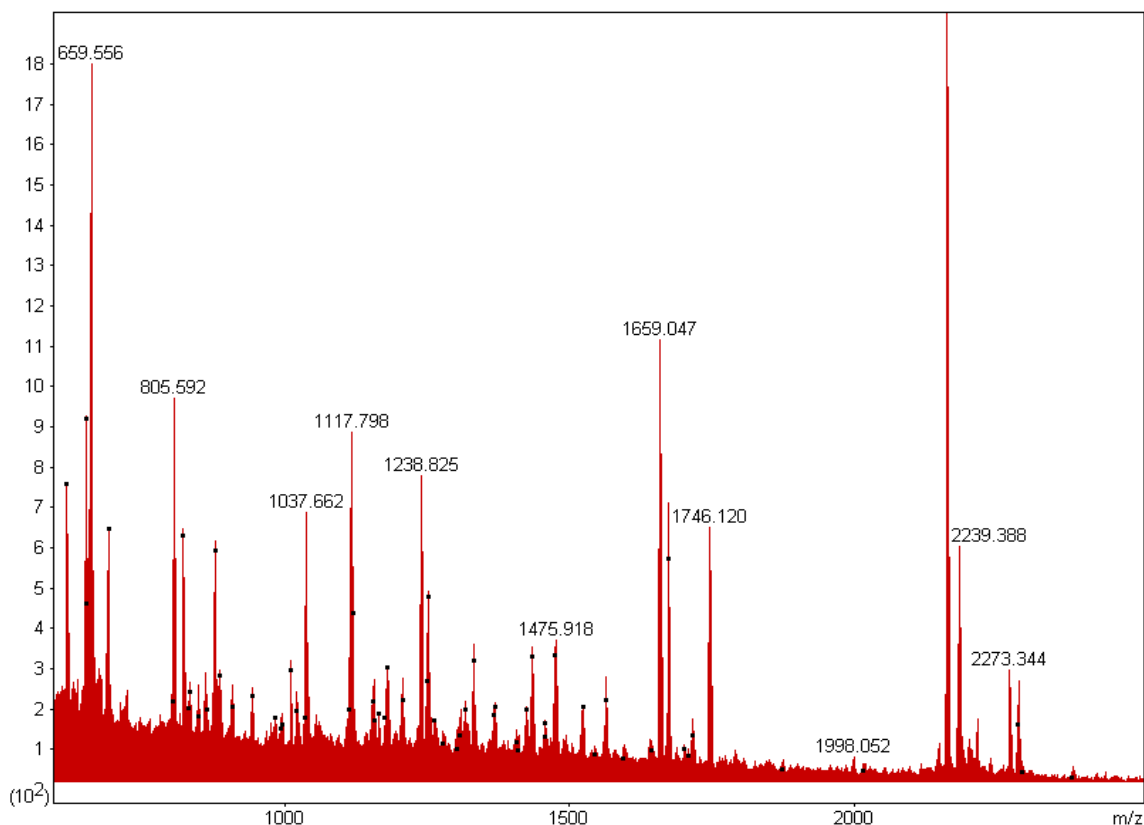
Matched peptides No.: 21

Total peptides No.: 56

Calculated Mr: 86044

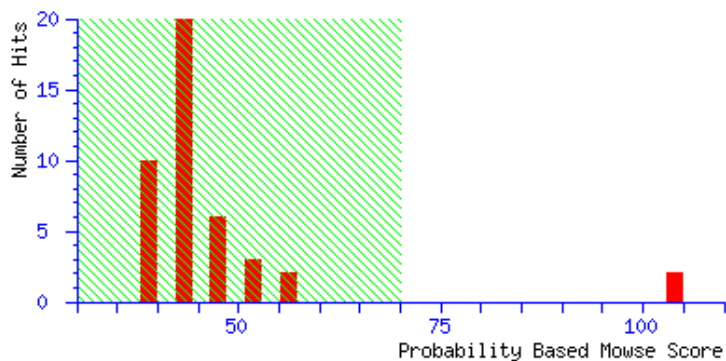
Calculated pI: 5.57

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MPWRGAGVAV PMFSVRSEDD VGVGEFLDLK LLVDWAVDSG LHLVQLLPVN
51 DTSVHKMWWD SYPYSSLSVF ALHPLYLRVQ ALSERLPEDI KRLLSNILAD
101 LFRSLSGRNS EGEESTGQEC NESLVRRFID FLTFTSLKKI ASDKRDIVFL
151 NGLCLYQHDV FKRLQAIGSY DVDYEATMET KLSIAKKIFD IEKDQTLNSS
201 TFQKFFSENE GWLKPAAFC FLRDFFETSD HSQWGTFSYD TDDKLSAAAE
251 YARKKGVVLK GDLPIGVDRN SVDTWVYRNL FRMNTSTGAP PDYFDKNGQN
301 WGFPTYNWEE MSKDNYAWWR ARLTQMGKYF TAYRIDHILG FFRIWELPAH
351 AMTGLVGKFR PSIPLSQEEL EKEGIWDFDR LSKPYIQKFF LEEKFGDFWP
401 FIASNFLNET QKDMYEFKED CNTEKKIVAK LKSLAEKSLL LENEDKVRD
451 VFDILRNVVL IKDPEDARKF YPRFNIEDTS SFQDLDHSK NVLKRLYYDY
501 YFQRQEDLWR KNALKTLPAL LNSSNMLACG EDLGLIPSCV HPKHMLKLIV
551 TQVMQELGLV GLRIQRMPSE SDVKFGIPSN YDYMTVCAPS CHDCSTLRAW
601 WEEDEERRQQ YFKEVIGVDG IPSPQCIPEI THFILRQHVE APSMWAIFPL
651 QDMMALKEEY TTRPATEETI NDPTNPKHYW RYRVHVTLDS LLKDTDLKST
701 IKNLVSSSGR SVPANVSGED INKSRGEVIA NGSTKPNP

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence	Oxidation (M)
5 - 16	1206.8092	1205.8019	1205.6227	149	0	R.GAGVAV PMFSVR .S	Oxidation (M)
17 - 30	1522.9188	1521.9115	1521.7199	126	0	R. SEDDVGVGEFLDLK .L	
79 - 85	802.6003	801.5930	801.4344	198	0	R.VQ ALSER .L	
140 - 145	689.4823	688.4751	688.3868	128	1	K.IASDKR.D	
182 - 187	659.5560	658.5487	658.4377	169	1	K.L SI AKK.I	
261 - 269	941.6666	940.6594	940.4978	172	0	K.GD LP IGVDR.N	
314 - 320	1010.6245	1009.6172	1009.4406	175	0	K.D NY AWWR.A	
329 - 334	820.5739	819.5667	819.3915	214	0	K.Y FT AYR.I	
335 - 343	1117.7975	1116.7902	1116.6080	163	0	R.IDHILG FFR .I	
359 - 372	1673.0647	1672.0574	1671.8831	104	0	K.FR PSIPLSQEEL E.K	
373 - 380	1037.6623	1036.6550	1036.4614	187	0	K.E GI WDFDR.L	
438 - 448	1315.8707	1314.8634	1314.7143	113	1	K.S LLLE NEDKVR.R	
450 - 456	877.6575	876.6502	876.4705	205	0	R.D VF DILR.N	
457 - 468	1368.9142	1367.9069	1367.7409	121	1	R.N VV L IKDP EDAR.K	
470 - 473	582.4719	581.4646	581.2962	290	0	K.F YPR .F	
474 - 490	1998.0519	1997.0446	1996.8650	90	0	R.F NIEDTSSFQD LDH SK .N	
496 - 504	1330.8032	1329.7959	1329.6030	145	0	R.L YDY Y FQR .Q	
505 - 510	846.5635	845.5562	845.4032	181	0	R.Q ED LWR.K	
599 - 607	1249.7305	1248.7232	1248.5047	175	0	R.A W W EEDEER .R	
599 - 608	1405.7905	1404.7832	1404.6058	126	1	R.A W W EEDEER .Q	
694 - 702	1020.6492	1019.6419	1019.5499	90	1	K.D TD LK STIK .N	

Spot No.: 29

Mascot score: 110 Sequence coverage %: 24

NCBI accession No.: gi| 312283107

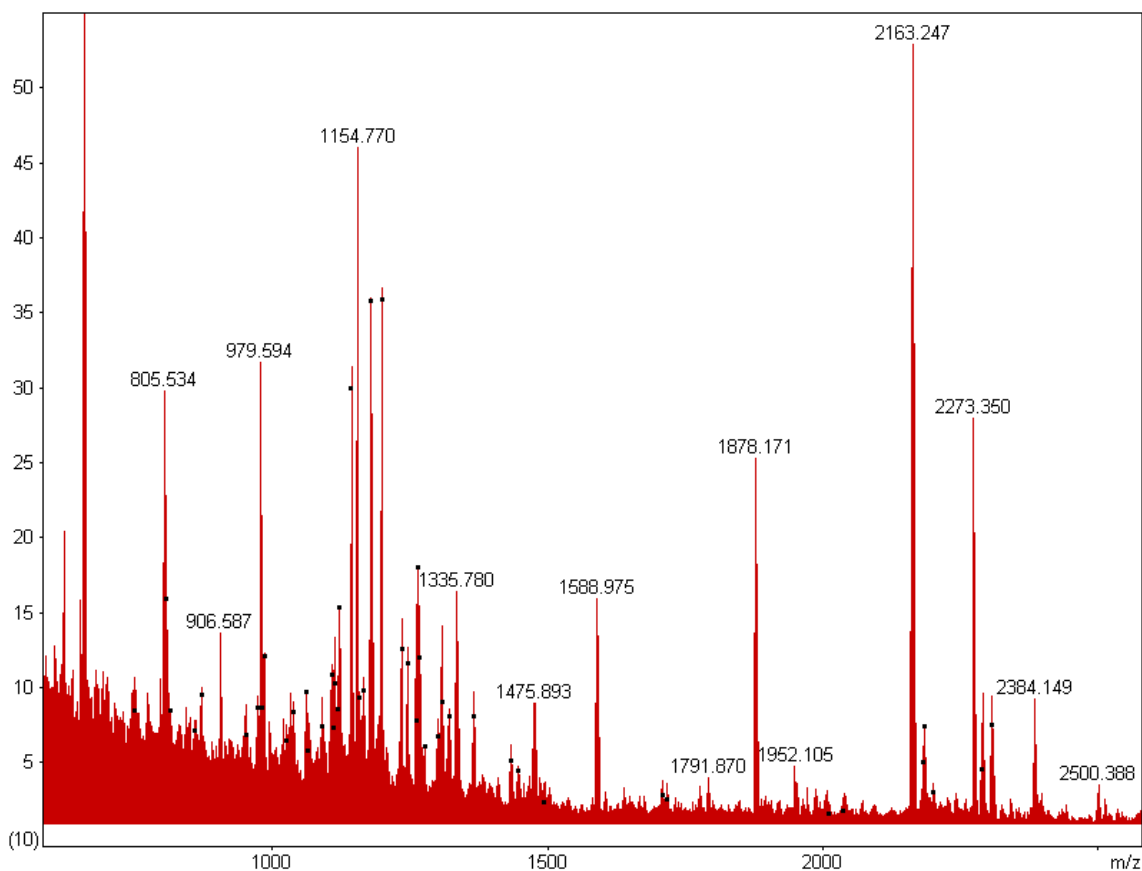
Matched peptides No.: 17

Total peptides No.: 42

Calculated Mr: 78095

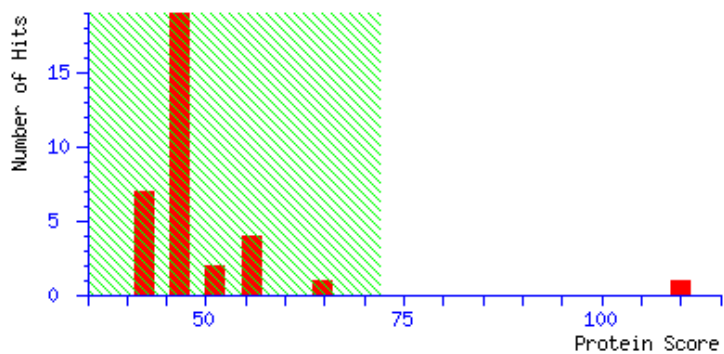
Calculated pI: 5.74

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MEELDRSRAF AKDVKRIVVK VGTAVVTGKG GRLALGRLGA LCEQLAELNS
51 DGFEVILVSS GAVGLGRQRL RYRQLVNSSF ADLQKPQSEL DGKACAGVGQ
101 SSLMAYYETM FDQLDVTAAQ LLVNDSSFRD KDFRKQLNET VKSMLDLRVI
151 PIFNENDAIS TRRAPYQDSS GIFWDNDSLAL ALLALELKAD LLILLSDVEG
201 LYTGPPSDPN SKLIHTFIKE KHQDEITFGD KSRLGRGGMT AKVKAAVNAA
251 YAGIPVIITS GYSAENIDKV LRGLRVGTLF HQDARQWAPI TDSTARDMAV
301 AAESSRKLQ ALSSEDRKQI LYNIADALEA NEKTIRDENE LDVSAAQEAG
351 FEESLVARLV MTPAKISSLA ASVRKLADME DPIGRVLKKT EVADGLVLEK
401 TSSPLGVLLI VFESRPDALV QIASLAIRSG NGLLLKGGKE ARRSNAILHK
451 VITDAIPETV GGKLIGLVTS REEIPDLLKL DDVIDLVIPR GSNKLVSQIK
501 NTKIPVLGH ADGICHVYVD KSCNLDMAKR IISDAKLDYP AACNAMETLL
551 VHKDLEQNGL NELIFVLQSN GVTVYGGPRA SAILNIPEAR SFNYEYCSKA
601 CTVEVVEDVY GAIDHIHRHG SAHTDCIVTE DTEVAELFLR QVDSAAVFHN
651 ASTRFSDGAR FGLGAEVGIS TGRIHARGPV GVEGLLTTRW LMRGKGQVVD
701 GDNGIAYTHQ DIPIQS

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
130 - 134	680.4588	679.4515	679.3289	180	1	R.DKDFR.K
149 - 162	1588.9751	1587.9678	1587.8257	90	0	R.VIPIFNENDAISTR.R
220 - 231	1446.8472	1445.8399	1445.6787	112	1	K.EKHQDEITFGDK.S
234 - 242	906.5870	905.5797	905.4753	115	1	R.LGRGGMTAK.V Oxidation (M)
237 - 244	807.4981	806.4908	806.4320	73	1	R.GGMTAKVK.A Oxidation (M)
276 - 285	1143.7019	1142.6946	1142.5833	97	0	R.VGTLFQDAR.Q
286 - 296	1245.7168	1244.7095	1244.6149	76	0	R.QWAPITDSTAR.D
297 - 303	749.4634	748.4562	748.3538	137	0	R.DMAVAAR.E Oxidation (M)
464 - 471	858.6027	857.5955	857.5334	72	0	K.LIGLVTSR.E
480 - 490	1267.8337	1266.8264	1266.7184	85	0	K.LDDVIDLVIPR.G
580 - 590	1154.7698	1153.7625	1153.6455	101	0	R.ASAILNIPEAR.S
600 - 618	2183.2279	2182.2206	2182.0477	79	0	K.ACTVEVVEDVYGAIDHIHR.H
619 - 640	2500.3880	2499.3807	2499.1700	84	0	R.HGSAHTDCIVTEDTEVAELFLR.Q
655 - 660	652.3950	651.3877	651.2976	138	0	R.FSDGAR.F
661 - 673	1263.7771	1262.7698	1262.6619	85	0	R.FGLGAEVGISTGR.I
678 - 689	1198.7764	1197.7691	1197.6718	81	0	R.GPVGVEGLLTTR.W
690 - 693	621.4161	620.4088	620.3104	159	0	R.WLMR.G Oxidation (M)

Spot No.: **30**

Mascot score: **102** Sequence coverage %: **16**

NCBI accession No.: **gi| 157342076**

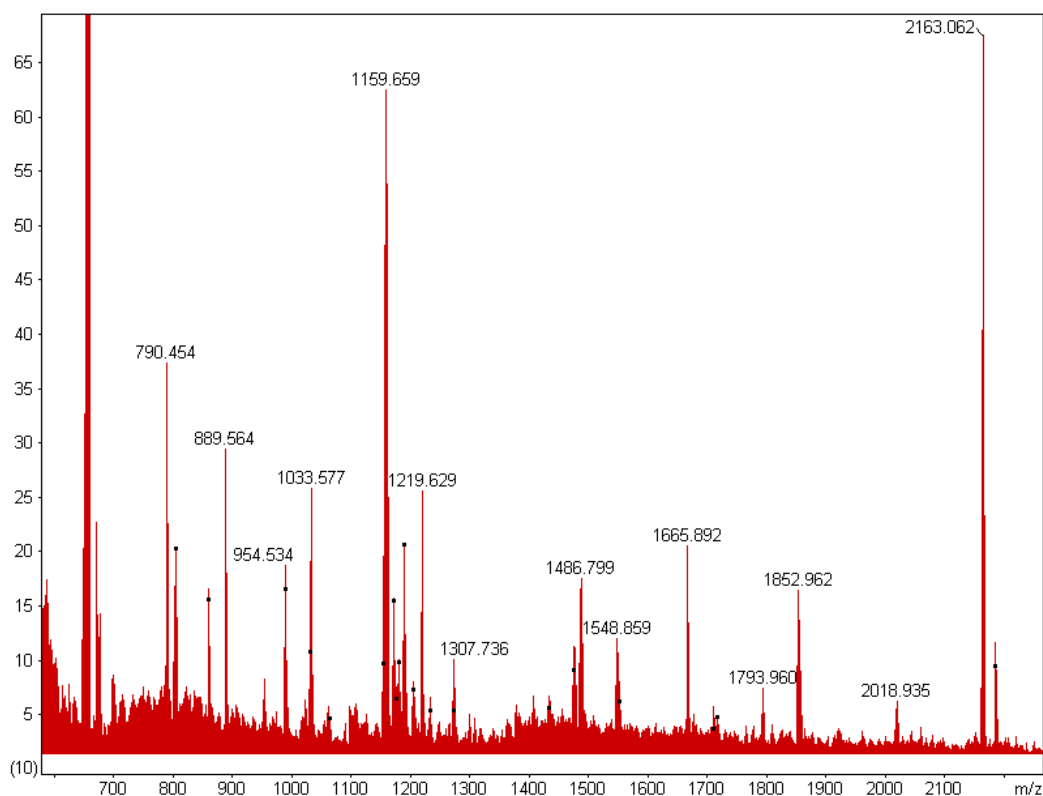
Matched peptides No.: **13**

Total peptides No.: **26**

Calculated Mr: **78285**

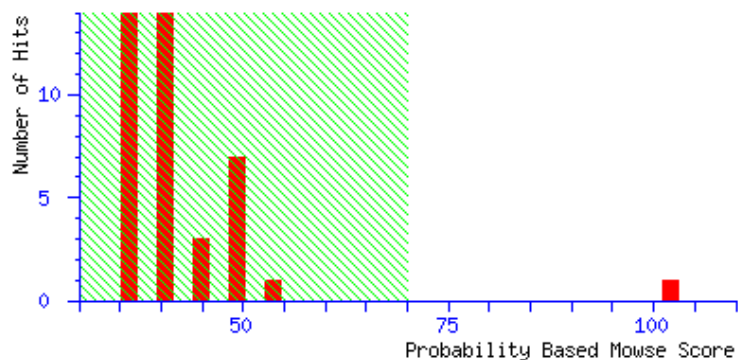
Calculated pI: **4.98**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

 1 MASNEGFLTN EQRETLKMAT QNAEGLSSSP KSPTSLLSEH HIKVPVSGKA
51 PTAGIAVRHV RRSMSGKQFVR VKKDGAGGKG TWGKLLDTDG ESHIDRNDPN
101 YDSGEEPYQL VGSTISDPLD EYKKAVVSII EEYFSTGDVE LAASDLRELG
151 SNEYHPYFIK RLVSMAMDRH DKEKEMASVL LSALYADVIS SAQISQGGFI
201 LLESADDLAV DILDAVDVLA LFIARAVVDD ILPPAFLTRA KKTLPESSKG
251 HQVIQTAEKS YLSAPHHAEI VERRWGGSTH ITVEEVKKKI ADLLREYVES
301 GDAFEACRCI RELGVSFFHH EVVKRALVLA MEIRTAEPLI LKLLKEAAEE
351 GLISSQMLK GFARLAESLD DLALDIPSAK TLFELLVPAK ISQGWLDAF
401 LKPAGEDGEV HNEDEKVRK FKEEAVAIH EYFLSDDIPE LIRSLEDLGM
451 PKFNPIFLKK LITLAMDRKN REKEMASVLL SSLHIEIFST EDIVNGFVML
501 LESAEPTALD VLDASNELAL FLARAVIDDV LAPLNLEEIG SKLPPNCSGS
551 ETVHMARSLI AARHAGERIL RCWGGGTGWA VEDAKDKIMK LLEEYESGGD
601 VGEACQCIRD LGMPFFNHEV VKKALVMAME KKNDRMLDLL QECFCEGLIT
651 INQMTKGFGR IKDGLDDLAL DIPNAEEKFS FYVEYARKMG WLLASFESSA
701 ATDS

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Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
74 - 84	1033.5765	1032.5692	1032.4989	68	1 K.DGAGGKG TWGL .L
162 - 169	954.5337	953.5264	953.4310	100	0 R.LVSMAMDR.H 2 Oxidation (M)
170 - 174	656.1854	655.1782	655.3289	-230	1 R.HDKEK.E
242 - 249	889.5638	888.5565	888.4916	73	1 K.KTLPESSK.G
243 - 259	1852.9615	1851.9542	1851.9690	-8	1 K.TLPESSKG HQVIQTAEK .S
325 - 334	1171.6483	1170.6410	1170.6907	-42	1 K.RALV LAMEIR .T
326 - 334	1031.5831	1030.5758	1030.5845	-8	0 R.ALVL LAMEIR .T Oxidation (M)
444 - 452	989.5998	988.5926	988.4899	104	0 R.SLEDL GMPK .F
558 - 568	1180.6344	1179.6271	1179.6472	-17	1 R.SL IAARHAGER .I
586 - 590	650.1971	649.1899	649.3469	-242	1 K.DKIMK.L Oxidation (M)
591 - 609	2185.0557	2184.0484	2183.9463	47	0 K.LLEEYESGGD VGEACQCIR .D
610 - 622	1548.8589	1547.8516	1547.7443	69	0 R.DL GMPFFNHEVVK .K Oxidation (M)
657 - 662	677.3934	676.3861	676.4020	-24	1 K.G FGRIK .D

Spot No.: **31**

Mascot score: **98** Sequence coverage %: **20**

NCBI accession No.: **gi| 4586021**

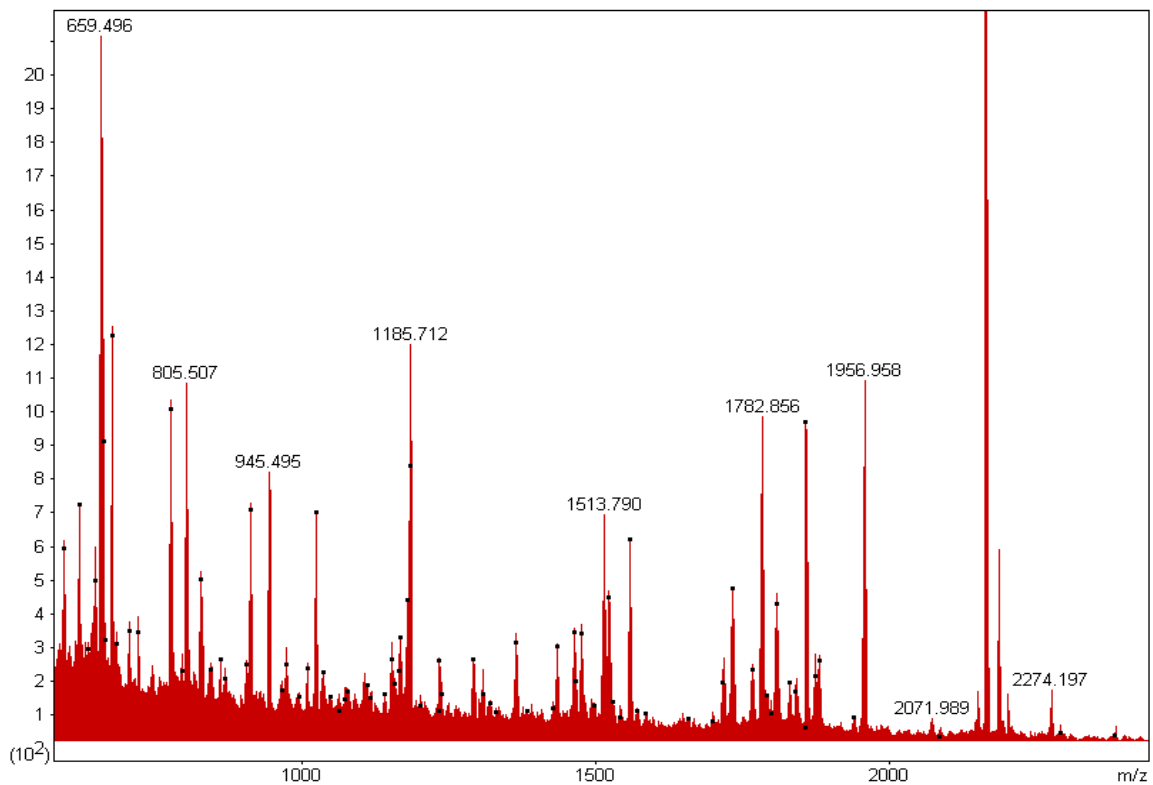
Matched peptides No.: **23**

Total peptides No.: **68**

Calculated Mr: **98720**

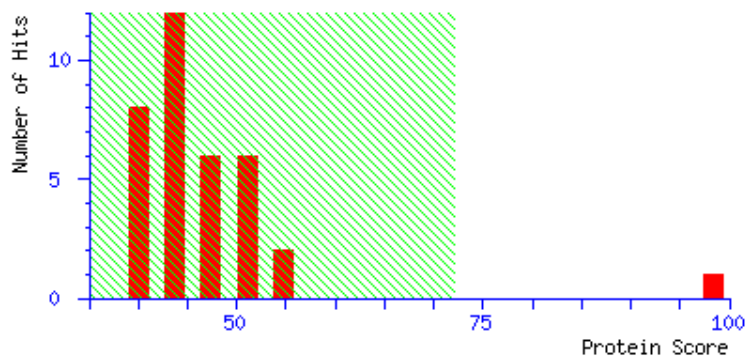
Calculated pI: **5.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Red**

1 MASEHPFKGI FTTLPKPGGG EFGK**FYSLPA** LNDPRVDKLP YSIR**ILLESA**
 51 **IRNCDNFQVT** KEDVEKIIDW EKTSPK**QVEI** **PFKPARVLLQ** DFTGVPVAVD
 101 LACMRDAMNK LGSDSNKINP LVPVDLVIDH SVQVDVARSE NAVQANMELE
 151 FQRNKERFAF LKWGSTAFQN MLVVPPGSGI VHQVNLEYLG **RVVFN**TK**GLL**
 201 YPDSVVGTDS HTTMIDGLGV AGWGVGGIEA EATMLGQPMS MVLPGVVGFK
 251 LAGKMRNGVT ATDLVLTVTQ MLRKHGVVVGK FVEFYGNMGMS GLSLADRATI
 301 ANMSPEYGAT MGFFPVVDHVT LQYLKLTGRS **DE**TVAMIEAY**** **LRAN**NMFVDY****
 351 **NEPQ**QDRVYS**** SYLELNDDV EPCISGPKRP HDRVTLKEMK ADWHSCLDISK
 401 **VG**FKGF**AI**PK**** EAQEKVVNFS FDGQPAELKH GSVVIAAITS CTNTSNPSVM
 451 LGAGLVAKKA CDLGLQVKPW IKTSLAPGSG VVTKYLLKSG LQEYLN**EQGF**
 501 NIVGYGCTTC IGNSGEINES VGAAITENDI VAAAVLSGNR **N**FEGRVHPL**T**
 551 **RAN**YL**AS**PPL**** VVAYALAGTV NIDFETEPG KGNKGDVFL RDIWPTEEI
 601 AEVVQSSVLP DMFRATYESI **TK**GNPMW**NKL** SVPENTLYSW DPNSTYIHEP
 651 PYFKDMTMDP PGPHNVKDAY CLLNFGDSIT TDHISPAGNI QKDS**PAAKFL**
 701 MERGVDR**KDF** **NSYGSRRGND** **EIMARGTFAN** **IRIVNKL**MNG**** EVGPK**TVHIP**
 751 **S**GEKLSV**FDA** **AMRYKSSGED** **TIILAGAEYG** **SGSSRDWA**AK**** **GPMLQ**GVKAV****
 801 IAKSFERIHR SNLVGMGIIP LCFKSGEDAD TLGLTGHERY **TIHL**PTDISE****
 851 **IRPGQDV**TVT**** TDNGK**S**FTCT**** **VRFDTEVELA** YFNHGGILPY VIRNLSKQ

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
25 - 35	1292.7140	1291.7067	1291.6561	39	0	K.FYSLPALNDPR.V
45 - 52	914.6371	913.6298	913.5596	77	0	R.ILLESAIR.N
77 - 86	1184.7371	1183.7298	1183.6713	49	1	K.QVEIPFKPAR.V
192 - 197	707.4732	706.4660	706.4014	91	0	R.VVENTK.G
330 - 342	1497.7968	1496.7895	1496.7181	48	0	R.SDET VAMIEAYLR.A
330 - 342	1513.7895	1512.7822	1512.7130	46	0	R.SDET VAMIEAYLR.A Oxidation (M)
343 - 357	1840.8405	1839.8332	1839.7846	26	0	R.ANN MFVDYNEPQDR.V
401 - 410	1063.5641	1062.5568	1062.6226	-62	1	K.VG FKGF AI PK.E
541 - 545	622.4040	621.3968	621.2871	177	0	R.N FEGR.V
546 - 551	722.5078	721.5005	721.4235	107	0	R.VH PLTR.A
623 - 629	862.4907	861.4834	861.3803	120	0	K.GN PMW NK.L Oxidation (M)
708 - 716	1073.5702	1072.5629	1072.4938	64	1	R.KD FN SYGSR.R
709 - 716	945.4952	944.4879	944.3988	94	0	K.D FN SYGSR.R
717 - 725	1077.5212	1076.5139	1076.5033	10	1	R.RG NDE IMAR.G Oxidation (M)
726 - 732	778.5166	777.5094	777.4133	124	0	R.G TFANIR.I
726 - 736	1232.6783	1231.6710	1231.7037	-27	1	R.G TFANIRIVNK.L
746 - 754	967.5365	966.5292	966.5134	16	0	K.T VHIP SGEK.L
755 - 763	1009.5864	1008.5791	1008.5062	72	0	K.L SVF DAAMR.Y
755 - 763	1025.5695	1024.5622	1024.5012	60	0	K.L SVF DAAMR.Y Oxidation (M)
766 - 785	1956.9583	1955.9510	1955.9072	22	0	K.S SGED TIILAGAEY SGSSR.D
791 - 798	829.3971	828.3898	828.4528	-76	0	K.G PMLQ GVK.A
840 - 852	1557.7875	1556.7802	1556.8198	-25	0	R.Y TIHL PTDISEIR.P
866 - 872	870.5138	869.5065	869.4066	115	0	K.S FTCT VR.F

Spot No.: **32**

Mascot score: **123** Sequence coverage %: **16**

NCBI accession No.: **gi| 4586021**

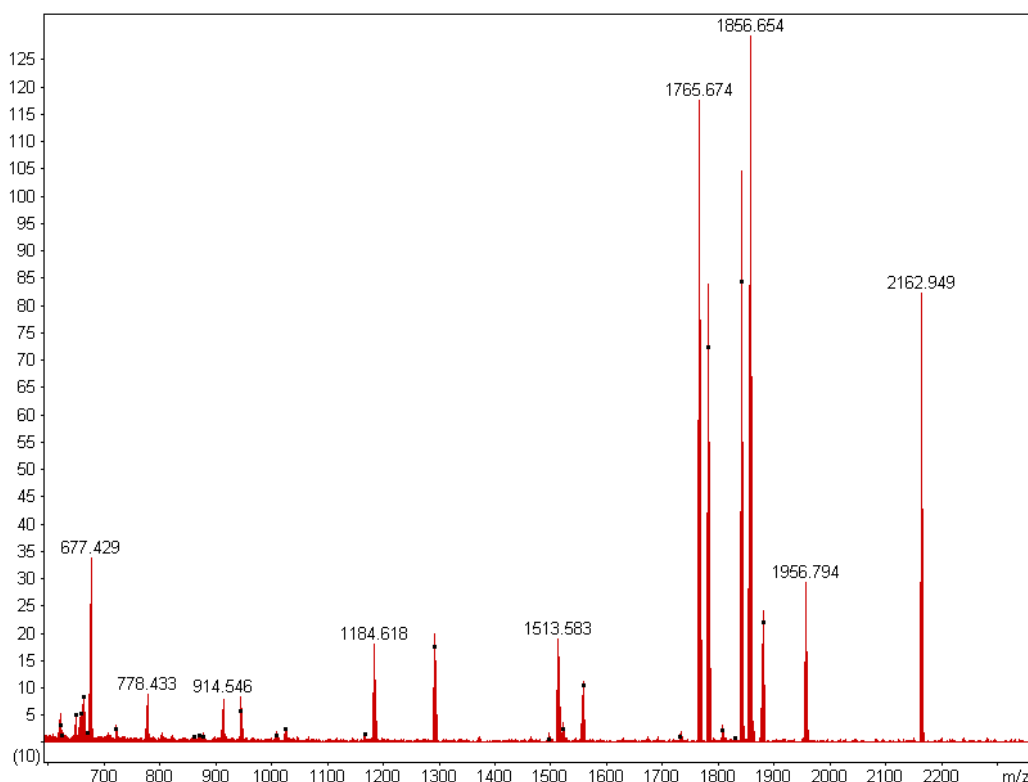
Matched peptides No.: **18**

Total peptides No.: **33**

Calculated Mr: **98720**

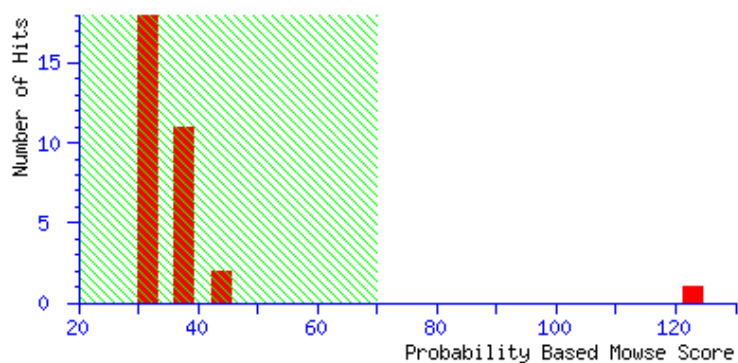
Calculated *pI*: **5.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASEHPFKGI FTTLPKPGGG EFGKFYSLPA LNDPRVDKLP YSIRILLESA
51 IRNCDFQVT KEDVEKIIDW EKTSPKQVEI PFKPARVLLQ DFTGVPAVVD
101 LACMRDAMNK LGSDSNKINP LVPVDLVIDH SVQVDVARSE NAVQANMELE
151 FQRNKERFAF LKWSTAFQN MLVVPPGSGI VHQVNLEYLG RVVFNTKGLL
201 YPDSVVGTDS HTTMIDGLGV AGWGVGGIEA EATMLGQPMS MVLPGVVGFK
251 LAGKMRNGVT ATDLVLTVTQ MLRKHGVVGK FVEFYGNGMS GLSLADRATI
301 ANMSPEYGAT MGFFPVDHVT LQYLKLTGRS DETVAMIEAY LRANMFVDY
351 NEPQQRVVYS SYLELNLDDV EPCISGPKRP HDRVTLKEMK ADWHSCLDSK
401 VGFKGFAIPK EAQEKVVNFS FDGQPAELKH GSVVIAAITS CTNTSNPSVM
451 LGAGLVAKKA CDLGLQVKPW IKTSLAPSGS VVTKYLLKSG LQEYLNEQGF
501 NIVGYGCTTC IGNSGEINES VGAAITENDI VAAAVLSGMR NFEGRVHPLT
551 RANYLASPPL VWAYALAGTV NIDFETEPIG KGKNGKDVFL RDIWPTTEEI
601 AEVVQSSVLP DMFRATYESI TKGNPMWNKL SVPENTLYSW DPNSTYIHEP
651 PYFKDMTMDP PGPHNVKDAY CLLNFGDSIT TDHISPAGNI QKDSPAAKFL
701 MERGVDRKDF NSYGSRRRGND EIMARGTFAN IRIVNKLMNG EVGPKTVHIP
751 SGEKLSVFDA AMRYKSSGED TIILAGAEYG SGSSRDWAAK GPMLQGVKAV
801 IAKSFERIHR SNLVGMGIIP LCFKSGEDAD TLGLTGHERY TIHLPTDISE
851 IRPGQDVTVT TDNGKSFTCT VRFDTEVELA YFNHGGILPY VIRNLSKQ

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
25 - 35	1292.5758	1291.5685	1291.6561	-68	0	K.FYSLPALNDPR.V
45 - 52	914.5460	913.5388	913.5596	-23	0	R.ILLESAIR.N
77 - 86	1184.6179	1183.6106	1183.6713	-51	0	K.QVEIPFKPAR.V
139 - 153	1765.6744	1764.6671	1764.8101	-81	0	R.SENAVQANMELEFQR.N
139 - 153	1781.6735	1780.6662	1780.8050	-78	0	R.SENAVQANMELEFQR.N Oxidation (M)
158 - 162	625.3991	624.3918	624.3635	45	0	R.FAFLK.W
330 - 342	1497.6232	1496.6159	1496.7181	-68	0	R.SDETVAMIEAYLR.A
330 - 342	1513.5832	1512.5759	1512.7130	-91	0	R.SDETVAMIEAYLR.A Oxidation (M)
343 - 357	1840.6524	1839.6451	1839.7846	-76	0	R.ANNMFVDYNEPQQDR.V
343 - 357	1856.6539	1855.6466	1855.7795	-72	0	R.ANNMFVDYNEPQQDR.V Oxidation (M)
541 - 545	622.3393	621.3321	621.2871	72	0	R.NFEGR.V
709 - 716	945.3825	944.3752	944.3988	-25	0	K.DFNSYGSR.R
726 - 732	778.4329	777.4256	777.4133	16	0	R.GTFANIR.I
755 - 763	1009.4719	1008.4646	1008.5062	-41	0	K.LSVFDAAMR.Y
755 - 763	1025.4610	1024.4537	1024.5012	-46	0	K.LSVFDAAMR.Y Oxidation (M)
766 - 785	1956.7935	1955.7862	1955.9072	-62	0	K.SSGEDTIILAGAEYSGSSR.D
825 - 839	1557.5818	1556.5745	1556.7067	-85	0	K.SGEDADTLGLTGHHER.Y
866 - 872	870.4208	869.4135	869.4066	8	0	K.SFTCTVR.F

Spot No.: **33**

Mascot score: **93** Sequence coverage %: **12**

NCBI accession No.: **gi| 15232704**

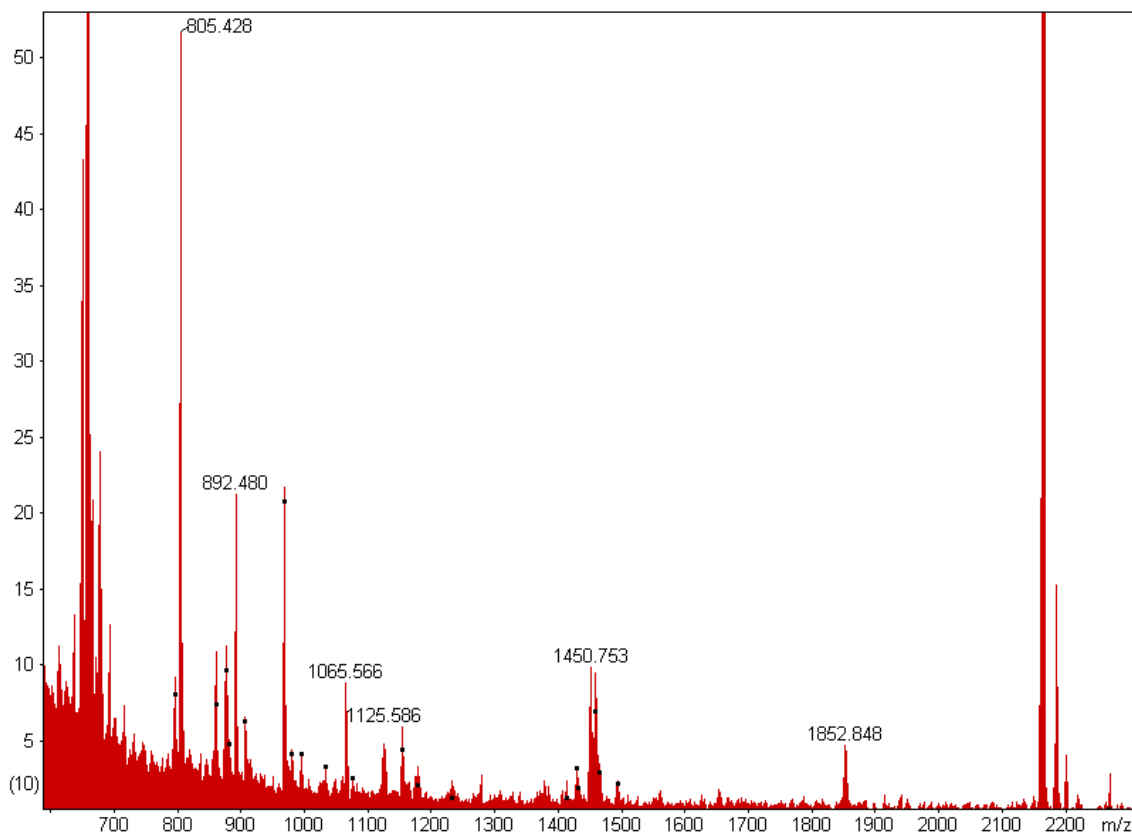
Matched peptides No.: **12**

Total peptides No.: **24**

Calculated Mr: **95499**

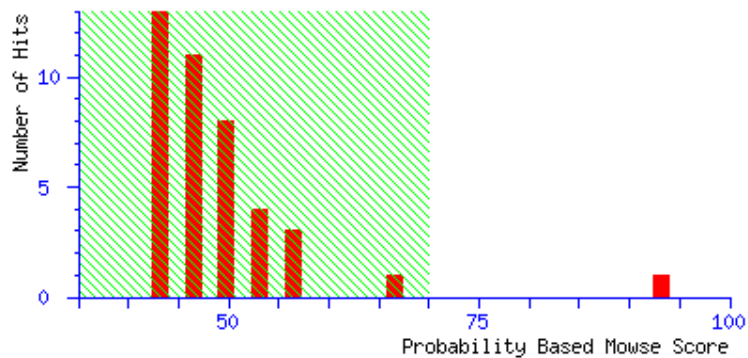
Calculated pI: **5.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MANANGKAAT SLPEKISAKA NPEADDATEI AGNIVYHAKY **SPHF**SPLKFG
51 PEQALYATAE SLRDRLIQLW NETYVHFNKV DPKQTYYSLSM EYLQGRALTN
101 AIGNLNLQGP YADALRTLGY ELEELAEQEK DAALGNGGLG RLASCFLDSM
151 ATLNLPANGY GLRYRHGLFK QIITKKGQEE IPEDWLEKFS **PWEIVRHVV**
201 **FPVRF**GK**VQ** **VNP**DGS**R**KWV DGDVVQALAY DVPIPGYGTK NTISLRLWEA
251 KARAEDLDF QFNEGEYELA AQLHSRAQQI CTVLYPGDAT ENGKLLRLKQ
301 QFFLCSASLQ DIISRFHERS TTEGSRKWSE FPSKVAVQMN DTHPTLAIPE
351 LMRLLMDDNG LGWDEAWDVT SKTVAYTNHT VLPEALEKWS **QSLM**WKL**LP**R
401 **HMEI**IEE**IDK** **RFV**QTIRDTR VDLEDKISSL SILDNNPQKP VVRMANLCVV
451 SSVTVNGVAQ LHSDILKAEL FADYVSIWPN KFQNKTINGIT PRRWLRFCSP
501 ELSDIITKWL KTDKWITDLD LLTGLR**QFAD** **NEEL**Q**SEWAS** **AKT**ANK**KRLA**
551 **QYIER**VTGVS IDPTSLFDIQ VKRIHEYKRO LMNILGVVYR FKCLKEMKPE
601 ERKKTVPRTV MIGGKAFATY TNAKRIVKLV NDVGDVVNSD PEVNEYLKVV
651 FVPNYNVTVA EMLIPGSELS QHISTAGMEA SGTSNMKFAL NGCLIIIGTLD
701 GANVEIREEV GEENFFLFGA TADQVPLRK **ERED**GL**FKPD** **PRFEEAKQFV**
751 **KSGV**FGSYDY GPLLDSLEGN TGFGRGDYFL VGYDFPSYMD AQAK**VDEAYK**
801 **DRK**GWLKMSI LSTAGSGKFS SDRTIAQYAK EIWNIEACPV P

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
40 - 48	1075.5512	1074.5439	1074.5498	-5	0	K.YSPHFSPLK.F
189 - 196	1033.5047	1032.4974	1032.5393	-41	0	K.FSPWEIVR.H
197 - 204	968.5232	967.5159	967.5240	-8	0	R.HDVVFPVR.F
205 - 217	1450.7534	1449.7461	1449.7365	7	1	R.FFGKVQVNPDGSR.K
389 - 396	1065.5662	1064.5589	1064.5113	45	0	K.WSQSLMWK.L
401 - 411	1412.7476	1411.7403	1411.7129	19	1	R.HMEIIEEIDKR.F
401 - 411	1428.7167	1427.7094	1427.7078	1	1	R.HMEIIEEIDKR.F Oxidation (M)
527 - 542	1852.8476	1851.8403	1851.8275	7	0	R.QFADNEELQSEWASAK.T
549 - 555	892.4796	891.4723	891.4814	-10	0	R.LAQYIER.V
731 - 742	1458.7519	1457.7446	1457.7263	13	1	K.EREDGLFKPDR.F
743 - 751	1125.5863	1124.5790	1124.5866	-7	1	R.FEEAKQFVK.S
795 - 802	995.5436	994.5364	994.4720	65	1	K.VDEAYKDR.K

Spot No.: **34**

Mascot score: **240** Sequence coverage %: **49**

NCBI accession No.: **gi| 4185573**

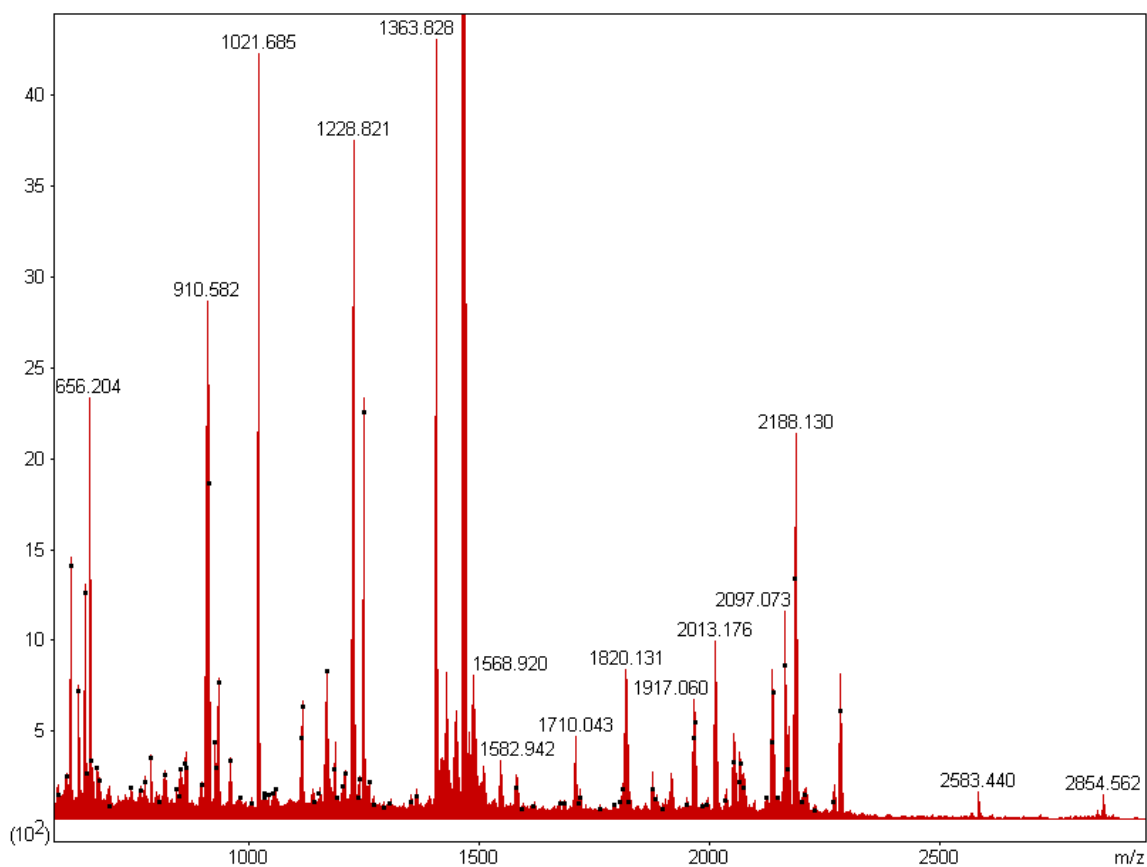
Matched peptides No.: **35**

Total peptides No.: **84**

Calculated Mr: **52905**

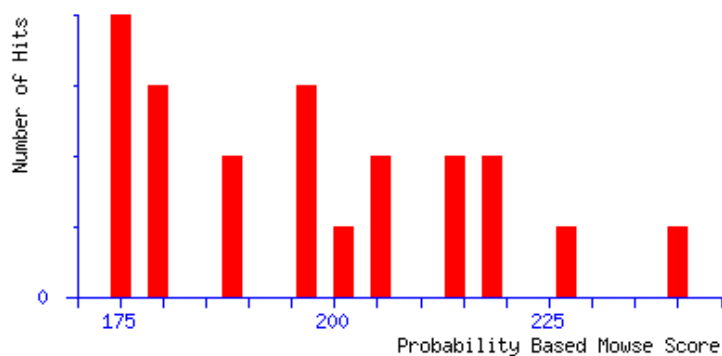
Calculated pI: **6.09**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 SVGFKAGVKE **YKLTYYTPEY ETKDIDLAA FRVTPQPGVP** PEEAGAAVAA
 51 ESSTGTWTTV WTDGLTSLDR YKGRCYGIEP VPGEENQYIA YVAYPLDLFE
 101 EGSVTNMFST IVGNVFGFKA LRALR**LEDLR IPPAYTKTFQ GPPHGIQVER**
 151 DKLNKYGRPL LGCTIKPK**LG LSAKNYGRAV YECLRGGLDF TKDDENVNSQ**
 201 **PFMRWRDRFL FCAEAIYKSQ AETGEIKGHY LNATAGTCEE MIKRAVFARE**
 251 LGVPIVMHDY LTGGFTANTS LAHYCR**DNGL LLHIHRAMHA VIDRQKNHGM**
 301 **HFRVLAkALR LSGGDHIHAG TVVGKLEGDR ESTLGFVDLL RDDYIEKDRS**
 351 RGIFFTQDWV SLPGVLPVAS GGIHVWHMPA LTEIFGDDSV LQFGGGTLGH
 401 PWNAPGAVA **NRVALEACVQ ARNEGRDLAV EGNEIIRQAS KWSPELAAAC**
 451 **EVWKEIKFNF PTIDKLDGPV EKFD**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
13 - 23	1407.8276	1406.8203	1406.6605	114	0	K.LTYYTPEYETK.D
24 - 32	1021.6846	1020.6773	1020.5240	150	0	K.DTDLAAFR.V
126 - 130	645.4636	644.4564	644.3493	166	0	R.LEDLR.I
131 - 137	789.5590	788.5518	788.4432	138	0	R.IPPAYTK.T
138 - 150	1465.9258	1464.9185	1464.7474	117	0	K.TFQGPPHGIQVER.D
169 - 174	588.3708	587.3635	587.3642	-1	0	K.LGLSAK.N
179 - 185	910.5820	909.5747	909.4378	151	0	R.AVYECLR.G
186 - 204	2170.1317	2169.1244	2168.9797	67	1	R.GGLDFTKDDENVNSQPFMR.W
186 - 204	2186.1797	2185.1724	2184.9746	91	1	R.GGLDFTKDDENVNSQPFMR.W Oxidation (M)
193 - 204	1451.8062	1450.7989	1450.6147	127	0	K.DDENVNSQPFMR.W
193 - 204	1467.9284	1466.9211	1466.6096	212	0	K.DDENVNSQPFMR.W Oxidation (M)
205 - 208	632.4389	631.4316	631.3190	178	1	R.WRDR.F
207 - 218	1532.9169	1531.9096	1531.7493	105	1	R.DRFLFCAEAIYK.S
219 - 227	962.5972	961.5900	961.4716	123	0	K.SQAETGEIK.G
228 - 243	1794.9681	1793.9608	1793.8076	85	0	K.GHYLNATAGTCEEMIK.R
228 - 243	1810.9898	1809.9825	1809.8026	99	0	K.GHYLNATAGTCEEMIK.R Oxidation (M)
228 - 244	1951.0861	1950.0788	1949.9087	87	1	K.GHYLNATAGTCEEMIKR.A
228 - 244	1967.0834	1966.0761	1965.9037	88	1	K.GHYLNATAGTCEEMIKR.A Oxidation (M)
277 - 286	1187.7962	1186.7889	1186.6571	111	0	R.DNGLLLHIHR.A
277 - 294	2097.0733	2096.0660	2096.1061	-19	1	R.DNGLLLHIHRAMHAVIDR.Q Oxidation (M)
287 - 294	928.5763	927.5690	927.4596	118	0	R.AMHAVIDR.Q Oxidation (M)
295 - 303	1170.7667	1169.7594	1169.5512	178	1	R.QKNHGMR.F Oxidation (M)
297 - 303	898.5480	897.5408	897.4028	154	0	K.NHGMHFR.V
297 - 303	914.5433	913.5360	913.3977	151	0	K.NHGMHFR.V Oxidation (M)
311 - 325	1447.9045	1446.8972	1446.7579	96	0	R.LSGGDHIHAGTVVGK.L
326 - 341	1820.1308	1819.1235	1818.9476	97	1	K.LEGDRESTLGFVDLLR.D
331 - 341	1249.8438	1248.8365	1248.6714	132	0	R.ESTLGFVDLLR.D
331 - 347	2013.1758	2012.1685	2012.0102	79	1	R.ESTLGFVDLLRDDYIEK.D
342 - 349	1053.6599	1052.6526	1052.4774	166	1	R.DDYIEKDR.S
413 - 422	1116.7421	1115.7348	1115.5757	143	0	R.VALEACVQAR.N
427 - 437	1228.8210	1227.8137	1227.6459	137	0	R.DLAVEGNEIIR.Q
442 - 454	1546.9133	1545.9060	1545.7286	115	0	K.WSPELAAACEVWK.E
442 - 457	1917.0601	1916.0528	1915.9502	54	1	K.WSPELAAACEVWKEIK.F
458 - 465	981.6087	980.6014	980.4967	107	0	K.FNFPTIDK.L
458 - 472	1719.9905	1718.9832	1718.8879	55	1	K.FNFPTIDKLDGPVEK.F

Spot No.: **35**

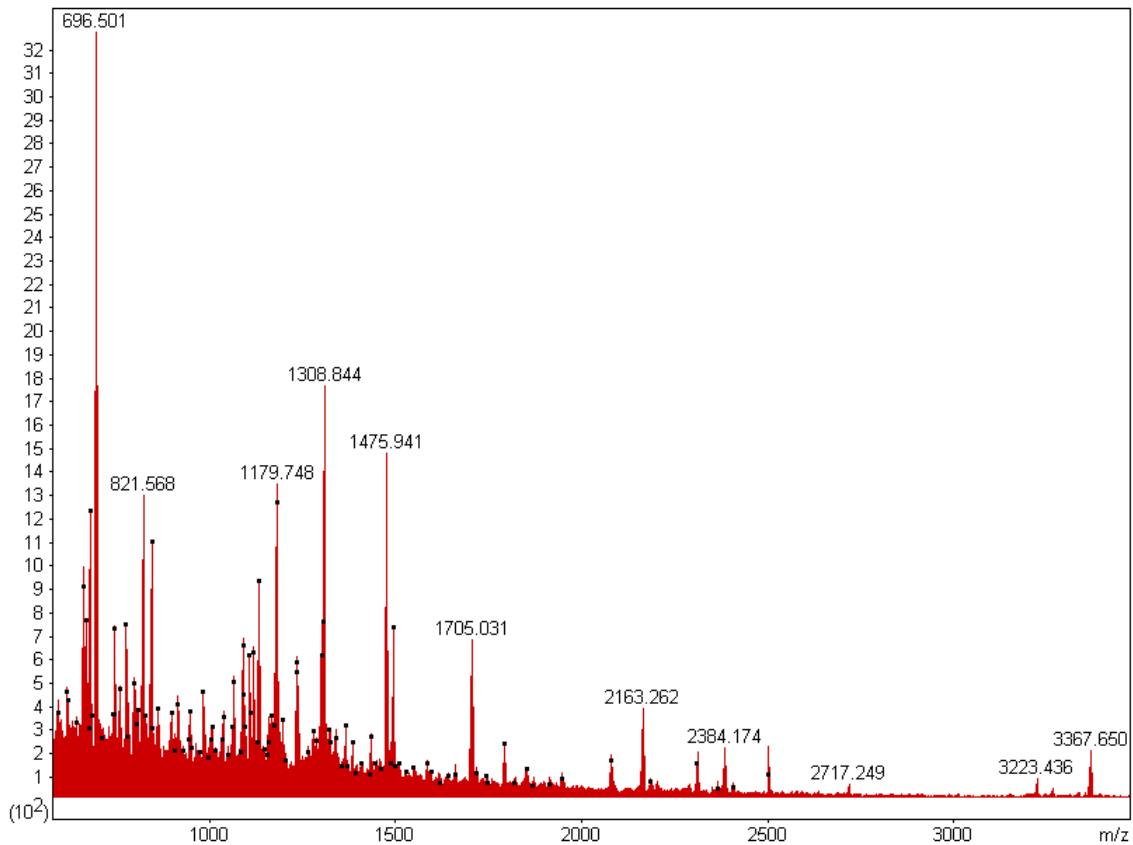
Mascot score: **87** Sequence coverage %: **27**

NCBI accession No.: **gi| 15226573**

Matched peptides No.: **19** Total peptides No.: **108**

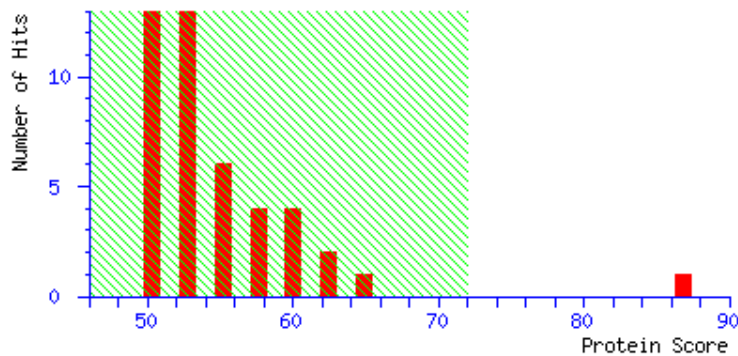
Calculated Mr: **65977** Calculated pI: **5.95**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MTSFSLIFTS  PLLPSSSTKP  KRSVLVAAAQ  TTAPAESTAS  VDADRLEPRV
51  ELKDGFFILK  EKFRKGINPQ  EKVKIEREPM  KLFMENGIEE  LAKKSMEELD
101 SEKSSKDDID  VRLKWLGLFH  RRKHQYGKFM  MRLKLPNGVT  TSAQTRYLAS
151 VIRKYGEDGC  ADVTTRQNWQ  IRGVVLPDVP  EILKGLASVG  LTSLQSGMDN
201 VRNPVGNPIA  GIDPEEIVDT  RPYTNLLSQF  ITANSQGNPD  FTNLPRKWNV
251 CVVGTHDLYE  HPHINDLAYM  PANKDGRFGF  NLLVGGFFSP  KRCEEAIPLD
301 AWPVADDVLP  LCKAVLEAYR  DLGTRGNRQK  TRMMWLIDEL  GVEGFRTEVE
351 KRMPNGKLER  GSSEDLVNKQ  WERRDYFGVN  PQKQEGLSFV  GLHVPVGRQLQ
401 ADDMDELARL  ADTYGSGELR  LTVEQNIIIP  NVETSKTEAL  LQEPFLKNRF
451 SPEPSILMKG  LVACTGSQFC  GQAI IETKLR  ALKVTEEVER  LVSVPRPIRM
501 HWTGCPNTCG  QVQVADIGFM  GCLTRGEEGK  PVEGADVYVG  GRIGSDSHIG
551 EIYKKGVRVT  ELVPLVAEIL  IKEFGAVPRE  REENED

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
50 - 60	1308.8436	1307.8363	1307.7489	67	1	R.VELKDGFFILK.E
82 - 93	1393.8655	1392.8582	1392.6959	117	0	K.LFMENGIEELAK.K
95 - 106	1369.8211	1368.8138	1368.6078	151	1	K.SMEELDSEKSSK.D
107 - 114	973.6221	972.6148	972.5240	93	1	K.DDIDVRLK.W
129 - 132	616.3488	615.3415	615.2509	147	0	K.FMMR.L 2 Oxidation (M)
147 - 153	821.5679	820.5606	820.4807	97	0	R.YLASVIR.K
167 - 172	844.5436	843.5363	843.4351	120	0	R.QNWQIR.G
173 - 184	1278.8376	1277.8303	1277.7595	55	0	R.GVVLPDVPEILK.G
361 - 369	948.5732	947.5659	947.4560	116	0	R.GSSEDLVNK.Q
370 - 373	618.3565	617.3492	617.2921	92	0	K.QWER.R
384 - 398	1595.0328	1594.0255	1593.8627	102	0	K.QEGLSFVGLHVPVGR.L
410 - 420	1181.7271	1180.7198	1180.5724	125	0	R.LADTYGSGELR.L
448 - 459	1434.9070	1433.8997	1433.7337	116	1	K.NRFSPEPSILMK.G Oxidation (M)
481 - 490	1173.7525	1172.7452	1172.6401	90	1	R.ALKVTEEVER.L
484 - 490	861.5284	860.5211	860.4239	113	0	K.VTEEVER.L
491 - 499	1036.6694	1035.6621	1035.6553	7	0	R.LVSVPRPIR.M
543 - 555	1446.9082	1445.9009	1445.7514	103	1	R.IGSDSHIGEIYKK.G
573 - 579	775.5068	774.4995	774.4024	125	0	K.EFGAVPR.E
573 - 581	1060.6825	1059.6752	1059.5461	122	1	K.EFGAVPRER.E

Spot No.: **36**

Mascot score: **107** Sequence coverage %: **15**

NCBI accession No.: **gi| 15233349**

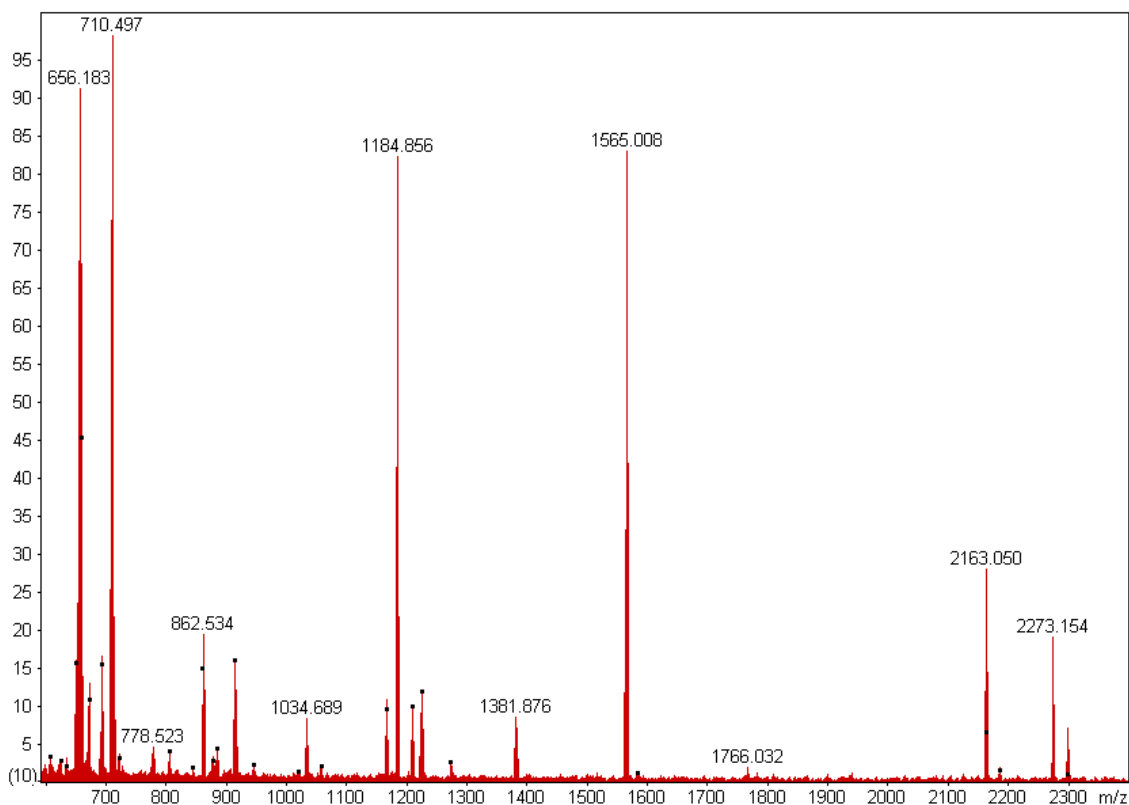
Matched peptides No.: **15**

Total peptides No.: **29**

Calculated Mr: **98774**

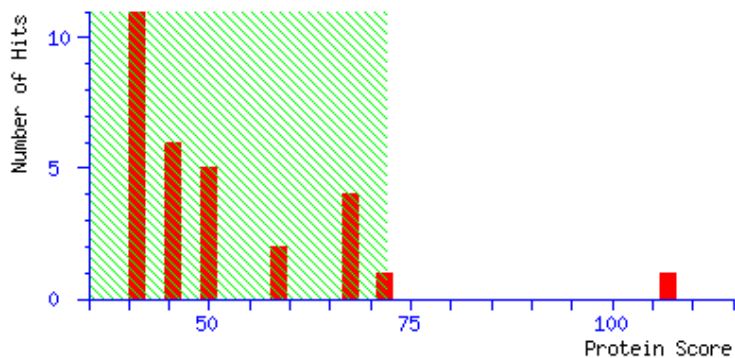
Calculated pI: **5.98**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MASENPFRSI LKALEKPDGG EFGNYYSLPA LNDPRIDKLP YSIRILLESA
51 IRNCDEFQVK SKDVEKILDW ENTSPKQVEI PFKPARVLLQ DFTGVP AVVD
101 LACMRDAMWN LGGDSNKINP LVPVDLVIDH SVQVDVARSE NAVQANMELE
151 FQRNKERFAF LKWGSNAFHN MLVVPPGSGI VHQVNLEYLA RVVFNTNGLL
201 YPDSVVGTDG HTTMIDGLGV AGWGVGGIEA EATMLGQPMS MVLPGVVGFK
251 LTGKLRDGMT ATDLVLTVTQ MLRKHGVVVGK FVEFHGEGMR ELSLADRATI
301 ANMSPEYGAT MGFFPVDHVT LQYLRLTGRS DDTVSMIEAY LRANKMFPVDY
351 SEPESKTVYS SCLELNLEDV EPCVSGPKRP HDRVPLKEMK ADWHSCLDNR
401 VGFKGFVAVPK EAQSKAVEFN FNGTTAQLRH GDVVIAAITS CTNTSNPSVM
451 LGAALVAKKA CDLGLEVKPW IKTSLAPGSG VVTKYLAKSG LQKYLNLQGF
501 SIVGYGCTTC IGNSGDIHEA VASAIVDNDL VASAVLSGMR NFEGRVHPLT
551 RANYLASPPL VVAYALAGTV DIDFETQPIG TGKDGKQIFF RDIWPSNKEV
601 AEVVQSSVLP DMFKATYEAI TKGNSMWNQL SVASGTLYEW DPKSTYIHEP
651 PYFKGMTMSP PGPHGVKDAY CLLNFGDSIT TDHISPAGSI HKDSPA AKYL
701 MERGVDRRDF NSYGSRRGND EIMARGTFAN IRIVNKHLKG EVGPKTVHIP
751 TGEKLSVFDA AMKYRNEGRD TIILAGAEYG SGSSRDWAAK GPMLLGVKAV
801 ISKSFERIHR SNLVGMGIIP LCFKAGEDAE TLGLTGQELY TIELPNMVSE
851 IKPGQDVTVV TNNGKSFTCT LRFDTEVELA YFDHGGILQY VIRNLIKQ

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
45 - 52	914.6920	913.6847	913.5596	137	0	R.ILLESAIR.N
77 - 86	1184.8555	1183.8482	1183.6713	149	1	K.QVEIPFKPAR.V
118 - 138	2298.4311	2297.4238	2297.2744	65	0	K.INPLVPVDLVIDHSVQVDVAR.S
139 - 153	1766.0324	1765.0251	1764.8101	122	0	R.SENAVQANMELEFQR.N
158 - 162	625.4351	624.4278	624.3635	103	0	R.FAFLK.W
281 - 290	1208.7385	1207.7312	1207.5444	155	0	K.FVEFHGEGMR.E
281 - 290	1224.7334	1223.7261	1223.5394	153	0	K.FVEFHGEGMR.E Oxidation (M)
391 - 400	1273.7167	1272.7094	1272.5306	141	0	K.ADWHSCLDNR.V
546 - 551	722.5221	721.5148	721.4235	127	0	R.VHPLTR.A
587 - 591	710.4967	709.4894	709.3911	139	0	K.QIFFR.D
644 - 654	1381.8761	1380.8688	1380.6714	143	0	K.STYIHEPPYFK.G
709 - 716	945.4997	944.4925	944.3988	99	0	R.DFNSYGSR.R
726 - 732	778.5226	777.5154	777.4133	131	0	R.GTFANIR.I
811 - 824	1565.0082	1564.0009	1563.8153	119	0	R.SNLVGMGIIPLCFK.A Oxidation (M)
866 - 872	884.5604	883.5532	883.4222	148	0	K.SFTCTLR.F

Spot No.: **37**

Mascot score: **94** Sequence coverage %: **19**

NCBI accession No.: **gi| 14596025**

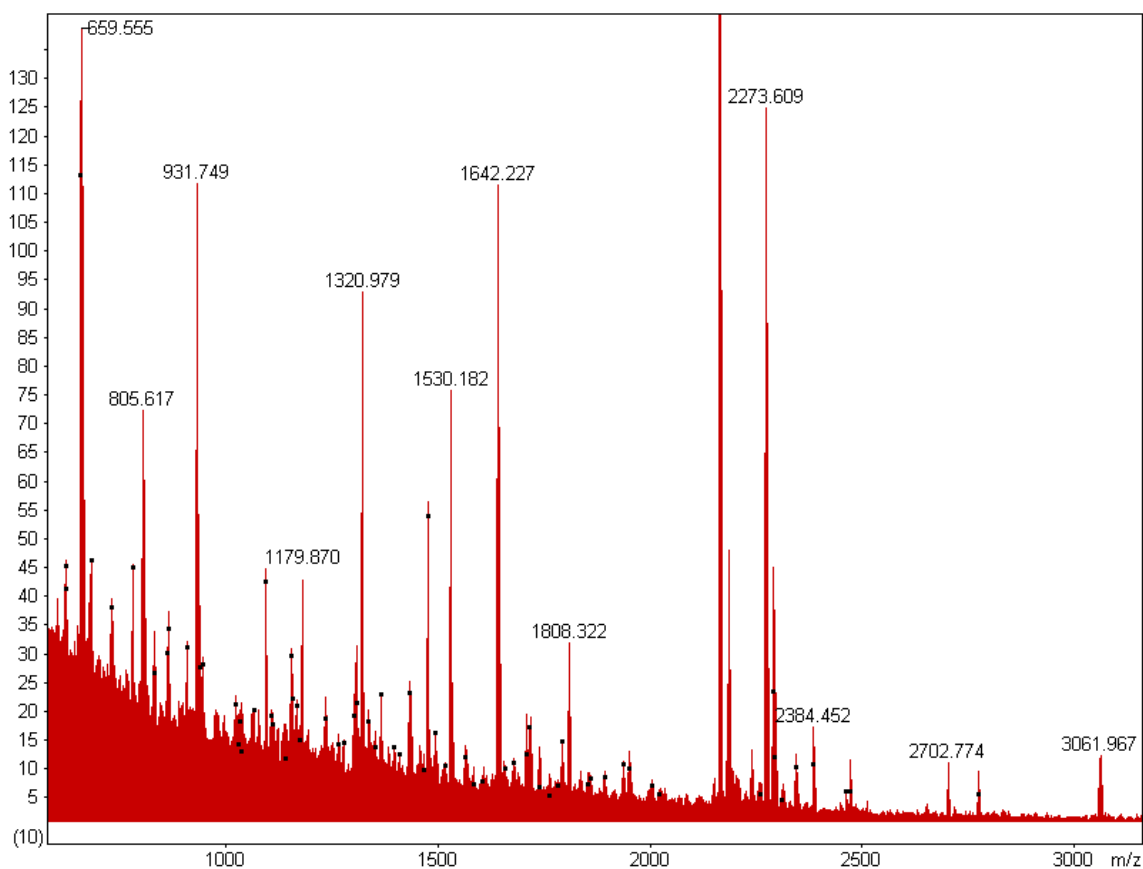
Matched peptides No.: **20**

Total peptides No.: **55**

Calculated Mr: **113852**

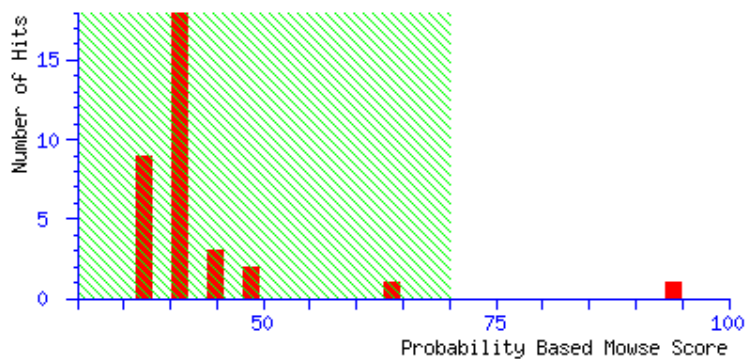
Calculated pI: **6.51**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MERARRLAYR GIVKRLVNDT KRHRNAETPH LVPHAPARYV SSSLSPFISTP
51 RSVNHATAAFG RHQQTRRSISV DAVKPSDTFP RRHNSATPDE QTHMAKFCGF
101 DHIDSLIDAT VPKSIRLDSM KFSKFDAGLT ESQMIQHMVD LASKNKVFKS
151 FIGMGYYNTH VPTVILRNIM ENPAWYTQYT PYQAEISQGR LESLLNFQTV
201 ITDLTGLPMS NASLLDEGTA AAEAMAMCNN ILKGKKKTFV IASNCHPQTI
251 DVCKTRADGF DLKVVTSDLK DIDYSSGDVC GVLVQYPGTE GEVLDYAEFV
301 KNAHANGVKV VMAIDLALALT VLKPPGEFGA DIVVGSQRF GVPMGYGGPH
351 AAFLATSQEY KRMPGRIIG ISVDSSGKQA LRMAMQTREQ HIRRDKATSN
401 ICTAQALLAN MAAMYAVYHG PAGLKSIAQR VHGLAGIFSL GLNKLGVAEV
451 QELPFFDTVK IKCSDAHAIA DAASKSEINL RVVDSTTITA SFDETTTLLDD
501 VDKLFKVFAS GKPVPTAES LAPEVQNSIP SSSLTRESPYL THPIFNMYHT
551 EHELLRYIHK LQSKDLSLCH SMIPLGSTM KLNATTEMPP VTWPSFTDIH
601 PFAPVEQAQG YQEMFENLGD LLCTITGFDS FSLQPNAGAA GEYAGLMVIR
651 AYHMSRGDHH RNVCIIPVSA HGTNPASAAM CGMKIITVGT DAKGNINIEE
701 VRKAAEANKD NLAALMVYYP STHGVYEEGI DEICNIIHEN GGQVYMDGAN
751 MNAQVGLTSP GFIGADVCHL NLHKTFCIPH GGGGPGMGPI GVKNHLAPFL
801 PSHFVIPTGG IPQPEKTAPL GAISAAPWGS ALILPISYTY IAMMGSGLT
851 DASKIAILNA NYMAKRLEKH YPVLFRGVNG TVAHEFIIDL RGFKNTAGIE
901 PEDVAKRLMD YGFHGPMSW PVPGLMIEP TESESKAELD RFCDALISIR
951 EEIAQIEKGN ADVQNNVLKG APHPPSLLMA DTWKKPYSRE YAAFPAPWLR
1001 SSKFWPTTGR VDNVYGDRKL VCTLLPEEQ VTAAVSA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
82 - 96	1739.1921	1738.1848	1737.7853	230	1	R.RHNSATPDE QTHMAK.F Oxidation (M)
83 - 96	1583.1333	1582.1260	1581.6842	279	0	R.HNSATPDE QTHMAK.F Oxidation (M)
125 - 146	2462.7650	2461.7577	2462.1934	-177	1	K.FDAGLT ESQMIQHMVDLASKNK.V
255 - 263	1022.7491	1021.7418	1021.5193	218	1	K. TRADGF DLK.V
340 - 361	2344.5557	2343.5484	2343.0994	192	0	R.FG VPMGYGGPHAAFLATSQEYK.R Oxidation (M)
363 - 367	623.4294	622.4221	622.2567	266	0	R. MMPGR.I 2 Oxidation (M)
363 - 378	1680.2103	1679.2030	1678.8382	217	1	R. MMPGRIIGISVDSSGK.Q 2 Oxidation (M)
389 - 393	682.5155	681.5082	681.3558	224	0	R. EQHIR.R
445 - 460	1792.1327	1791.1254	1790.9455	100	0	K.LGV AEVQELPFFDTVK.I
476 - 481	731.5769	730.5697	730.3973	236	0	K. SEINL.V
651 - 656	780.5345	779.5272	779.3384	242	0	R. AYHMSR.G Oxidation (M)
657 - 661	621.4541	620.4468	620.2779	272	0	R. GDHHR.N
662 - 684	2386.6096	2385.6023	2385.1062	208	0	R. NVCIIPVSAHGTNPASAAMCGMK.I
775 - 793	1855.2809	1854.2736	1853.8917	206	0	K. TFCIPHGGGPGMGPIGVK.N Oxidation (M)
870 - 876	931.7489	930.7417	930.5076	252	0	K. HYPVLF .G
942 - 950	1094.8137	1093.8064	1093.5590	226	0	R. FCDALISIR.E
990 - 1000	1320.9786	1319.9713	1319.6662	231	0	R. EYAAF PAPWLR.S
1004 - 1010	864.6285	863.6213	863.4290	223	0	K. FWPTTGR.V
1011 - 1018	937.6605	936.6532	936.4301	238	0	R. VDNVY DRK.K
1011 - 1019	1065.7593	1064.7520	1064.5251	213	1	R. VDNVY DRK.L

Spot No.: **38**

Mascot score: **103**

Sequence coverage %: **51**

NCBI accession No.: **gi| 312281703**

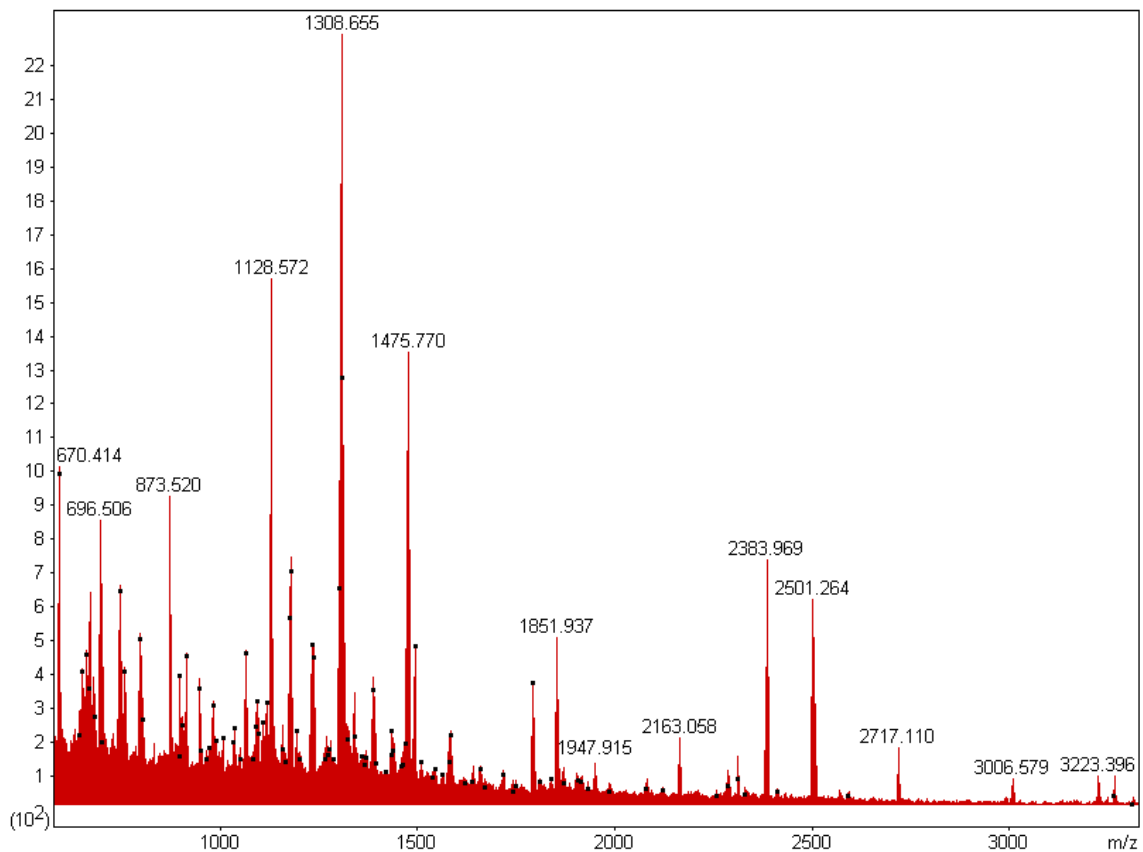
Matched peptides No.: **14**

Total peptides No.: **70**

Calculated Mr: **38065**

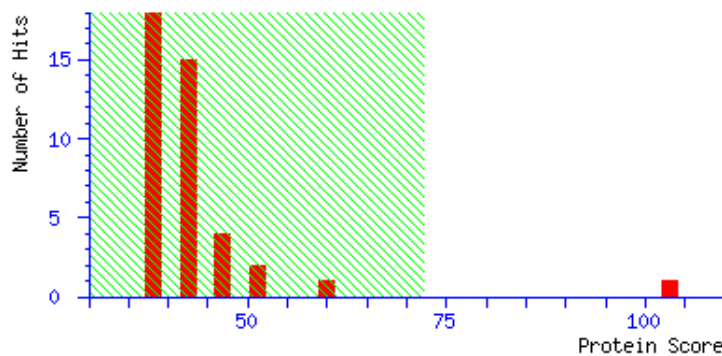
Calculated pI: **5.48**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MDLRFLASLT ILLGLFFVNS HTAAGQQVGV CYGRYGDNLP SPAETIELFK
51 QKNIRRVRLY SPDHDVLAAL RGSDIEVMLG LPNQDLQRIA SSQSEADTWV
101 QNNVNNYVDD VKFRYVSVGN EVKIFDSYSQ FLVPAMENID RAVLGSGLGG
151 RIKVSTAIDM GVLGESYPPS KGSFKGEVMV LMEPIIRFLV NKKSPLHLNL
201 YTYFSYAGNP DQIRLDYALF TASPGTVSDP PRSYQNLFDA MLDAVHSALE
251 RSGGESLDVV VSETGWPTEG GTETNLENAR IYSNNLINHV KNGTPKRPGK
301 EIETYLFAMY DENKKPTPPD VEKFWGLFHP NKQPKYEVNF G

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
35 - 50	1793.8150	1792.8077	1792.8883	-45	0	R.YGDNL P SPAETIE L FK.Q
59 - 71	1469.7564	1468.7491	1468.7674	-12	0	R.LY S PDHDVLAALR.G
72 - 88	1900.9030	1899.8957	1899.9360	-21	0	R.GSDIEV MLG LPNQDLQ R .I Oxidation (M)
115 - 123	994.5064	993.4991	993.5131	-14	0	R.YVSVGNE VK .I
124 - 141	2161.0110	2160.0037	2160.0197	-7	0	K.IFDS YSQ FLVPAMENID R .A Oxidation (M)
142 - 151	886.5640	885.5568	885.5032	60	0	R.AVLG S GLG R .I
154 - 171	1866.8517	1865.8444	1865.9081	-34	0	K.VST AI DM G V L GES Y PP S K.G Oxidation (M)
172 - 187	1837.8761	1836.8688	1836.9478	-43	1	K.G S FK GE VM V L M EPIIR.F 2 Oxidation (M)
176 - 187	1418.6834	1417.6761	1417.7309	-39	0	K.G EV VM V L M EPIIR.F 2 Oxidation (M)
188 - 192	620.4245	619.4173	619.3693	77	0	R.FLV NK .K
188 - 193	748.4899	747.4826	747.4643	24	1	R.FLV NK .S
215 - 232	1906.9376	1905.9303	1905.9472	-9	0	R.LDYAL F T A S P GT V SD P PR.S
252 - 280	2991.4420	2990.4347	2990.3741	20	0	R.SGGES LD V V V S ET G W P TE G GT E T N LENAR.I
336 - 341	728.4120	727.4048	727.3177	120	0	K.YEV N F G .-

Spot No.: **39**

Mascot score: **86**

Sequence coverage %: **43**

NCBI accession No.: **gi| 312281829**

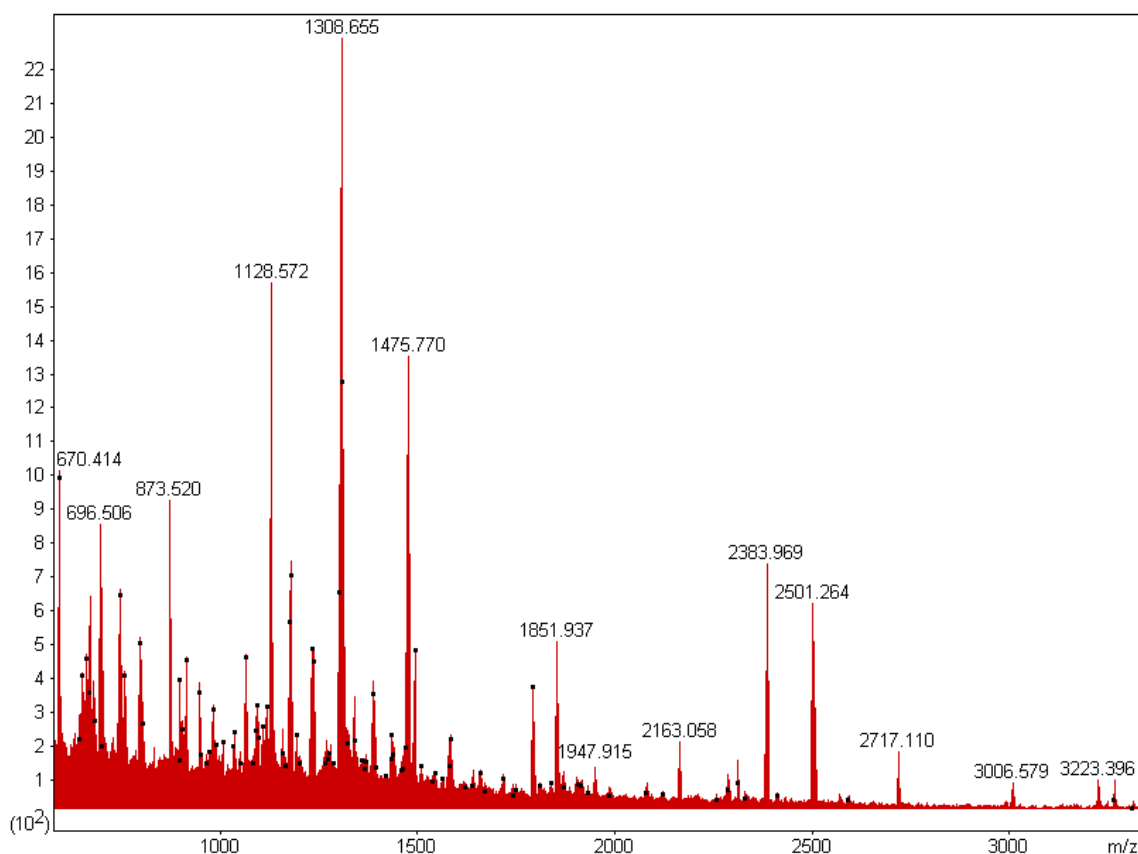
Matched peptides No.: **15**

Total peptides No.: **105**

Calculated Mr: **43118**

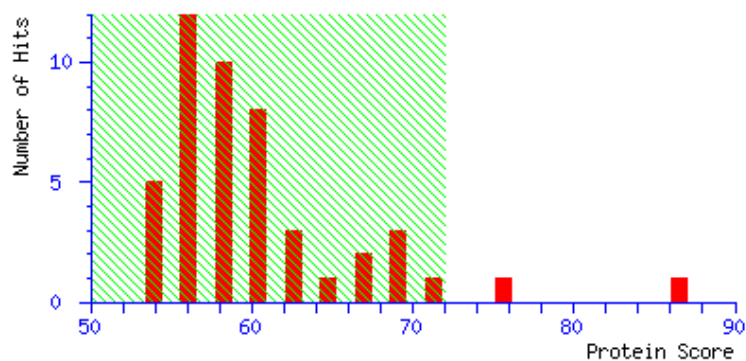
Calculated pI: **6.49**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MASSSATLLK ASPVKSDWVK GQSHLLRQPS SVAAIR**SHVA** PSALT**VRAAS**
 51 **AYADELVKTA** **KTIAS****PGRGI** **LAMDES****NATC** **GKRLAS****IGLE** **NTEANR****QAYR**
 101 TLLVSAPGLG QYISGAILFE ETLYQSTVDG **KKMVDV****LVEQ** **NIVPGI****KVDK**
 151 GLVPLVGSND ESWCQGLDGL ASR**TAAYY****QQ** **GARFAK****WRTV** VSIPNGPSAL
 201 AV**KEAAW****GLA** **RYAAIS****QDSG** **LVPIVE****PEIL** LDGEHGIDRT YEVAEKVWAE
 251 VFFYLAQNNV MFEGILLKPS **MVTPGAEAKD** **RATPEQ****VASY** TLKLLRNRI
 301 PAVPGIMFLS GGQSELEATL NLNAMNQGTN PWHVSF**SYAR** ALQNT**CLK****TW**
 351 **GGREEN****KAA** **QDTLL****TRAKA** NSLAQLGKYT EEGE**SEDAKE** **GMFV****KGYTY**

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
37 - 58	2256.1127	2255.1054	2255.1910	-38	1	R.SHVAPSALT VRAAS AYADELVK.T
62 - 68	701.4471	700.4398	700.3868	76	0	K.TIAS PGR .G
69 - 83	1638.8058	1637.7985	1637.7501	30	1	R.GILAMDES NATC GKR.L Oxidation (M)
83 - 96	1543.7900	1542.7827	1542.8114	-19	1	K.RLASIGLE TEANR .Q
84 - 96	1387.7160	1386.7087	1386.7103	-1	0	R.LASIGLE TEANR .Q
133 - 147	1669.8744	1668.8671	1668.9120	-27	0	K.MVDV LVEQ NIVPGIK.V Oxidation (M)
174 - 183	1128.5724	1127.5651	1127.5359	26	0	R.TAAY YQQ GAR.F
204 - 211	873.5203	872.5130	872.4504	72	0	K.EAAW GLAR .Y
212 - 239	3006.5790	3005.5717	3005.5346	12	0	R.YAAIS QDSGL VPIVEPEILLDGEHGIDR.T
269 - 281	1358.6695	1357.6622	1357.6660	-3	1	K.PSMV TPGAEAKDR .A
280 - 293	1578.8222	1577.8149	1577.8049	6	1	K.DRAT PEQVASY TLK.L
282 - 293	1307.6782	1306.6709	1306.6769	-5	0	R.AT PEQVASY TLK.L
349 - 358	1175.6006	1174.5933	1174.5731	17	1	K.TW GGREEN VK.A
359 - 367	988.5580	987.5507	987.5349	16	0	K.AA QDTLL TR.A
390 - 399	1194.6135	1193.6062	1193.5427	53	1	K.E GMFV KGYTY.-

Spot No.: **40**

Mascot score: **86** Sequence coverage %: **15**

NCBI accession No.: **gi| 15238686**

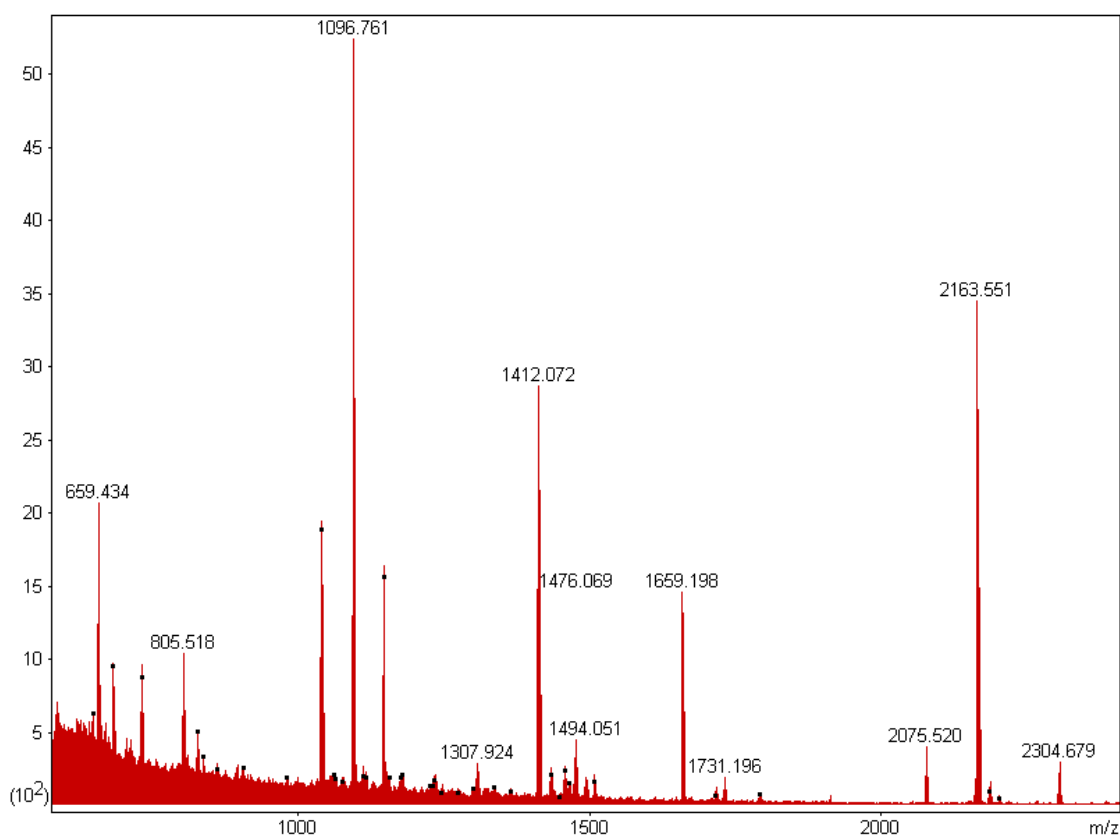
Matched peptides No.: **12**

Total peptides No.: **28**

Calculated Mr: **84646**

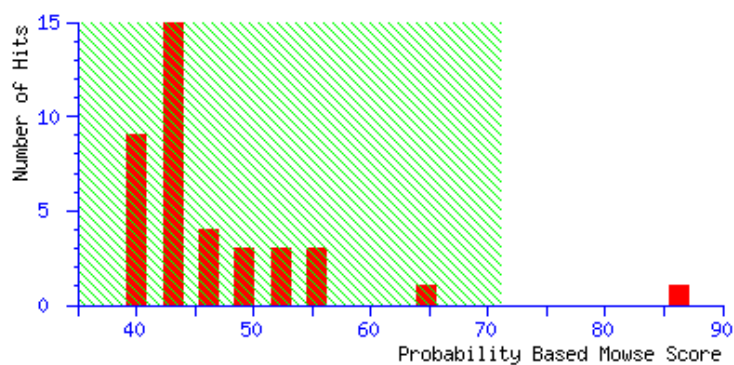
Calculated pI: **6.09**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASHIVGYPR MGPKRELKFA LESFWDGKST AEDLQKVSAD LRSSIWKQMS
51 AAGTKFIPSN TFAHYDQVLD TTAMLGAVPP RYGYTGGEIG LDVYFSMARG
101 NASVPAMEMT KWFDNTNYHYI VPGLGPEVNF SYASHKAVNE YKEAKALGVD
151 TVPVLVGPVS YLLLSKAAKG VDKSFELLSL LPKILPIYKE VITELKAAGA
201 TWIQLDEPVL VMDLEGQKLQ AFTGAYAELE STLSGLNVLV ETYFADIPAE
251 AYKTLTSLKG VTAFGFDLVR GTKTLDLVKA GFPEGKYLFA GVVDGRNIWA
301 NDFAASLSTL QALEGIVGKD KLVVSTSCSL LHTAVDLIN TKLDDEIKSW
351 LAFAAQKVVE VNALAKALAG QKDEALFSAN AAALASRRSS PRVTNEGVOQK
401 AAAALKGSSDH RRATNVSARL DAQQKKLNLP ILPTTTIGSF PQTVELRRVR
451 REYKAKKVE EDYVKAIKEE IKKVVDLQEE LDIDVLVHGE PERNDMVEYF
501 GEQLSGFAFT ANGWVQSYGS RCVKPPVIYG DVSRPKAMTV FWSAMAQSMI
551 SRPMKGMLTG PVTILNWSFV RNDQPRHETC YQIALAIKDE VEDLEKGGIG
601 VIQIDEAALR EGLPLRKSEH AFYLDWAVHS FRITNCGVQD STQIHTHMCY
651 SHFNDIHISI IDMDADVITI ENSRSDEKLL SVFREGVKYG AGIGPGVYDI
701 HSPRIPSSEE IADRVNKMLA VLEQNILWVN PDCGLKTRKY TEVKPALKNM
751 VDAAKLIRSQ LASAK

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
367 - 387	2075.5205	2074.5132	2074.0807	209	1	K.ALAGQKDEALFSANAAALASR.R
373 - 387	1507.0680	1506.0607	1505.7474	208	0	K.DEALFSANAAALASR.R
401 - 411	1096.7615	1095.7542	1095.5785	160	1	K.AAAALKGSDDR.R
474 - 493	2304.6786	2303.6713	2303.1645	220	0	K.VVDLQEELDIDVLVHGEPER.N
597 - 610	1412.0722	1411.0649	1410.7831	200	0	K.GGIGVIQIDEAALR.E
611 - 616	684.4377	683.4305	683.3966	50	0	R.EGLPLR.K
679 - 684	734.4973	733.4900	733.4487	56	0	K.LLSVFR.E
679 - 688	1147.8516	1146.8443	1146.6761	147	1	K.LLSVFREGVK.Y
689 - 704	1659.1978	1658.1905	1657.8213	223	0	K.YGAGIGPGVYDIHSPR.I
705 - 714	1116.7512	1115.7439	1115.5458	178	0	R.IPSSEEIADR.V
705 - 717	1458.0740	1457.0667	1456.7521	216	1	R.IPSSEEIADRVN.K.M
745 - 755	1157.7578	1156.7505	1156.6274	106	1	K.PALRNMVDAAK.L

Spot No.: 41

Mascot score: 93 Sequence coverage %: 14

NCBI accession No.: gi| 146572852

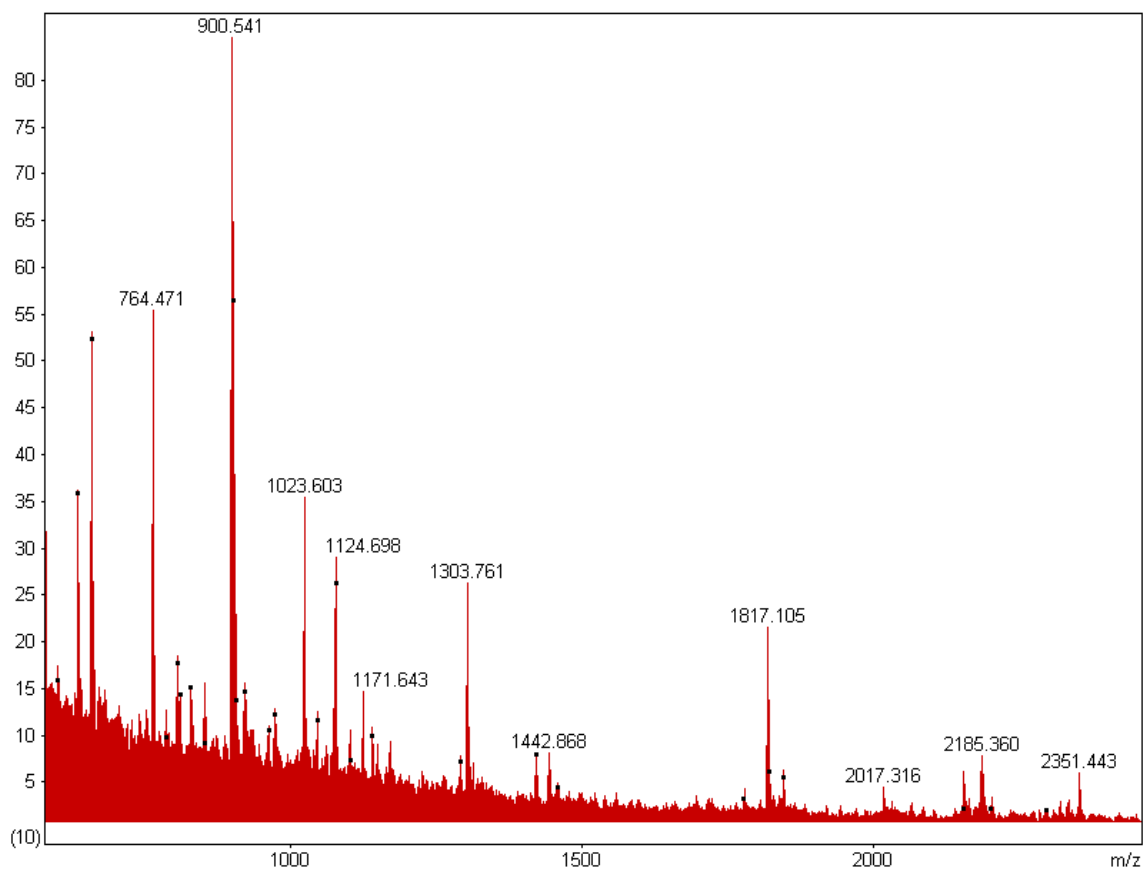
Matched peptides No.: 9

Total peptides No.: 27

Calculated Mr: 61174

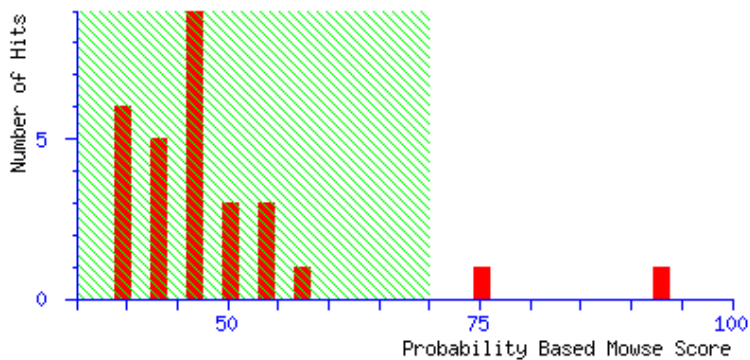
Calculated pI: 6.27

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 DEEITCEENN PFTCSNTDIL SSKNFGKDFI FGVASSAYQI EGGRGRGVNV
51 WDGFSHRYPE KAGSDLKNGD TTCESYTRWQ KDVDVMGELN ATGYRFSFAW
101 SRIIPKGKVS RGVNQGLDY YHKLIDALLE KNITPFVTLF HWDLPQTLQD
151 EYEGFLDRQI IQDFKDYADL CFKEFGGKVK HWITINQLYT VPTRGYAIGT
201 DAPGRCSEPMV DTKHRCYGGN SSTEPYIVAH NQLLAHATVW DLYRTKYKFQ
251 KGKIGPVMIT RWFLPFDESD PASIEAAERM NQFFHGWYME PLTKGRYPDI
301 MRQIVGSRLP NFTEEEAELV AGSYDFLGLN YYVTQYAQPK PNPYPSETHT
351 AMMDAGVKLT YDNSRGEFLG PLFVEDKVNG NSYYYPKGIY YVMDFKTKY
401 GDPLIYVTEN GFSTPSSENR EQAIADYKRI DYLCSHLCFL RKVIKEKGVN
451 VRGYFAWALG DNYEFCKGFT VRFGLSYVNW EDLDDRNLKE SGKWYQRFIN
501 GTVKNSVKQD FLRSSLSSQS QKKRFADA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
28 - 44	1817.1052	1816.0979	1815.8792	120	0	K.DFIFGVASSAYQIEGGR.G
68 - 78	1303.7608	1302.7535	1302.5146	183	0	K.NGDTTCESYTR.W
96 - 102	900.5414	899.5341	899.4290	117	0	R.FSFAWSR.I
174 - 180	764.4710	763.4638	763.4228	54	1	K.EFGGKVK.H
195 - 205	1077.6568	1076.6495	1076.5251	116	0	R.GYAIGTDAPGR.C
254 - 261	902.5995	901.5923	901.5055	96	0	K.IGPVMITR.W Oxidation (M)
295 - 302	1023.6033	1022.5960	1022.4967	97	1	K.GRYPDIMR.Q Oxidation (M)
297 - 302	810.4389	809.4316	809.3742	71	0	R.YPDIMR.Q Oxidation (M)
303 - 308	659.4433	658.4360	658.3762	91	0	R.QIVGSR.L

Spot No.: 42

Mascot score: 87 Sequence coverage %: 17

NCBI accession No.: gi| 152207441

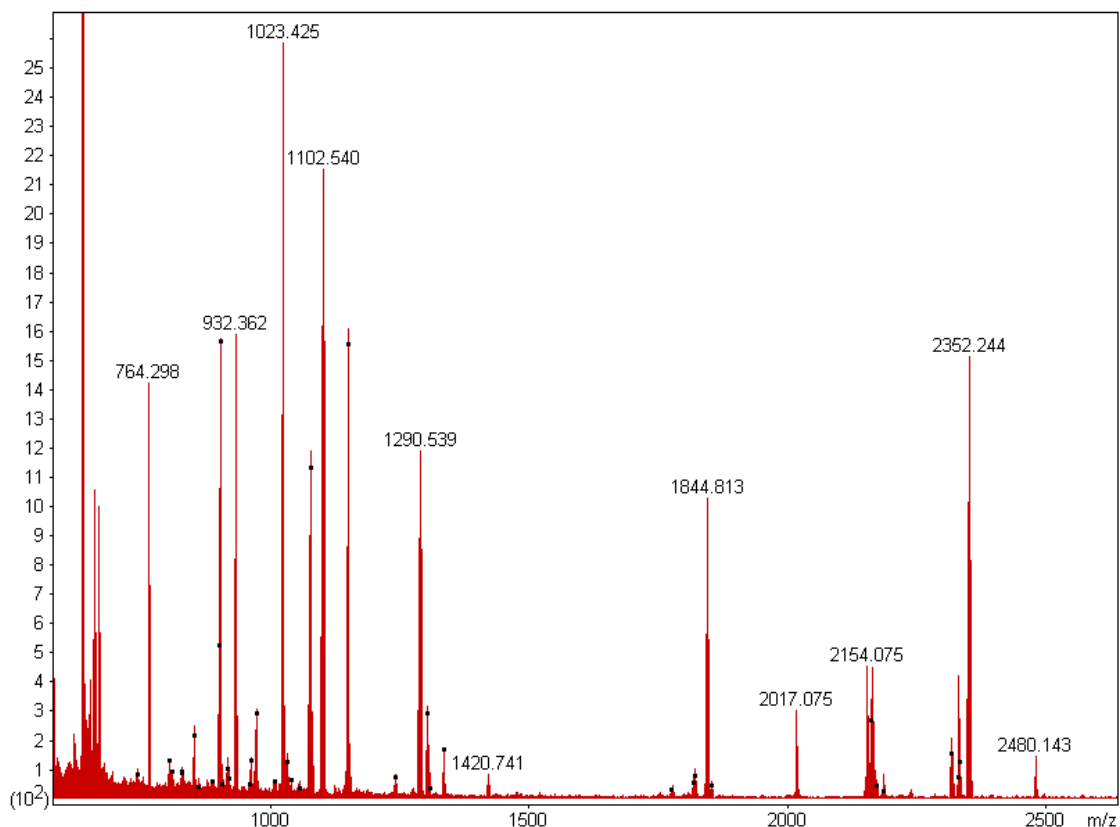
Matched peptides No.: 13

Total peptides No.: 38

Calculated Mr: 62750

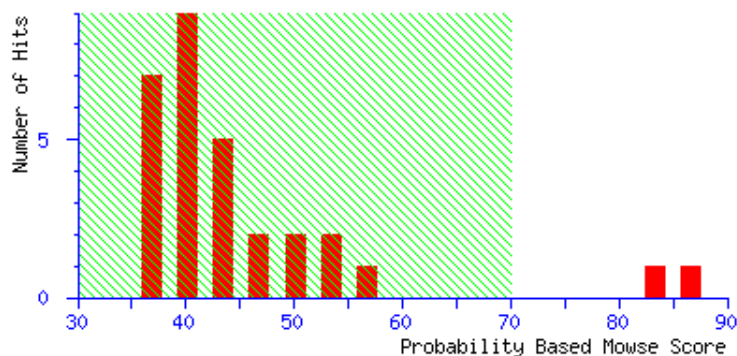
Calculated pI: 8.71

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MKLLHGLALV FLLAAASCKA DEEITCEENN PFTCSNTDIL SSKNFGKDFI
51 FGVASSAYQI EGGRGRGVNV WDGFSHRYPE KSGSDLKNGD TTCESYTRWQ
101 KDVDVMGELN ATGYRFSFAW SRIIPKGKVS RGVNQGLDY YHKLIDALLE
151 KNITPFVTLF PWDLPQTLQD EYEGFLNRTV IDDFRDYADL CFKEFGGKVK
201 NWITINQLYT VPTRGYAIGT DAPGRCSPEV DEKCYGGNSS TEPYIVAHNQ
251 LLAHAAAVDV YRTKYKFQKG KIGPVMITRW FLPFDKTDQA SRDAANRMKE
301 FFLGRFMDPL TKGRYPDIMR EIVGSRLPNF TEAEAELVAG SYDFLGLNYY
351 TTQYAQPKPN PVTWANHTAM MDPGAKLTYN NSRGENLGPL FVKDEKNGNA
401 YYYPKGIYYV MDYFKNKYNN PLIYITENGF STPGKETREE AVADSKRIDY
451 LCSHLCFLRK VIREKGVNIK GYFAWALGDN YEFCKGFTVR FGLSYVNWTD
501 LNDRNLLKKSQ KWYQSFINGT TKNPAKQDFR RPNLSLRNQK KNLADA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
88 - 98	1303.5817	1302.5744	1302.5146	46	0	K.NGDTTCESYTR.W
116 - 122	900.3528	899.3455	899.4290	-93	0	R.FSFAWSR.I
186 - 193	1031.3714	1030.3641	1030.4430	-77	0	R.DYADLCFK.E
194 - 200	764.2984	763.2912	763.4228	-172	1	K.EFGGKVK.N
215 - 225	1077.4758	1076.4685	1076.5251	-53	0	R.GYAIGTDAPGR.C
272 - 279	886.4160	885.4087	885.5106	-115	0	K.IGPVMITR.W
272 - 279	902.4136	901.4064	901.5055	-110	0	K.IGPVMITR.W Oxidation (M)
287 - 292	677.2048	676.1975	676.3140	-172	0	K.TDQASR.D
293 - 299	805.3217	804.3145	804.3912	-95	1	R.DAANRMK.E
313 - 320	1007.4397	1006.4324	1006.5018	-69	1	K.GRYPDIMR.E
313 - 320	1023.4247	1022.4174	1022.4967	-78	1	K.GRYPDIMR.E Oxidation (M)
315 - 320	810.2794	809.2722	809.3742	-126	0	R.YPDIMR.E Oxidation (M)
466 - 485	2352.2441	2351.2368	2351.1045	56	1	K.GVNIKGYFAWALGDN YEFCK .G

Spot No.: **43**

Mascot score: **86** Sequence coverage %: **37**

NCBI accession No.: **gi| 78096539**

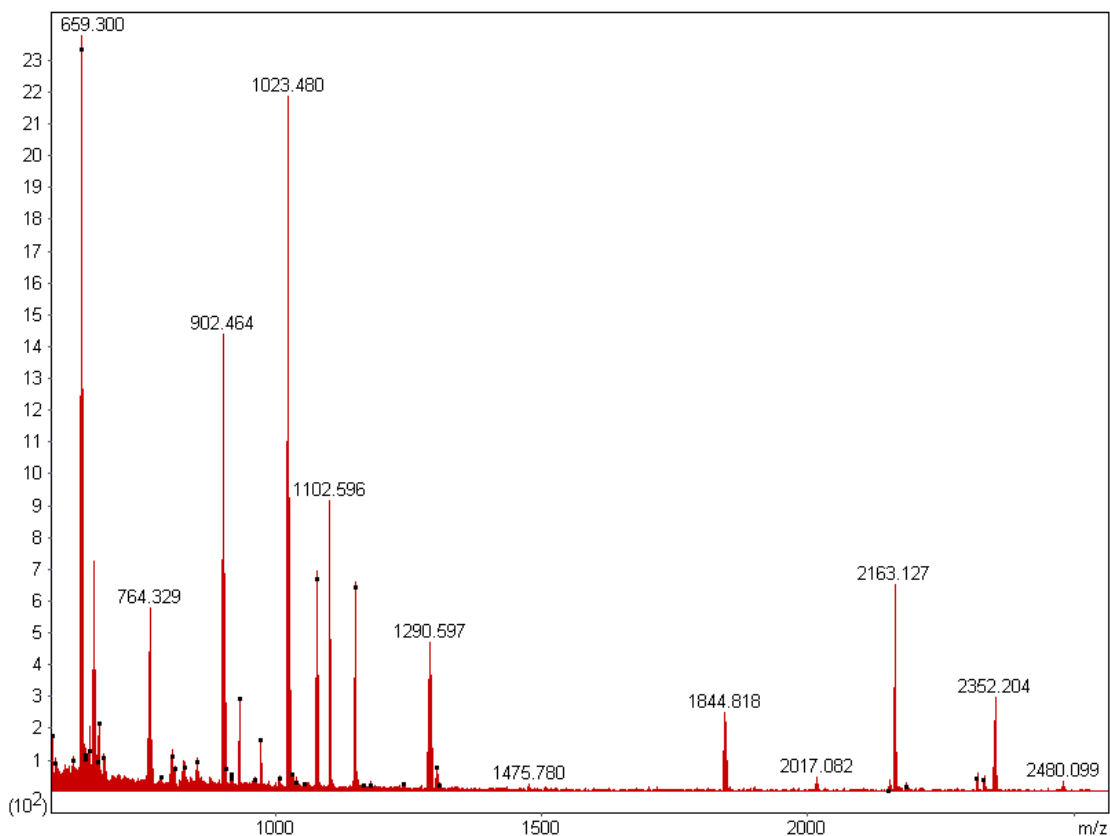
Matched peptides No.: **10**

Total peptides No.: **42**

Calculated Mr: **23412**

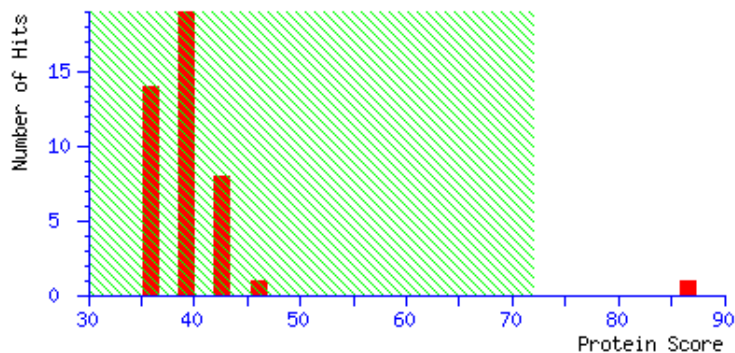
Calculated pI: **9.37**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MAMVVAAGAR** MPVSVLVLVA LVVVCLSANG AAAQQASSVA ATYNLYNPEK
51 INWDLRVASI FCATWDADMP LAWQRQRYGWT AFCGPAGAHG QPSCGRCLQV
101 **TNRATGARTV ARVVDQCDRS AGSTLTSPCS GRSTPTEAAS PMATSSSTTS**
151 **SSAARTDHAR DHRMLLHIPT IVAANKYAW** ISSIGKNKTQ **PKSISASMFY**
201 **RGMQRMLSSD SEYLV**M

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 10	861.3408	860.3335	860.4538	-140	0	M.AMVVAAGAR.M Oxidation (M)
104 - 112	902.7401	901.7329	901.5094	248	1	R.ATGARTVAR.V
113 - 132	2153.3492	2152.3419	2151.9637	176	1	R.VVDQCDRSAGSTLTSPCSGR.S
133 - 155	2185.4793	2184.4720	2184.9805	-233	0	R.STPTEAASPMATSSSTSSAAR.T
156 - 163	1007.7690	1006.7617	1006.4693	291	1	R.TDHARDHR.M
161 - 176	1845.0664	1844.0591	1844.0090	27	1	R.DHRMLLHIPTIVAANK.Y Oxidation (M)
164 - 176	1421.0422	1420.0349	1419.8272	146	0	R.MLLHIPTIVAANK.Y
193 - 201	1077.7924	1076.7851	1076.4961	269	0	K.SISASMFYR.G Oxidation (M)
206 - 216	1274.8567	1273.8494	1273.5570	230	0	R.MLSSDSEYLV.M.-
206 - 216	1290.8464	1289.8391	1289.5519	223	0	R.MLSSDSEYLV.M.- Oxidation (M)

Spot No.: **44**

Mascot score: **84** Sequence coverage %: **20**

NCBI accession No.: **gi| 152207441**

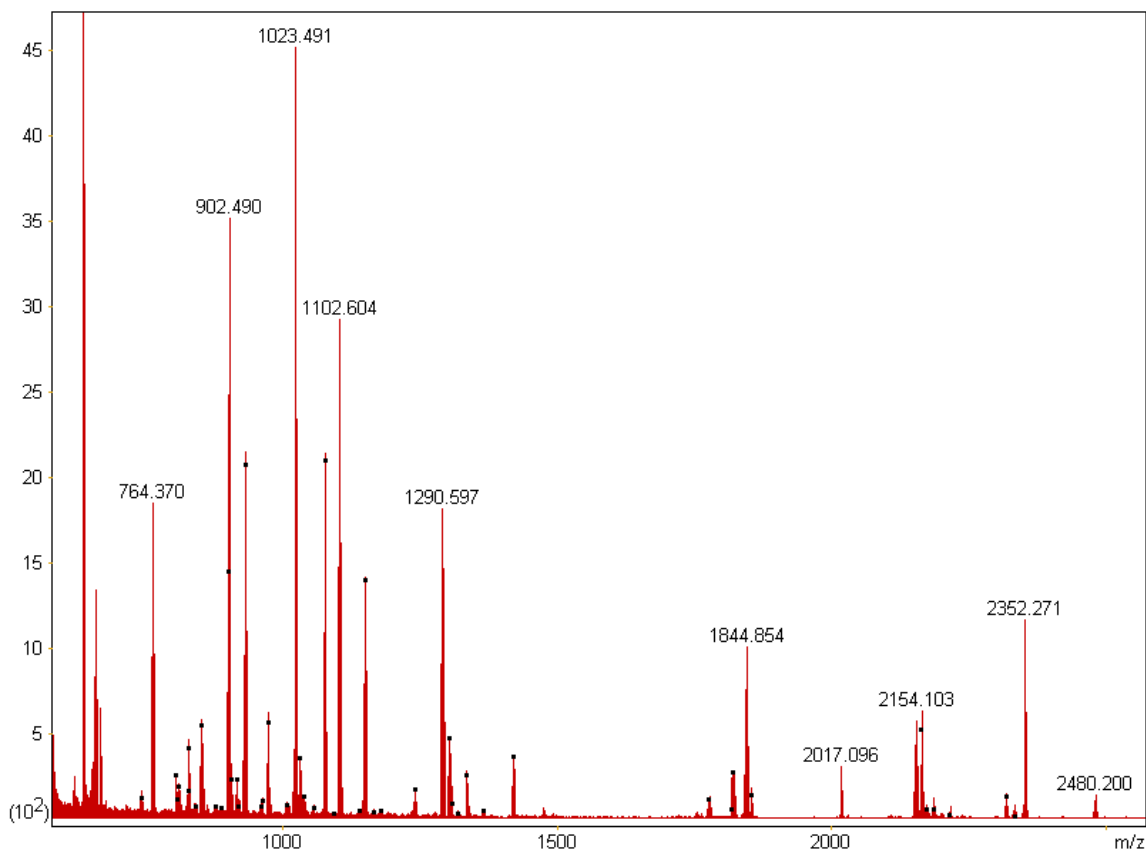
Matched peptides No.: **14**

Total peptides No.: **51**

Calculated Mr: **62750**

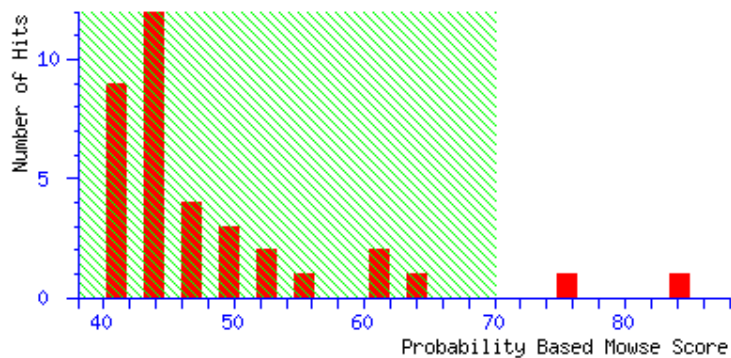
Calculated pI: **8.71**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MKLLHGLALV FLLAAASCKA DEEITCEENN PFTCSNTDIL SSKNFGKDFI
51 FGVASSAYQI EGGRGRGVNV WDGFSHRYPE KSGSDLKNGD TTCESYTRWQ
101 KDVDVMGELN ATGYRFSFAW SRIIPKGKVS RGVNQGLDY YHKLIDALLE
151 KNITPFVTLF PWDLPQTLQD EYEGFLNRTV IDDFRDYADL CFKEFGGKVK
201 NWITINQLYT VPTRGYAIGT DAPGRCSPPEV DEKCYGGNSS TEPYIVAHNQ
251 LLAHAAAVDV YRTKYKFQKG KIGPVMITRW FLPFDKTDQA SRDAANRMKE
301 FFLGRFMDPL TKGRYPDIMR EIVGSRLPNF TEAEAELVAG SYDFLGLNYY
351 TTQYAQPKN PVTWANHTAM MDPGAKLTYN NSRGENLGPL FVKDEKNGNA
401 YYYPKGIYYV MDYFKNKYNN PLIYITENGF STPGKETREE AVADSKRIDY
451 LCSHLCFLRK VIREKGVNIK GYFAWALGDN YEFCKGFTVR FGLSYVNWTD
501 LNDRNLKKSQ KWYQSFINGT TKNPAKQDFR RPNLSLRNQK KNLADA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
48 - 64	1816.9361	1815.9288	1815.8792	27	0	K.DFIFGVASSAYQIEGGR.G
88 - 98	1303.6452	1302.6379	1302.5146	95	0	K.NGDTTCESYTR.W
116 - 122	900.4158	899.4085	899.4290	-23	0	R.FSFAWSR.I
186 - 193	1031.4316	1030.4243	1030.4430	-18	0	R.DYADLCFK.E
194 - 200	764.3697	763.3624	763.4228	-79	1	K.EFGGKVK.N
215 - 225	1077.5356	1076.5283	1076.5251	3	0	R.GYAIGTDAPGR.C
272 - 279	886.4521	885.4448	885.5106	-74	0	K.IGPVMITR.W
272 - 279	902.4902	901.4829	901.5055	-25	0	K.IGPVMITR.W Oxidation (M)
287 - 292	677.2677	676.2605	676.3140	-79	0	K.TDQASR.D
293 - 299	805.3959	804.3887	804.3912	-3	1	R.DAANRMK.E
313 - 320	1007.4891	1006.4818	1006.5018	-20	1	K.GRYPDIMR.E
313 - 320	1023.4907	1022.4834	1022.4967	-13	1	K.GRYPDIMR.E Oxidation (M)
315 - 320	810.3496	809.3423	809.3742	-39	0	R.YPDIMR.E Oxidation (M)
466 - 485	2352.2712	2351.2639	2351.1045	68	1	K.GVNIKGYFAWALGDNYEFCK.G

Spot No.: **45**

Mascot score: **85** Sequence coverage %: **19**

NCBI accession No.: **gi| 10177293**

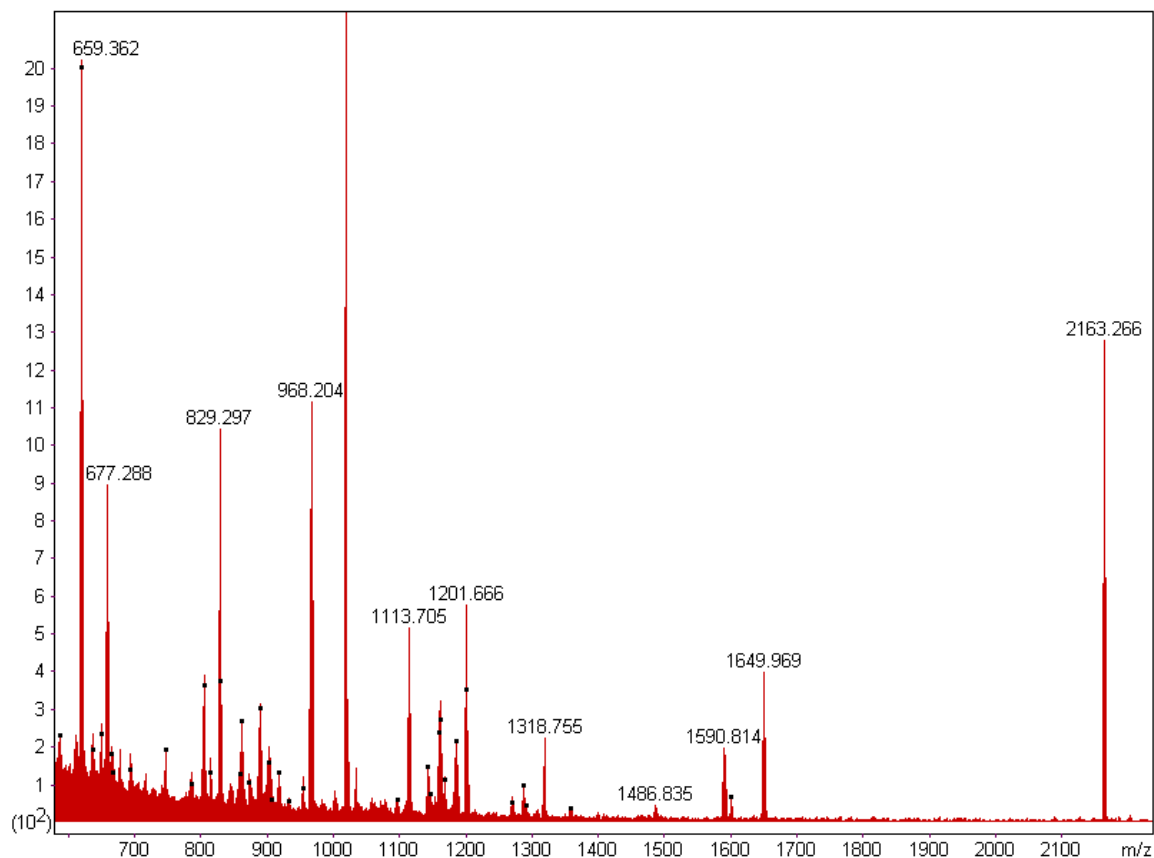
Matched peptides No.: **12**

Total peptides No.: **33**

Calculated Mr: **61812**

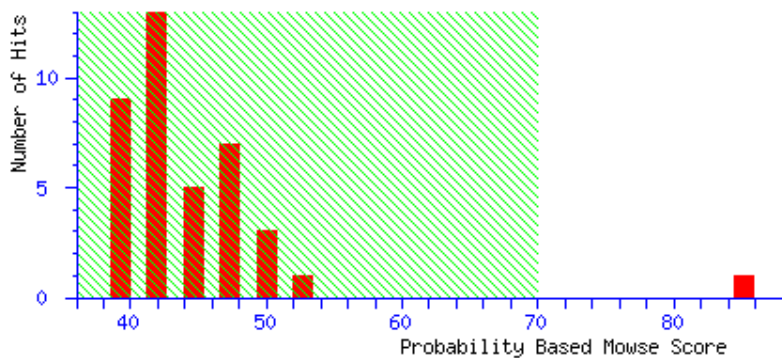
Calculated pI: **9.60**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MDPSAAPYNP RYTGGGGGYG PSPVMAGDNS GYNRYPSFQP PSGGFSVGRG
51 GGRGGYGQYG DRNGGGNWGG GGGRGGSSKR ELDSVSLPKQ NFGNLVHFEK
101 NFYVESPTVQ AMTEQDVAMY RTERDISVEG RDVPKPMKMF QDANFPDNIL
151 EAIAKLGFTE PTPIQAQGWP MALKGRDLIG IAETGSGKTL AYLLPALVHV
201 SAQPRLGQDD GPIVLILAPT RELAVQIQEE SRKFGLRSGV RSTCIYGGAP
251 KGPQIRDLR R GVEIVIATPG RLIDMLECQH TNLKRVTYLV LDEADRMLDM
301 GFEPQIRKIV SQIRPDRQTL LWSATWPREV ETLARQFLRD PYKAIIGSTD
351 LKANQSINQV IEIVPTPEKY NRLLTLLKQL MDGSKILIFV ETKRGCDQVT
401 RQLRMDGWPA LAIHGDKTQS ERDRVLAEFK SGRSPIMTAT DVAARGLDVK
451 DIKCVVNYDF PNTLEDYIHR IGRTGRAGAK GMAFTFFTHD NAKFARELVK
501 ILQEAGQVVP PTLSALVRSS GSGYGGSGGG RNFRPRGGGR GGGFGDKRSR
551 STSNEVPHGG KRTW

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
80 - 89	1143.6475	1142.6402	1142.6295	9	1	K.RELDSVSLPK.Q
122 - 131	1161.6444	1160.6371	1160.5786	50	1	R.TERDISVEGR.D
132 - 138	830.5137	829.5064	829.4368	84	0	R.DVPKPMK.M Oxidation (M)
177 - 188	1160.6395	1159.6322	1159.6085	20	0	R.DLIGIAETGSGK.T
233 - 237	620.3546	619.3473	619.3806	-54	1	R.KFGLR.S
252 - 259	954.5522	953.5449	953.5406	5	1	K.GPQIRDLR.R
318 - 328	1358.7645	1357.7572	1357.7143	32	0	R.QTLLWSATWPR.E
344 - 352	917.3328	916.3256	916.5229	-215	0	K.AIIGSTDLK.A
471 - 476	659.3615	658.3542	658.3875	-50	1	R.IGRTGR.A
481 - 493	1486.8347	1485.8274	1485.6711	105	0	K.GMAFTFFTHDNAK.F
494 - 500	862.4368	861.4296	861.5072	-90	1	K.FARELVK.I
551 - 562	1286.7560	1285.7487	1285.6527	75	1	R.STSNEVPHGGKR.T

Spot No.: 46

Mascot score: 84

Sequence coverage %: 24

NCBI accession No.: gi| 34849893

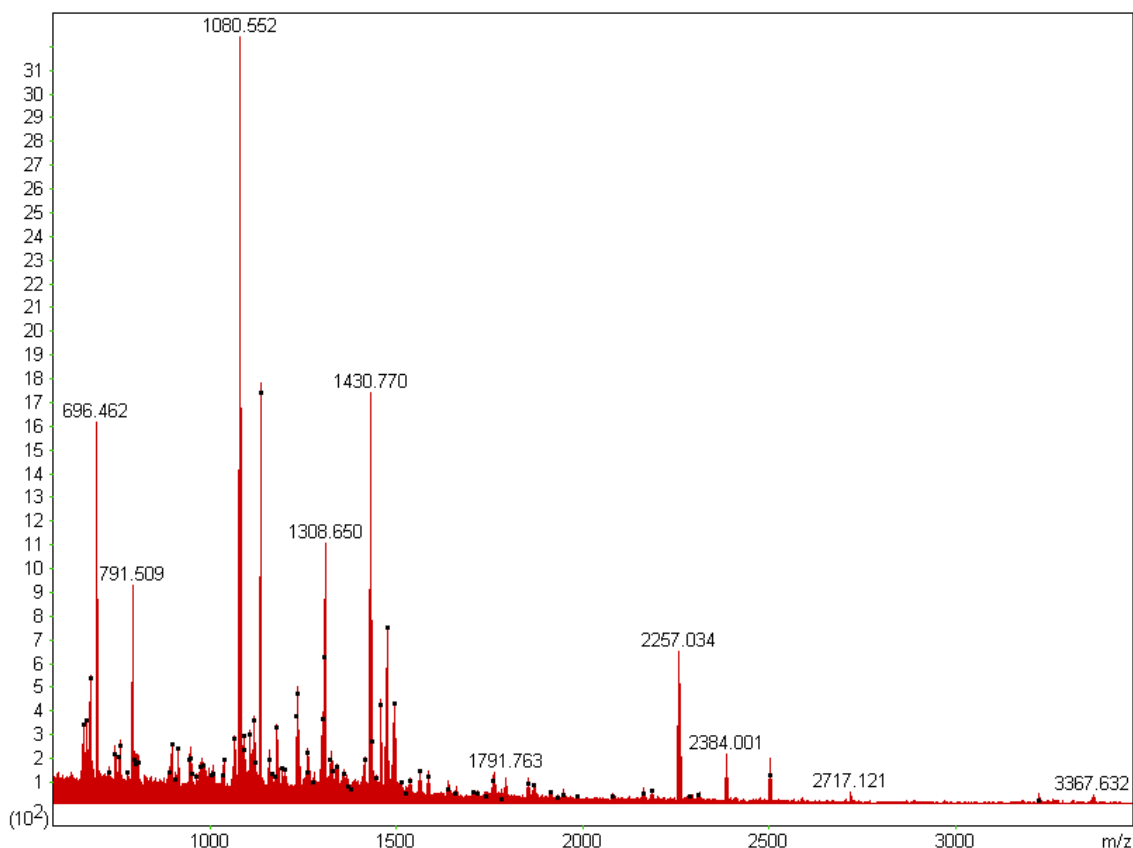
Matched peptides No.: 20

Total peptides No.: 76

Calculated Mr: 89768

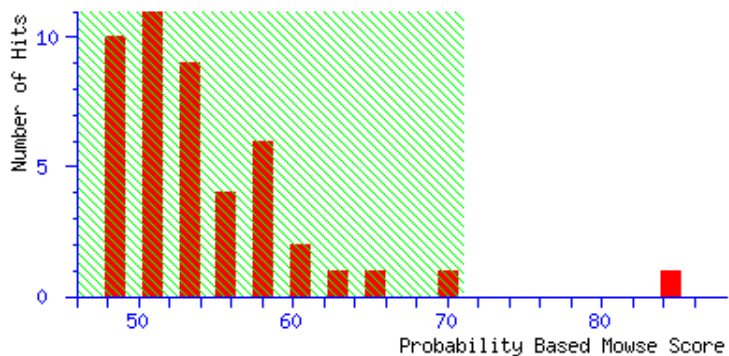
Calculated pI: 6.52

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MPLRNQNRAP** **LSPSPNVKKEA** **LSSIPFDKRR** **EETQGTGRRQ** VLSTVNRQDA
 51 NSDVGSTEEC GKVEFTKDEV LALLNERAKA GKFDTKGK**IE** **QMTDIIK**KLK
 101 VCVRWYQQVD ETHVQDKENL SSSLQSAEKR YSDKELDAKT KEEELRATIT
 151 EMKENIESLQ EKLSKEKLSK LDAIENHRRE KDCRVVAEKL **QVSLREELDK**
 201 VKEEKMAAK**Q** **KVTSLED**MYK RLQEYNTSLQ QYNTKL**QTDL** **EVAREAH**TRA
 251 EKEKSSILEN LTTLRGHSKS LQDQLASSRV SQDEAVKQKD SLLMEVNNLQ
 301 SELQQVRDDR DRHVVSQKL AGEILMYKES VGKSSHELDI LIAKSGSLEE
 351 TCSLQKERIK **MLEQELAF**AK EKLMVDLSM SHTMTEFEEQ **KQCMHELQDR**
 401 LADTERQLFE GELLRKK**LHN** **TILEL**KGNI R VFCRVR**PLLP** **DDGGR**QEASV
 451 IAYPTSTESL GRGIDVVQSG NK**HPFT**FDKV FDHGASQEEV FFEISQLVQS
 501 ALDGYKVCIF AYQQTGSGKT YTMMGRPETP EQKGLIPRSL EQIFK**TSQSL**
 551 **STQGW**KYK**MQ** **VSMLEI**YNES **IRDLL**STSRT IAIESVRADS STSGRQYITIT
 601 HDVNGNTHVS DLTIVDVCSI GQISSLLQQA AQSRVSGKTH MNEQSSR**SHF**
 651 **VFTLR**ISGVN ESTEQQVQGV LNLIDLAGE RLSRSGATGD RLKETQAINK
 701 **SLSALS**DV**IF** **ALAKK**EDHVP FRNSKLTYLL QPCLGGDSET LMFVNISPDP
 751 SSTGESLCSL RFAARVNACE IGIPRR**Q**TS**A** **KLLDS**RLSYG

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
2 - 8	897.4349	896.4276	896.4940	-74	1	M.PLRNQNR.A
5 - 17	1434.7468	1433.7395	1433.7739	-24	1	R.NQNRAPLSPSPNVK.K
18 - 28	1234.6392	1233.6319	1233.6605	-23	1	K.KEALSSIPFDK.R
19 - 29	1262.6217	1261.6144	1261.6666	-41	1	K.EALSSIPFDK.R
31 - 39	1033.5143	1032.5070	1032.4948	12	1	R.EETQGTGRR.Q
89 - 97	1090.5312	1089.5239	1089.5740	-46	0	K.IEQMTDIIK.K
190 - 200	1329.6380	1328.6307	1328.7299	-75	1	K.LQVSLREELDK.V
210 - 220	1357.6663	1356.6590	1356.6595	-0	1	K.QKVTSLLEDYK.R Oxidation (M)
236 - 249	1638.8508	1637.8435	1637.8485	-3	1	K.LQTDLEVAREAHTR.A
361 - 370	1179.5725	1178.5652	1178.6005	-30	0	K.MLEQELAFK.E
392 - 400	1232.5836	1231.5763	1231.5074	56	0	K.QCMHELQDR.L Oxidation (M)
418 - 426	1080.5520	1079.5447	1079.6339	-83	0	K.LHNTILELK.G
435 - 445	1194.5784	1193.5711	1193.6517	-67	0	R.VRLLPDDGGR.Q
473 - 479	891.4628	890.4555	890.4287	30	0	K.HPFTFDK.V
546 - 558	1513.7177	1512.7104	1512.7572	-31	1	K.TSQSLSTQGWKYK.M
559 - 579	2501.2839	2500.2766	2500.2301	19	1	K.MQVSMLEIYNESIRDLLSTSR.T Oxidation (M)
573 - 579	791.5093	790.5020	790.4185	106	0	R.DLLSTSR.T
648 - 655	1006.4620	1005.4547	1005.5396	-84	0	R.SHFVFTLR.I
701 - 715	1562.7460	1561.7387	1561.9079	-108	1	K.SLSALS DVIFALAKK.E
777 - 786	1118.5168	1117.5095	1117.6091	-89	1	R.QTSARLLDSR.L

Spot No.: 47

Mascot score: 171

Sequence coverage %: 39

NCBI accession No.: gi| 30959098

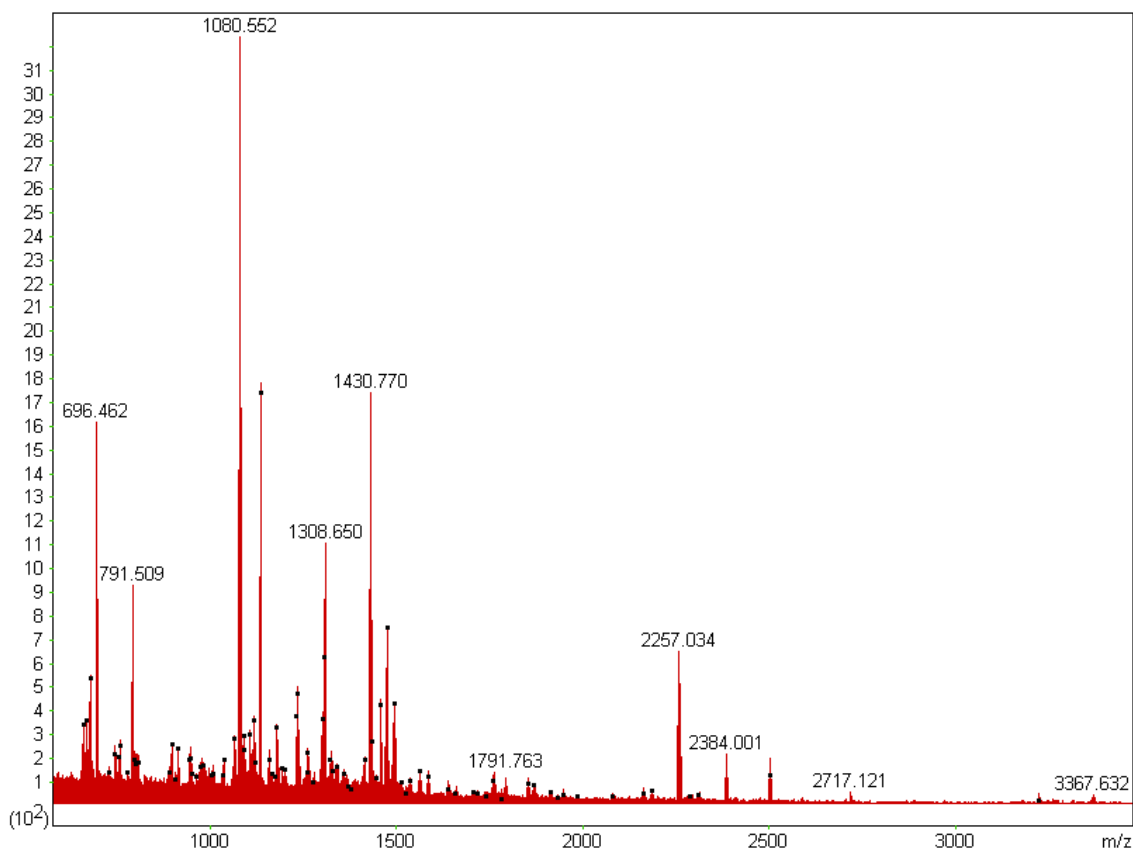
Matched peptides No.: 25

Total peptides No.: 108

Calculated Mr: 49918

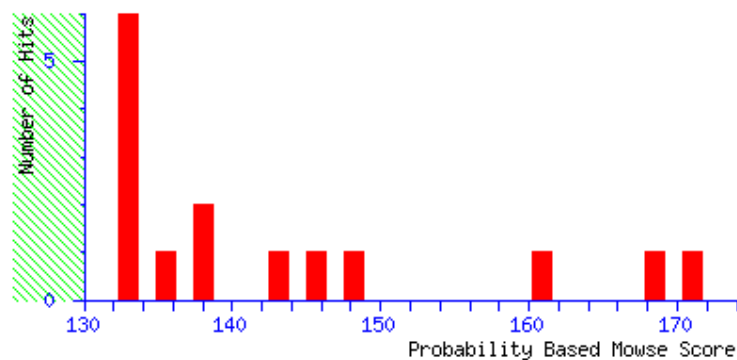
Calculated pI: 6.12

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  SVGFKAGVKE  YKLYYYTPEY  ETKDTDILAA  FRVTPQPGVP  PEEAGAAVAA
51 ESSTGTWTV  WIDGLTSLDR  YKGRCYHIEP  VAGEENQYIA  YVAYPLDLFE
101 EGVVXXMFXX  IVGNVFGFKA  LAALRLEDLR  IPPAYTKTFQ  GPPHGIQVER
151 DKLNKYGRPL  LGCTIKPKLG  LSAKNYGRAV  YECLRGGLDF  TKDDENVNSQ
201 PFMRWRDRFL  FCAEALYKAQ  TETGEIKGHY  LNATAGTCEE  MIKRAVFARE
251 LGVPIVMHDY  LTGGFTANTS  LAHYCRDNGL  LLHIHRAMHA  VIDRQKNHGM
301 HFRVLAKALR  LSGGDHIHAG  TVVGKLEGDR  ESTLGFVDLL  RDDYIEKDRS
351 RGIFFTQDWV  SLPGVLPVAS  GGIHVWHMPA  LTEIFGDDSV  LQFGGGTLGH
401 PWGNAPGAVA  NRVALEACVQ  ARNEGRDLAV  EGNEIIREAS  KWSPELAAA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
24 - 32	1021.6509	1020.6436	1020.5240	117	0	K.DTDILAAFR.V
120 - 125	614.4258	613.4186	613.3911	45	0	K.ALAALR.L
120 - 130	1240.8798	1239.8725	1239.7299	115	1	K.ALAALRLEDLR.I
126 - 130	645.3686	644.3614	644.3493	19	0	R.LEDLR.I
138 - 150	1465.9758	1464.9685	1464.7474	151	0	K.TFQGP PHGIQVER .D
138 - 152	1709.0891	1708.0818	1707.8693	124	1	K.TFQGP PHGIQVERDK .L
179 - 185	910.5267	909.5195	909.4378	90	0	R.AVYECLR.G
186 - 204	2170.2273	2169.2200	2168.9797	111	1	R.GGLDFTKDDENVNSQPFMR.W
186 - 204	2186.2217	2185.2144	2184.9746	110	1	R.GGLDFTKDDENVNSQPFMR.W Oxidation (M)
205 - 208	632.3520	631.3447	631.3190	41	1	R.WRDR.F
219 - 227	976.4622	975.4549	975.4873	-33	0	K.AQTETGEIK.G
228 - 244	1967.1442	1966.1369	1965.9037	119	1	K.GHYLNATAGTCEEMIKR.A Oxidation (M)
277 - 286	1187.8122	1186.8049	1186.6571	125	0	R.DNGLLLHIHR.A
287 - 294	912.5449	911.5376	911.4647	80	0	R.AMHAVIDR.Q
287 - 294	928.5407	927.5334	927.4596	80	0	R.AMHAVIDR.Q Oxidation (M)
295 - 303	1170.7653	1169.7580	1169.5512	177	1	R.QKNHGMHFR.V Oxidation (M)
297 - 303	898.5056	897.4984	897.4028	107	0	K.NHGMHFR.V
297 - 303	914.5017	913.4945	913.3977	106	0	K.NHGMHFR.V Oxidation (M)
311 - 325	1447.9468	1446.9395	1446.7579	126	0	R.LSGGDHIHAGTVVGK.L
326 - 341	1820.1888	1819.1815	1818.9476	129	1	K.LEGDRESTLGFV DLLR .D
331 - 341	1249.8378	1248.8305	1248.6714	127	0	R.ESTLGFV DLLR .D
331 - 347	2013.2321	2012.2248	2012.0102	107	1	R.ESTLGFV DLLR DDYIEK.D
342 - 349	1053.6126	1052.6053	1052.4774	122	1	R.DDYIEKDR.S
413 - 422	1116.7105	1115.7032	1115.5757	114	0	R.VALEACVQAR.N
427 - 437	1228.8208	1227.8135	1227.6459	137	0	R.DLAVEGNEIIR.E

Spot No.: **48**

Mascot score: **87** Sequence coverage %: **23**

NCBI accession No.: **gi| 312282657**

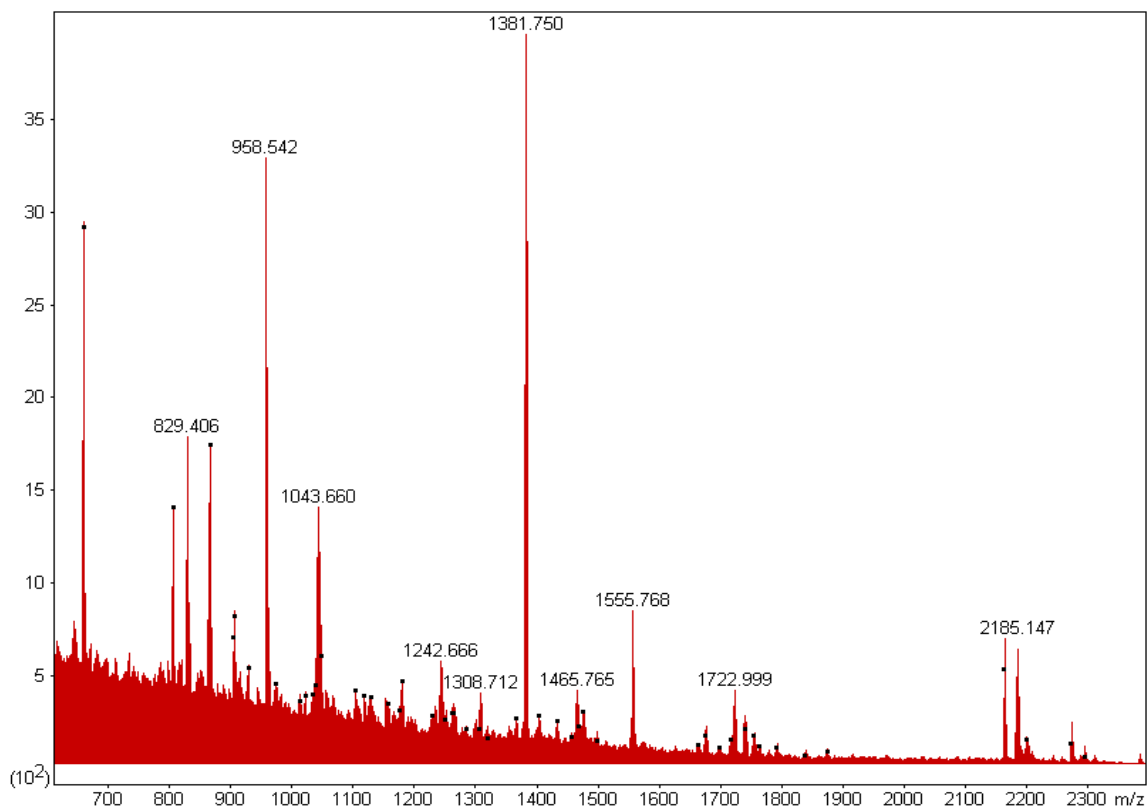
Matched peptides No.: **11**

Total peptides No.: **38**

Calculated Mr: **53947**

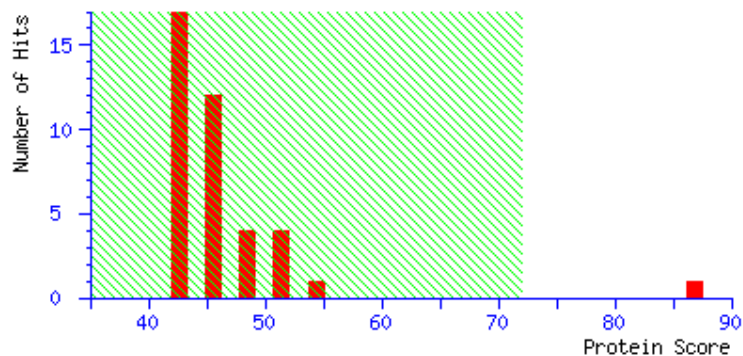
Calculated pI: **6.43**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MAGTGIFTEI LDGDVYKYYS DGEWKNSSSG KSVAIVNPST RKTQYKVQAC
51  TQEEVNKVM E MAKSAQKSWA KTPLWKRAEL LHKAAAAILKD NKAPIAESLV
101 KEIAKPAKDS VTEVVRSGDL ISYCAEEGVR ILGEGKFLLS DSFPGNERTK
151 YCLTSKIPLG VVLAIPPFNY PVNLAVSKIA PALIAGNSLV LKPPTQGA VS
201 CLHMVHCFHL AGFPKGLISC ITGKGSEIGD FLTMHPAVNC ISFTGGDTGI
251 SISKKAGMIP LQELGGKDA CIVLEDADLD LVASNIIKGG FSYSGQRCTA
301 VKVVLMESV ADELVEKVKA KVAKLTVGPP EENC DITAVV SESSANFIEG
351 LVMDAKEKGA TFCQEKREG NLIWPLLLDN VRPDMRIAWE EPFGPVLPLVL
401 RINSVEEGIN HCNASNFLQ GCVFTKDINK AMMISDAMET GTVQINSAPA
451 RGPDHFPFQG LKDSGIGSQG VTNSINLMTK VKTTVINLPT PSYSMG

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
18 - 25	1047.5201	1046.5128	1046.4345	75	0	K.YYSDGEWK.N
32 - 41	1043.6601	1042.6528	1042.5771	73	0	K.SVAIVNPSTR.K
77 - 83	866.6239	865.6166	865.5134	119	1	K.RAELLHK.A
109 - 116	904.5488	903.5415	903.4662	83	0	K.DSVTEVVR.S
117 - 130	1555.7681	1554.7608	1554.6984	40	0	R.SGDLISYCAEEGVR.I
137 - 148	1381.7501	1380.7428	1380.6674	55	0	K.FLLSDSFPGNER.T
289 - 297	958.5418	957.5345	957.4304	109	0	K.GGFSYSGQR.C
303 - 317	1675.9081	1674.9008	1674.8750	15	0	K.VVLMESVADELVEK.V Oxidation (M)
359 - 367	1103.5332	1102.5259	1102.4753	46	0	K.GATFCQEK.R
387 - 401	1722.9989	1721.9916	1721.9505	24	0	R.IAWEEPFGPVLPLR.I
452 - 462	1242.6661	1241.6588	1241.6193	32	0	R.GPDHFPFQGLK.D

Spot No.: **49**

Mascot score: **82** Sequence coverage %: **14**

NCBI accession No.: **gi| 4210334**

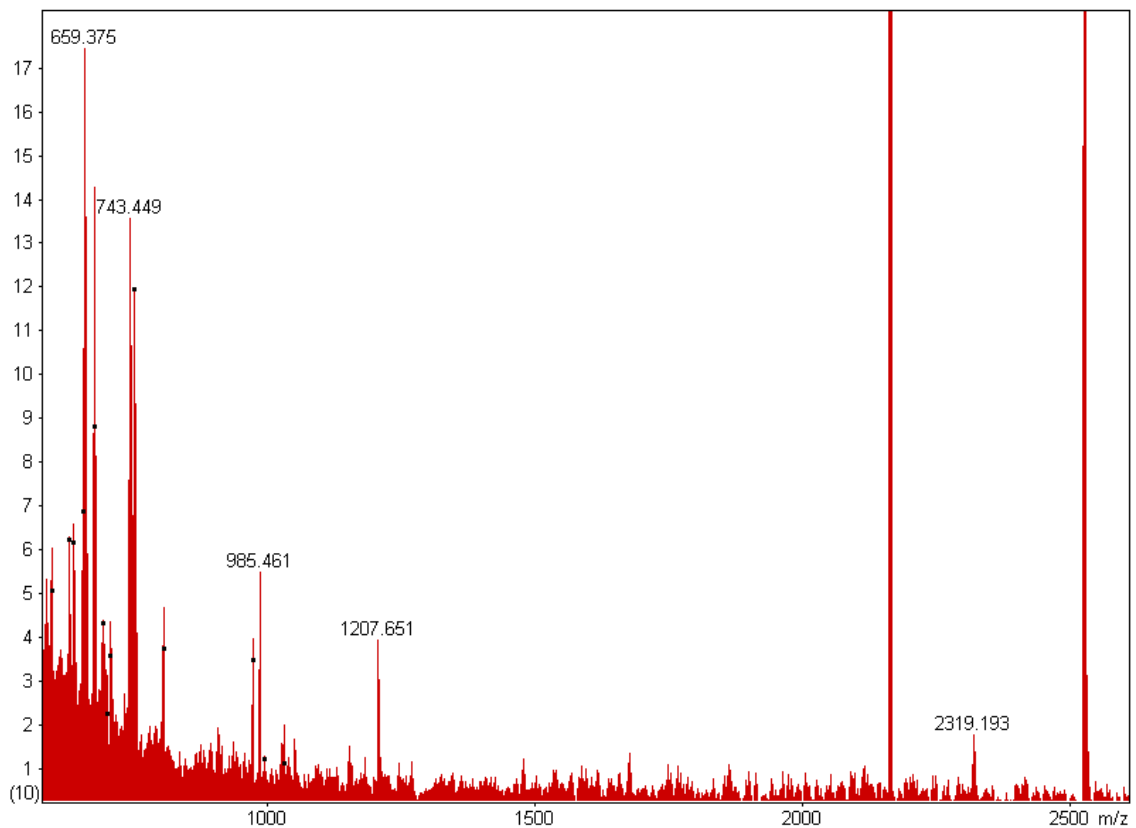
Matched peptides No.: **7**

Total peptides No.: **13**

Calculated Mr: **50272**

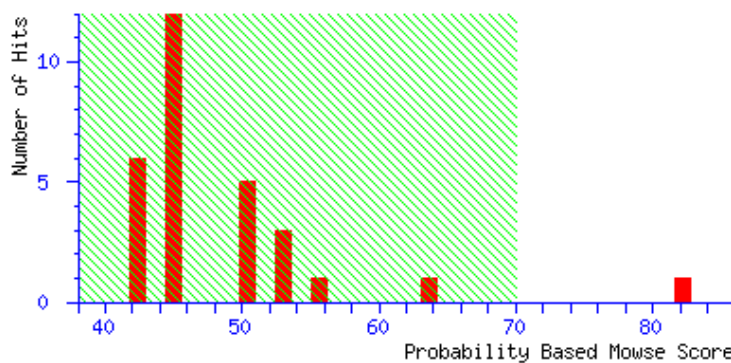
Calculated pI: **6.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

 1 FASSGSDDND VVIIGGGPGG YVAAIKAAQL GLKTTCIEKR GALGGTCLNV
 51 GCIPSKALLH SSHMYHEAKH VFANHGVKVS SVEVDLPAML AOKDTAVKNL
101 TRGVEGLFKK NKVNYVKGYG KFLSPSEVSV DTIDGENVVV KGKHIIVATG
151 SDVKSLPGIT IDEKKIVSST GALSLETEIPK KLIVIGAGYI GLEMGSVMGR
201 LGSEVTVVEF AADIVPAMDG EIRKQFQSL EKQKMKFMLK TKVVGVDSSG
251 DGVKLIVEPA EGGEQTTLA DVVLVSAGRT PFTSGLDLEK IGVETDKGGR
301 ILVNERFSTN VSGVYAIGDV IPGPMLAHKA EEDGVACVEF IAGKHGHVDY
351 DKVPGVVYTY PEVASVGKTE EQLKKEGVSY NVGKPFMAN SRAKAIDTAE
401 GMVKILADKE TDKILGVHIM SPNAGELIHE AVLAINYDAS SEDIARVCHA
451 HPTMSEAIKE AAMATYDKPI HM

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
34 - 39	751.3691	750.3618	750.3582	5	0	K.TTCIEK.R
122 - 143	2319.1934	2318.1861	2318.2006	-6	1	K.FLSPSEVSVDTIDGENVVVKGK.H
224 - 228	706.3667	705.3594	705.3922	-46	1	R.KQFQR.S
280 - 290	1207.6513	1206.6440	1206.6132	26	0	R.TPFTSGLDLEK.I
291 - 300	1031.5327	1030.5254	1030.5407	-15	1	K.IGVETDKGGR.I
301 - 306	743.4486	742.4413	742.4337	10	0	R.ILVNER.F
385 - 392	985.4607	984.4535	984.4487	5	0	K.PPFMANSR.A Oxidation (M)

Spot No.: **50**

Mascot score: **150** Sequence coverage %: **39**

NCBI accession No.: **gi| 3033398**

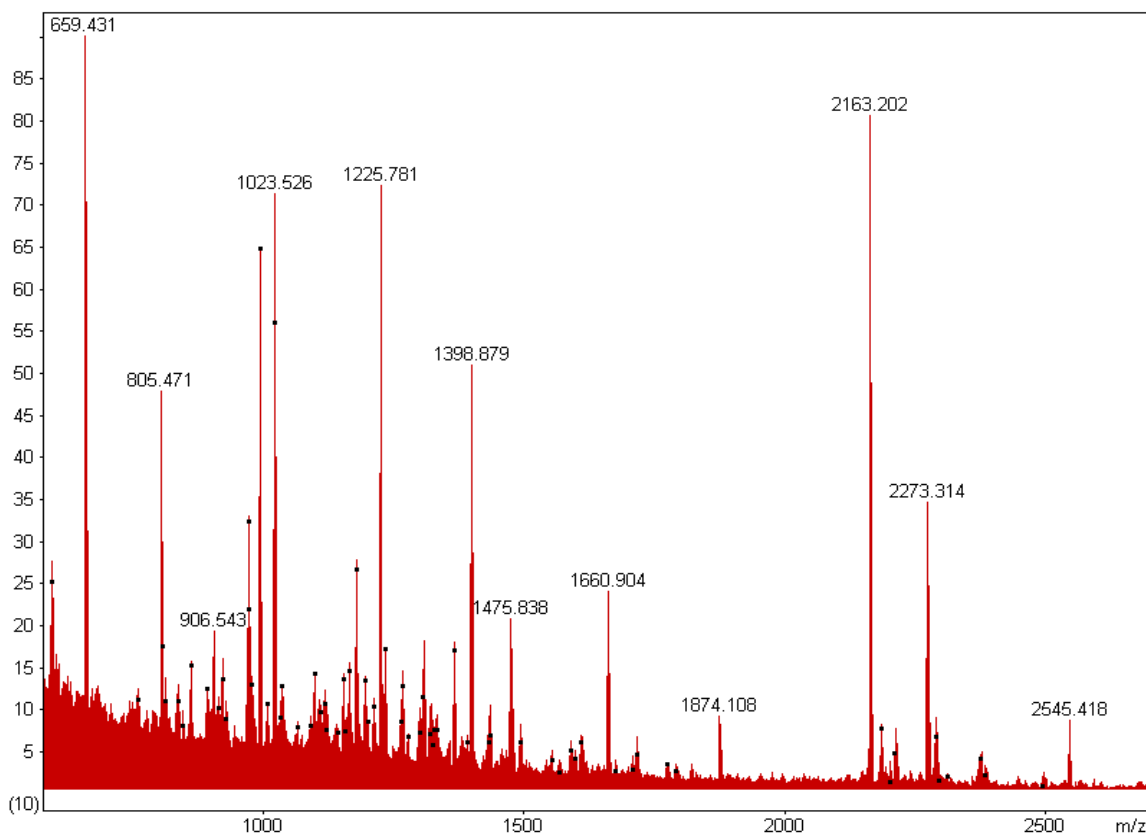
Matched peptides No.: **18**

Total peptides No.: **57**

Calculated Mr: **59890**

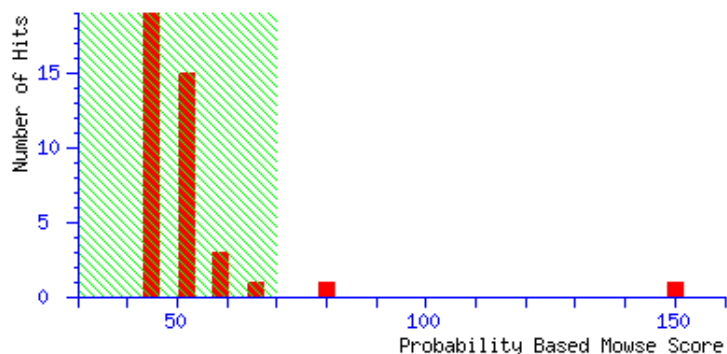
Calculated pI: **5.89**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MAESQTAQRN** QPQSSGSSGE KQALISLSDK RDLASLGNGL QELGYTIVST
 51 GGTASTLENA GVSVTKVEKL THFPEMLDGR **VKTLHPNIHG** **GILARRDVEH**
 101 HMEALNEHGI GTFDVVVNL YPFYEKVTAP **GGISFEDGIE** **NIDIGGPAMI**
 151 **RAAAKNHKDV** LIVVDSGDYQ AVLEYLKGQ **SDQQFRRKLA** WKAFQHVAAY
 201 DSAVSEWLWK QTEGKEKFPF SFTVPLVLKS SLRYGENPHQ **KAIFYVDKSL**
 251 **AEVNAGGIAT** **AIQHHGKEMS** YNNYLDADAA WNCVSEFENP TCVVVKHTNP
 301 **CGVASRDDIL** **EAYRLAVKAD** **PVSFAFGGIVA** **FNVEVDEVLA** **REIREFRSPT**
 351 **DGETRMFYEI** **VVAPKYTAG** **LEVLKGSKT** LRILEAKKND QGKLSLRQVG
 401 GGWLAQDSD LTPEDISFNS VSDKTPTESE LADAKFAWLC **VKHVKSNAIV**
 451 **IAKNNCLGM** **GSGQPNRVES** LRIAFKKAGE **EAKGAALASD** **AFPPFAWKDA**
 501 **VEEACQMIG** VIAEPGGSIR DQDAIDCCK **YGVSLLEFTNV** **RHFRH**

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
1 - 9	1037.5782	1036.5709	1036.4607	106	0	-.MAESQTAQR.N Oxidation (M)
83 - 95	1398.8785	1397.8712	1397.7892	59	0	K.TLHPNIHGGILAR.R
127 - 151	2545.4182	2544.4109	2544.2530	62	0	K.VTAPGGISFEDGIENIDIGGPAMIR.A Oxidation (M)
178 - 186	1022.5378	1021.5305	1021.4577	71	0	K.GGQSDQQFR.R
234 - 241	972.5302	971.5229	971.4461	79	0	R.YGENPHQK.A
242 - 248	813.4564	812.4492	812.4068	52	0	K.AAIFYVDK.S
249 - 267	1874.1085	1873.1012	1872.9806	64	0	K.SLAEVNAGGIATAIQHHGK.E
297 - 306	1098.5943	1097.5870	1097.5036	76	0	K.HTNPCGVASR.D
307 - 314	994.5604	993.5531	993.4767	77	0	R.DDILEAYR.L
319 - 341	2375.3715	2374.3642	2374.2169	62	0	K.ADPVSFAFGGIVAFNVEVDEVLAR.E
348 - 355	862.4622	861.4550	861.3828	84	0	R.SPTDGETR.M
356 - 365	1212.6793	1211.6720	1211.6260	38	0	R.MFYEIVVAPK.Y Oxidation (M)
366 - 375	1121.6440	1120.6367	1120.6492	-11	1	K.YTAGGLEVLK.G
443 - 453	1179.6819	1178.6746	1178.7135	-33	1	K.HVKSNAIVIAK.N
454 - 467	1567.8017	1566.7944	1566.6337	103	0	K.NNCMLGMGSGQPNR.V 2 Oxidation (M)
484 - 498	1598.8870	1597.8797	1597.7929	54	0	K.GAALASDAFFPPFAWK.D
531 - 541	1268.7698	1267.7625	1267.6925	55	0	K.YGVSLLEFTNVR.H
542 - 545	596.3379	595.3306	595.2979	55	1	R.HFRH.-

Spot No.: 51

Mascot score: 111 Sequence coverage %: 34

NCBI accession No.: gi| 22417145

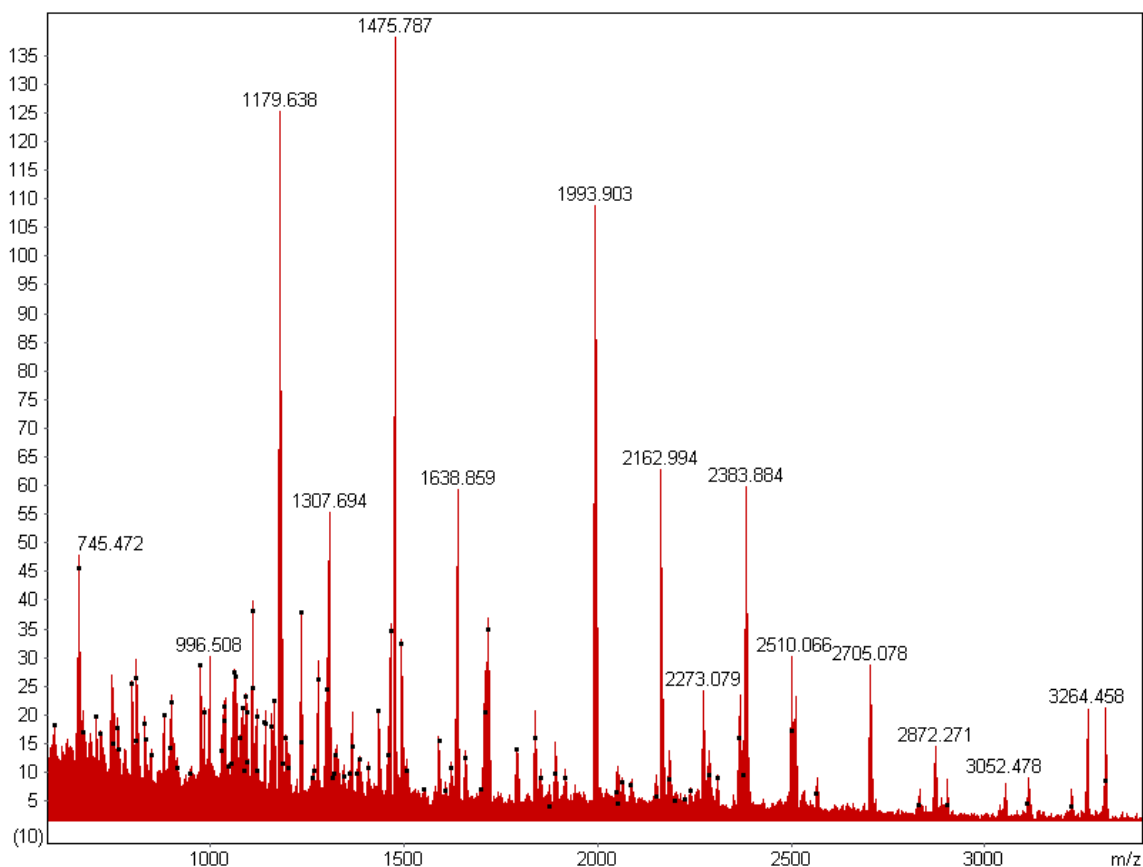
Matched peptides No.: 15

Total peptides No.: 66

Calculated Mr: 41355

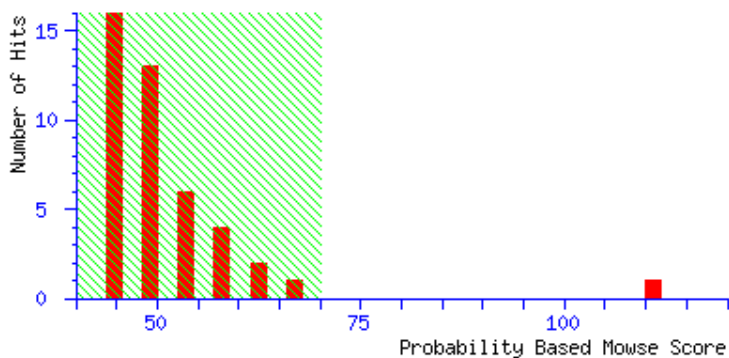
Calculated pI: 10.68

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MQQQLYRQTI RHQHQLLHAR** GPSLASTSGR PCARPAGDSR RSLRCYSYTT
51 GSSSLESHPV KRAFLSIGVS PNDLERAARL EPSVLAVDKL DRLHGMIDLL
101 LGASLSPSDI GQVLLAYPQA FQLSLDR**ARE VLDFLRDDMH LSESQVRTVL**
151 **TRYP**SILNMN **VKG**QLRPQVA YLNSLGVGPE SLPELVLSRP LVLGPGIDTV
201 ITFLKRLGVP **RSQMHRMLRS** CPLDYRVQFK SFSAAAAPGGS SSSSSSGGMG
251 RNYWR**QGAGG** **AGRRMVD**CWA **PLAATAAAPR** HVKCTSAVNI LLLSGCSRLA
301 **YRPGR**LPPAR **KAPGIGANME CAHVGAPRSP** RWSLERVGDQ **QRRCIQASGL**
351 **ERLQR**MAAH **TGPRR**WACEW QGP

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 7	982.4867	981.4794	981.4702	9	0 -.MQQQLYR.Q Oxidation (M)
1 - 11	1464.8502	1463.8429	1463.7667	52	1 -.MQQQLYRQTIR.H
12 - 20	1139.5504	1138.5431	1138.6108	-59	0 R.RHQHQLLHAR.G
128 - 136	1118.5578	1117.5505	1117.6244	-66	1 R.AREVLDFLR.D
137 - 147	1316.5907	1315.5834	1315.5827	1	0 R.DDMHLSSESQVR.T
153 - 162	1194.6218	1193.6145	1193.6114	3	0 R.YPSILNMNVK.G Oxidation (M)
212 - 219	1090.5682	1089.5609	1089.5172	40	1 R.SQMHRMLR.S 2 Oxidation (M)
256 - 264	829.3700	828.3627	828.4314	-83	1 R.QGAGGAGRR.M
265 - 280	1716.8163	1715.8090	1715.8123	-2	0 R.MVDCWAPLAATAAAPR.H Oxidation (M)
299 - 305	832.5422	831.5350	831.4715	76	0 R.LAYRPGR.L
311 - 328	1851.8810	1850.8737	1850.8880	-8	1 R.KAPGIGANMECAHVGAPR.S Oxidation (M)
312 - 328	1707.7387	1706.7314	1706.7981	-39	0 K.APGIGANMECAHVGAPR.S
312 - 331	2064.0289	2063.0216	2062.9789	21	1 K.APGIGANMECAHVGAPRSPR.W Oxidation (M)
344 - 352	1033.5514	1032.5441	1032.5022	41	0 R.CIQASGLER.L
357 - 365	996.5082	995.5009	995.5083	-7	1 R.MAAHTGPRR.W

Spot No.: 52

Mascot score: 92 Sequence coverage %: 17

NCBI accession No.: gi| 30693102

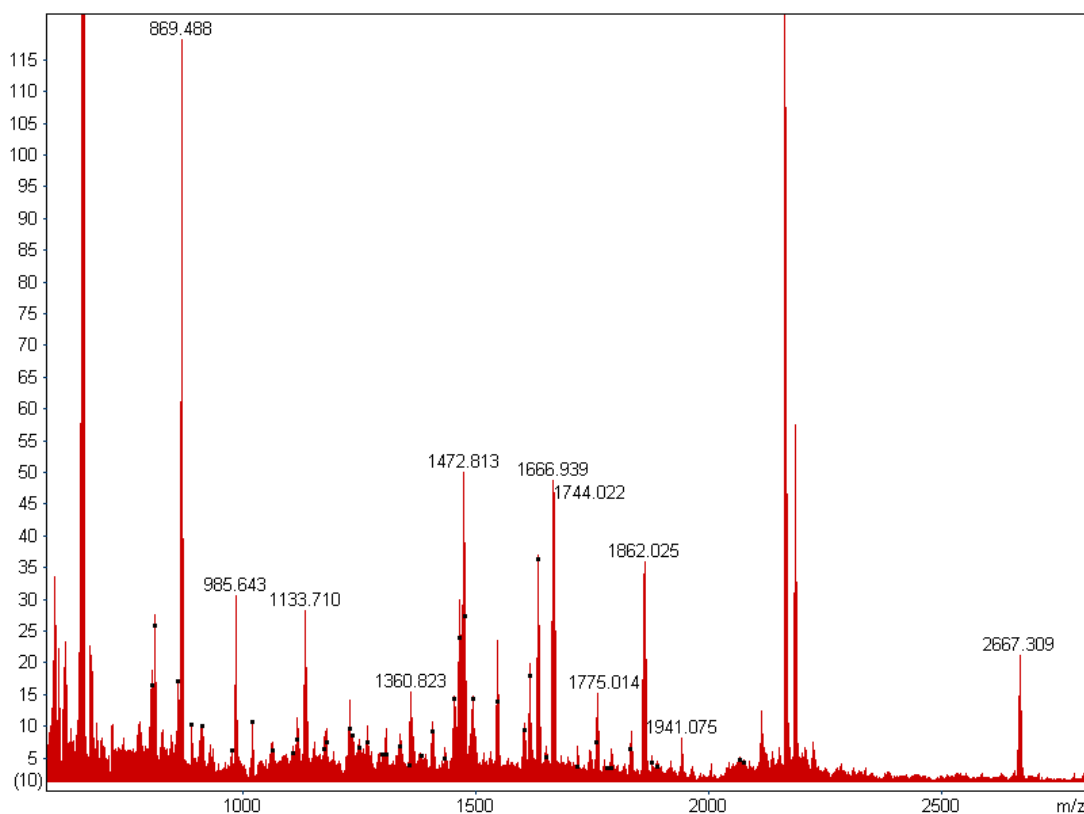
Matched peptides No.: 12

Total peptides No.: 30

Calculated Mr: 82214

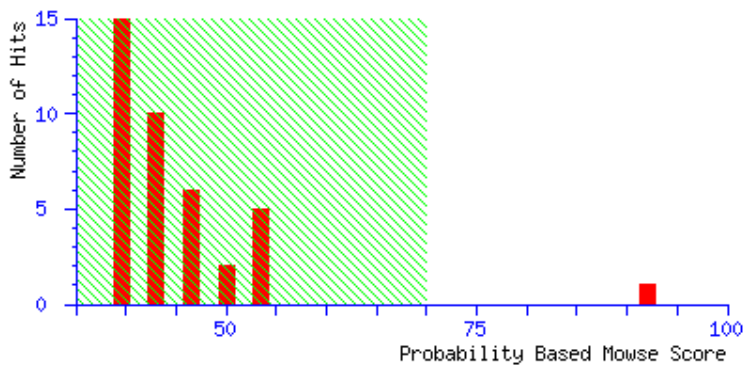
Calculated pI: 6.24

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

 1 MGLGILASRT IRPASRLLOS QTSNFFLRTI VSKPELQSPE SAAVSEPEPP
 51 TQILPPRNPV GGARVHFSNP EDAIEVFDG YAVKVPKGFT VLQACEVAGV
101 DIPRFFCYHSR LSIAGNCRMC LVEVEKSPKP VASCAMPALP GMKIKTDTPI
151 AKKAREGVME FLLMNHPLDC PICDQGGECD LQDQSMAFGS DRGRFTEMKR
201 SVVDKNLGPL VKTVMTRCIQ CTRCVRFASE VAGVQDLGIL GRGSGEEIGT
251 YVEKLMTSEL SGNVIDICPV GALTSPKFAF KARNWELKAT ETIDVSDAVG
301 SNIRVDSRGP EVMRIIPRLN EDINEEWISD KTRFCYDGLK RQRLSDPMIR
351 DSDGRFKAVS WRDALAVVGD IIHQVKPDEI VGVAGQLSDA ESMHVLKDFV
401 NRMGSDNVWC EGTAAGVDAD LRYSYLMNTS ISGLENADLF LLIQTQPRVE
451 AAMVNARICK TVRASNAKVG YVGPPAEFNY DCKHLGTGPD TLKEIAEGRH
501 PFCTALKNK NPATIVGAGL FNRTDKNAIL SSVESIAQAN NVVRPDWNL
551 NFLLQYAAQA AALDLGLIQQ SAKALESKAF VYLMGADDVN VDKIPKDAFV
601 VYQGHGDKA VYRANVILPA SAFTEKEGTY ENTEGETTQQT VPAVPTVGDA
651 RDDWKIVRAL SEVSGVKLPY NSIEGVRSLI KSVAPNLVHT DEREPAAFGP
701 SLKPECKEAM STTPFQTVVE NPYMTNSITR ASKIMAQCSA VLLKK

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
105 - 110	869.4882	868.4810	868.3650	134	0	R.FCYHSR.L
111 - 118	890.5136	889.5063	889.4440	70	0	R.LSIAGNCR.M
201 - 212	1268.7294	1267.7221	1267.7500	-22	1	R.SVVDKNLGPLVK.T
319 - 331	1604.9052	1603.8979	1603.7365	101	0	R.LNEDINEEWISDK.T
319 - 333	1862.0254	1861.0181	1860.8853	71	1	R.LNEDINEEWISDKTR.F
398 - 402	650.3375	649.3302	649.3184	18	0	K.DFVNR.M
449 - 457	976.6086	975.6014	975.4807	124	0	R.VEAAMVNAR.I Oxidation (M)
597 - 609	1472.8129	1471.8056	1471.6844	82	0	K.DAFVYQGHGDK.A
614 - 626	1360.8234	1359.8161	1359.7398	56	0	R.ANVILPASAFTEK.E
627 - 651	2667.3086	2666.3013	2666.2460	21	0	K.EGTYENTEGETTQQTVPVPTVGDAR.D
682 - 693	1337.7721	1336.7648	1336.6735	68	0	K.SVAPNLVHTDER.E
734 - 744	1249.7812	1248.7739	1248.6570	94	0	K.IMAQCSAVLLK.K Oxidation (M)

Spot No.: **53**

Mascot score: **85** Sequence coverage %: **19**

NCBI accession No.: **gi| 152207441**

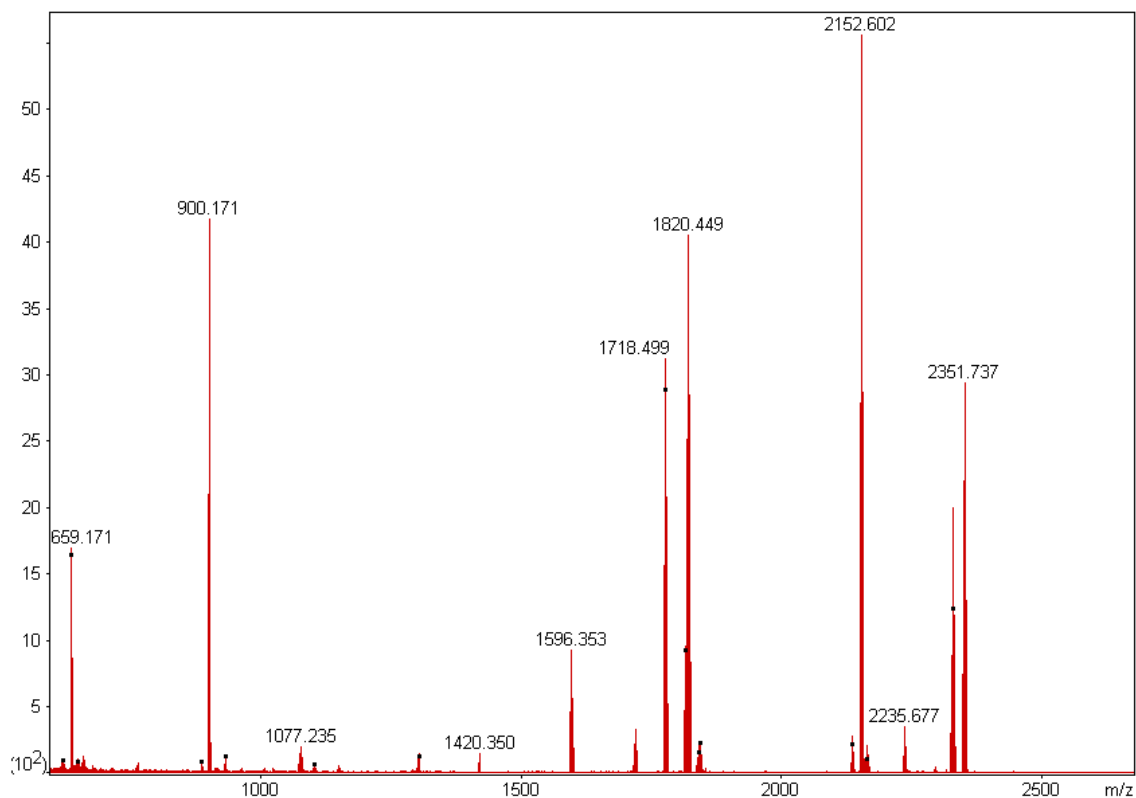
Matched peptides No.: **10**

Total peptides No.: **19**

Calculated Mr: **62750**

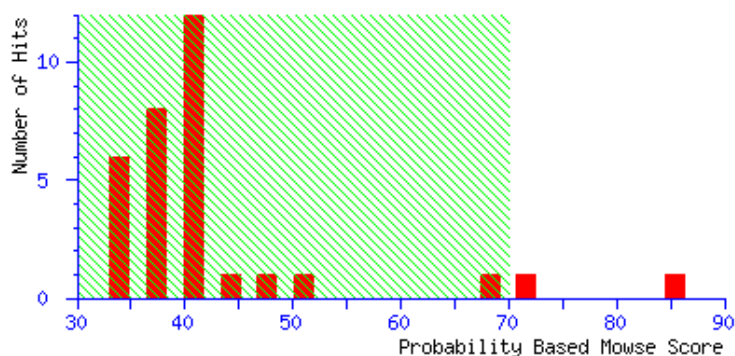
Calculated pI: **8.71**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

 1 MKLLHGLALV FLLAAASCKA DEEITCEENN PFTCSNTDIL SSKNFGKDFI
 51 FGVASSAYQI EGGRGRGVNV WDGFSHRYPE KSGSDLKNGD TTCESYTRWQ
101 KDVDVMGELN ATGYRFSFAW SRIIPKGKVS RGVNQGLDY YHKLIDALLE
151 KNITPFVTLF PWDLPQTLQD EYEGFLNRTV IDDFRDYADL CFKEFGGKVK
201 NWITINQLYT VPTRGYAIGT DAPGRCSPEV DEKCYGGNSS TEPYIVAHNQ
251 LLAHAAAVDV YRTKYKFQKG KIGPVMITRW FLPFDKTDQA SRDAANRMKE
301 FFLGRFMDPL TKGRYPDIMR EIVGSRLPNF TEAEAELVAG SYDFLGLNYY
351 TTQYAQPKPN PVTWANHTAM MDPGAKLTYN NSRGENLGPL FVKDEKNGNA
401 YYYPKGIYYV MDYFKNKYNN PLIYITENGF STPGKETREE AVADSKRIDY
451 LCSHLCFLRK VIREKGVNIK GYFAWALGDN YEFCKGFTVR FGLSYVNWTD
501 LNDRNLLKSG KWYQSFINGT TKNPAKQDFR RPNLSLRNQK KNLADA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
48 - 64	1816.4417	1815.4344	1815.8792	-245	0	K.DFIFGVASSAYQIEGGR.G
88 - 98	1303.2597	1302.2524	1302.5146	-201	0	K.NGDTTCESYTR.W
116 - 122	900.1711	899.1638	899.4290	-295	0	R.FSFAWSR.I
201 - 214	1718.4988	1717.4915	1717.9151	-247	0	K.NWITINQLYTVPTR.G
215 - 225	1077.2347	1076.2274	1076.5251	-276	0	R.GYAIGTDAPGR.C
272 - 279	886.2540	885.2467	885.5106	-298	0	K.IGPVMITR.W
272 - 286	1820.4485	1819.4412	1818.9855	251	1	K.IGPVMITRWFLPFDK.T
448 - 459	1596.3534	1595.3461	1595.7588	-259	0	R.IDYLCSHLCFLR.K
466 - 485	2351.7368	2350.7295	2351.1045	-159	1	K.GVNIKGYFAWALGDNYEFCK.G
471 - 485	1840.3942	1839.3869	1839.7926	-221	0	K.GYFAWALGDNYEFCK.G

Spot No.: **54**

Mascot score: **122** Sequence coverage %: **21**

NCBI accession No.: **gi| 15226573**

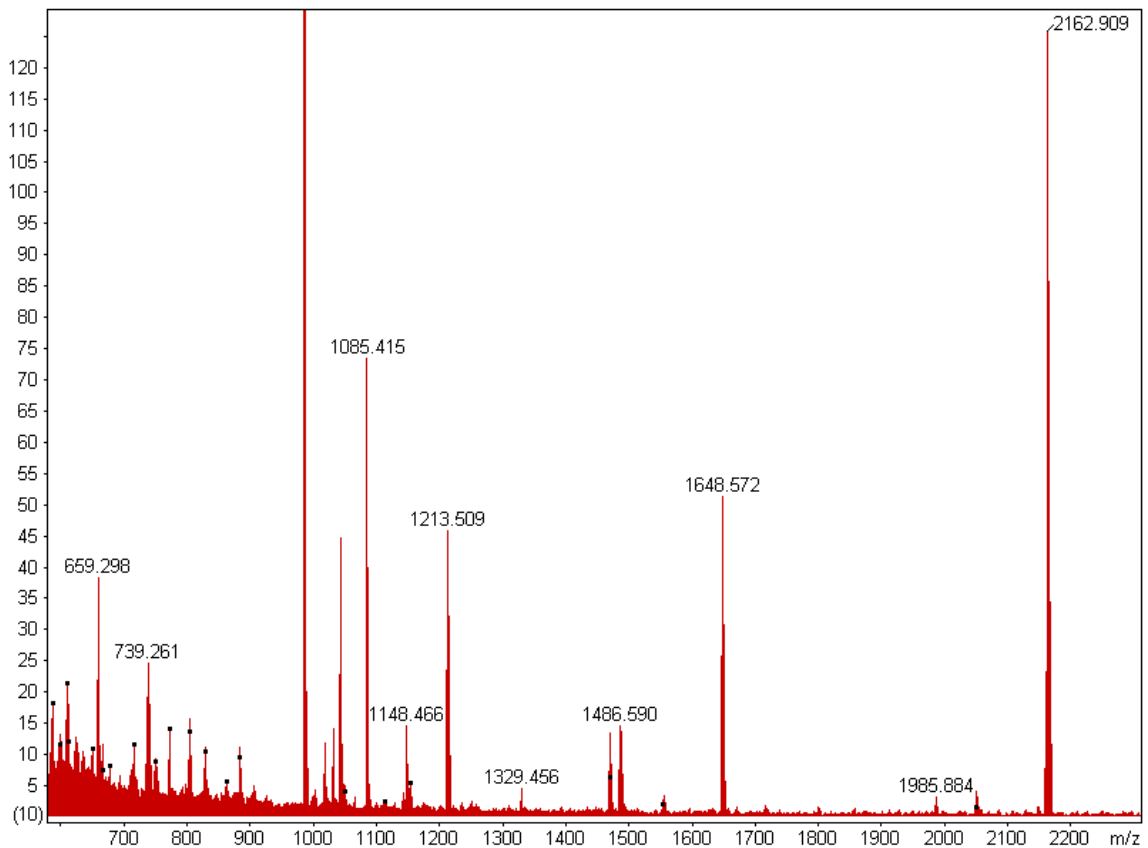
Matched peptides No.: **16**

Total peptides No.: **38**

Calculated Mr: **65977**

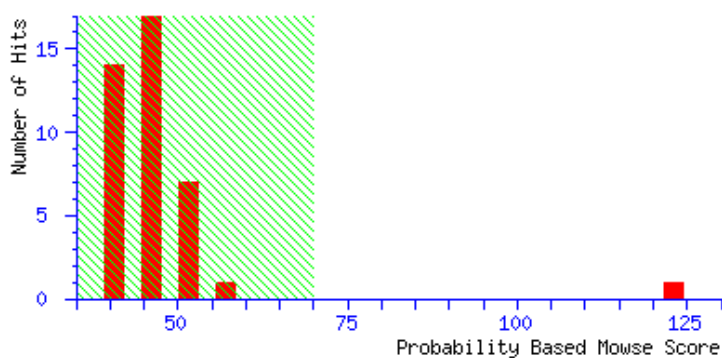
Calculated pI: **5.95**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MTSFSLTFTS PLLPSSSTKP KRSVLVAAAQ TTAPAESTAS VDADRLEPRV
51 ELK**DGFFILK** **EK**FRKGINPQ EKVKIEREPM KLFMENGIEE LAKKSMEELD
101 SEKSSKDDID VRLKWLGLFH RRR**HQYGKFM** **MRL**KLPNGVT TSAQTRYLAS
151 VIR**KYGEDGC** **ADV**TTRQNWQ **IR**GVVLPDVP EILKGLASVG LTSLSQSGMDN
201 VRNPVGNPIA GIDPEEIVDT RPYTNLLSQF ITANSQGNPD FTNLPRKWNV
251 CVVGT HDLYE HPHINDLAYM PANKDGRFGF NLLVGGFFSP KRCEEAIPLD
301 AWVPADDVLP LCK**AVLEAYR** DLGTRGNRQK TRMMWLIDEL GVEGFRTEVE
351 KR**MPNGKLER** GSSEDLVNKQ **WER**RDYFGVN POKQEGLSFV GLHVPVGR**LQ**
401 **ADD**MDELARL **AD**TYGSGELR LTVEQNIIP NVETSK**TEAL** **LQEP**FLKNRF
451 **SPE**PSILMKG LVACTGSQFC GQAIETKLR **ALK**VTEEVER **LVS**VPRPIRM
501 HWTGCPNTCG QVQVADIGFM GCLTRGEEGK PVEGADVYVG GRIGSDSHIG
551 EIYKKGVRVT ELVPLVAEIL IK**EF**GA**VP**RE REENED

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
54 - 62	1096.5306	1095.5233	1095.5964	-67	1	K.DGFFILKEK.F
124 - 128	632.1762	631.1689	631.3078	-220	0	K.HQYGK.F
129 - 132	616.1673	615.1600	615.2509	-148	0	K.FMMR.L 2 Oxidation (M)
154 - 166	1471.6892	1470.6819	1470.6409	28	1	R.KYGEDGCADVTTTR.Q
167 - 172	844.3762	843.3689	843.4351	-78	0	R.QNWQIR.G
314 - 320	821.4000	820.3928	820.4443	-63	0	K.AVLEAYR.D
353 - 360	960.4351	959.4278	959.4858	-60	1	R.MPNGKLER.G Oxidation (M)
370 - 373	618.1882	617.1809	617.2921	-180	0	K.QWER.R
399 - 409	1292.6038	1291.5965	1291.5714	19	0	R.LQADDMDELAR.L Oxidation (M)
410 - 420	1181.5678	1180.5605	1180.5724	-10	0	R.LADTYGSGELR.L
437 - 447	1288.7068	1287.6995	1287.7074	-6	0	K.TEALLQEPFLK.N
450 - 459	1164.5655	1163.5582	1163.5896	-27	0	R.FSPEPSILMK.G Oxidation (M)
481 - 490	1173.6210	1172.6137	1172.6401	-22	1	R.ALKVTEEVER.L
484 - 490	861.3721	860.3649	860.4239	-69	0	K.VTEEVER.L
491 - 499	1036.5015	1035.4942	1035.6553	-156	0	R.LVSVPRPIR.M
573 - 579	775.3327	774.3254	774.4024	-99	0	K.EFGAVPR.E

Spot No.: **55**

Mascot score: **143** Sequence coverage %: **34**

NCBI accession No.: **gi| 23397093**

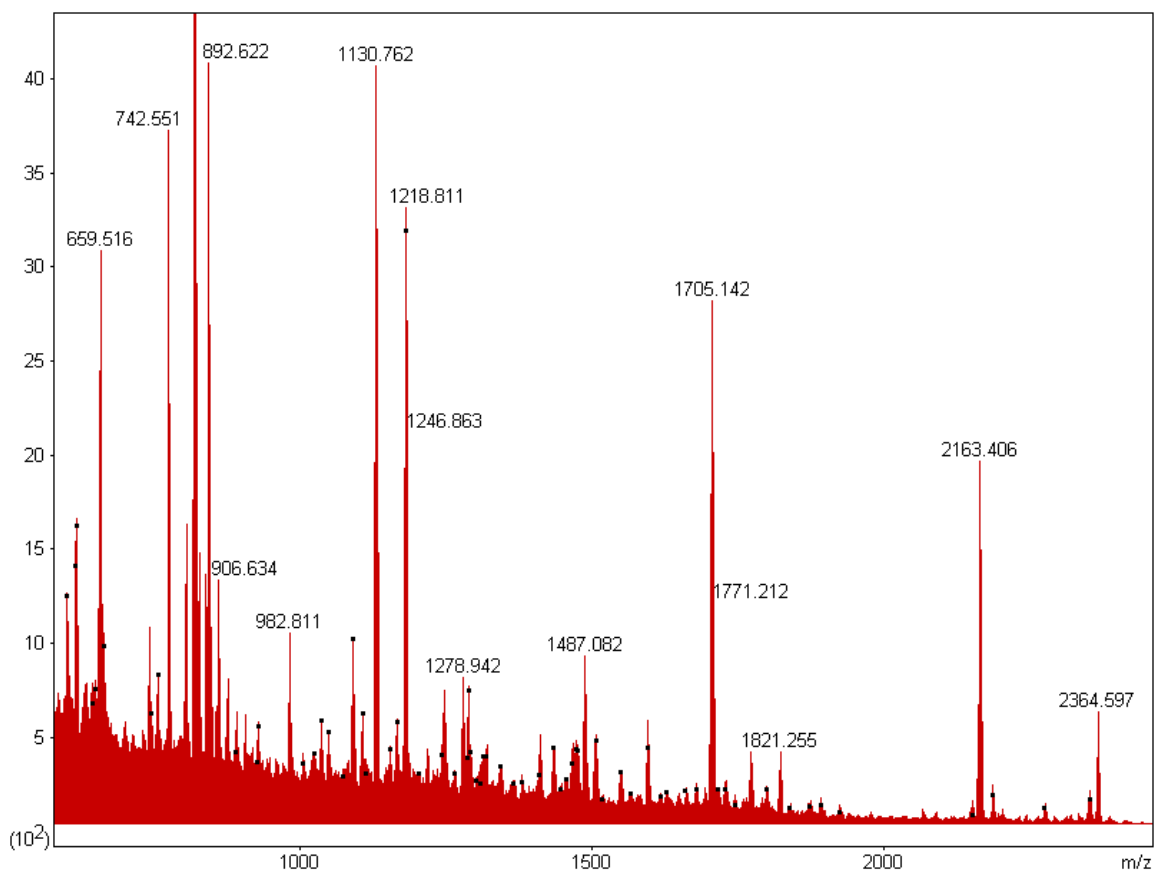
Matched peptides No.: **22**

Total peptides No.: **87**

Calculated Mr: **65878**

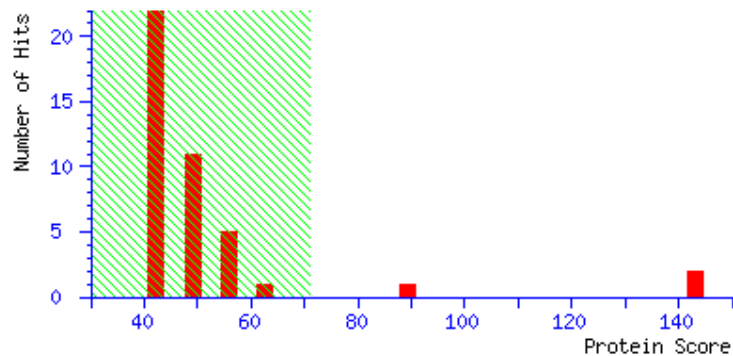
Calculated pI: **5.85**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MTSFSLTFTS PLLSSSTKP KRSVLVAAAQ TTAPAESTAS VDADRLEPRV
51 ELK**DGFFILK EKFRKGINPQ** EKVKIEREPM KLFMENGIEE LAKKSMEELD
101 SEKSSKDDID VRLKWLGLFH RRK**HQYGKFM MRLKLPNGVT** TSAQTRYLAS
151 VIR**KYGEDGC ADVTTRQNWQ** IRGVVLPDVP EILKGLASVG LTSLSQSGMDN
201 VRNPVGNPIA GIDPEEIVDT RPYTNLLSQF ITANSQGNPD FTNLPRKWNV
251 CVVGTHTDLYE HPHINDLAYM PANKDGRFGF NLLVGGFFSP KRCEEAIPLD
301 AWVPADDVLP LCK**AVLEAYR** DLGTRGNRQK TRMMWLIDEL GVEGFRTEVE
351 KR**MPNGKLER** GSSEDLVNK**Q WER**RDYFGVN POKQEGLSFV GLHVPVGR**LQ**
401 **ADDMDDELARL ADTYGSGELR** LTVEQNIIP NVETSK**TEAL LQEPFLKNRF**
451 **SPEPSILMKG** LVACTGSQFC GQAIETKLR **ALKVTEEVER** **LVSVPRPIRM**
501 HWTGCPNTCG QVQVADIGFM GCLTRGEEGK PVEGADVYVG GRIGSDSHIG
551 EIYKKGVRVT ELVPLVAEIL **KEFGAVPRE** REENED

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
54 - 62	1096.5306	1095.5233	1095.5964	-67	1 K.DGFFILKEK.F
124 - 128	632.1762	631.1689	631.3078	-220	0 K.HQYGK.F
129 - 132	616.1673	615.1600	615.2509	-148	0 K.FMMR.L 2 Oxidation (M)
154 - 166	1471.6892	1470.6819	1470.6409	28	1 R.KYGEDGCADVTTR.Q
167 - 172	844.3762	843.3689	843.4351	-78	0 R.QNWQIR.G
314 - 320	821.4000	820.3928	820.4443	-63	0 K.AVLEAYR.D
353 - 360	960.4351	959.4278	959.4858	-60	1 R.MPNGKLER.G Oxidation (M)
370 - 373	618.1882	617.1809	617.2921	-180	0 K.QWER.R
399 - 409	1292.6038	1291.5965	1291.5714	19	0 R.LQADDMDDELAR.L Oxidation (M)
410 - 420	1181.5678	1180.5605	1180.5724	-10	0 R.LADTYGSGELR.L
437 - 447	1288.7068	1287.6995	1287.7074	-6	0 K.TEALLQEPFLK.N
450 - 459	1164.5655	1163.5582	1163.5896	-27	0 R.FSPEPSILMK.G Oxidation (M)
481 - 490	1173.6210	1172.6137	1172.6401	-22	1 R.ALKVTEEVER.L
484 - 490	861.3721	860.3649	860.4239	-69	0 K.VTEEVER.L
491 - 499	1036.5015	1035.4942	1035.6553	-156	0 R.LVSVPRPIR.M
573 - 579	775.3327	774.3254	774.4024	-99	0 K.EFGAVPR.E

Spot No.: **56**

Mascot score: **98** Sequence coverage %: **21**

NCBI accession No.: **gi| 5817375**

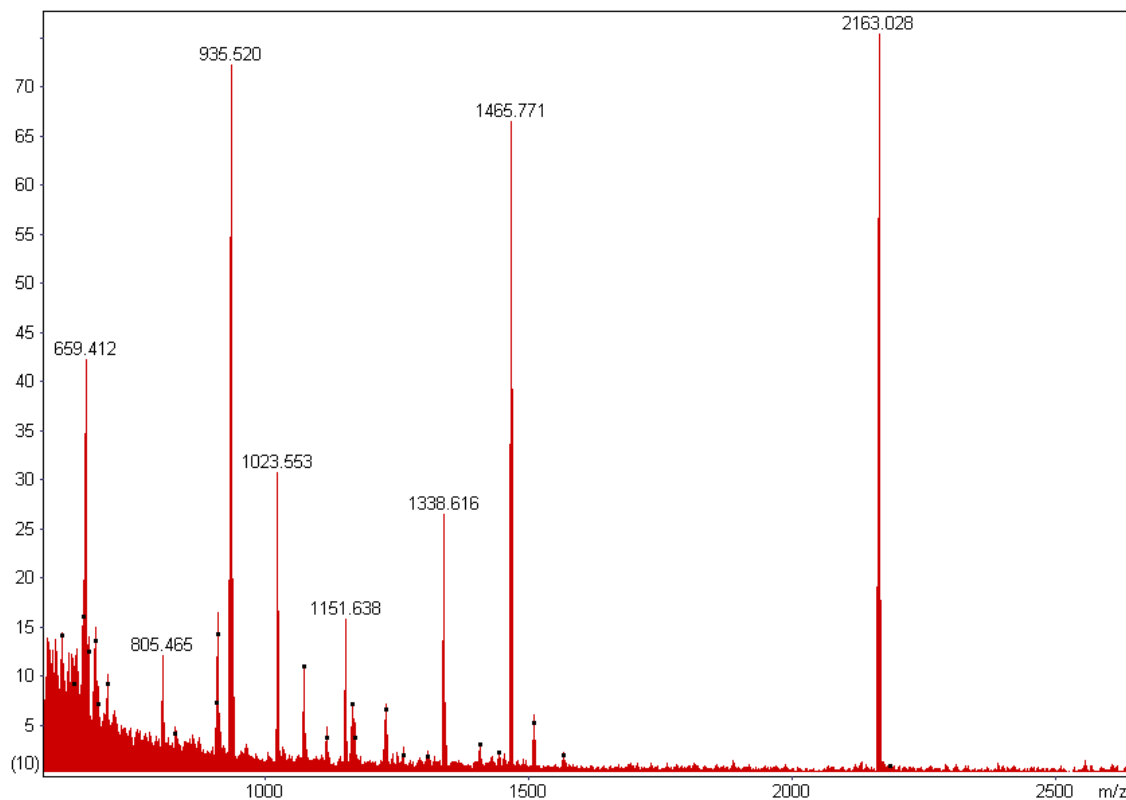
Matched peptides No.: **9**

Total peptides No.: **20**

Calculated Mr: **49130**

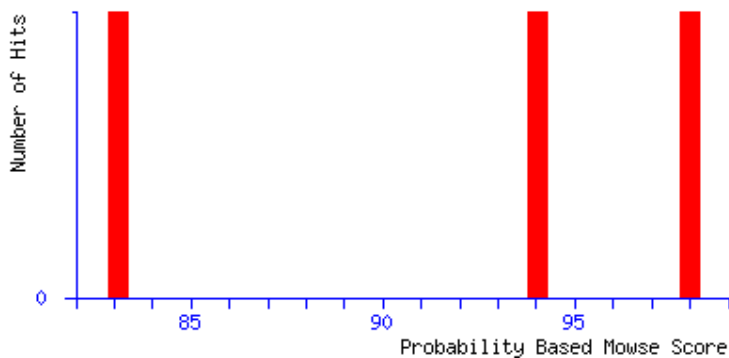
Calculated pI: **6.74**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 VGFKAGVKNY KLTYYTPEYE TKDTDILAAF RVTPQPGVPP EEAGAAVA
51 SSTGTWTTVM TDGLTSLDRY KGRCYNIEPV PGEPDQYICY VAYPLDLFEE
101 GSVTNMFTSI VGNVFGFKAL RALRLEDLRI PPAYTK**TFQG PPHGIQVERD**
151 KLNKYGRPLL GCTIKPKLGL SAKNYGRAVY ECLRGGLDFT KDDENVNSQP
201 FMRWRDRFLF CAEAIYKAQA ETGEIKGHYL NATAGTCEEM MKRAIFAREL
251 GVPIVMHDYL TGGFTANTSL AHYCRDNGLL LHIHRAMHAV IDRQKNHGIH
301 FRVLAKALRM SGGDHIHSGT VVGKLEGERD ITLGFVDLLR DDFIKQDRSR
351 GIYFTQDWVS LPGVIPVAVS GIHVWHMPAL TEIFGDDSVL QFGGGTLGHP
401 WGNAPGAVAN RVALEACVQA RNEGRDLAAE GNVIIREACK

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 8	805.4645	804.4572	804.4858	-35	1	-.VGFKAGVK.N
12 - 22	1407.7148	1406.7075	1406.6605	33	0	K.LTYYTPEYETK.D
137 - 149	1465.7711	1464.7638	1464.7474	11	0	K.TFQGGPPHGIQVER.D
178 - 184	910.4837	909.4764	909.4378	42	0	R.AVYECLR.G
185 - 203	2186.0387	2185.0314	2184.9746	26	1	R.GGLDFTKDDENVNSQP FMR.W Oxidation (M)
330 - 340	1261.6879	1260.6806	1260.7078	-22	0	R.DITLGFVDLLR.D
341 - 345	637.3738	636.3665	636.3119	86	0	R.DDFIK.Q
412 - 421	1116.6649	1115.6576	1115.5757	73	0	R.VALEACVQAR.N
426 - 436	1170.6871	1169.6798	1169.6404	34	0	R.DLAAEGNVIIR.E

Spot No.: **57**

Mascot score: **112** Sequence coverage %: **43**

NCBI accession No.: **gi| 13431553**

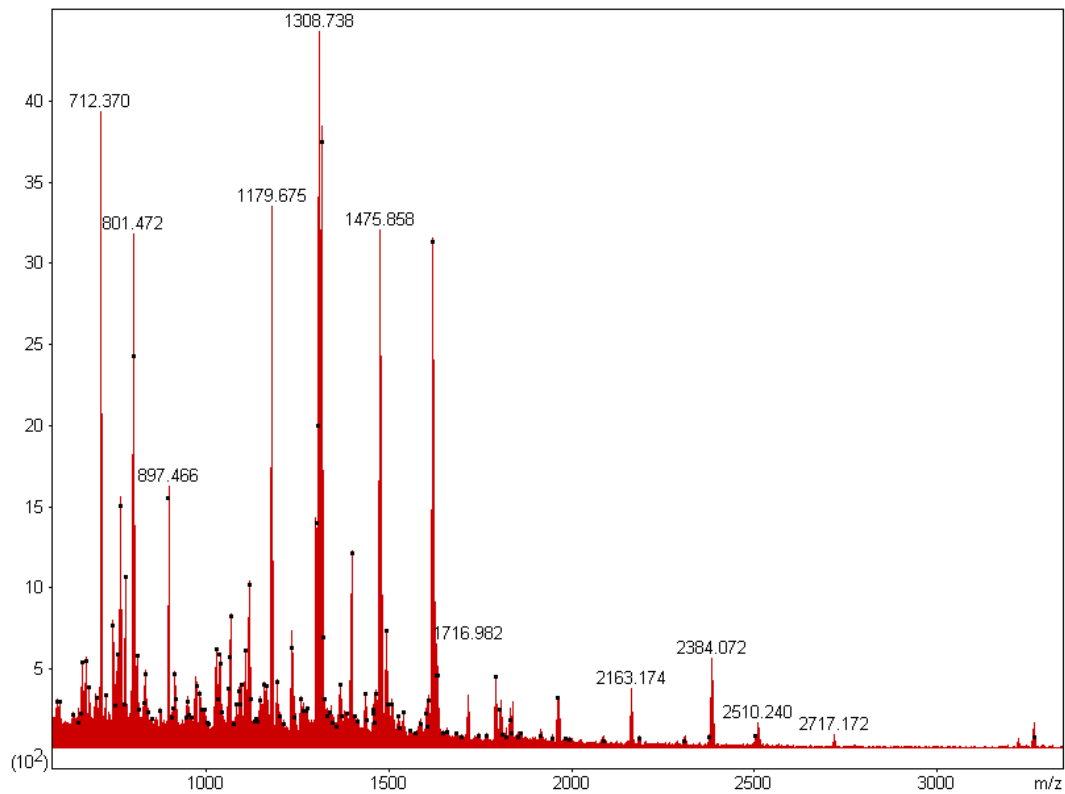
Matched peptides No.: **19**

Total peptides No.: **114**

Calculated Mr: **44111**

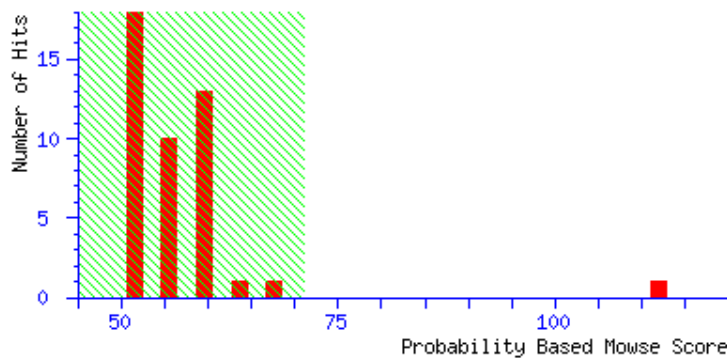
Calculated pI: **6.24**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Red**

1 MASHSSTLLS SPTFAPFSSH RLHYPNPST LRF**SRPIR**NK PNLALRCSVS
 51 IEK**EV**PETER **PFTFLR**SDD **VTPSSSSSV** **RARFETMIRA** **AQDSV**CAIE
 101 **AIEGGPK**FKE **DVWSRPGGGG** **GISRVLQDN** **VFEK**AGVNVSVVYGVMPPEA
 151 YRAAKGSASD QKGPVPPFFA AGVSSVLHPK NPFAPTLHFN YRYFETDAPK
 201 DVPGAPRQWW FGGGTDFTPA YIFEEDV**KHF** **HSIQKQACDK** **FDPSFYPR**FK
 251 **KWCDDYFYIK** **HRDER**RGLGG IFFDDLNDYD QEMLLSFATE CANSVVPAYI
 301 PIVEKR**KDME** **FTEQHKAWQQ** **LRRGRYVEFN** **LVYDR**GTTFG LKTGGRIESI
 351 **LVS**LPLSARW EYDHKPEEGT EE**WKLLDACI** **NPKE**WI

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
33 - 38	775.4127	774.4054	774.4500	-58	0 R.FSRPIR.N
54 - 66	1620.9589	1619.9516	1619.8308	75	0 K.EVPETERPFTFLR.D
67 - 81	1525.8362	1524.8289	1524.6540	115	0 R.DSDDVTPSSSSSVR.A
82 - 89	1039.5751	1038.5678	1038.5280	38	1 R.RARFETMIR.A Oxidation (M)
84 - 89	812.4280	811.4207	811.3898	38	0 R.FETMIR.A Oxidation (M)
90 - 107	1830.9694	1829.9621	1829.8465	63	0 R.AAQDSVCAIEAIEGGPK.F
108 - 124	1805.0124	1804.0051	1803.9016	57	1 K.FKEDVWSRPGGGGISR.V
125 - 134	1148.6390	1147.6317	1147.5873	39	0 R.VLQDGNVFEK.A
229 - 235	896.4969	895.4897	895.4664	26	0 K.HFSIQK.Q
236 - 248	1630.8638	1629.8565	1629.7246	81	1 K.QACDKFDPSFYPR.F
241 - 248	1028.5438	1027.5365	1027.4763	59	0 K.FDPSFYPR.F
252 - 262	1602.9262	1601.9189	1601.7085	131	1 K.WCDDYFYIKHR.D
261 - 265	712.3698	711.3625	711.3412	30	1 K.HRDER.R
307 - 316	1308.7381	1307.7308	1307.5816	114	1 R.KDMEFTEQHK.A Oxidation (M)
308 - 322	1962.9883	1961.9810	1961.9054	39	1 K.DMEFTEQHKAWQQLR.R Oxidation (M)
317 - 322	801.4715	800.4642	800.4293	44	0 K.AWQQLR.R
326 - 335	1317.7425	1316.7352	1316.6401	72	0 R.YVEFNLVYDR.G
347 - 359	1397.9308	1396.9235	1396.8289	68	0 R.IESILVSLPLSAR.W
375 - 383	1043.5719	1042.5646	1042.5481	16	0 K.LLDACINPK.E

Spot No.: **58**

Mascot score: **146** Sequence coverage %: **23**

NCBI accession No.: **gi| 15223226**

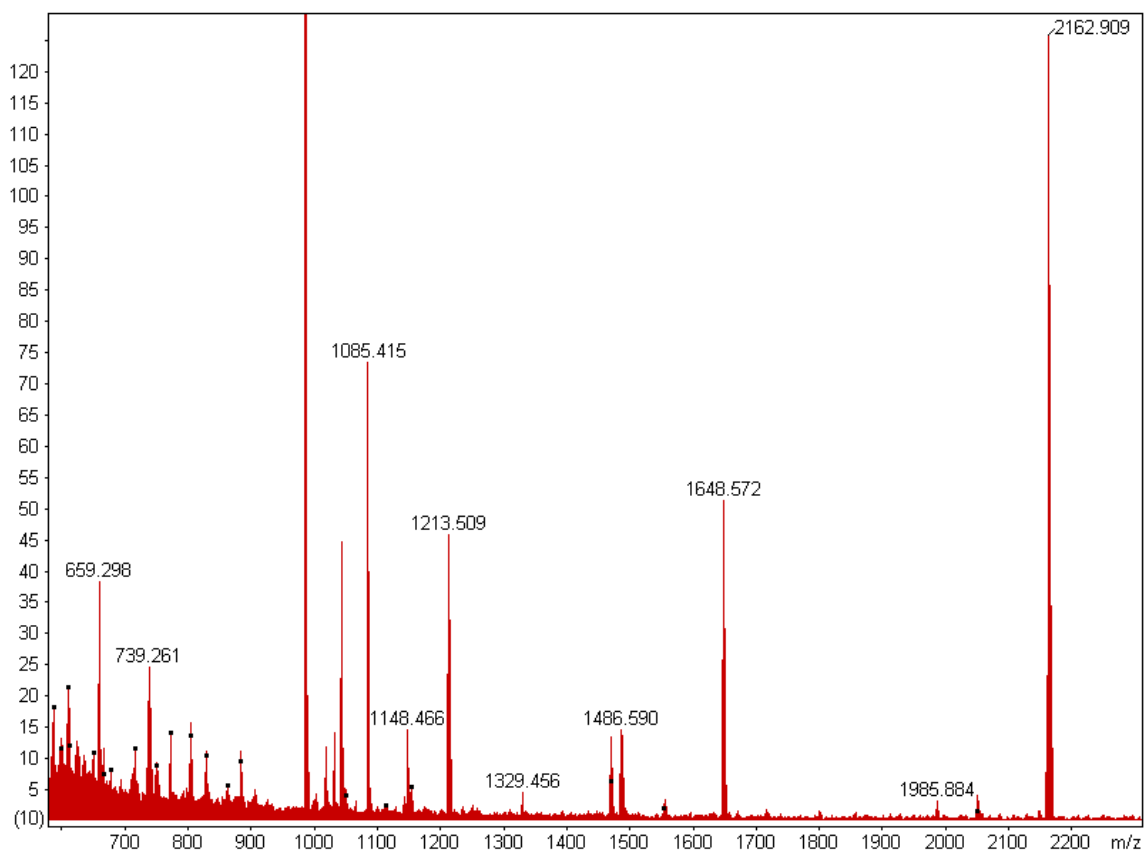
Matched peptides No.: **15**

Total peptides No.: **27**

Calculated Mr: **63670**

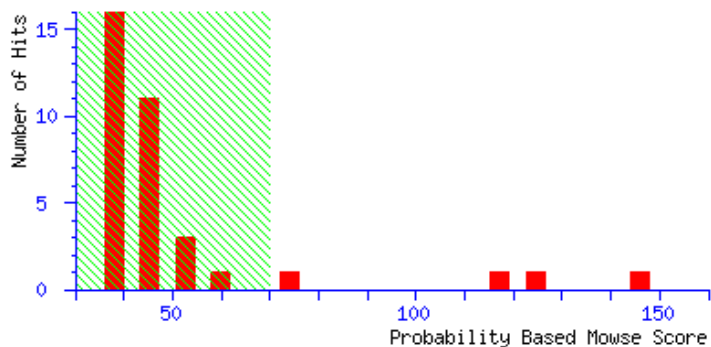
Calculated pI: **5.56**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.
Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MVSFKVSLVS TSPIDGQKPG TSGLRKKVKV FKQPNYLENF VQATFNALTT
51 EKVKGATLVV SGDGRYYSEQ AIQIIVKMAA ANGVRRVWVG QNSLLSTPAV
101 SAIIRERVGA DGSKATGAFI LTASHNPGGP TEDFGIKYNM ENGGPAPESI
151 TDKIYENTKT IKEYPIAEDL PRVDISTIGI TSFEGPEGKF DVEVFDSADD
201 YVKLMKSIFD FESIKKLLSY PKFTFCYDAL HGVAGAYAHR IFVEELGAPE
251 SLLNLCVPKE DFGGGHPDPN LTYAKELVAR MGLSKTDDAG GEPPEFGAAA
301 DGDADRNMIL GKRRFFVTPSD SVAIIAANAV GAIPYFSSGL KGVARSMPST
351 AALDVVAKNL GLKFFEVPPTG WKFFGNLMDA GMCSVCGEES FGTGSDHIRE
401 KDGIWAVLAW LSILAHKNKE TLDGNAKLVT VEDIVRQHWA TYGRHYYTRY
451 DYENVDATAA KELMGLLVKL QSSLPEVNKI IKGIHPEVAN VASADEFEYK
501 DPVDGSVSKH QGIRYLFEDG SRLVFRLSGT GSEGATIRLY IEQYEKDASK
551 IGRDSQDALG PLVDVALKLS KMQEFTGRSS PTVIT

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
55 - 65	1031.4202	1030.4129	1030.5407	-124	0	K.GATLVVSGDGR.Y
78 - 85	805.3199	804.3127	804.3912	-98	0	K.MAAANGVR.R Oxidation (M)
190 - 203	1648.5717	1647.5644	1647.7305	-101	0	K.FDVEVFDSADDYVK.L
207 - 216	1213.5092	1212.5019	1212.6390	-113	1	K.SIFDFESIKK.L
400 - 417	2049.7377	2048.7304	2049.1411	-200	1	R.EKDGIWAVLAWLSILAHK.N
428 - 436	1043.4989	1042.4916	1042.6023	-106	0	K.LVTVEDIVR.Q
437 - 444	1018.3739	1017.3666	1017.4781	-110	0	R.QHWATYGR.H
445 - 449	739.2609	738.2536	738.3449	-124	0	R.HYYTR.Y
470 - 479	1114.4232	1113.4159	1113.6030	-168	0	K.LQSSLPEVNK.I
510 - 514	610.2531	609.2458	609.3347	-146	0	K.HQGIR.Y
515 - 522	986.3524	985.3452	985.4505	-107	0	R.YLFEDGSR.L
527 - 538	1148.4660	1147.4587	1147.5833	-109	0	R.LSGTGSEGATIR.L
539 - 546	1085.4151	1084.4078	1084.5440	-126	0	R.LYIEQYEK.D
539 - 550	1486.5899	1485.5826	1485.7351	-103	1	R.LYIEQYEKDASK.I
572 - 578	884.2879	883.2806	883.3858	-119	0	K.MQEFTGR.S Oxidation (M)

Spot No.: **59**

Mascot score: **124** Sequence coverage %: **31**

NCBI accession No.: **gi| 15223226**

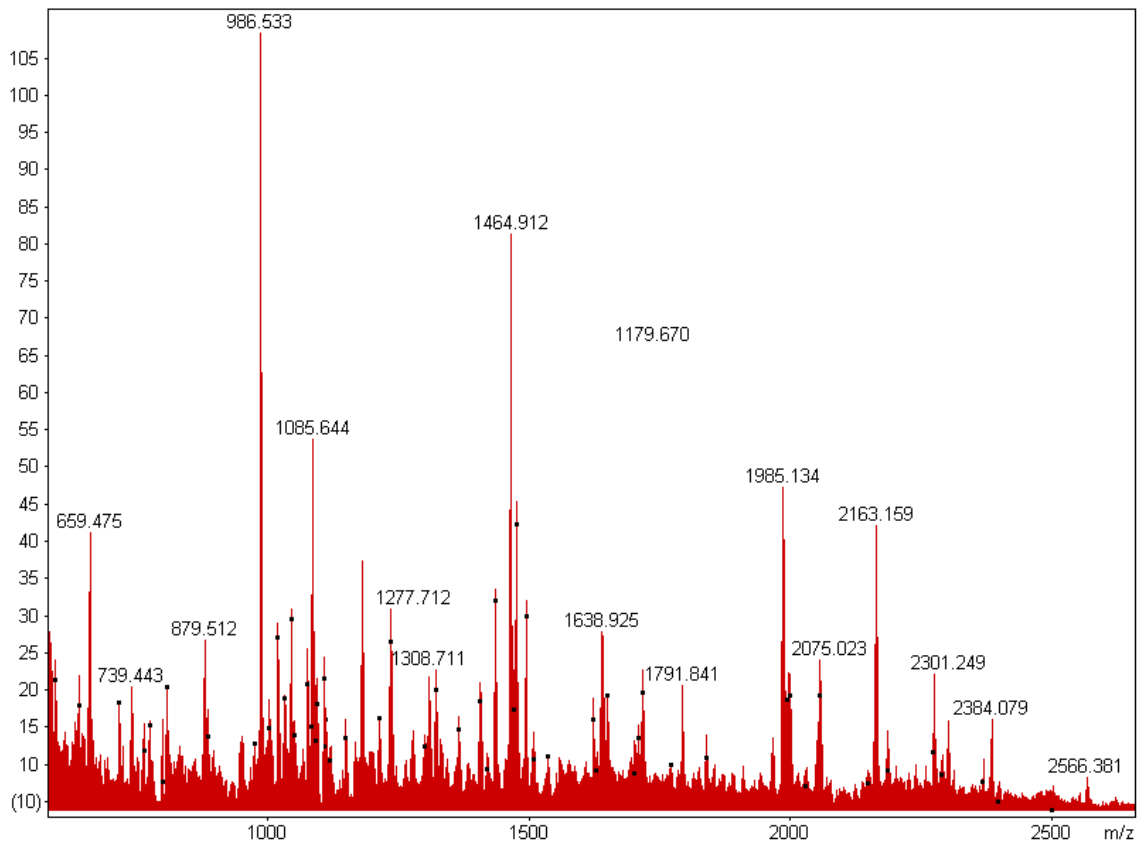
Matched peptides No.: **16**

Total peptides No.: **52**

Calculated Mr: **63670**

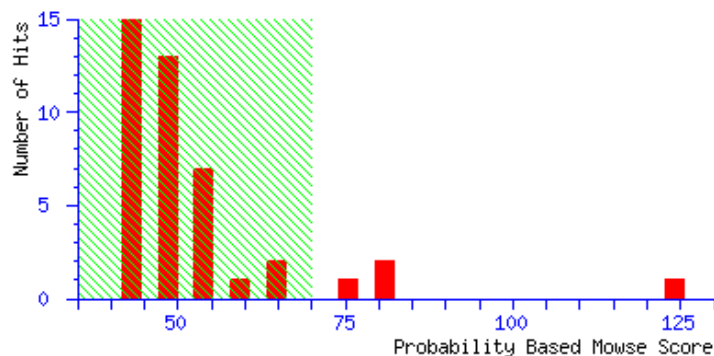
Calculated pI: **5.56**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MVSFKVSLVS TSPIDGQKPG TSLRKKVKV FKQPNYLENF VQATFNALTT
51 EKVKGATLVV SGDGRYYSEQ AIQIIVKMAA ANGVRRVWVG QNSLLSTPAV
101 SAIIRERVGA DGSKATGAFI LTASHNPGGP TEDFGIKYNM ENGGPAPESI
151 TDKIYENTKT IKEYPIAEDL PRVDISTIGI TSFEGPEGKF DVEVFDSADD
201 YVKLMKSIFD FESIKKLLSY PKFTFCYDAL HGVAGAYAHR IFVEELGAPE
251 SLLNCVPKE DFGGGHPDPN LTYAKELVAR MGLSKTDDAG GEPPEFGAAA
301 DGDADRNMIL GKRFFVTPSD SVAIIAANAV GAIPYFSSGL KGVARSMPST
351 AALDVVAKNL GLKFFEVPTG WKFFGNLMDA GMCSVCGEES FGTGSDHIRE
401 KDWIWAFLAW LSILAHKNKE TLDGNAKLVT VEDIVRQHWA TYGRHYTRY
451 DYENVDATAA KELMGLLVKL QSSLPEVNKI IKGIHPEVAN VASADEFEYK
501 DPVDGVSVKH QGIRYLFEDG SRLVFRLSGT GSEGATIRLY IEQYEKDASK
551 IGRDSQDALG PLVDVALKLS KMQEFTGRSS PTVIT

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
55 - 65	1031.6030	1030.5957	1030.5407	53	0 K.GATLVVSGDGR.Y
78 - 85	805.5024	804.4951	804.3912	129	0 K.MAAANGVR.R Oxidation (M)
115 - 137	2301.2487	2300.2414	2300.1437	42	0 K.ATGAFILTASHNPGGPTEDFGIK.Y
190 - 203	1648.8205	1647.8132	1647.7305	50	0 K.FDVEVFDSADDYVK.L
207 - 215	1085.6438	1084.6365	1084.5441	85	0 K.SIFDFESIK.K
207 - 216	1213.6912	1212.6839	1212.6390	37	1 K.SIFDFESIKK.L
223 - 240	2056.0269	2055.0196	2054.9421	38	0 K.FTFCYDALHGVAGAYAHR.I
281 - 306	2566.3811	2565.3738	2565.0925	110	1 R.MGLSKTDDAGGEPPEFGAAADGDADR.N Oxidation (M)
364 - 372	1110.6272	1109.6199	1109.5546	59	0 K.FFEVPTGWK.F
428 - 436	1043.6788	1042.6715	1042.6023	66	0 K.LVTVEDIVR.Q
437 - 444	1018.5670	1017.5597	1017.4781	80	0 R.QHWATYGR.H
445 - 449	739.4432	738.4359	738.3449	123	0 R.HYYTR.Y
462 - 479	1998.1084	1997.1011	1997.1231	-11	1 K.ELMGLLVKLQSSLPEVNK.I
515 - 522	986.5326	985.5254	985.4505	76	0 R.YLFEDGSR.L
527 - 538	1148.6588	1147.6515	1147.5833	59	0 R.LSGTGSEGATIR.L
572 - 578	884.4948	883.4876	883.3858	115	0 K.MQEFTGR.S Oxidation (M)

Spot No.: **60**

Mascot score: **93** Sequence coverage %: **24**

NCBI accession No.: **gi| 22328910**

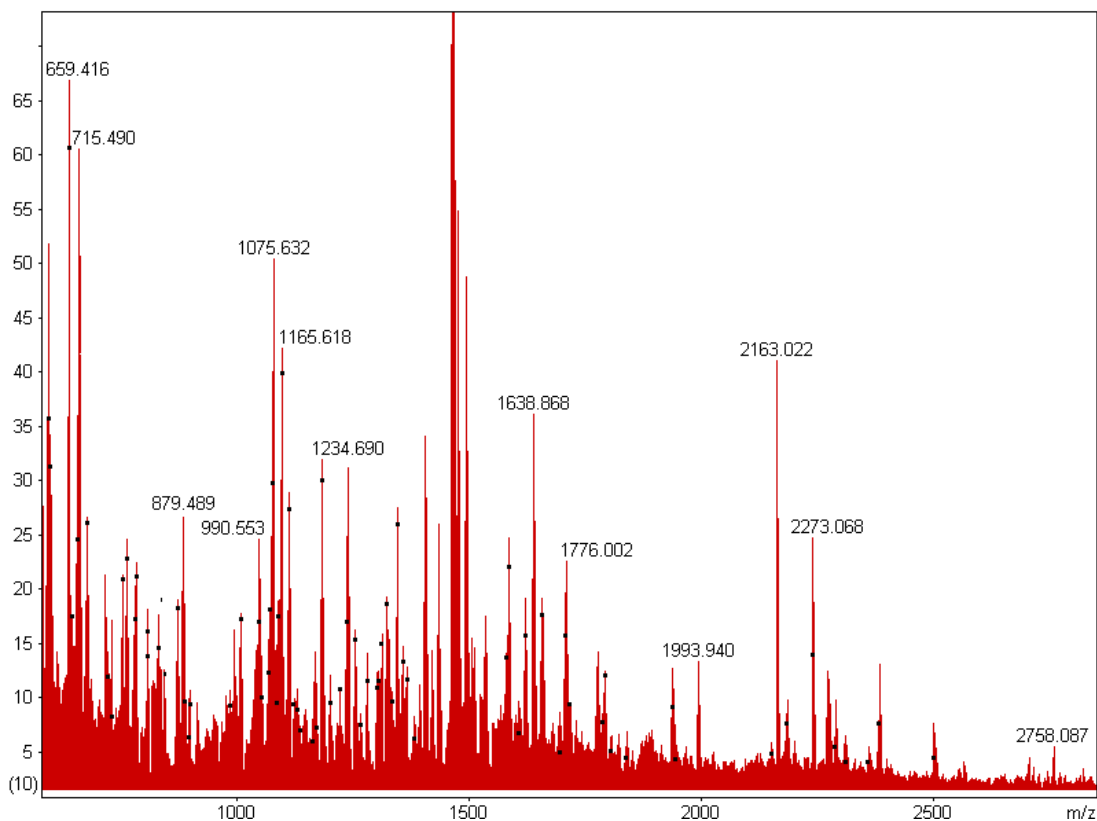
Matched peptides No.: **14**

Total peptides No.: **57**

Calculated Mr: **54154**

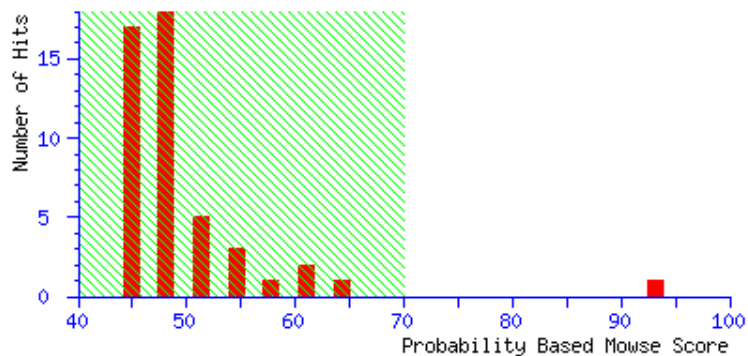
Calculated pI: **6.25**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAEISATSFP SSSSSALVIR **SSHNGSLK**CQ NVAVPKTTSQ FOELSLK**RSQ**
51 **LVGN**AVVT**GH** **VTGSR**SCKNQ AIRAVLSGDG TALTTDSKEA GLRGK**LKKV**V
101 LAYSGGLDTS VIVPWLKENY GCEVVCFTAD VGQGIKELEG LEQKAKASGA
151 SQLVVKDLTE EFVKDFIFPC LR**AGAIYERK** **YLLGTSMARP** **VI**AKAMVDVA
201 AEVGADAVAH GCTGKGNDQV **RFELTFFSLN** **PEL**KVVAPWR EWEIQ**GREDA**
251 **IEYAKKHNP** **VPVTKSIYS** RDRNLWHL**SH** EGD**LLED**PAN EPKKDMY**MMS**
301 VDPEDAPDQP EYIEIGIESG LPVALNGKAL SPATLLAELN TIGGKHGIGR
351 IDMVENRLVG MKSRGVYETP GGTILFAAVQ ELES**LTLDRE** **SIQV**KD**TLAL**
401 **KYAEMVYAGR** WFDPLRESMD AFMEKITETT TGSVTLKLYK **GSVSVTGR**QS
451 **PNSLYR**QDIS SFEGSEIYNQ ADAAGFIRLY GLPMKIRAML KKIS

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
21 - 28	829.3871	828.3798	828.4090	-35	0	R.SSHNGSLK.C
48 - 65	1837.9523	1836.9450	1836.9919	-25	1	K.RSQLVGNNAVVTGHVTGSR.S
173 - 179	779.4507	778.4434	778.3973	59	0	R.AGAIYER.K
181 - 194	1535.8073	1534.8000	1534.8541	-35	0	K.YLLGTSMARPVI A .A Oxidation (M)
222 - 234	1584.7888	1583.7815	1583.8235	-27	0	R.FELTFFSLN PEL .V
248 - 256	1066.6319	1065.6246	1065.5342	85	1	R.ED ATEYAKK .H
257 - 265	990.5527	989.5455	989.5658	-21	0	K.HN V PPV TK .K
257 - 266	1118.5826	1117.5753	1117.6608	-76	1	K.HN V PPV TKK .S
266 - 271	753.4338	752.4265	752.4181	11	1	K.KSIY S .D
390 - 401	1344.7283	1343.7210	1343.7660	-33	1	R.ESI QV KD TLALK .Y
396 - 410	1716.8687	1715.8614	1715.8552	4	1	K.D TLALKYAEMVYAGR .W Oxidation (M)
402 - 410	1075.6324	1074.6251	1074.4804	135	0	K.Y AEMVYAGR .W Oxidation (M)
441 - 448	762.4502	761.4430	761.4032	52	0	K.G SVSVTGR .Q
441 - 456	1707.7906	1706.7833	1706.8700	-51	1	K.G SVSVTGRQSPNSLYR .Q

Spot No.: **61**

Mascot score: **112** Sequence coverage %: **24**

NCBI accession No.: **gi| 15242093**

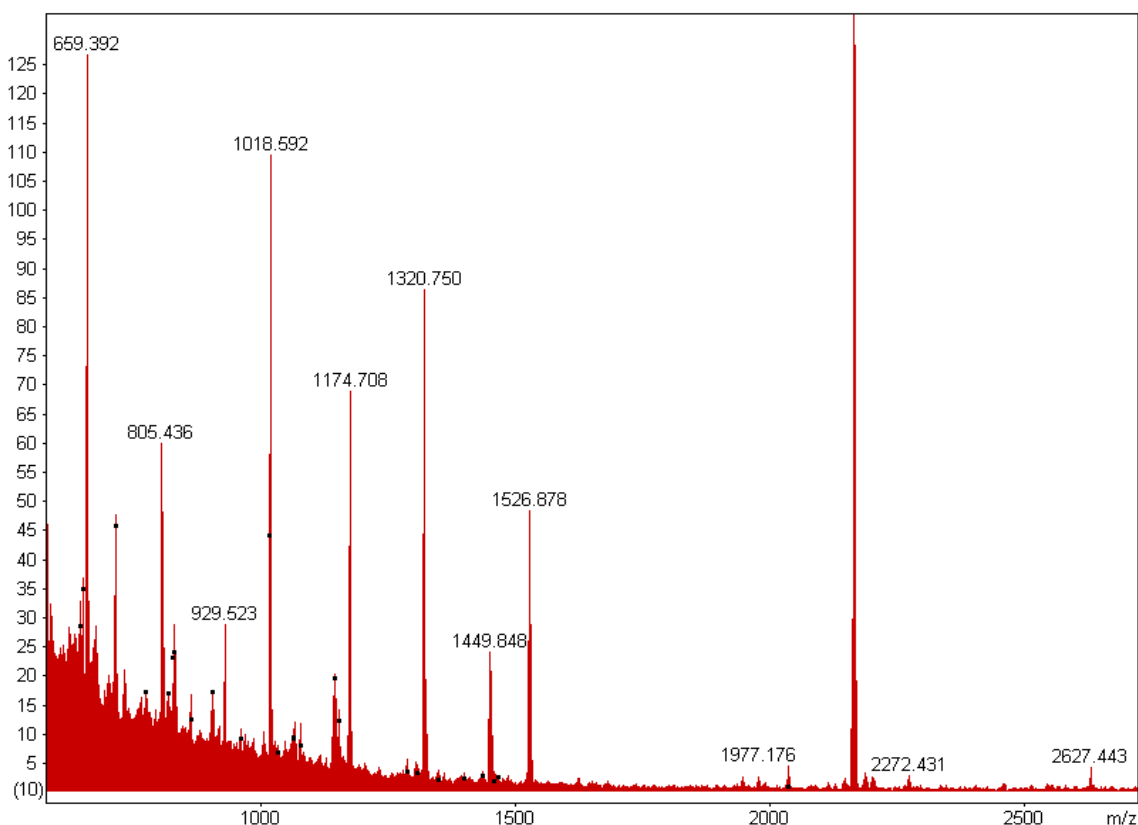
Matched peptides No.: **13**

Total peptides No.: **31**

Calculated Mr: **57763**

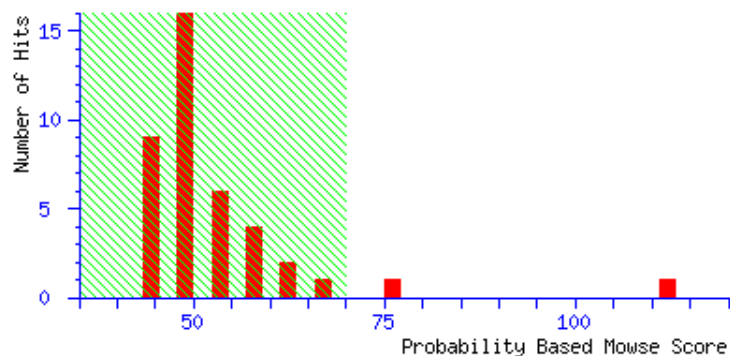
Calculated pI: **5.59**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MPIDKIFKDD ASEEKGERAR MASFVGAMAI SDLVKSTLGP KGMDK**ILQST**
 51 **GRGHAVTVTN** DGATILK**SLH** **IDNPAAKVLV** DISK**VQDDEV** **GDGTTSVVVL**
 101 **AGELLREAEK** LVASKI**HPMT** **IIAGYRMASE** CARN**ALLKRV** IDNKD**NAEKF**
 151 RSDLLKI**AMT** TLC**SKILSQD** KEHFAEMAVD AVFRLKGSTN LEAIQ**IIKKP**
 201 GGSLK**DSFLD** **EGFILDKKIG** IGQPKRIENA NILVANTAMD TDKVKI**YGAR**
 251 VRVDSMTKVA EIEGA**EKEKM** KDKVKKI**IGH** GINCFVNRQL IYN**FPEELFA**
 301 DAGILAI**EHA** DFEGIER**LGL** **VTGGEI**ASTF**** **DN**PESV**KLGH** CK**LIEEIMIG**
 351 **EDKLIHFSGC** EMGQACSIVL **RGASHHVLDE** **AERSLHDALC** VLSQ**TVMNDR**
 401 VLLGGG**WP**EM VMAKEVDELA RKTAG**KKSHA** **IEAFSRALVA** IPTTIAD**NAG**
 451 LDSAELVAQL RAEH**HTEGCN** AGIDVITGAV GDMEER**GIYE** **AFKVKQAVLL**
 501 SATEASEMIL RVDEIITCAP RRRED**RM**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
46 - 52	774.4096	773.4023	773.4395	-48	0	K.I LQSTGR .G
68 - 77	1065.5784	1064.5711	1064.5614	9	0	K.SLHID NPAAK .V
85 - 106	2272.4307	2271.4234	2271.1595	116	0	K.VQDDEVGDGTT SVVVL AGELLR.E
116 - 126	1287.8006	1286.7933	1286.6805	88	0	K.I HPMT IIAGYR.M Oxidation (M)
134 - 139	714.4092	713.4020	713.4548	-74	1	R.N ALLKR .V
206 - 217	1398.7478	1397.7405	1397.6715	49	0	K.D SFLDEGF ILDK.K
206 - 218	1526.8776	1525.8703	1525.7664	68	1	K.D SFLDEGF ILDKK.I
318 - 337	2034.2125	2033.2052	2033.0317	85	0	R.LGLV TGGEIASTF DN PESV K.L
343 - 353	1305.7513	1304.7440	1304.6533	70	0	K.LIEE DMIGEDK .L Oxidation (M)
372 - 383	1320.7496	1319.7423	1319.6218	91	0	R.GASHH VLDEAER .S
427 - 436	1145.6951	1144.6878	1144.5989	78	1	K.K SHAIEAFSR .A
428 - 436	1017.5753	1016.5680	1016.5039	63	0	K.S HAI EAFSR.A
487 - 493	827.4165	826.4092	826.4225	-16	0	R.GI YEAFK .V

Spot No.: **62**

Mascot score: **145** Sequence coverage %: **31**

NCBI accession No.: **gi| 18391066**

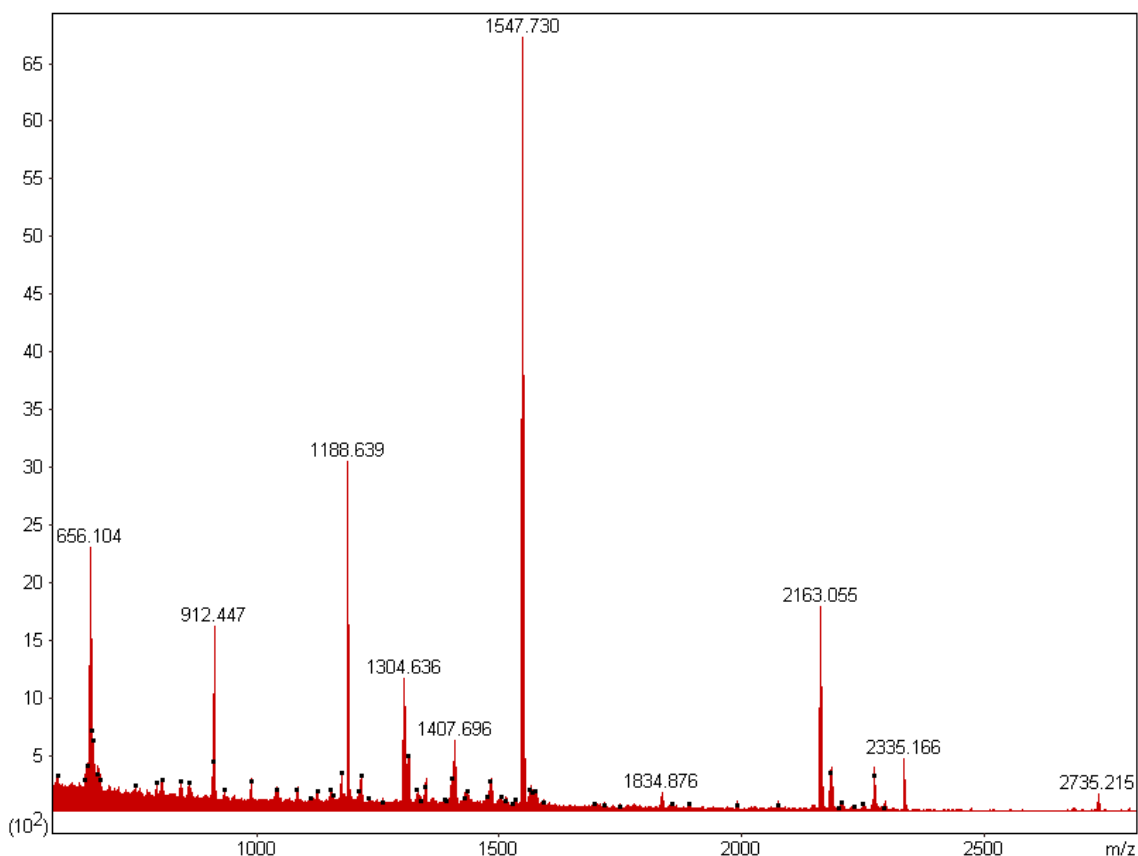
Matched peptides No.: **18**

Total peptides No.: **47**

Calculated Mr: **60770**

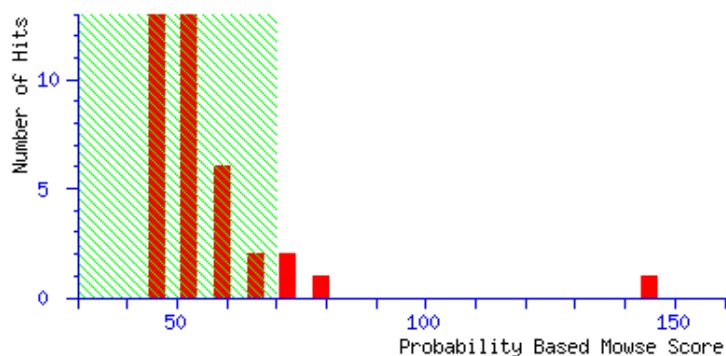
Calculated pI: **5.32**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MATSSAWKLD DHPKLPKGKT IAVIVLDGWG ESAPDQYNCI HNAPTPAMDS
51 LKHGAPDWT LIKA**HGTA**V**G LPSEDDMGNS** **EVGH**NAL**GAG RIFAQ**GAKLC
101 DQALASGKIF EGE**GFKYVSE** SFETNTLHLV GLLSDGGVHS **RLDQLQLLIK**
151 GSAERGAKRI **RVHIL**T**DGRD** VLDGSSVGFV ETLEADLVAL RENGVD**AQIA**
201 SGGGR**MYVT**L **DRY**END**WEV**V **KRGW**DA**QVLG** **EAP**HKFKNAV EAVKTLRKEP
251 GANDQYLPPF VIVDES**GKAV** GPIVDG**DAVV** TFNFRADRMV MHAK**ALEY**ED
301 FDKFDRVRY**P KIRY**AG**MLQY** **DGEL**KLPSRY **LVS**PEIDRT SGEY**LTH**NGV
351 STFACSE**TVK** FGHV**TFFW**NG NRS**GYF**NEKL **EEY**VEIPSDS **GIS**FN**VQPK**M
401 KALEIGE**KAR** **DAIL**SG**KFDQ** **VRV**NIPNGDM VGHTGDIEAT VVACE**AA**D**LA**
451 VKMIFDAIEQ **VKGI**Y**VVTAD** **HGNA**ED**MV**KR DKSGK**PAL**DK EGKLQIL**TSH**
501 TLKPVPIAIG **GPGL**AQ**G**VRF **RKD**LETP**GLA** NVAATVMNLH **GFV**APSD**YEP**
551 TLIEVVE

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 8	750.3794	749.3721	749.3708	2	0	M.ATSSAWK.L
64 - 91	2735.2152	2734.2079	2734.2365	-10	0	K.AHGTA VGLPSEDDMGNS EVGH NALGAG .I Oxidation (M)
142 - 150	1083.6350	1082.6277	1082.6699	-39	0	R.LDQLQLLIK.G
162 - 169	910.4892	909.4820	909.5032	-23	0	R.VHILTDGR.D
206 - 221	2075.9609	2074.9536	2074.9670	-6	1	R.MYVTLDRYENDWEVVK.R Oxidation (M)
213 - 222	1337.6451	1336.6378	1336.6411	-2	1	R.YENDWEVVKR.G
222 - 235	1563.7875	1562.7802	1562.7954	-10	1	K.RGWDAQVLGEAPHK.F
223 - 235	1407.6957	1406.6884	1406.6943	-4	0	R.GWDAQVLGEAPHK.F
295 - 306	1547.7303	1546.7230	1546.6940	19	1	K.ALEYEDFKFDR.V
314 - 325	1387.6445	1386.6372	1386.6489	-8	0	R.YAGMLQYDGELK.L
314 - 325	1403.6412	1402.6339	1402.6438	-7	0	R.YAGMLQYDGELK.L Oxidation (M)
330 - 339	1188.6391	1187.6318	1187.6186	11	0	R.YLVSPEIDR.T
373 - 379	844.3492	843.3420	843.3763	-41	0	R.SGYFNEK.L
380 - 399	2251.0688	2250.0615	2250.1056	-20	0	K.LEEYVEIPSDSGISFN VQPK .M
411 - 422	1348.7089	1347.7016	1347.7147	-10	1	R.DAILSGK FDQVR .V
418 - 422	664.3384	663.3312	663.3340	-4	0	K.FDQVR.V
463 - 479	1834.8760	1833.8687	1833.8567	7	0	K.GIYVVTAD HGNAEDMVK .R Oxidation (M)
463 - 480	1990.9394	1989.9321	1989.9578	-13	1	K.GIYVVTAD HGNAEDMVK .D Oxidation (M)

Spot No.: **63**

Mascot score: **87** Sequence coverage %: **49**

NCBI accession No.: **gi| 30690323**

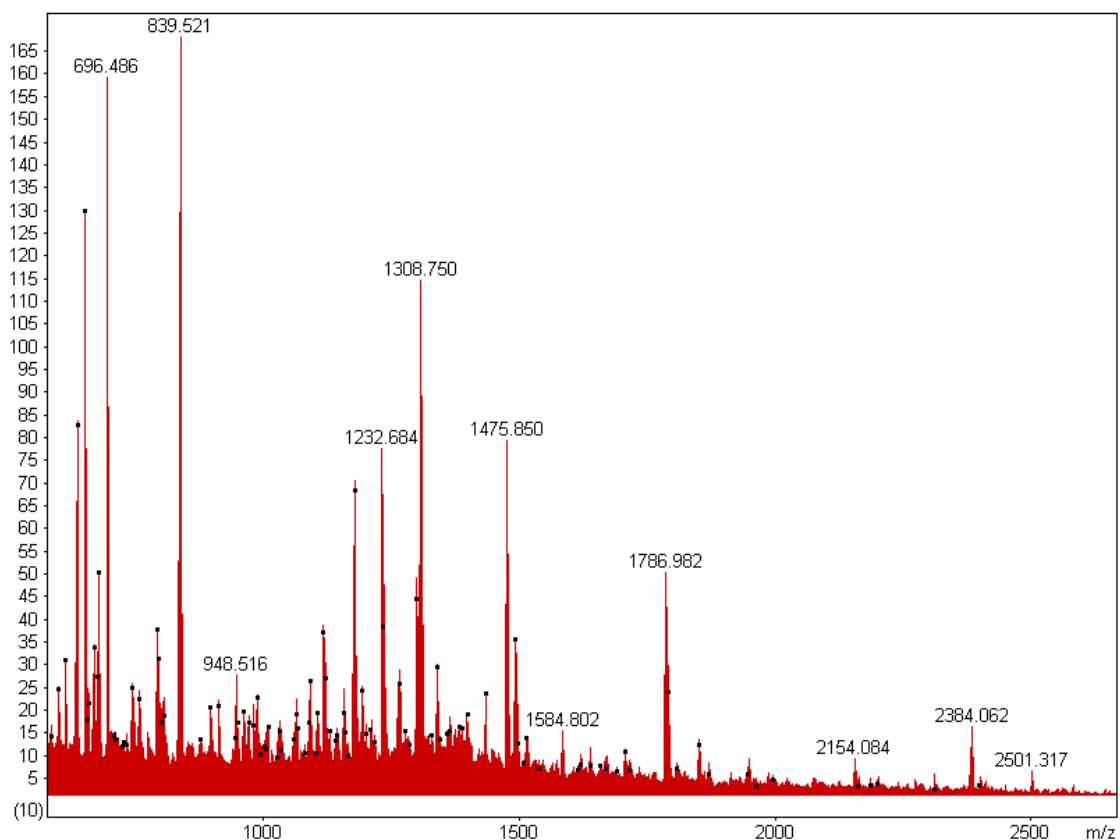
Matched peptides No.: **19**

Total peptides No.: **169**

Calculated Mr: **39646**

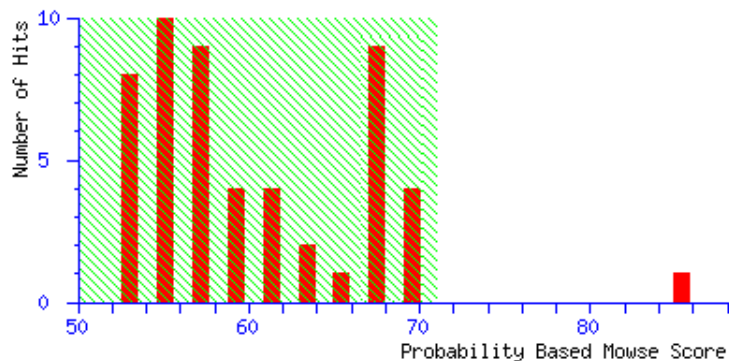
Calculated pI: **9.44**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVEEAQLDPK **SKSIPNENLK** FGERALSAGG AAFISAVIVN PLDVVVKTRL**Q**
51 **AQAAGVPYQG** **SCR**LGCFTN **STLVHDLRSN** **SAPGMC**RITG SASVCSDNQY
101 KGTLDVIFYKI **IRQEGFSRLW** RGTNASLTLA IPTVGIYMPG YDYFRNIMEE
151 **FTTEKSPSLT** **VYVPLVAGTI** **ARSLACISCY** **PVELARTRMQ** **AFKGTQRNVK**
201 LPGVWKTLDV VVNPVK**GSNN** **GYRMLWTGLG** **AQLARDVPFS** **AICWSILEPT**
251 **RRSIQSAMGE** EPRAGSIIGA NFAAGFVAGA VAAAATCPLD VAKTRR**QIEK**
301 **NTDRAMTMTT** **RQTLAEIWRD** **GGMRGMFSGA** **GARVGR**AGPS VAIIVVSFYEV
351 VKYGLHNFHQ **Q**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
13 - 20	914.5674	913.5601	913.4869	80	0	K.SIPNENLK.F
49 - 63	1605.8422	1604.8349	1604.7729	39	0	R.LQAQAAGVPYQGSCL.L
79 - 87	995.5140	994.5068	994.3960	111	0	R.SNSAPGMCRI.I Oxidation (M)
110 - 118	1105.6110	1104.6037	1104.6040	-0	1	K.IIRQEGFSR.L
146 - 155	1241.6179	1240.6106	1240.5645	37	0	R.NIMEEFTTEK.S
156 - 172	1743.8455	1742.8382	1742.9931	-89	0	K.SPSLTVYVPLVAGTIAR.S
173 - 186	1638.9328	1637.9255	1637.7905	82	0	R.SLACISCYPVELAR.T
187 - 193	897.4624	896.4551	896.4538	1	1	R.TRMQAFK.G Oxidation (M)
189 - 197	1082.6132	1081.6059	1081.5339	67	1	R.MQAFKGTQR.N Oxidation (M)
194 - 200	802.4749	801.4676	801.4457	27	1	K.GTQRNVK.L
217 - 223	767.4085	766.4012	766.3358	85	0	K.GSNNGYR.M
224 - 235	1316.6343	1315.6270	1315.7071	-61	0	R.MLWTGLGAQLAR.D
236 - 251	1891.0119	1890.0046	1889.9346	37	0	R.DVPFSAICWSILEPTR.R
297 - 304	1003.5488	1002.5415	1002.5094	32	1	R.QIEKNTDR.A
301 - 311	1329.6886	1328.6813	1328.5813	75	1	K.NDRAMTMTTR.Q 2 Oxidation (M)
312 - 319	1016.5601	1015.5528	1015.5451	8	0	R.QTLAEIWR.D
320 - 333	1369.6993	1368.6920	1368.6027	65	1	R.DGMRGMFSGAGAR.V
325 - 336	1165.6081	1164.6008	1164.5822	16	1	R.GMFSGAGARVGR.A
353 - 361	1143.5871	1142.5798	1142.5257	47	0	K.YGLHNFHQ.-

Spot No.: **64**

Mascot score: **108** Sequence coverage %: **32**

NCBI accession No.: **gi| 15228194**

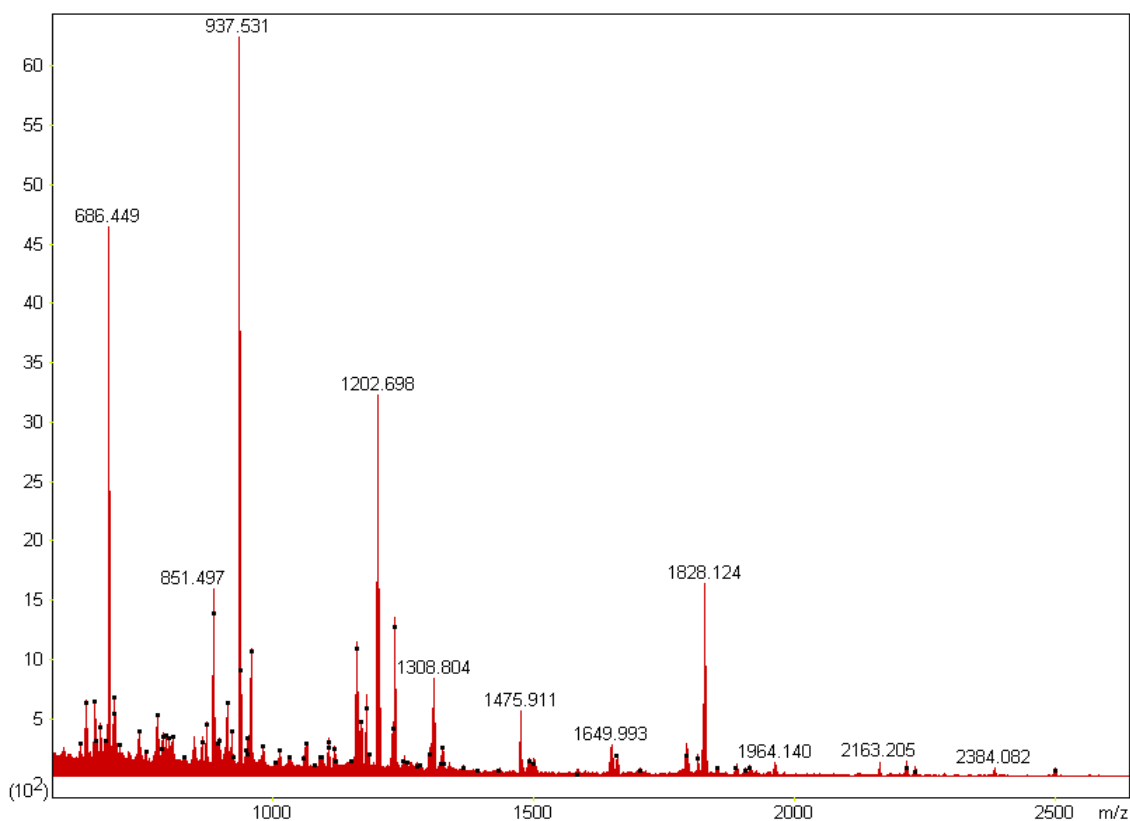
Matched peptides No.: **16**

Total peptides No.: **87**

Calculated Mr: **42787**

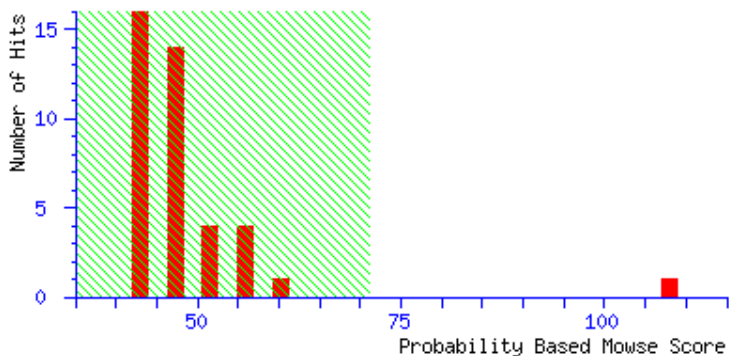
Calculated pI: **6.17**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 METSIACYSR GILPPSVSSQ RSSTLVSPPS YSTSSSFKRL KSSSIFGDSL
51 RLAPKSQLKA TKAKSNGAST VTKCEIGQSL EEFLAQATPD KGLRTLMMCM
101 GEALRTIAFK VRTASCGGTA CVNSFGDEQL AVDMLADKLL FEALQYSHVC
151 KYACSEEVPE LQDMGGPVEG GFSVAFDPLD GSSIVDTNFT VGTIFGVWPG
201 **DKLTGITGGD QVAAAMGIYG PRTTYVLAVK GFPGTHEFL LDEGKWHVK**
251 **ETTEIAEGKM FSPGNLRATF DNSEYSKLID YYVKEYTLR YTGGMVDPVN**
301 **QIIVKEKGI F TSVTSPATA KLRLLEFVAP LGLLIENAGG FSSDGHKSVL**
351 **DKTIINLDDR TQVAYGSKNE IIRFEETLYG TSRLKNVPIG VTA**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
203 - 222	1964.1404	1963.1331	1962.9833	76	0	K.LTGITGGDQVAAAMGIYGR.T	Oxidation (M)
223 - 230	894.5613	893.5540	893.5222	36	0	R.TTYVLAVK.G	
231 - 245	1659.9916	1658.9843	1658.8304	93	0	K.GFPGTHEFLLLDEGK.W	
246 - 250	697.4007	696.3934	696.3707	33	0	K.WQHVK.E	
260 - 267	921.5304	920.5231	920.4538	75	0	K.MFSPGNLR.A	
260 - 267	937.5308	936.5235	936.4487	80	0	K.MFSPGNLR.A	Oxidation (M)
268 - 277	1161.6052	1160.5979	1160.4986	86	0	R.ATFDNSEYSK.L	
278 - 284	913.5527	912.5455	912.4957	55	0	K.LIDYYVK.E	
278 - 286	1170.7138	1169.7065	1169.6332	63	1	K.LIDYYVKEK.Y	
285 - 290	809.4838	808.4766	808.4443	40	1	K.EKYTLR.Y	
291 - 305	1649.9934	1648.9861	1648.8495	83	0	R.YTGMVDPVNIIVK.E	Oxidation (M)
308 - 319	1235.7491	1234.7418	1234.6558	70	0	K.GIFTNVTSPATA.A	
308 - 321	1434.9022	1433.8949	1433.7878	75	1	K.GIFTNVTSPATAK.L	
353 - 360	959.5977	958.5905	958.5083	86	0	K.TIINLDDR.T	
353 - 368	1794.1065	1793.0992	1792.9319	93	1	K.TIINLDDRTQVAYGSK.N	
369 - 373	644.4071	643.3998	643.3653	54	0	K.NEIR.F	

Spot No.: **65**

Mascot score: **84** Sequence coverage %: **29**

NCBI accession No.: **gi| 15234171**

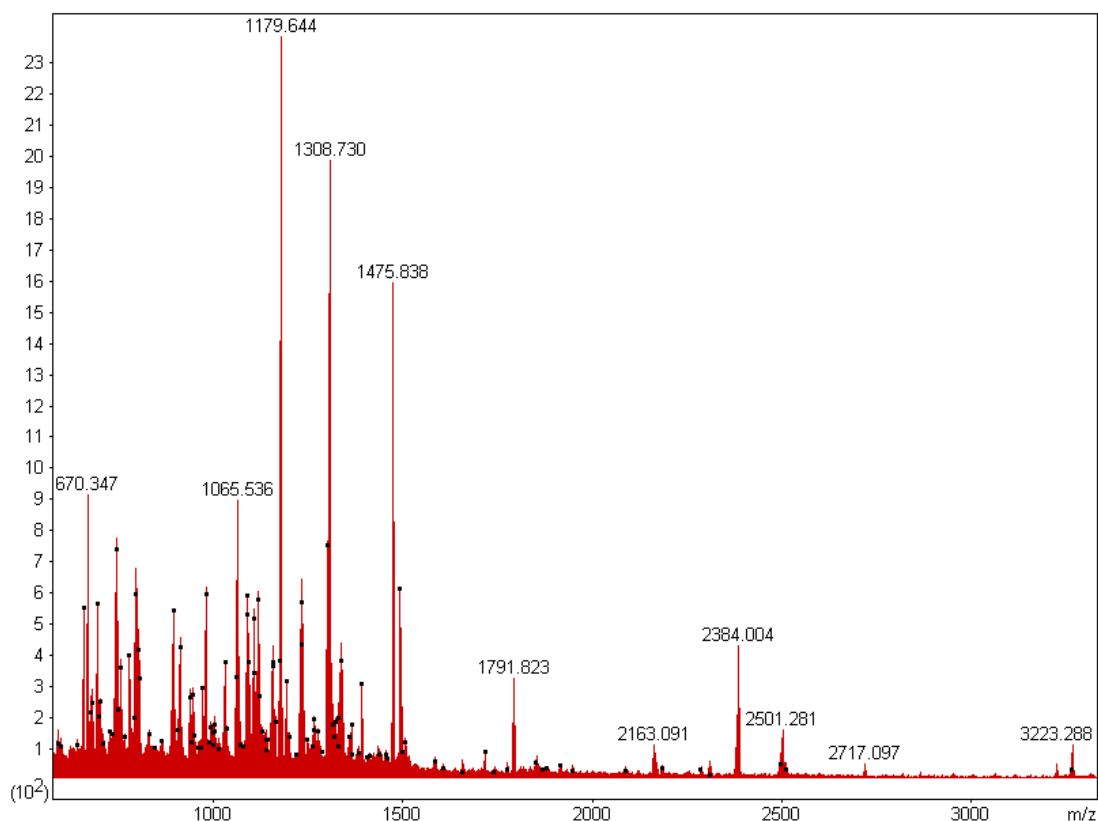
Matched peptides No.: **29**

Total peptides No.: **106**

Calculated Mr: **87227**

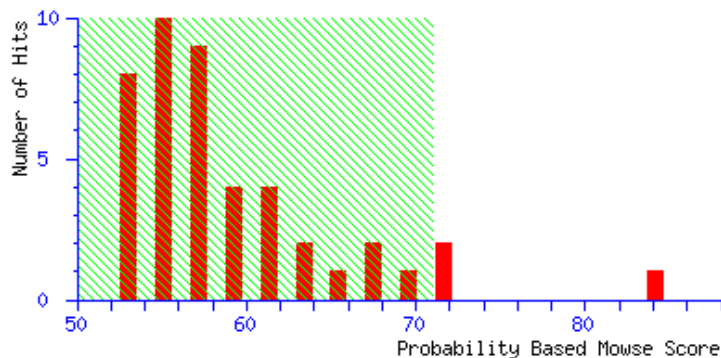
Calculated pI: **5.06**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MEDLKTDDAL SLPVVSNDGG IIEPELQLPQ AIPTELENNE EENGTIQQSQ
51 SEEDSAENGG IYDDTFLPS KSQVKETQDS PTPPSFVSPS AEIVLPRVNT
101 KYEAEGTTRN AVSPRPLYSP RSIGSPRALL SPRFAGSSSP LSNGTPIISM
151 SFRDSIDTAS PFESVKEAVS KFGGITDWKA HRMKVLERRN FVEQELDKIQ
201 EEIPEYKKKS EMVEMSKMLA VEELESTKRL IEELKLNLEK AETEEQQAKQ
251 DSELAKLRVQ EMEQGIADDA SVASKAQLEV AQARHTSAIS ELESVKEELQ
301 TLQNEYDALV KEKDLAVKEA EEAVIASKEV ERKVEELTIE LIATKESLEC
351 AHSSHLEAEE HRIGAAMLRD QETHRWEKEL KQAEELQRL KQHLVSTKEL
401 QVKLEFASAL LLDLKELAD HKESSKVKEE TSETVVTNIE ISLQEKTTDI
451 QKAVASAKKE LEEVNAVVEK ATSEVNCLKV ASSSLRLEID KEKSALDSLK
501 QREGMASVTV ASLEAEIDIT RCEIALVKSK EKETREEMVE LPKQLQQASQ
551 EADEAKSFAE LAREELRKSQ EEAEQAKAGA STMESRFAA QKEIEAIKAS
601 ERLALAAIKA LQSESSSKE NAVDSPRTVT LTIEEYYELS KRAHEAEEAA
651 NARVAAAVSE VGEAKETEK SLEKLEEVNK EMVERKATLA GAMEKAEKAK
701 EGKLGVEQEL RKWREVSEKK RKNSSSHGKS IQGSKEKEAE TSVSNETETN
751 PIPQVNPVKK KKKLFFRFFM FLMKKKSHK

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
61 - 71	1329.7001	1328.6928	1328.6322	46	0	K.IYDDTFLPSK.S
98 - 109	1368.6938	1367.6865	1367.6681	13	1	R.VNTKYEAE GTRN .M
172 - 182	1287.6776	1286.6703	1286.6520	14	1	K.FGGITDWKA HR .M
189 - 198	1277.6978	1276.6905	1276.6411	39	1	R.RNFVEQELDK.I
190 - 198	1121.5666	1120.5593	1120.5400	17	0	R.RNFVEQELDK.I
218 - 228	1249.6508	1248.6435	1248.6271	13	0	K.MLAVEELESTK.R
218 - 228	1265.6499	1264.6426	1264.6220	16	0	K.MLAVEELESTK.R Oxidation (M)
241 - 249	1033.5272	1032.5199	1032.4723	46	0	K.AETEEQQAK.Q
259 - 275	1791.8231	1790.8158	1790.8356	-11	0	R.VEMEQGIADDA SVASK .A
285 - 296	1300.6140	1299.6067	1299.6670	-46	0	R.HTSAISELESVK.E
312 - 318	802.4502	801.4429	801.4596	-21	1	K.EKDLAVK.E
334 - 345	1358.7618	1357.7545	1357.7704	-12	0	K.VEELTIELIATK.E
363 - 375	1497.8309	1496.8236	1496.7518	48	1	R.IGAAMLRD QETHR .W
404 - 415	1332.6919	1331.6846	1331.7700	-64	0	K.LEFASALLDLK.K
417 - 422	712.3650	711.3577	711.3551	4	0	K.ELADHK.E
447 - 458	1232.6332	1231.6259	1231.6772	-42	1	K.TTDIQKAVASAK.K
522 - 528	832.4753	831.4680	831.4524	19	0	R.CEIALVK.S
557 - 563	793.4058	792.3985	792.4130	-18	0	K.SFAELAR.E
557 - 567	1320.6810	1319.6737	1319.6833	-7	1	K.SFAELAREELR.K
593 - 602	1145.5637	1144.5564	1144.6087	-46	1	K.EIEAIKASER.L
599 - 609	1142.5800	1141.5727	1141.6819	-96	1	K.ASERLALAAIK.A
603 - 609	699.4271	698.4198	698.4690	-70	0	R.LALAAIK.A
610 - 619	1065.5361	1064.5288	1064.4986	28	0	K.ALQSESSSK.E
654 - 665	1130.5620	1129.5547	1129.5979	-38	0	R.VAAAVSEVGEAK.E
681 - 685	679.3751	678.3678	678.3007	99	0	K.EMVERK.A Oxidation (M)
681 - 686	807.3885	806.3812	806.3956	-18	1	K.EMVERK.A Oxidation (M)
768 - 774	963.4684	962.4612	962.4758	-15	0	R.FFMFLMK.K
768 - 774	995.5084	994.5011	994.4656	36	0	R.FFMFLMK.K 2 Oxidation (M)
768 - 775	1107.5590	1106.5517	1106.5657	-13	1	R.FFMFLMKK.K Oxidation (M)

Spot No.: **66**

Mascot score: **82** Sequence coverage %: **40**

NCBI accession No.: **gi| 6093122**

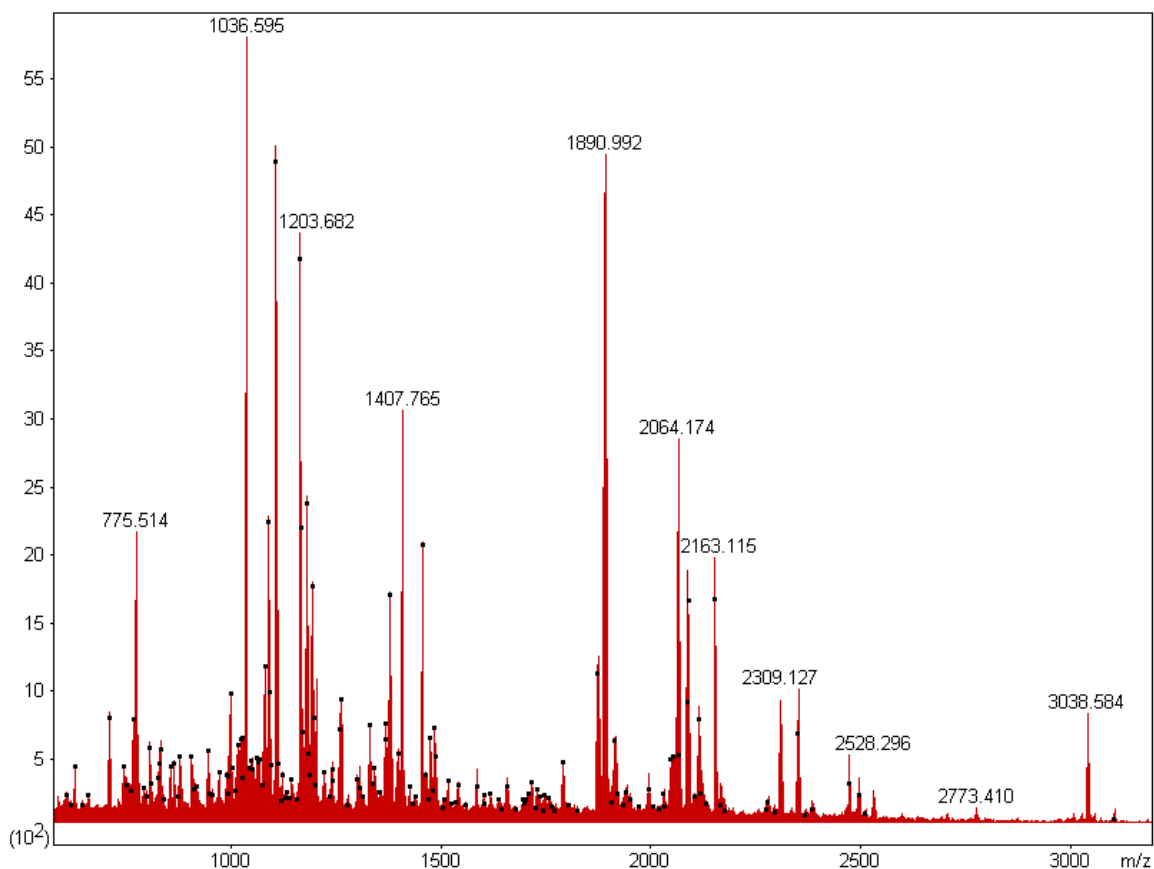
Matched peptides No.: **19**

Total peptides No.: **108**

Calculated Mr: **65243**

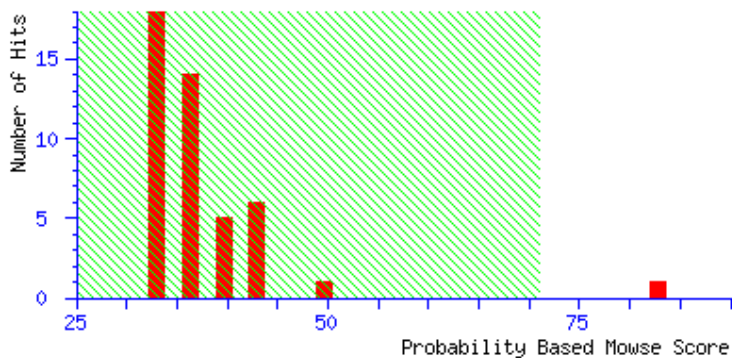
Calculated pI: **9.01**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MIGKVVVSVSVA SILLIVGVAI GVVAYINKNG DANLSPQMKA VRGICEATSD
51 KASCVKTLEP VKSDDPNKLI KAFMLATRDA ITQSSNFTGK TEENLGSGIS
101 PNNKAVLDYC KKVFMYALED LSTIVEEMGE DLNQIGSKID QLKQWLTGVY
151 NYQTDCLDDI EEDDLRKTIG EGIASSKILT SNAIDIFHTV VSAMAKLNLK
201 VEDFKNMTGG IFAPSDKGAA FVNKGTPPVA DDSPVADPDG PARRLLEDID
251 ETGIPTWVSG ADRKLMAKAG RGSNDGGARI RATFVVAKDG SGQFKTVQQA
301 VNACPEKNPG RCIIHIKAGI YREQVIIPKK KNNIFMFGDG ARKTVISYNR
351 SVKLSPGTTT SLSGTVQVES EGFMAKWIGF KNTAGPMGHQ AVAIRVNGDR
401 AVIFNCRFDG YQDTLYVNNG RQFYRNIIVVS GTVDFIFGKS ATVIQNSLIV
451 VRKGNKGQFN TVTADGNEKG LAMKIGIVLQ NCRIVPKKL AAERLIVESY
501 LGRPWKKFST TVIINSEIGD VIRPEGWKIW DGESFHKSCR YVEYNNRGPG
551 AITNRRVNWV KIARSAAEVN DFTVANWLGP INWIQEANVP VILGL

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
29 - 42	1516.7710	1515.7637	1515.7464	11	1	K.NGDANLSPQMKAVR.G Oxidation (M)
57 - 68	1342.7524	1341.7451	1341.6776	50	1	K.TLEPVKSDDPNK.L
63 - 71	1029.6295	1028.6222	1028.5502	70	1	K.SDDPNKLIK.A
69 - 78	1179.6601	1178.6528	1178.6845	-27	1	K.LIKAFMLATR.D Oxidation (M)
72 - 78	809.4990	808.4917	808.4265	81	0	K.AFMLATR.D
91 - 111	2309.1274	2308.1201	2308.1005	9	1	K.TEENLGSGISPNNKAVLDYCK.K
167 - 177	1090.5915	1089.5842	1089.6030	-17	1	R.KTIGEGIASCK.I
178 - 196	2047.0786	2046.0713	2046.0820	-5	0	K.ILTSNAIDIPHTVVSAMAK.L Oxidation (M)
206 - 224	1890.9918	1889.9845	1889.9305	29	1	K.NMTGGIFAPSDKGAAPVNK.G Oxidation (M)
218 - 243	2471.2484	2470.2411	2470.2088	13	1	K.GAAPVNKGTPPVADDSFVADPDGPAR.R
245 - 263	2087.0282	2086.0209	2086.0219	-0	0	R.LLEDIDETGIPTWVSGADR.K
265 - 271	746.4933	745.4861	745.4268	79	1	K.LMAKAGR.G
289 - 307	2064.1742	2063.1669	2062.9742	93	1	K.DSGSQFKTVQQAVNACPEK.N
332 - 342	1241.6377	1240.6304	1240.5659	52	0	K.NNIFMFGDGAR.K
332 - 343	1369.7272	1368.7199	1368.6608	43	1	K.NNIFMFGDGARK.T
377 - 395	2054.0916	2053.0843	2053.0680	8	1	K.WIGFKNTAGPMGHQAVAIR.V
440 - 452	1399.7358	1398.7285	1398.8195	-65	0	K.SATVIQNSLIVVR.K
495 - 503	1049.5827	1048.5754	1048.5917	-15	0	R.LIVESYLGR.P
508 - 523	1763.8590	1762.8517	1762.9465	-54	0	K.FSTTVIINSEIGDVIR.P

Spot No.: **67**

Mascot score: **81** Sequence coverage %: **13**

NCBI accession No.: **gi| 302608108**

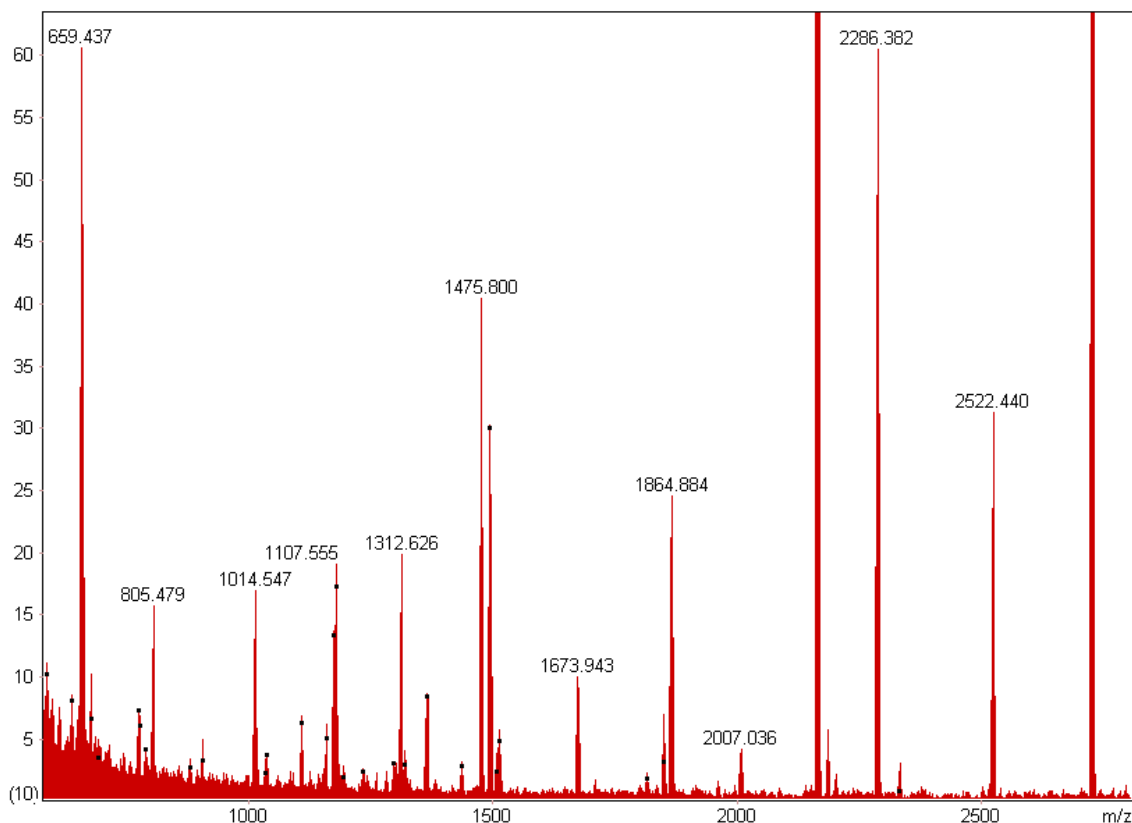
Matched peptides No.: **14**

Total peptides No.: **41**

Calculated Mr: **109709**

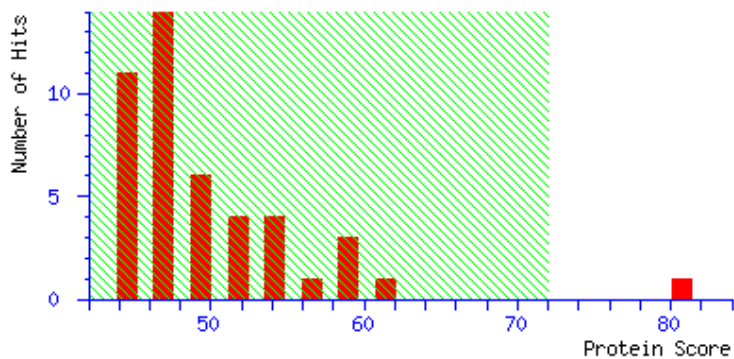
Calculated pI: **5.88**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASSERHHSI DAQVRNLAPG KVSEDDKLVE YDVLLMDRFL DILQDLHGPG
51 IREFVQDCYE LSAEYEGDRN AARLKELGSR LASLAPADAI LVAGSIQHML
101 NLANLAEVQ IAHRRRNKLK SGDFADEGSA TTESNIEETI KRLVDLGKSK
151 EEVFEALKNQ TVDLVLT AHP TQSVRRSLLQ KHARIRNCLT QLNAKDITDD
201 EKKEIDEDLH RAIQAAFRTD EIRRAQPTPQ DEMRYGMSYI HETIWKGVPK
251 FLRRVDTALK NIGIDERLPY NVPLIQFCSW MGGDRDGNPR VTPEVTRDVC
301 LLSRMMAANL YFSGLEDLMF ELSMWRCNDE LRARAQEIHS APKKAAKHYI
351 EFWKQIPLSE PYRVVLGNVR DKLYNTRERA RQLLTNEVSD IPEESVFSNV
401 QEFLEPLELC YKSLCESGDK TIADGSLLDF LRQVTAFGLS LVKLDIRQES
451 ERHTDVIDAI TTHIGIGSYR SWPEEKRQEW LLSSELRGKRP LLAPDMPQTE
501 EIADVLGCFR VLAELPRDSF GPYIISMATA PSDVLAVELL QRECHVKEPL
551 PVVPLFERLA DLQNAPEASME RLFSVDWYLE RINGKQQVMI GYSDSGKDAG
601 RLSAAWQLYR AQEELAQVAK RYSVKLTMFH GRGGTVGRGG GPSHLAILSQ
651 PPDTINGSIR VTVQGEVIEH SFGEEHLCFR TLERFTAATL EHGMPVSP
701 KPEWRKLMDE MAVVATEEYR SIVVREPRFV EYFRSATPET EYGKMNIGSR
751 PAKRKPQGGI TSLRAIPWIF SWTQTRFHLP VWLGVGAAFQ SAIKTDSKNI
801 QKLKEMYKEW PFFRVITDILL EMVFAKGDPS IAALYDELLV ADDLKPFGEQ
851 LRNKYLETQQ FLLQIAGHKE ILEADPFLKQ SLRLRNPYIT TLNVFQAYTL
901 KLMRDPNFQV KKQPPLSKEF SDEKKPAGLV ELNPASEYAP GLEDTLILTM
951 KGIAAGMQNT G

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
28 - 38	1365.6647	1364.6574	1364.7010	-32	0	K.LVEYDVL LMDR.F
149 - 158	1179.6158	1178.6085	1178.6183	-8	1	K.SKEEV FEAL.N
327 - 334	1033.5170	1032.5097	1032.4771	32	1	R. CNDELRAR.A
421 - 432	1320.6270	1319.6197	1319.7085	-67	0	K.TIADG SLLDFLR.Q
453 - 476	2725.5368	2724.5295	2724.3507	66	1	R. HTDVIDAITTHIGIGSYRSWPEEK.R
471 - 476	775.3743	774.3670	774.3548	16	0	R. SWPEEK.R
586 - 597	1312.6262	1311.6189	1311.6129	5	0	K. QQVMIGYSDSGK.D
602 - 610	1107.5548	1106.5475	1106.5873	-36	0	R. LSAAWQLYR.A
702 - 705	587.2878	586.2806	586.2863	-10	0	K. PEWR.K
745 - 750	677.3478	676.3405	676.3326	12	0	K. MNIGSR.P
745 - 750	693.3537	692.3464	692.3275	27	0	K. MNIGSR.P Oxidation (M)
809 - 814	881.4321	880.4248	880.4232	2	0	K. EWPFER.V
870 - 879	1174.6735	1173.6662	1173.6281	32	0	K.E I LEAD PFLK.Q
886 - 904	2286.3819	2285.3746	2285.2242	66	1	R. NPYITTLNVFQAYTLKLMR.D

Spot No.: **68**

Mascot score: **236** Sequence coverage %: **33**

NCBI accession No.: **gi| 7525018**

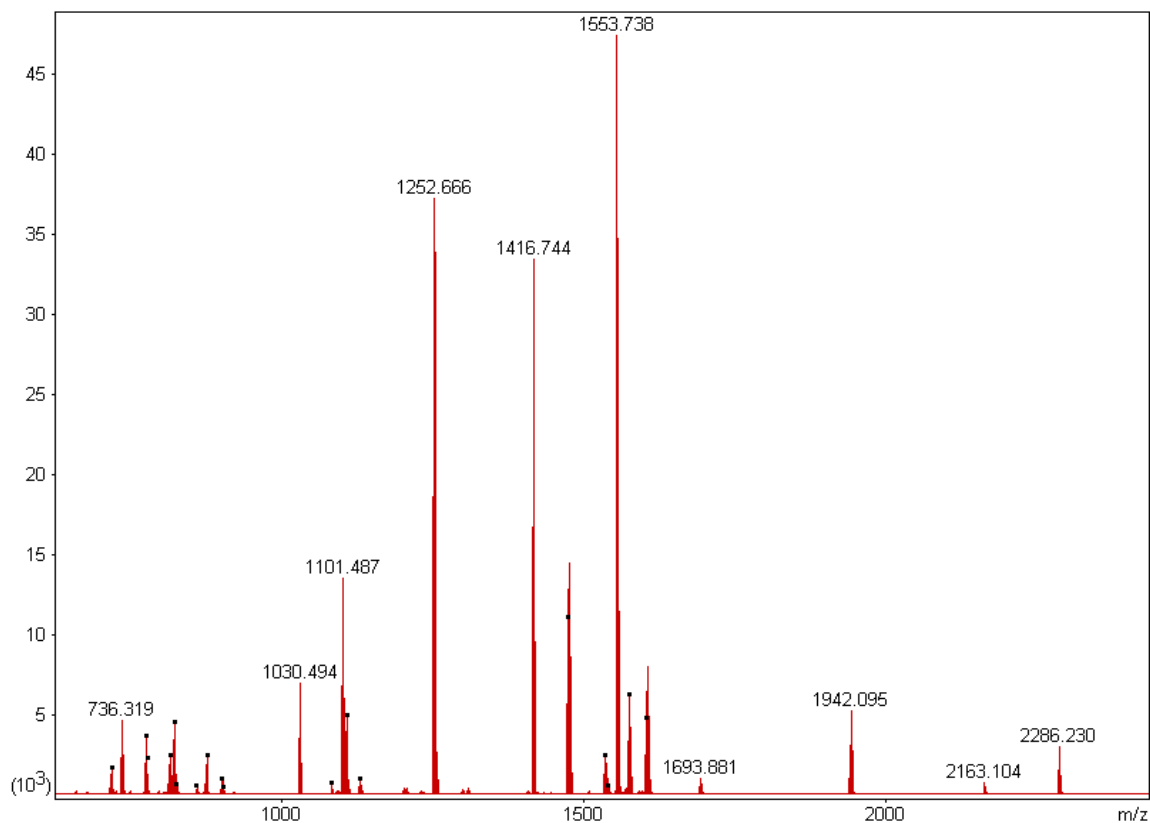
Matched peptides No.: **19**

Total peptides No.: **29**

Calculated Mr: **55351**

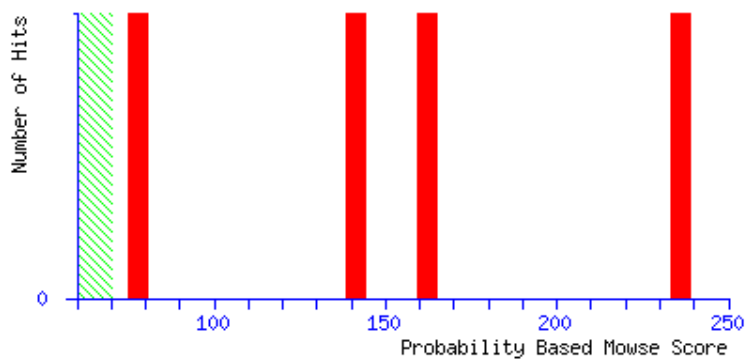
Calculated pI: **5.19**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVTIR**ADEIS NIIRERIEQY NREVTIVNTG TVLQVGDGIA** RIYGLDEVMA
51 GELVEFEEGT IGIALNLESN NVGVVLMGDG LMIQEGSSVK ATGK**IAQIPV**
101 **SEAYLGRVIN ALANPIDGRG** KISASESRLI ESPAPGIISR RSVYEPLQTG
151 LIAIDSMIPI GRGQ**RELIIG DRQ**TGKTAVA TDILNQGGQ NVICVYVAIG
201 Q**KASSVAQVV TSLQER**GAME YTIVVAETAD SPATLQYLAP YTGAALAEYF
251 MYR**EQHTLII YDDL**SKQAQA YR**QMSLLRR PPGREAYPGD VFYLHSR**LLE
301 RAAKLSSQLG EGSMTALPIV ETQSGDVSAY IPTNVISITD GQIFLSADLF
351 NAGIRPAINV GISVSRVGS AAIKAMKQVA GKLKLELAQF AELEAFSQFS
401 SDDLK**ATQNQ LAR**GQRLREL LKQSQSAPLT VEEQIMTIYT GTNGYLDGLE
451 IGQVR**KFLVQ LRTYLKTNKP QFQEII**ASTK TLTAEAESFL **KEGIQEQLER**
501 **FLLQEKV**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
6 - 14	1030.4945	1029.4872	1029.5454	-57	0	R.ADEISNIIR.E
15 - 22	1107.5012	1106.4939	1106.5468	-48	1	R.ERIEQYNR.E
17 - 22	822.3564	821.3491	821.4031	-66	0	R.IEQYNR.E
23 - 41	1942.0950	1941.0877	1941.0531	18	0	R.EVTIVNTGTVLQVGDGIAR.I
95 - 107	1416.7442	1415.7369	1415.7772	-28	0	K.IAQIPVSEAYLGR.V
108 - 119	1252.6660	1251.6587	1251.6935	-28	0	R.VINALANPIDGR.G
166 - 172	815.4101	814.4028	814.4548	-64	0	R.ELIIGDR.Q
203 - 216	1474.7530	1473.7457	1473.7787	-22	0	K.ASSVAQVVTSLQER.G
254 - 266	1574.8424	1573.8351	1573.7988	23	0	R.EQHTLIIYDDLK.Q
267 - 272	736.3195	735.3122	735.3664	-74	0	K.QAQAYR.Q
273 - 279	876.4255	875.4183	875.4899	-82	0	R.QMSLLLR.R Oxidation (M)
280 - 284	582.2973	581.2900	581.3398	-86	0	R.RPPGR.E
285 - 297	1553.7381	1552.7308	1552.7310	-0	0	R.EAYPGDVFYLHSR.L
406 - 413	901.4334	900.4261	900.4777	-57	0	K.ATQNQLAR.G
456 - 462	903.4931	902.4858	902.5702	-93	1	R.KFLVQLR.T
457 - 462	775.4216	774.4144	774.4752	-79	0	K.FLVQLR.T
467 - 480	1604.9052	1603.8979	1603.8569	26	0	K.TNKPQFQEIIASTK.T
492 - 500	1101.4873	1100.4800	1100.5462	-60	0	K.EGIQEQLER.F
501 - 506	777.3843	776.3771	776.4432	-85	0	R.FLLQEK.V

Spot No.: **69**

Mascot score: **82** Sequence coverage %: **31**

NCBI accession No.: **gi| 157830716**

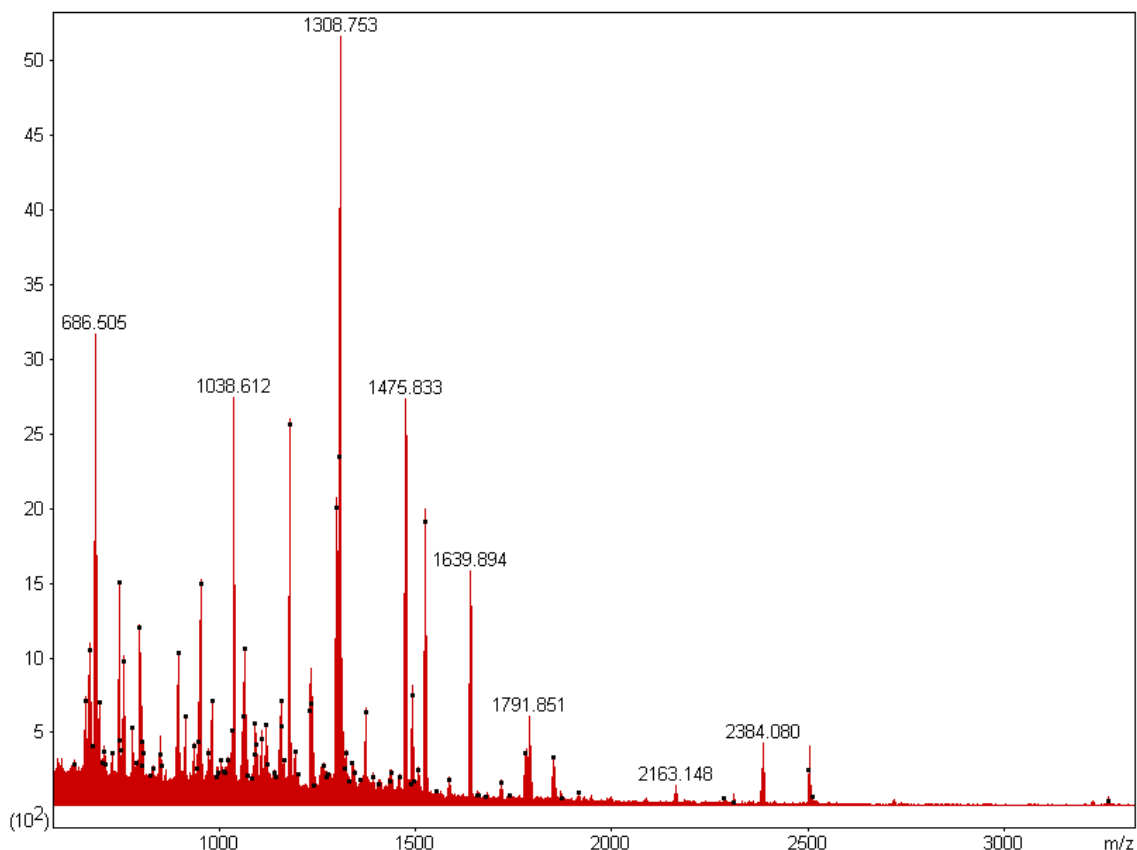
Matched peptides No.: **8**

Total peptides No.: **103**

Calculated Mr: **27386**

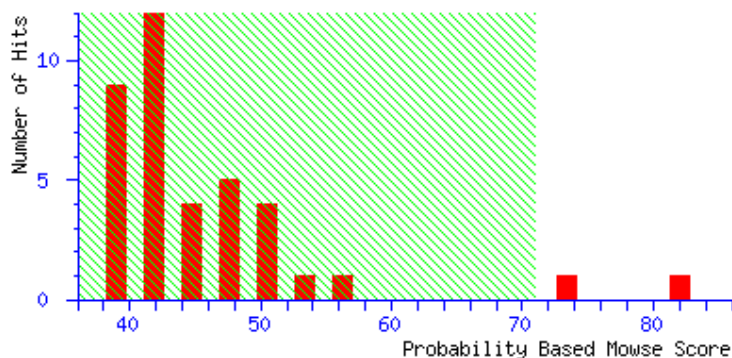
Calculated pI: **6.23**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 YPIFAQQNYE **NPRE**EATGRIV CANCHLASKP VDIEVPQAVL PDTVFEAVVK
51 IPYDMLKQV LANGKKGALN VGAVLILPEG FELAPPDRIS PEMKEKIGNL
101 SFQNYRPNKK **NILVIGPVP****G** **QK**YSEITFPI LAPDPATNKD VHFLK**YPIY****V**
151 GGNRGRGQIY PDGSKSNMTV YNATAGGIIS KILR**KEGGY** **EITIVDASNE**
201 RQVIDIIPRG **LELLVSEGES** **IKLD**QPLTSN PNVGGFGQGD AEIVLQDPLR
251

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 13	1639.8944	1638.8871	1638.7790	66	0	- .YPIFAQQNYENPR.E
51 - 58	1023.5653	1022.5580	1022.5107	46	0	K.IPYDMLK.Q Oxidation (M)
111 - 122	1234.6917	1233.6844	1233.7445	-49	0	K.NILVIGPVP GQK .Y
146 - 154	1038.6123	1037.6050	1037.5294	73	0	K.YPIYVGGNR.G
186 - 201	1780.9733	1779.9660	1779.8639	57	1	K.EGGYEITIVDASNER.Q
188 - 201	1523.8261	1522.8188	1522.7263	61	0	K.GGYEITIVDASNER.Q
202 - 209	953.6410	952.6338	952.5706	66	0	R.QVIDIIPR.G
210 - 222	1373.7862	1372.7789	1372.7449	25	0	R.GLELLVSEGESIK.L

Spot No.: **70**

Mascot score: **84** Sequence coverage %: **46**

NCBI accession No.: **gi| 222640350**

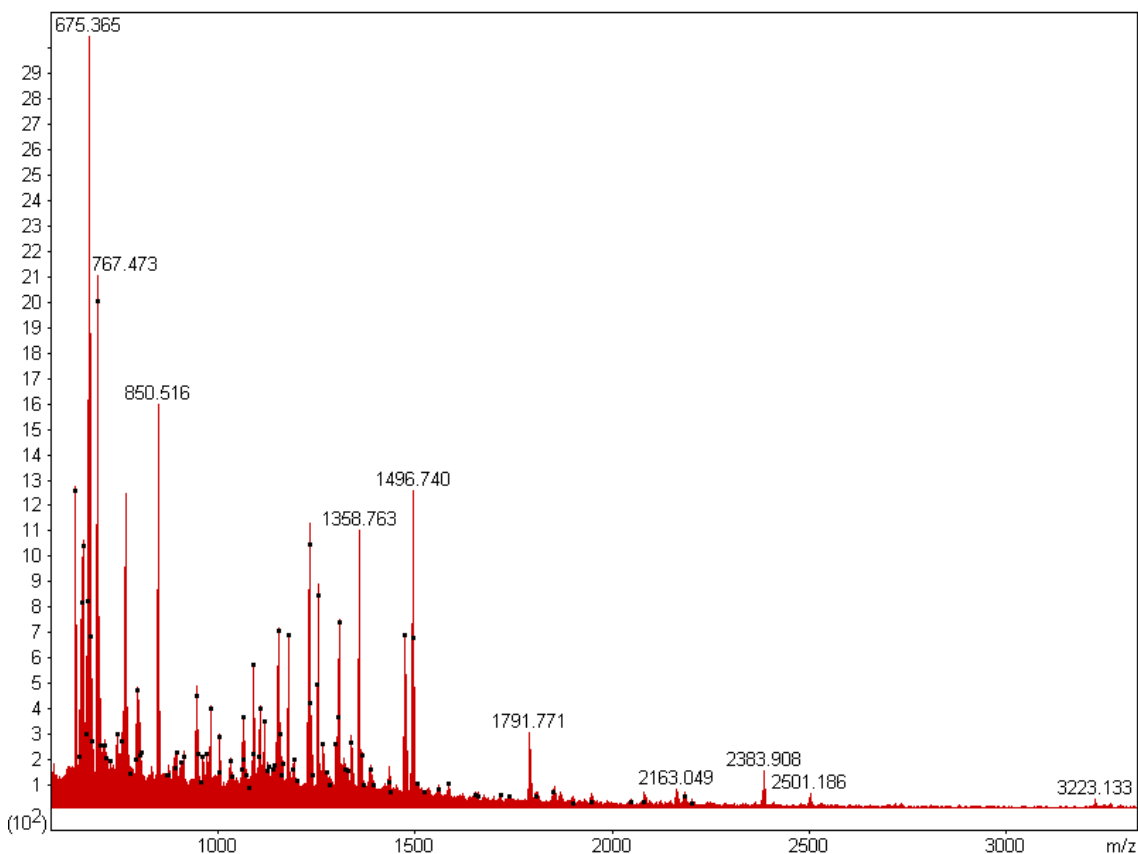
Matched peptides No.: **14**

Total peptides No.: **104**

Calculated Mr: **23549**

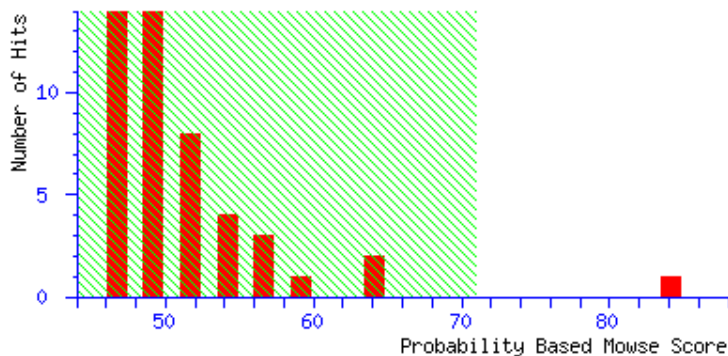
Calculated pI: **11.42**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MTGQTSGCCA LRIKLHLRVH IVEGRARLRL ASSTEFTRQ DPRPPWANRL
51 ATMARYAARW IYMALMMWAH DQKGASNSGE DLARQKGRVG GGSRMGEARN
101 RNRGKAEIEA VGGWRRRTAA RCVGNIGGGR DASAALGAIG VGRGGCEDVV
151 GGRWRGHRE ERWTATTIQG AQRRTDRDD SGGERC GAES EGTAAVTGGK
201 NGRQDGRRPI WRNRW

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 12	1254.6884	1253.6811	1253.5493	105	0	-.MTGQTSGCCALR.I Oxidation (M)
1 - 14	1495.7433	1494.7360	1494.7283	5	1	-.MTGQTSGCCALRIK.L Oxidation (M)
2 - 12	1107.5605	1106.5532	1106.5139	36	0	M.TGQTSGCCALR.I
13 - 18	779.4091	778.4018	778.5177	-149	1	R.IKLHLR.V
28 - 37	1179.6192	1178.6119	1178.6407	-24	1	R.LRLASSTEFR.T
50 - 59	1139.5299	1138.5226	1138.5917	-61	1	R.LATMARYAAR.W Oxidation (M)
87 - 94	745.4284	744.4211	744.3991	30	1	K.GRVGGSR.M
89 - 99	1092.5432	1091.5359	1091.5142	20	1	R.VGGGSRMGEAR.N Oxidation (M)
104 - 116	1329.6686	1328.6613	1328.6837	-17	1	R.GKAEELAVGGWR.R
106 - 117	1300.5944	1299.5871	1299.6684	-63	1	K.AEELAVGGWRR.T
131 - 143	1157.6105	1156.6032	1156.6200	-15	0	R.DASAALGAIVGR.G
131 - 154	2201.0251	2200.0178	2200.0655	-22	1	R.DASAALGAIVGRGGCEDVVGGGR.W
163 - 173	1232.6360	1231.6287	1231.6309	-2	0	R.WTATTIQGAQR.R
163 - 174	1388.7182	1387.7109	1387.7320	-15	1	R.WTATTIQGAQRR.G

Spot No.: **71**

Mascot score: **81** Sequence coverage %: **20**

NCBI accession No.: **gi| 44190501**

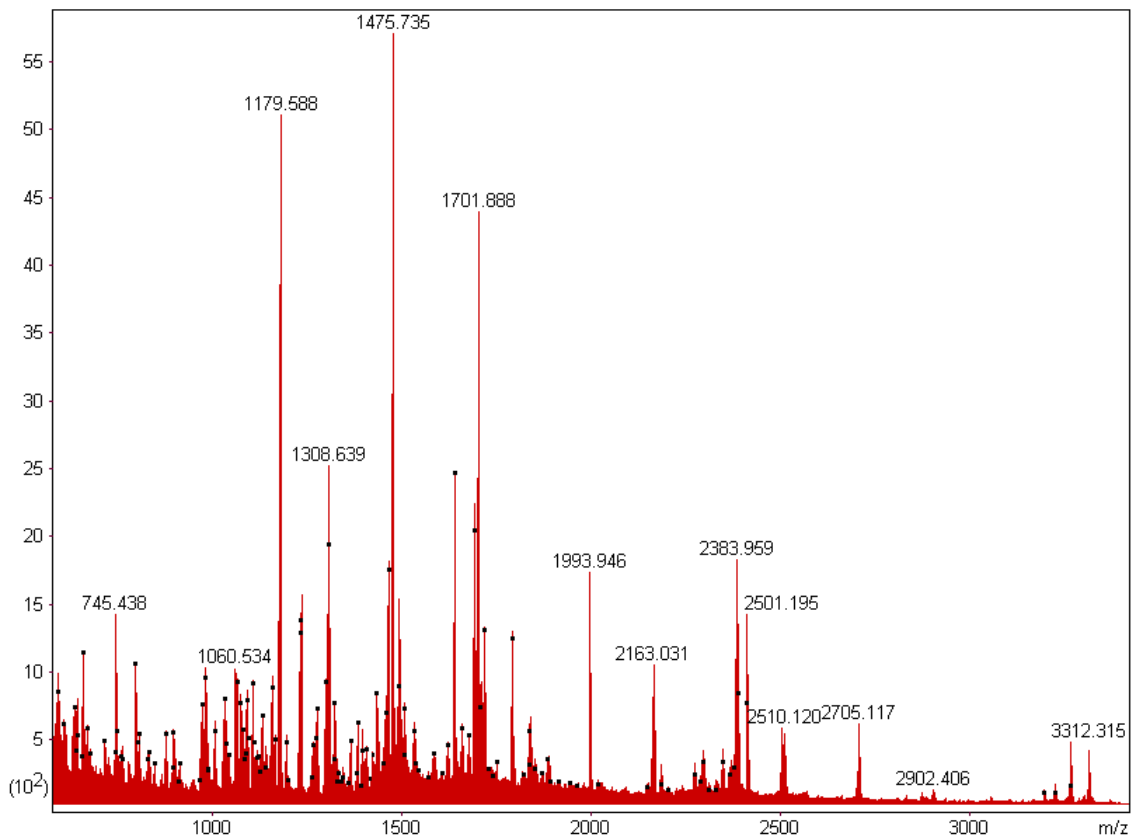
Matched peptides No.: **15**

Total peptides No.: **65**

Calculated Mr: **84907**

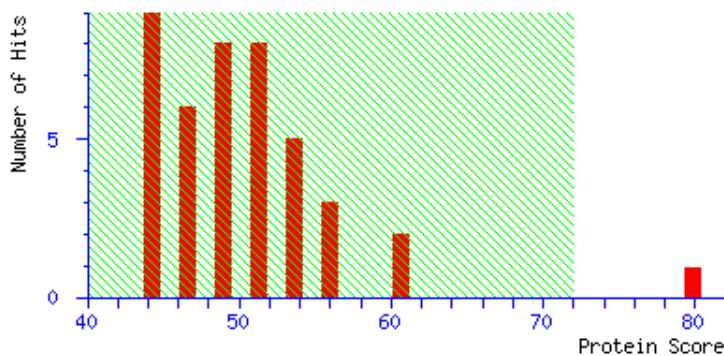
Calculated pI: **5.69**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASMSSHSSIA LCGASASASA SDHLRSSTNG VSLRTLGRAM VASTKRNNLY
51 VTARLKKGKK FDHPWASNPD PNVKGGVLSY LSTFKPLGDT QKPVTLDFEK
101 PLVELEKKIV DVRKMAAETG LDFTDQIITL GTKYRQALKD LYTDLTPIQR
151 VNIARHPNRP TFLDHIHNIT DKFMELHGDR AGYDDPAIVT GIGTIDGKRY
201 MFIGHQKGRN TKENIMRNFG MPTPHGYRKA LRMMYYADHH GFPIVTFIDT
251 PGAYADLKSE ELGQGEAIAN NLRTMFGLKV PILSIVIGEG GSGGALAIGC
301 ANKMLMLENA VFYVASPEAC AAILWNSSKA APEAAEKLRI TSRELVKLNV
351 ADGIIPEPLG GAHADPSWTS QQIKIAINEN MNEFGKMSGE ELLKHRMAKY
401 RKIGVFIENA PVEPEIKVNM KRRDAVVSNS RKLEGEVEKL KEQILKAKET
451 SSSEDQPSSE VLNEMIKKLN SEIDDEYTEA ARTMGLEERL TAMRGEFSKA
501 SEEEHLVHPI LIEKIEKLEK EFNTRLSEAP NYESLKSCLD MLRDFSRKA
551 ALEAASVKNE INKRFQEAVD RPEVREKVEA IKAEVASSGA SSFEELSDEL
601 KEKVLTKGVE VEAEMAGVLK SMALELEAVK PNVAEQIFVP SENIQEKVEK
651 LNREISEKIE EVVRAPEIKS MVELLKVENA KASQTPGDTK VSQKIETLEQ
701 QIKQKIADAL SMSGLQEKQE ELEKELAVAR EVAAVKSEES LKEDDDDDDG
751 SESEKPEIIN PHFA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
199 - 207	1179.5676	1178.5603	1178.6019	-35	1	K.RYMFIGHQK.G
200 - 207	1023.3867	1022.3794	1022.5008	-119	0	R.YMFIGHQK.G
274 - 279	712.4539	711.4466	711.3625	118	0	R.TMFGLK.V Oxidation (M)
340 - 347	945.5091	944.5018	944.5655	-67	1	R.ITSRELVK.L
375 - 386	1379.6308	1378.6235	1378.6551	-23	0	K.IAINENMNEFGK.M
423 - 431	1003.5800	1002.5727	1002.5206	52	1	R.RDAVVSNSR.K
447 - 467	2308.8913	2307.8840	2308.0740	-82	1	K.AKETSSSEDQPSSEVLNEMIK.K
483 - 494	1407.6182	1406.6109	1406.7010	-64	1	R.TMGLEERTAMR.G
500 - 517	2113.8344	2112.8271	2113.1419	-149	1	K.ASEEEHLVHPILIEKIEK.L
518 - 525	1036.5256	1035.5183	1035.5349	-16	1	K.LKEEFNTR.L
548 - 558	1058.5068	1057.4995	1057.6131	-107	1	R.AKAALAAASVK.N
607 - 620	1477.6103	1476.6030	1476.7494	-99	1	K.TKGEVEAEMAGVLK.S Oxidation (M)
621 - 630	1090.5327	1089.5254	1089.5740	-45	0	K.SMALELEAVK.P
719 - 724	775.5136	774.5063	774.3759	168	0	K.QEELEK.E
743 - 755	1455.5994	1454.5921	1454.4805	77	0	K.EDDDDDGSESEK.P

Spot No.: 72

Mascot score: 102 Sequence coverage %: 28

NCBI accession No.: gi| 15220329

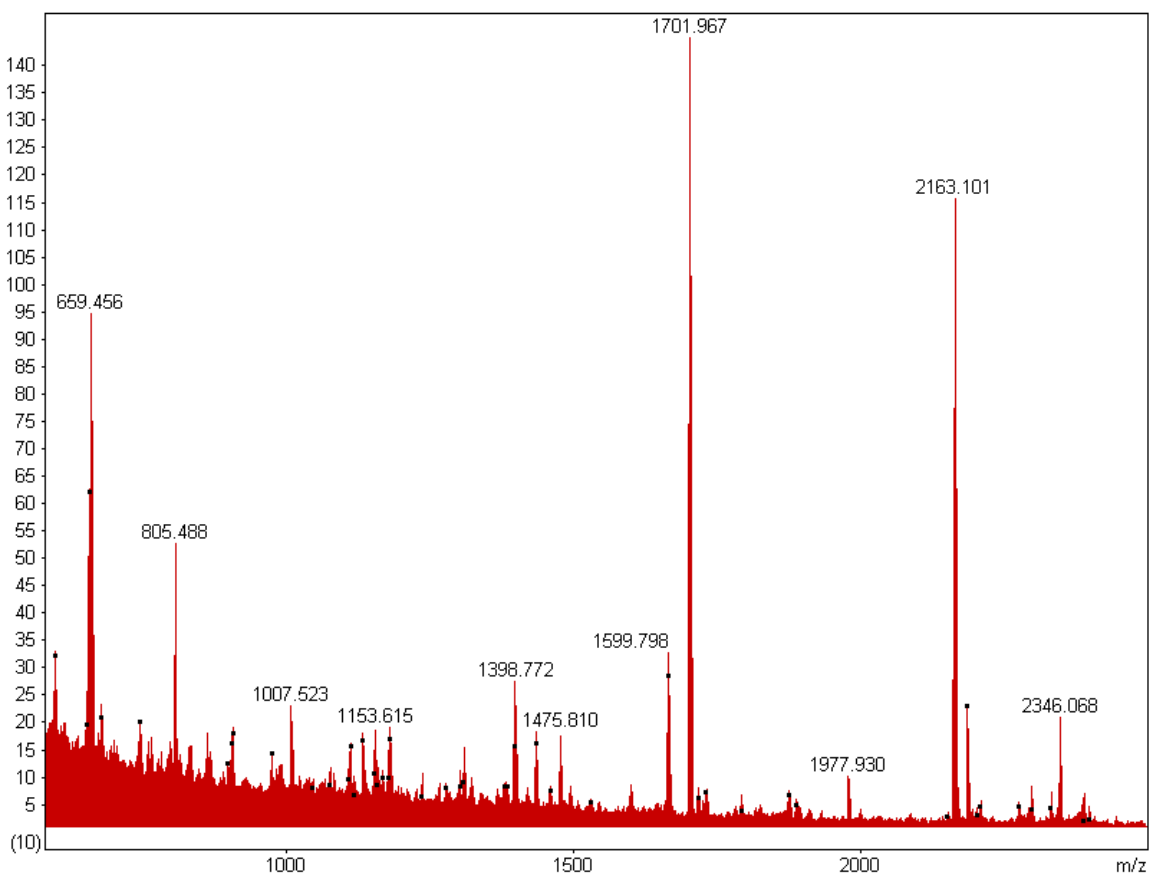
Matched peptides No.: 11

Total peptides No.: 34

Calculated Mr: 50194

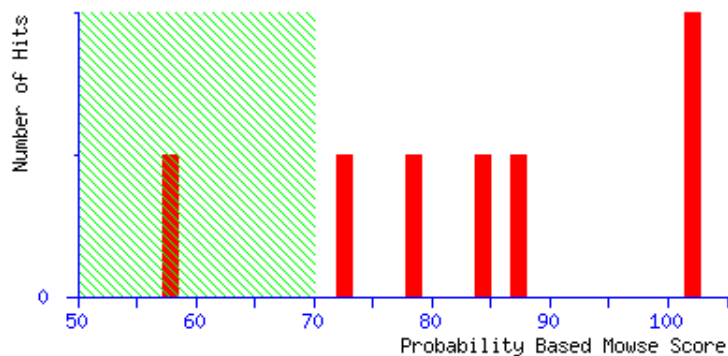
Calculated pI: 4.93

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MRECISIHIG QAGIQVGNAC WELYCLEHGI QPDGQMPSDK TVGGGDDAFN
 51 **TFFSETGAGK** HVPRAVFVDL **EPTVIDEVRT** **GTYRQLFHPE** **QLISGKEDAA**
 101 **NNFARGHYTI** **GKEIVDLCLD** **RIRKLADNCT** GLQGFLVFNA VGGGTGSGLG
 151 SLLLERLSVD YGKSKLGFT VYSPQVSTS VVEPYNSVLS THSLEHTDV
 201 SILLDNEAIY DICRR**SLSIE** **RPTYTNLNL** VSQVISSLTA SLRFDGALNV
 251 DVTEFQTNLV PYPRIHFMLS SYAPVISA EK AFHEQLSVAE ITNSAFEPAS
 301 MMAKCDPRHG KYMACCLMYR GDVVPKDVNA AVGTIKTKRT IQFVDWCPTG
 351 FKCGINYQPP TVVPGDLAK **VQRAVCMISN** **STSVAEVFSR** IDHK**FDL**MYA
 401 **KRAVHWYVVG** **EGMEEGEFSE** **AREDLAALEK** DYEEVGAEGG DDEDEGE EY
 451

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
41 - 60	1977.9300	1976.9227	1976.8752	24	0	K.TVGGDDAFNT TFFSETGAGK .H
65 - 79	1701.9674	1700.9601	1700.8985	36	0	R.AVFVDLE P TVIDEVR.T
80 - 84	597.3727	596.3655	596.2918	123	0	R.TGTYR.Q
85 - 96	1396.7665	1395.7592	1395.7510	6	0	R.QLFHPEQLISGK.E
97 - 105	1007.5230	1006.5157	1006.4468	68	0	K.EDAANNFAR.G
113 - 121	1132.6111	1131.6038	1131.5594	39	0	K.EIVDLCLDR.I
216 - 229	1663.9185	1662.9112	1662.8689	25	0	R.SLSIERPTYTNLNR.L
374 - 390	1873.9314	1872.9241	1872.8710	28	0	R.AVCMISNSTSVAEVFSR.I Oxidation (M)
395 - 401	903.5040	902.4967	902.4208	84	0	K.FDL MYAK .R Oxidation (M)
403 - 422	2330.0971	2329.0898	2329.0110	34	0	R.AVHWYVVGEGMEEGEFSEAR.E
403 - 422	2346.0676	2345.0603	2345.0059	23	0	R.AVHWYVVGEGMEEGEFSEAR.E Oxidation (M)

Spot No.: **73**

Mascot score: **82** Sequence coverage %: **15**

NCBI accession No.: **gi| 110738696**

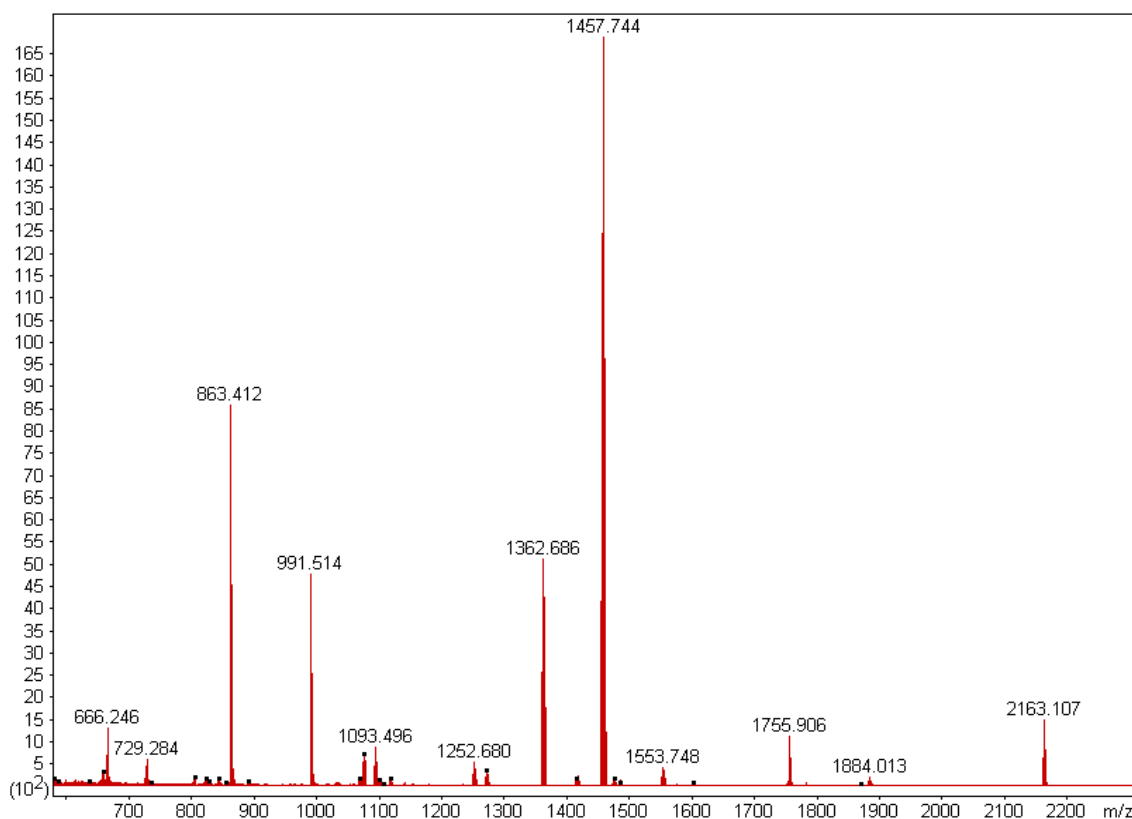
Matched peptides No.: **11**

Total peptides No.: **27**

Calculated Mr: **71308**

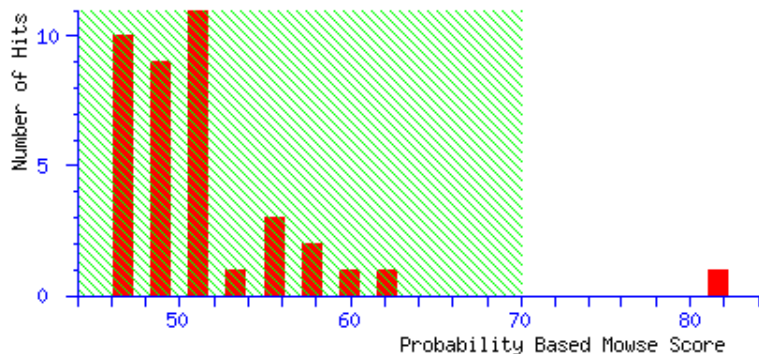
Calculated pI: **6.47**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MSKLETAAVK AISEVEDAAT QTKRAKKGKC LAPNEFIEEG GEKLRSIICC
51 IMGHVDSGKT KLLDCIRGTM VQEGEAGGIT QQIGATYFPA KNIRERTREL
101 KADAKLKVPG LLVIDTPGHE SFTNLRSRGS SLCDLAILVW DITHGLQPQT
151 IESLNLLRMR NTEFIIALNK VDRLYGWKTC KNAPIVKAMK QQNKDVINEF
201 NLRLKKIINE FQEQGLNTEL YYKNKDMGET FSIVPTS AIS GEGVPDLLLW
251 LVQWAQKTMV EKLTYVDEVQ CTVLEVKVIE GHGTTIDVVL VNGELHEGDQ
301 IVVCGLQGP I VTTIRALLTP HPMKELRVKG TYLHHKEIKA AOGIKITAQG
351 LEHAIAGTSL HVVGPDDDDIE AMKESAMEDM ESVLSRIDKS GEGVYVQTST
401 LGSLEALLEF LKTPAVNIPV SGIGIGPVHK KDIMKAGVML EKKEYATIL
451 AFDVKVTTEA RELADEMGVK IFCADIIYQL FNQFQVYIEN IKEEKKKESA
501 GEAVFPCVLQ ILPNCVFNKR DPIILGVKVH DGILKIGTPI CVPGREFTDI
551 GRIASIENMH KPVDYAEKGD EVAIKIVASH REEQKMFGRH FDMEDELVSH
601 ISRRSIDILK ADYMKEMSTE KWKLLLLKLR IFKIP

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 10	1093.4962	1092.4889	1092.5849	-88	1	-.MSKLETAAVK.A Oxidation (M)
11 - 23	1362.6864	1361.6791	1361.6674	9	0	K.AISEVEDAATQTK.R
174 - 178	666.2461	665.2388	665.3537	-173	0	R.LYGWK.T
188 - 194	863.4120	862.4047	862.4331	-33	1	K.AMKQNK.D Oxidation (M)
195 - 203	1119.6192	1118.6119	1118.5720	36	0	K.DVINEFNLR.L
413 - 430	1755.9061	1754.8988	1755.0043	-60	0	K.TPAVNIPVSGIGIGPVHK.K
413 - 431	1884.0127	1883.0054	1883.0993	-50	1	K.TPAVNIPVSGIGIGPVHK.D
436 - 443	891.4351	890.4278	890.4895	-69	1	K.AGVMLEKK.K Oxidation (M)
462 - 470	991.5141	990.5068	990.4692	38	0	R.ELADEMGVK.I
536 - 545	1069.4869	1068.4796	1068.5750	-89	0	K.IGTPICVPGR.E
576 - 581	659.2958	658.2885	658.3762	-133	0	K.IVASNR.E

Spot No.: **74**

Mascot score: **170** Sequence coverage %: **32**

NCBI accession No.: **gi| 2493132**

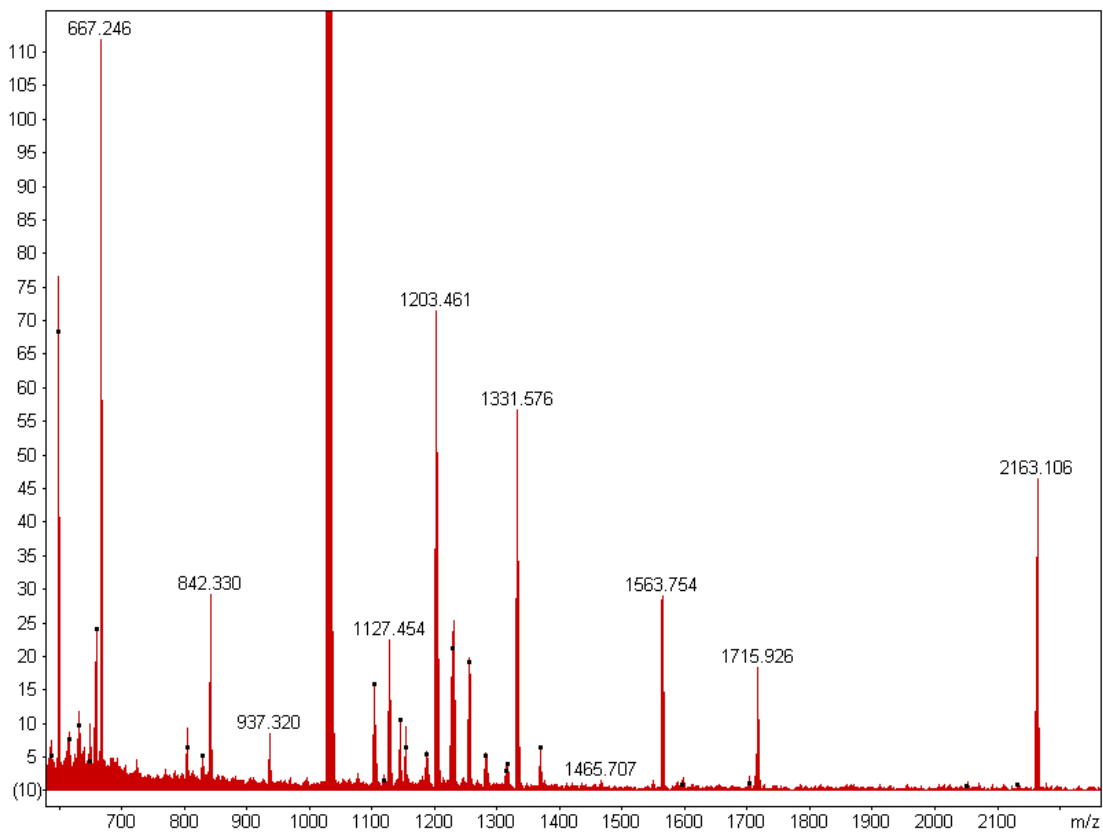
Matched peptides No.: **17**

Total peptides No.: **31**

Calculated Mr: **53806**

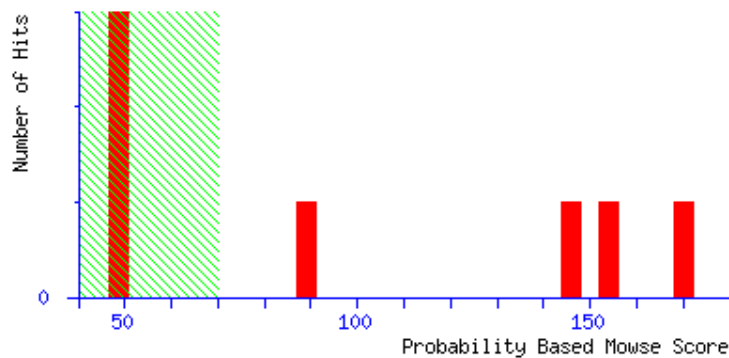
Calculated pI: **5.12**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MAPEMEEGTL EIGMEYRTVS GVAGPLVILD KVKGPKYQEI VNIRLGDGTT
51 RRGQVLEVDG EKAVVQVFEG TSGIDNKYTT VQFTGEVLKT PVSLDMLGRI
101 FNGSGKPIDN GPPILPEAYL DISGSSINPS ERTYPEEMIQ TGISTIDVMN
151 SIARGQKIPL FSAAGLPHNE IAAQICRQAG LVKRLEQSKH AAEGGEEDNF
201 AIVFAAMGVN METAQFFKRD FEENGSMERV TLFLNLANDP TIERIITPRI
251 ALTTAEYLAY ECGKHVLVIL TDMSSYADAL REVSAAREEV PGRRGYPGYM
301 YTDLATIIYER AGRIEGRKGS ITQIPILTMP NDDITHPTPD LTGYITEGQI
351 YIDRQLHNRQ IYPPINVLPS LSRLMKSAIG EGMTRRDHSD VSNQLYANYA
401 IGKDVQAMKA VVGEEALSSE DLLYLEFLDK FERKFVAQGA YDTRNIFQSL
451 DLAWTLRIF PRELLHRIPA KTLDQFYSRD ATH

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
37 - 44	1034.4811	1033.4738	1033.5556	-79	0 K.YQ EI VNIR.L
63 - 77	1563.7544	1562.7471	1562.7941	-30	0 K.AVV QVFE GT TSGIDNK .Y
90 - 99	1104.4748	1103.4675	1103.5645	-88	0 K.TPV SLDMLGR .I Oxidation (M)
219 - 229	1369.6825	1368.6752	1368.5728	75	1 K.R DFEENG SMER.V
220 - 229	1229.5081	1228.5008	1228.4666	28	0 R. DFEENG SMER.V Oxidation (M)
230 - 244	1715.9261	1714.9188	1714.9254	-4	0 R.V TLFLNLAN DP TIER .I
245 - 249	599.2486	598.2413	598.3802	-232	0 R. IITPR .I
250 - 264	1702.8528	1701.8455	1701.8283	10	0 R. I AL TTAEYL AY ECGK .H
282 - 287	632.1809	631.1736	631.3289	-246	0 R. EVSAAR .E
288 - 294	842.3296	841.3223	841.4406	-141	1 R. EEVP GRR.G
355 - 359	667.2461	666.2388	666.3561	-176	0 R. QLHNR .Q
360 - 373	1596.8824	1595.8751	1595.9035	-18	0 R. QIYPPIN VLP SLSR .L
377 - 385	937.3198	936.3125	936.4335	-129	0 K. SAIGEM TR.R Oxidation (M)
386 - 403	2050.9949	2049.9876	2049.9868	0	1 R. RDHSDVSNQLYANYA IGK.D
434 - 444	1255.5724	1254.5651	1254.6357	-56	1 R. KFVAQ GAYDTR.N
435 - 444	1127.4541	1126.4468	1126.5407	-83	0 K. FVAQ GAYDTR.N
472 - 479	1029.4018	1028.3945	1028.4927	-95	0 K. TLDQF YSR.D

Spot No.: **75**

Mascot score: **109** Sequence coverage %: **52**

NCBI accession No.: **gi| 7708185**

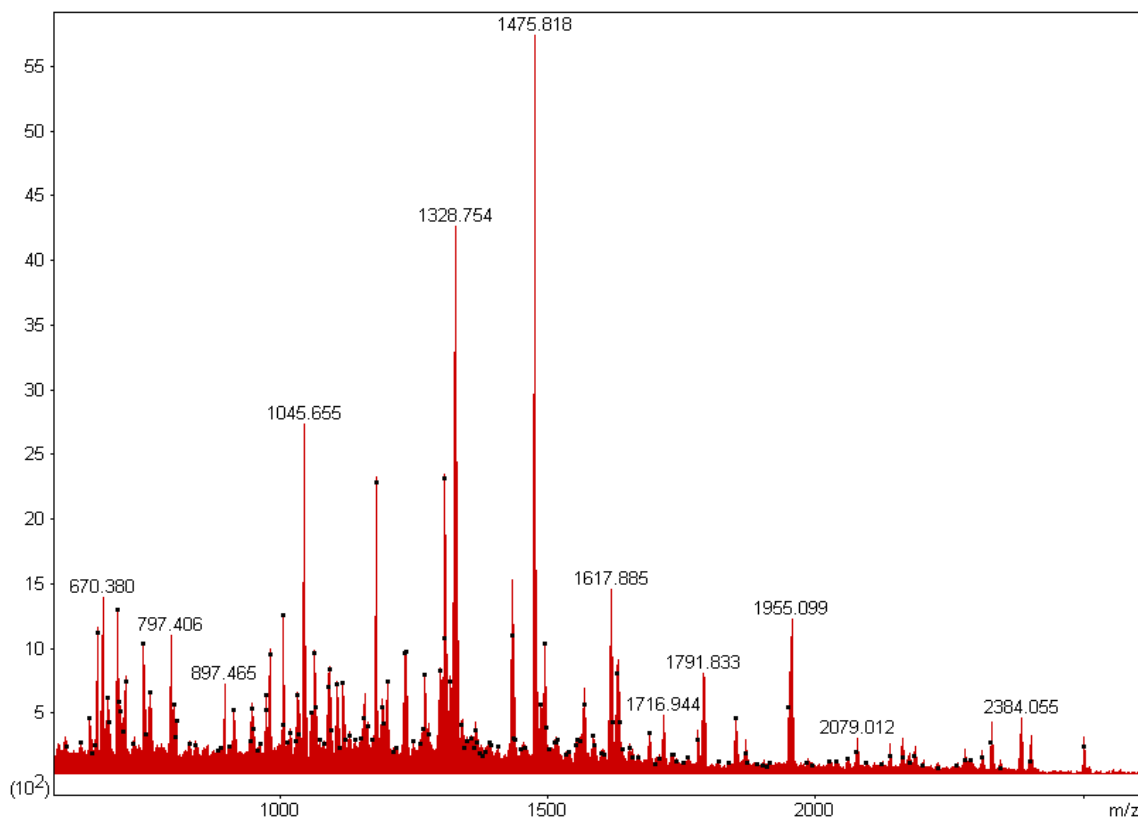
Matched peptides No.: **25**

Total peptides No.: **157**

Calculated Mr: **52907**

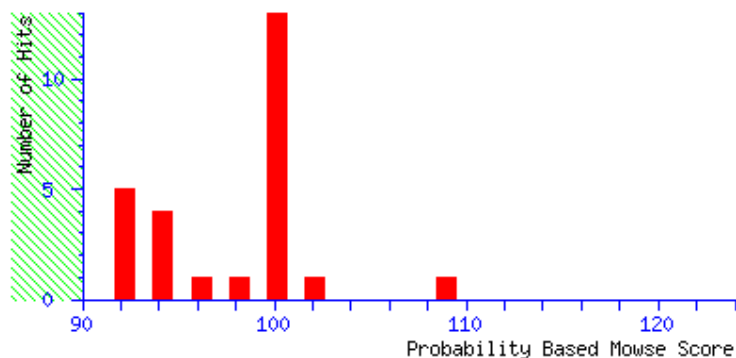
Calculated pI: **5.21**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 DPGVSTLEKK NLGR**IVQIIG PVL**DVA**FPPG KMPNIYNALV** VKGRD**TVGQQ**
51 INVTCEV**QQL** LGNNR**VRAVA MSATDGLRRG** MDVIDTGAAL SVPVGGATLG
101 RIFNVLGEPV **DNLGPVDTRT** TSPIHR**SAPA FIQLD**TKLSI **FETGIKVVDL**
151 LAPYRRGGKI **GLFGGAGVGK** **TVLIMELINN** IAKAHGGVSV **FGGVGERTRE**
201 GNDLYMEMKE SGVINEQ**NI**A ESK**VALVYGQ MNEPPGAR**MR VGLTALTMAE
251 YFRDVNEQDV **LLFIDNIFRF** **VQAGSEVSAL** **LGRMPSAVGY** **QPTLSTEMGT**
301 LQERITSTKE GSITSIQAVY VPADDLTDPA PATTFAHLDA TTVLSR**GLAA**
351 KGIYPAVDPL **DSTSTMLQPR** IVGEEHYETA QRVK**QTLQR**Y KELQDIIAIL
401 GLDELSEEDR LTVARARKIE RFLSQPFVA EVFTGSPGKY VGLAETIRGF
451 QLILSGELDG LPEQAFYLVG NIDEATA**KAM NLEMESNLKK**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 9	945.5447	944.5375	944.4815	59	0	-.DPGVSTLEK.K
15 - 31	1763.0201	1762.0128	1762.0393	-15	0	R.IVQIIGPVLDAFPPGK.M
32 - 42	1277.7074	1276.7001	1276.6849	12	0	K.MPNIYNALVVK.G Oxidation (M)
68 - 78	1107.5975	1106.5902	1106.5390	46	0	R.AVAMSATDGLR.R Oxidation (M)
102 - 119	1955.0991	1954.0918	1954.0160	39	0	R.IFNVLGEPVDNLGPVDTR.T
127 - 137	1190.6719	1189.6646	1189.6343	26	0	R.SAPAFIQLDTK.L
138 - 146	1007.5959	1006.5886	1006.5699	19	0	K.LSIFETGIK.V
147 - 155	1045.6550	1044.6477	1044.5968	49	0	K.VVDLLAPYR.R
147 - 156	1201.7316	1200.7243	1200.6979	22	1	K.VVDLLAPYRR.G
157 - 170	1217.6770	1216.6697	1216.6928	-19	1	R.GGKIGLFGGAGVGK.T
160 - 170	975.5933	974.5860	974.5549	32	0	K.IGLFGGAGVGK.T
171 - 183	1487.8371	1486.8298	1486.8429	-9	0	K.TVLIMELINNIK.A Oxidation (M)
184 - 197	1328.7538	1327.7465	1327.6633	63	0	K.AHGGVSVFGVGER.T
198 - 209	1518.7923	1517.7850	1517.6490	90	1	R.TREGNDLYMEMK.E 2 Oxidation (M)
224 - 238	1601.8531	1600.8458	1600.8031	27	0	K.VALVYQMNNEPPGAR.M
224 - 238	1617.8847	1616.8774	1616.7981	49	0	K.VALVYQMNNEPPGAR.M Oxidation (M)
254 - 269	1950.0526	1949.0453	1948.9894	29	0	R.DVNEQDVLLFIDNIFR.F
270 - 283	1433.8371	1432.8298	1432.7674	44	0	R.FVQAGSEVSALLGR.M
284 - 304	2328.1795	2327.1722	2327.0773	41	0	R.MPSAVGYQPTLSTEMGTLQER.I 2 Oxidation (M)
347 - 370	2501.3058	2500.2985	2500.2995	-0	1	R.GLAAKGIYPAVDPLDSTSTMLQPR.I
352 - 370	2061.0818	2060.0745	2060.0248	24	0	K.GIYPAVDPLDSTSTMLQPR.I
352 - 370	2077.0899	2076.0826	2076.0198	30	0	K.GIYPAVDPLDSTSTMLQPR.I Oxidation (M)
385 - 389	645.4026	644.3954	644.3606	54	0	K.QLQR.Y
479 - 490	1407.7605	1406.7532	1406.6897	45	1	K.AMNLEMESNLKK.-
479 - 490	1439.7727	1438.7654	1438.6796	60	1	K.AMNLEMESNLKK.- 2 Oxidation (M)

Spot No.: **76**

Mascot score: **81** Sequence coverage %: **12**

NCBI accession No.: **gi| 22328910**

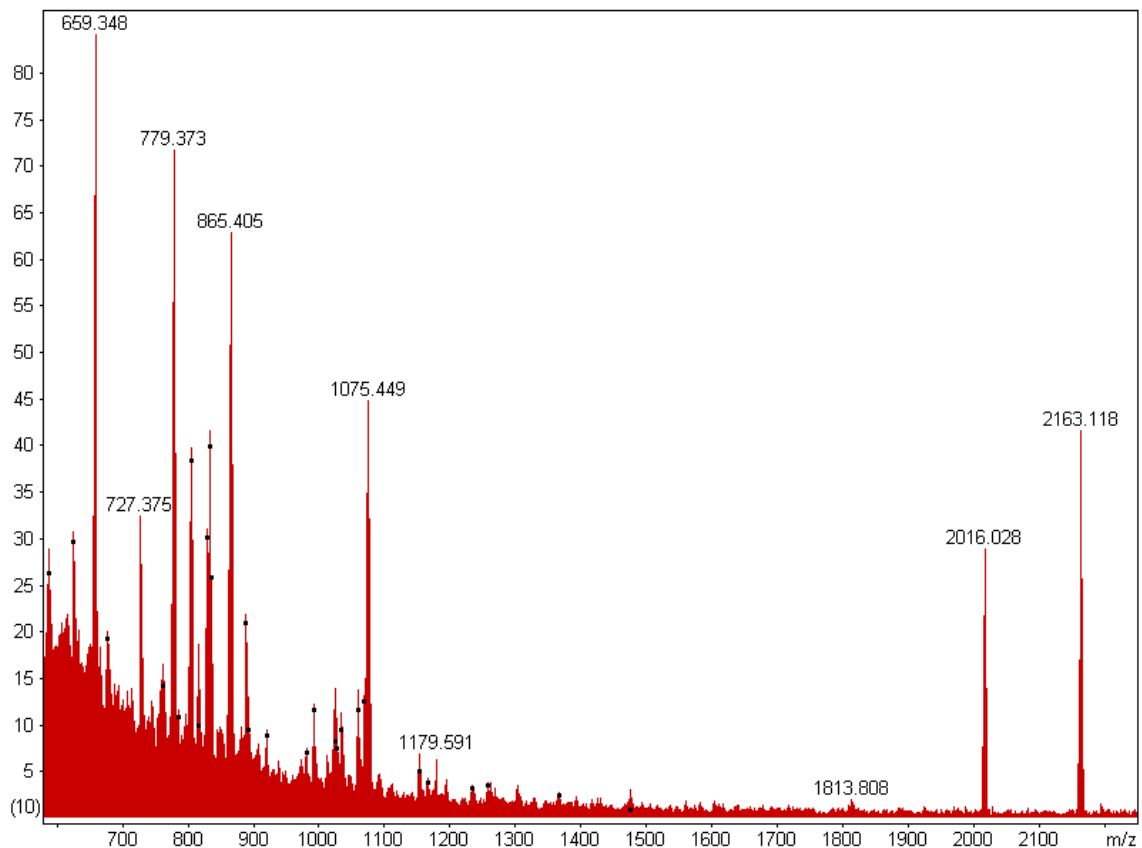
Matched peptides No.: **10**

Total peptides No.: **22**

Calculated Mr: **54154**

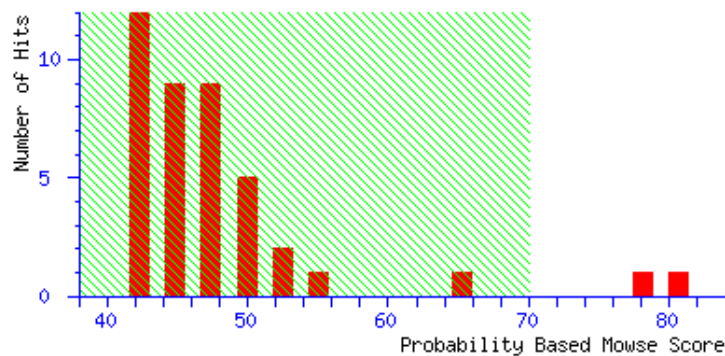
Calculated pI: **6.25**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAEISATSFP SSSSSALVIR SSHNGSLKCQ NVAVPKTTSQ FQELSLKRSQ
51 LVGNNAVVTGH VTGSRACKNQ AIRAVLSGDG TALTTDSKEA GLRGKLLKVV
101 LAYSGGLDTS VIVPWLEKENV GCEVVCFTAD VGQGIKELEG LEQKAKASGA
151 SQLVVKDLTE EFVKDFIFPC LRAGAIYERK YLLGTSMARP VIAKAMVDVA
201 AEVGADAVAH GCTGKGNQV RFELTFFSLN PELKVVAPWR EWEIQGREDA
251 IEYAKKHNVP VPVTKKSIYS RDRNLWHLSE EGDLLDPAN EPKKDMYMS
301 VDPEDAPDQP EYIEIGIESG LPVALNGKAL SPATLLAELN TIGGKHGIGR
351 IDMVENRLVG MKSRGVYETP GGTILFAAVQ ELESRLDRE SIQVKDTLAL
401 KYAEMVYAGR WFDPLRESMD AFMEKITETT TGSVTLKLYK GSVSVTGRQS
451 PNSLYRQDIS SFEGSEIYNQ ADAAGFIRLY GLPMKIRAML KKIS

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
21 - 28	829.2838	828.2765	828.4090	-160	0	R.SSHNGSLK.C
157 - 164	980.4511	979.4439	979.4862	-43	0	K.DLTEEFVK.D
173 - 179	779.3732	778.3660	778.3973	-40	0	R.AGAIYER.K
235 - 240	727.3751	726.3679	726.4177	-69	0	K.VVAPWR.E
267 - 271	625.2654	624.2582	624.3231	-104	0	K.SIYSR.D
351 - 357	892.3813	891.3740	891.4120	-43	0	R.IDMVENR.L Oxidation (M)
402 - 410	1059.4817	1058.4744	1058.4855	-10	0	K.YAEMVYAGR.W
402 - 410	1075.4495	1074.4422	1074.4804	-36	0	K.YAEMVYAGR.W Oxidation (M)
411 - 416	833.3919	832.3846	832.4232	-46	0	R.WFDPLR.E
441 - 448	762.3714	761.3641	761.4032	-51	0	K.GSVSVTGR.Q

Spot No.: **77**

Mascot score: **94** Sequence coverage %: **21**

NCBI accession No.: **gi| 15218090**

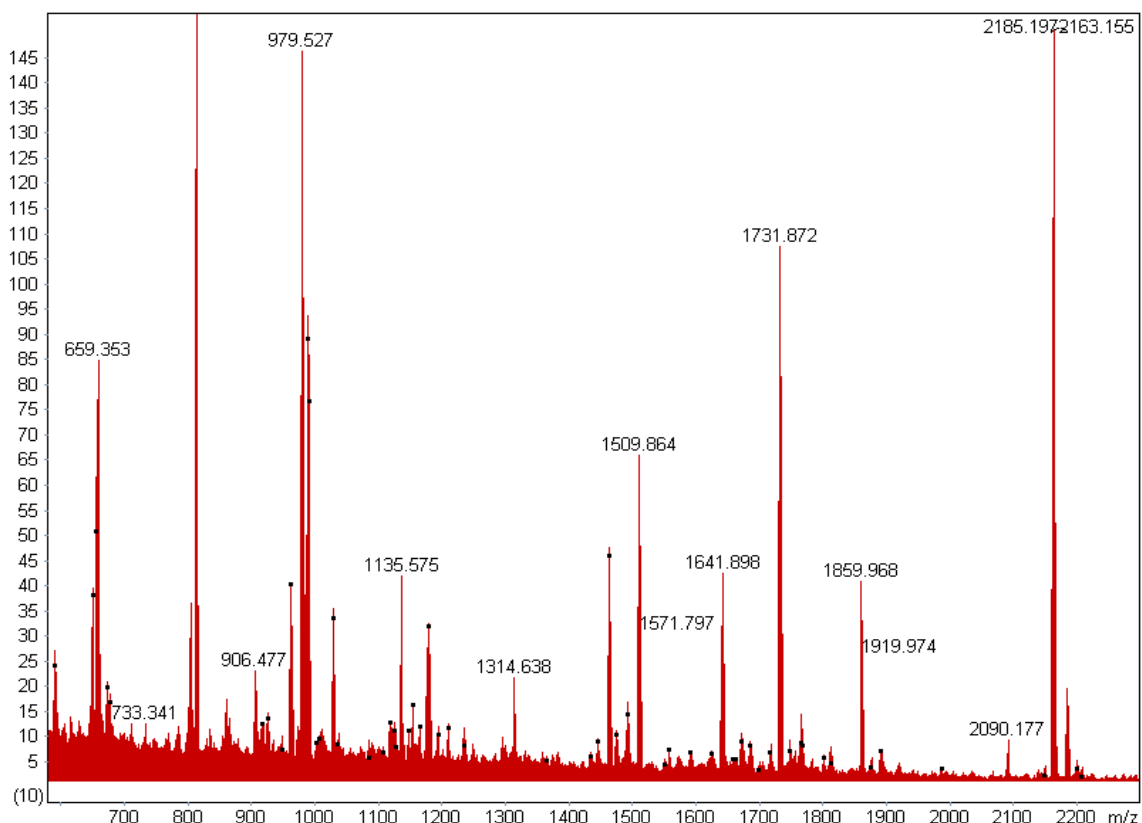
Matched peptides No.: **15**

Total peptides No.: **45**

Calculated Mr: **54539**

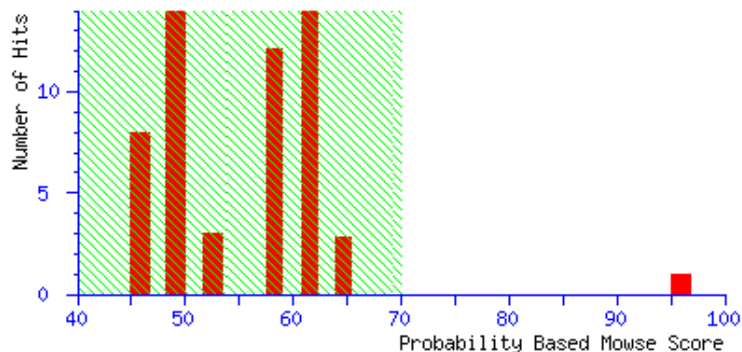
Calculated pI: **5.94**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MYRTAASRAR ALKGVLTRSL RPARYASSSA VAETSSSTPA YLSWLSGGSR
51 AALTSLDMPL QGVSLPPPLA DKVEPSKLQI TTLPMGLKIA SETTPNPAAAS
101 IGLYVDCGSI YEAPYFHGAT HLLERMAFKS **TLNR**THFRLV **REIEAIGGNT**
151 **SASASREQMS** **YTIDALKTYV** PEMVEVLIDS **VRNPAFLDWE** **VNEELRKMKV**
201 **EIAELAKNPM** GFLLEAIHSA GYSGPLASPL YAPESALDRL NGELLEEFMT
251 ENFTAARMVL **AASGVEHEEL** **LKVAEPLTSD** LPNVPPQLAP **KSQYVGGDFR**
301 QHTGGEATHF AVAFEVPGWN NEKEAVTATV LQMLMGGGGS FSAGGPGKGM
351 HSWLYRRVLN EYQEVQSCTA FTSIFNDTGL FGIYGCSSPQ FAAKAIELAA
401 KELKDVAGGK VNQAHLDRAK AATK**SAVLMN** **LESRMIAAED** **IGRQILTYGE**
451 **RKPVDQFLKS** VDQLTLKDIA DFTSKVISKP LTMGSFGDVL AVPSYDTISS
501 KFR

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
130 - 134	590.2720	589.2647	589.3184	-91	0 K.STLNR.T
142 - 156	1462.7445	1461.7372	1461.7059	21	0 R.EIEAIGGNTSASASR.E
157 - 167	1314.6385	1313.6312	1313.6173	11	0 R.EQMSYTTIDALK.T Oxidation (M)
183 - 196	1731.8719	1730.8646	1730.8264	22	0 R.NPAFLDWEVNEELR.K
183 - 197	1859.9684	1858.9611	1858.9213	21	1 R.NPAFLDWEVNEELR.M
198 - 207	1147.6213	1146.6140	1146.6318	-16	1 K.MKVEIAELAK.N Oxidation (M)
258 - 272	1625.8654	1624.8581	1624.8494	5	0 R.MVLAASGVEHEELK.V
258 - 272	1641.8976	1640.8903	1640.8443	28	0 R.MVLAASGVEHEELK.V Oxidation (M)
292 - 300	1028.5154	1027.5081	1027.4723	35	0 K.SQYVGGDFR.Q
425 - 434	1119.5605	1118.5532	1118.5754	-20	0 K.SAVLMNLESR.M
425 - 434	1135.5746	1134.5673	1134.5703	-3	0 K.SAVLMNLESR.M Oxidation (M)
435 - 443	991.4978	990.4906	990.4804	10	0 R.MIAAEDIGR.Q Oxidation (M)
444 - 451	979.5271	978.5198	978.5134	7	0 R.QILTYGER.K

Spot No.: **78**

Mascot score: **86** Sequence coverage %: **54**

NCBI accession No.: **gi| 19769**

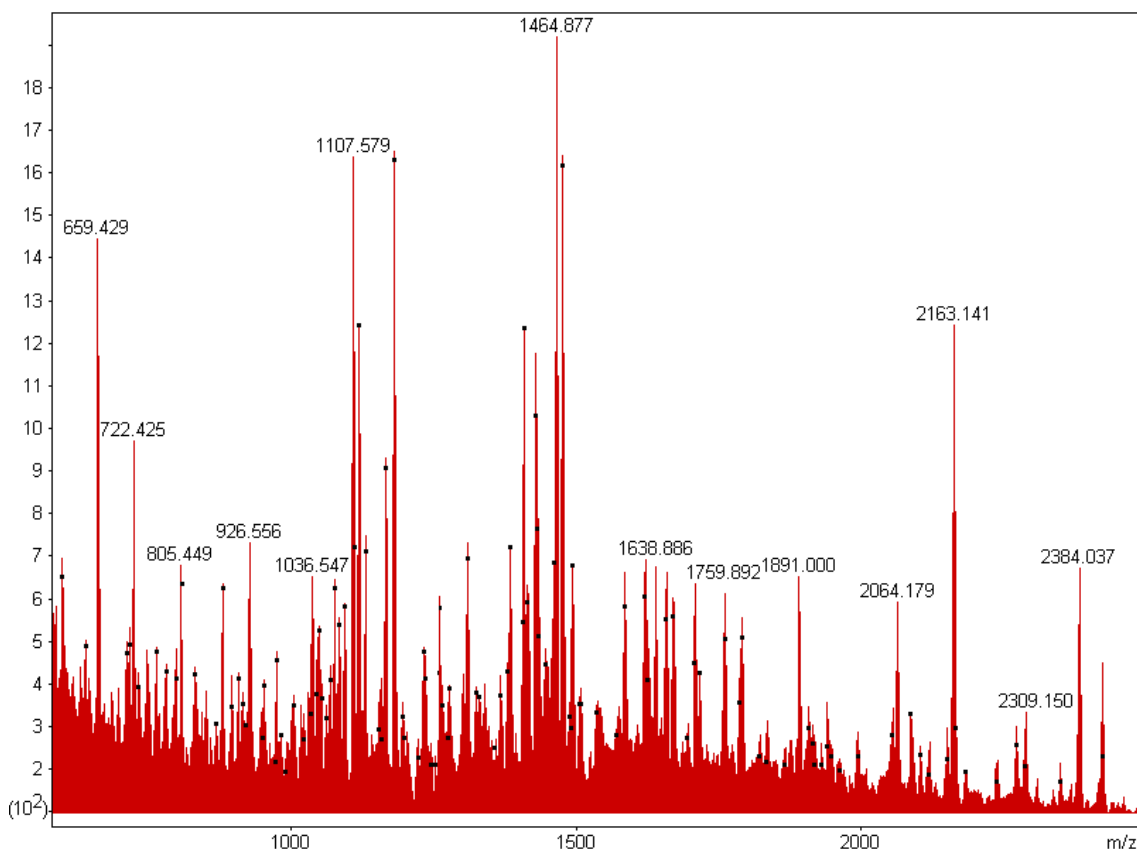
Matched peptides No.: **15**

Total peptides No.: **112**

Calculated Mr: **25251**

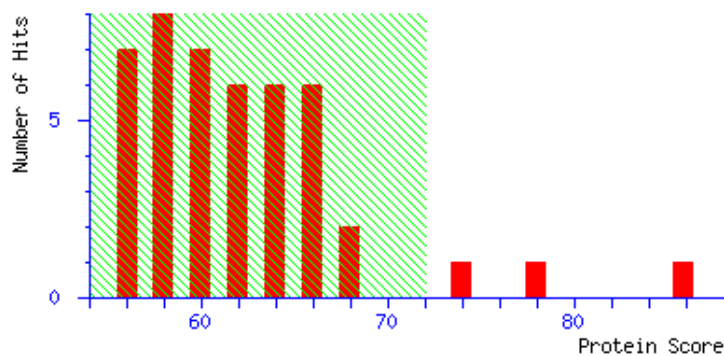
Calculated pI: **9.78**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **SNK**KDPSPAS**** **KTARKGRPLD** DAWQHATPVD GKKQRTICKY CGFVSSSGGI
 51 **TYLK**THLGGG**** **DPTGSLK**GCP**** **NVPPEVKRVM** **TEWLQGTIRG** VNAPQLEDIR
 101 **TDMEARTSKK** **SVRRGRPLDA** **AWEHATPVDA** **KRQRAVCKYC** GFISSSGGIT
 151 **HLKAHLAGGD** **PKGPSK**GCPN**** **VPPEVRRVMA** **ESLNRTVKGV** **KAMQPEEIRR**
 201 FMKAENDWSP PKSDDYSLNQ HRIVKNE

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
4 - 11	829.3884	828.3811	828.4341	-64	1	K.KDPSPASK.T
40 - 54	1638.8859	1637.8786	1637.7760	63	0	K.YCGFVSSSGGITYLK.T
68 - 78	1252.6371	1251.6298	1251.6394	-8	1	K.GCPNVPEVKR.V
78 - 89	1505.7890	1504.7817	1504.7820	-0	1	K.RVMTEWLQGTIR.G Oxidation (M)
90 - 106	1914.9500	1913.9427	1913.9265	8	1	R.GVNAPQLEDIRTDMEAR.T
115 - 131	1833.9478	1832.9405	1832.9169	13	1	R.GRPLDAAWEHATPVDAK.R
117 - 131	1620.8763	1619.8690	1619.7944	46	0	R.PLDAAWEHATPVDAK.R
154 - 166	1234.6609	1233.6536	1233.6466	6	1	K.AHLAGGDPKGPSK.G
163 - 176	1493.7802	1492.7729	1492.7457	18	1	K.GPSKGCPCNVPEVVR.R
177 - 185	1075.6082	1074.6009	1074.5604	38	1	R.RVMAESLNR.T
178 - 185	919.4626	918.4553	918.4593	-4	0	R.VMAESLNR.T
189 - 199	1273.6407	1272.6334	1272.6496	-13	1	K.GVKAMQPEEIR.R Oxidation (M)
192 - 199	973.5543	972.5471	972.4698	79	0	K.AMQPEEIR.R
192 - 199	989.5195	988.5122	988.4648	48	0	K.AMQPEEIR.R Oxidation (M)
192 - 200	1129.6383	1128.6310	1128.5709	53	1	K.AMQPEEIRR.F

Spot No.: **79**

Mascot score: **81** Sequence coverage %: **32**

NCBI accession No.: **gi| 308799665**

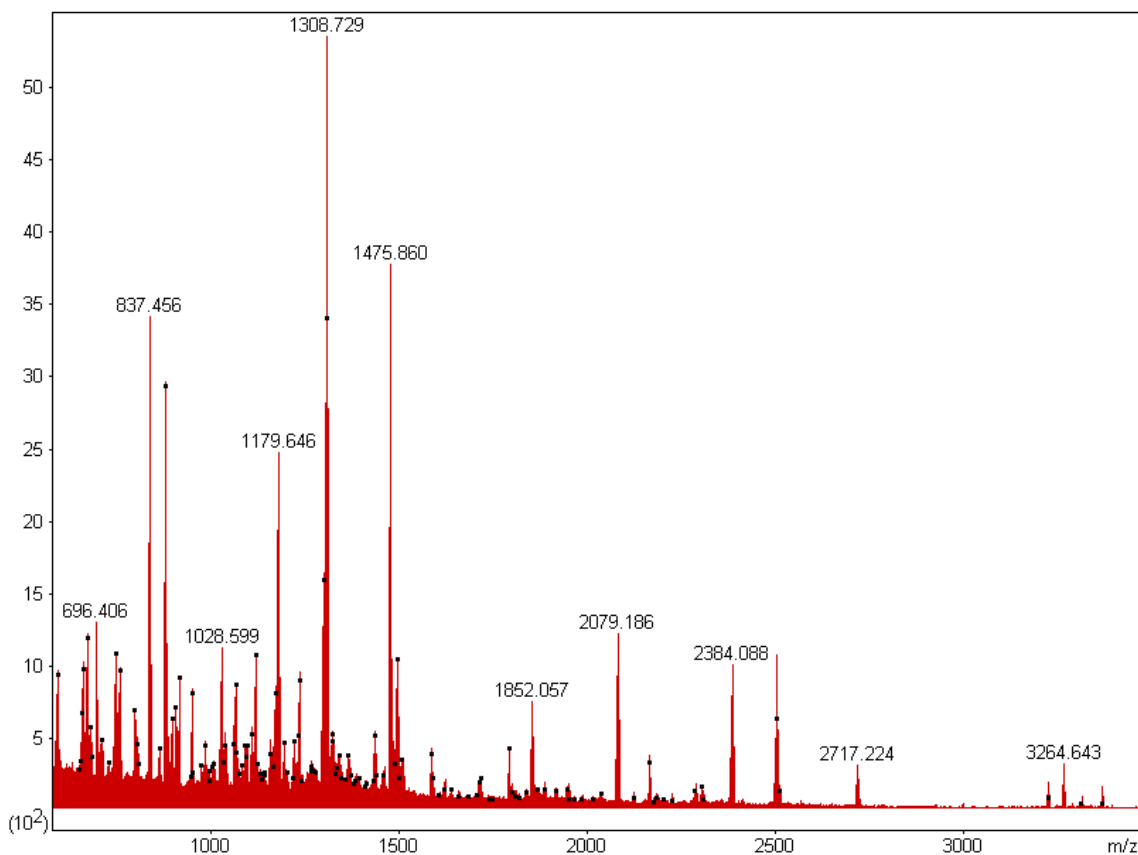
Matched peptides No.: **21**

Total peptides No.: **114**

Calculated Mr: **71166**

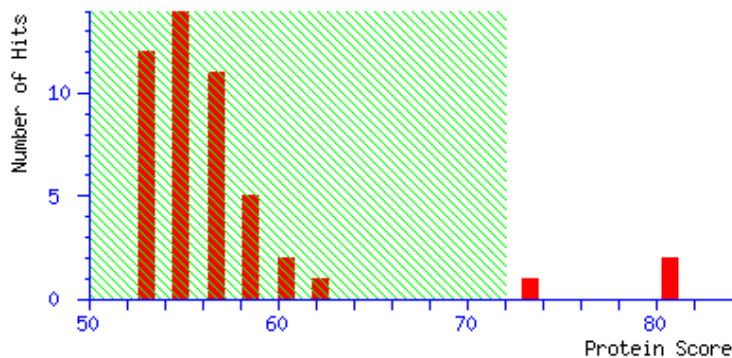
Calculated pI: **10.62**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 XHSVHTLTGF AHSVHTLTGF AHSVRTLTFG ARRVHTLTGF AHSVRTLTGF
51 VSRRVDGGRP RRRGGTPRAR RARTRRSDAA SRDAARGVVD ARDGDATWDR
101 GRTKRRRGAG TARTAATREE SGAVSGANDA DGNSDDSMEP IERKPFSVMR
151 WVTRTMLLG VVVRRLFAVV LVVCFSGALR VVGGIARNRF GRIGMMIGLA
201 LGAFGALRGV SARKMAAVKA APPTAMYSAF LKDLKAGRIS SVRFEEGSTR
251 LVDYDLKDVSA KSASASATAG RVRTTFQTKR LMGDLELMKK LEKAGVEFGA
301 VPAAVSRMAS RGMFTVLAMW LPIIPLIIIM RNAINRQQGG GGKKRKAAD
351 INEQNKVTFR DVAGVEDAKA ELFELVQIMK NSDKYKNVRG RLPSGCLLVG
401 PPGTGKTLLA RAVAGESGVS FFPVAASEFV ELFVGRGAAR VRELFAEARK
451 SQPAIIFIDE LDAVGSRRGA GLNEERDQTL NQLLVEMDGF SKDQSILILA
501 ATNRPDALDP ALLRPGRLTR RVFVGPPSQG GRAQILGVHL RGLDLEEDVD
551 VVCDVISRAT PGFTGAELAN VCNEAALLSV RDERQFVSID DLLDGVSRTK
601 DGIATSGNKA DAMFRELRSR FMGNYKDIPG SPGDVANGIK EKFGSKEKAQ
651 GVPISMGPS

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
46 - 54	1036.5401	1035.5328	1035.5825	-48	1	R.TLTGFVSRR.V
145 - 155	1393.7775	1392.7702	1392.7336	26	1	K.PFSVMRWVTR.T Oxidation (M)
156 - 164	1003.5595	1002.5522	1002.5896	-37	0	R.TMLLGVVVR.R Oxidation (M)
156 - 165	1143.5921	1142.5848	1142.6958	-97	1	R.TMLLGVVVR.L
193 - 208	1591.0104	1590.0031	1589.8786	78	0	R.IGMMIGLALGAFGALR.G
215 - 232	1868.0297	1867.0224	1866.9736	26	1	K.MAAVKAAPPTAMYS AF LK.D
220 - 232	1383.7435	1382.7362	1382.6904	33	0	K.AAPPTAMYS AF LK.D Oxidation (M)
233 - 238	659.3881	658.3808	658.3762	7	1	K.DLKAGR.I
262 - 271	878.4961	877.4888	877.4253	72	0	K.SASASATAGR.V
281 - 289	1065.5437	1064.5364	1064.5246	11	0	R.LMGDLELMK.K Oxidation (M)
294 - 311	1791.8549	1790.8476	1790.9097	-35	1	K.AGVFVGAV PA AVSRMASR.G Oxidation (M)
347 - 356	1130.5554	1129.5481	1129.5727	-22	1	K.KAADINEQNK.V
370 - 380	1320.6845	1319.6772	1319.7159	-29	0	K.AELFELVQIMK.N
385 - 389	679.3696	678.3623	678.3813	-28	1	K.YKNVR.G
441 - 449	1090.5648	1089.5575	1089.5931	-33	1	R.VRELFAEAR.K
477 - 492	1838.0674	1837.0601	1836.8928	91	0	R.DQTLNQLLVEMDGF SK .D
522 - 532	1171.6734	1170.6661	1170.6146	44	0	R.VFVGP PS QGR.A
533 - 541	1006.5229	1005.5156	1005.6083	-92	0	R.AQILGVHLR.G
601 - 609	862.4420	861.4347	861.4192	18	0	K.DGIATSGNK.A
627 - 640	1339.6878	1338.6805	1338.6779	2	0	K.DIPGS PGD VANGIK.E
647 - 659	1300.6178	1299.6105	1299.6493	-30	1	K.EKAQ GVPI SMG PS .-

Spot No.: **80**

Mascot score: **203** Sequence coverage %: **39**

NCBI accession No.: **gi| 157336951**

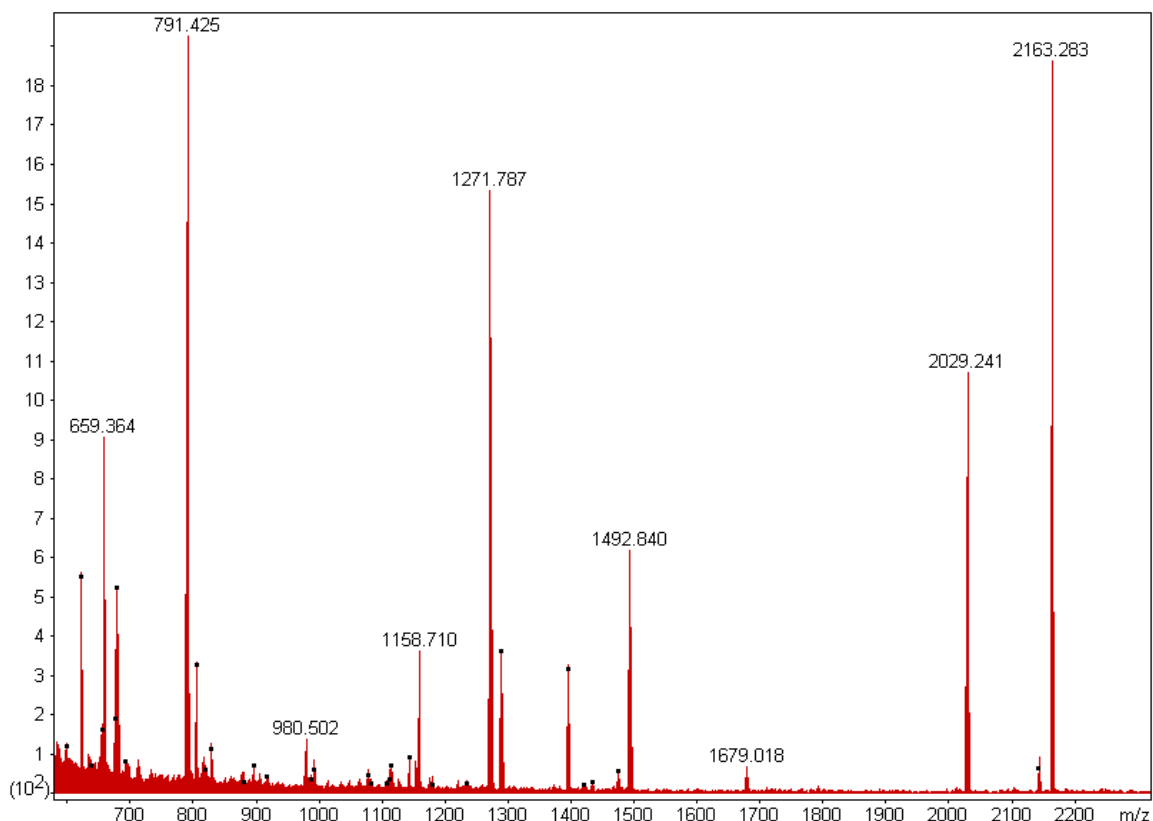
Matched peptides No.: **17**

Total peptides No.: **31**

Calculated Mr: **47196**

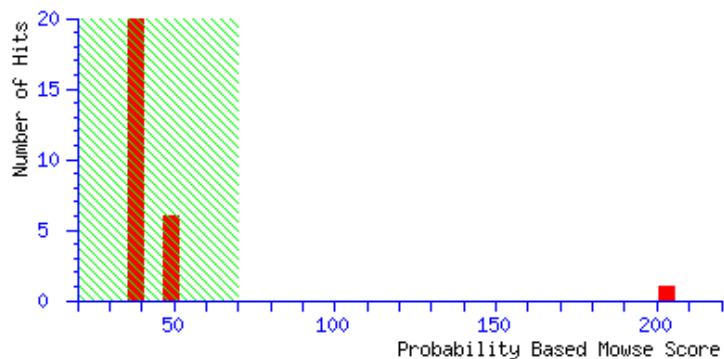
Calculated pI: **5.42**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAVVLEPKPS SEPPPSFPST RSDIQGFSQ SSSFSDEDDL YGRLKSLQRQ
51 LEFIDIQEEY VKDEQKNLKR ELLRAQEEVK RIQSVPLVIG QFMEMVDQNN
101 GIVGSTTGSN YYVRILSTIN **RELLKPSASV ALHRHSNALV** DVLPPPEADSS
151 ISLLSQSEKP DVTYNDIGGC DIQKQEIREA **VELPLTHHEL YKQIGIDPPR**
201 **GVLLYGPPGT GKTMLAKAVA NHTTAAFIRV VGSEFVQKYL GEGPRMVRDV**
251 FRLAKENAPA **IIFIDEVDAL ATARFDAQTG ADREVQRILM** ELLNQMDGFD
301 QTVNVKVIMA **TNRADTLDPAL LRPGRLLDRK IEFPLPDRRQ** KRLVFQVCTA
351 KMNLSDEVDL EDYVSRPDKI **SAAEIAAICQ EAGMHAVRKN** RYVILPKDFE
401 KGYRTNVKPK **DTDFEFYK**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
122 - 134	1420.9554	1419.9481	1419.8198	90	0 R.ELLKPSASVALHR.H
179 - 192	1679.0177	1678.0104	1677.8726	82	0 R.EAVELPLTHHELYK.Q
193 - 200	895.4890	894.4818	894.4923	-12	0 K.QIGIDPPR.G
201 - 212	1158.7103	1157.7030	1157.6445	51	0 R.GVLLYGPPGTGK.T
218 - 229	1271.7867	1270.7794	1270.6782	80	0 K.AVANHTTAAFIR.V
230 - 238	992.5735	991.5662	991.5339	33	0 R.VVGSEFVQK.Y
239 - 245	791.4250	790.4177	790.3973	26	0 K.YLGEGPR.M
256 - 274	2029.2409	2028.2336	2028.0527	89	0 K.ENAPAIIFIDEVDALATAR.F
275 - 283	980.5018	979.4945	979.4359	60	0 R.FDAQTGADR.E
275 - 287	1492.8399	1491.8326	1491.7066	84	1 R.FDAQTGADREVQR.I
307 - 313	820.4229	819.4156	819.4273	-14	0 K.VIMATNR.A Oxidation (M)
314 - 326	1394.8818	1393.8745	1393.7677	77	0 R.ADTLDPALLRPGR.L
330 - 338	1114.7099	1113.7026	1113.6182	76	1 R.KIEFPLPDR.R
331 - 338	986.5401	985.5328	985.5233	10	0 K.IEFPLPDR.R
331 - 339	1142.6831	1141.6758	1141.6244	45	1 K.IEFPLPDRR.Q
370 - 389	2142.2002	2141.1929	2141.0721	56	1 K.ISAAEIAAICQEAGMHAVRKN Oxidation (M)
409 - 418	1289.6973	1288.6900	1288.5976	72	0 K.KPDTDFEFYK.-

Spot No.: **81**

Mascot score: **172** Sequence coverage %: **43**

NCBI accession No.: **gi| 312281677**

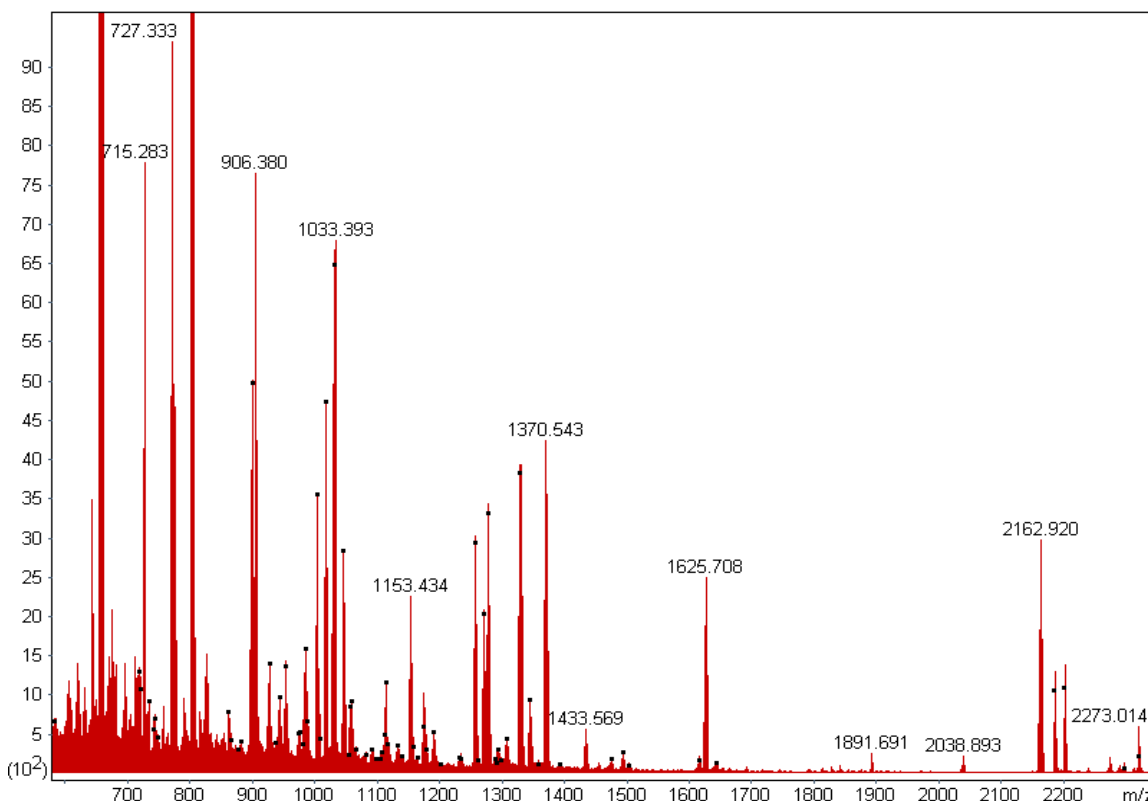
Matched peptides No.: **26**

Total peptides No.: **73**

Calculated Mr: **57475**

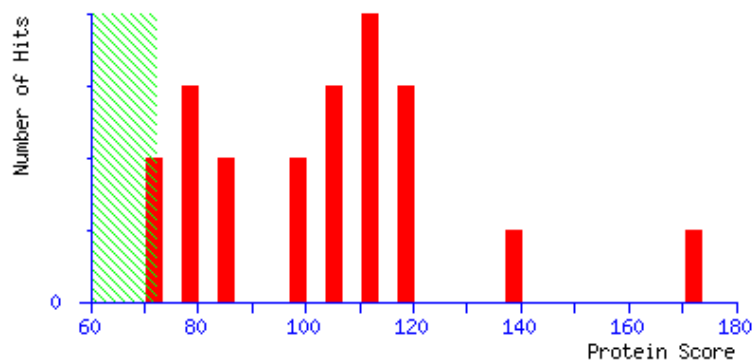
Calculated pI: **6.24**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASMAAIGAL KVPAASCSDS TRIVTEAVPA RTLSFSSSVG LSDEKLSLRA
51 TVSRRESVA RGRVRNPMIV SPKAVSDSQN SQTCLDPDAS RSVLGIILGG
101 GAGTRLYPLT KKRAKPAVPL GANYRLIDIP VSNCLNSNIN KIYVLTQFNS
151 ASLNRHLSRA YATNMGGYKN EGFVEVLAAQ QSPENPNWFQ GTADAVRQYL
201 WLFEEHNVLE YLILAGDHLY RMDYEKFIQA HRETDADITV AALPMDEERA
251 TAFGLMKIDE EGRIVEFAEK PKGEQLKAMK VDTTILGLDD KRAKEMPYIA
301 SMGIYVSKD VMLELLRNTF PGANDFGSEV IPGATSLGLR VQAYLYDGYW
351 EDIGTIEAFY NANLGITKKP VPDFSFYDRS APIYTPRYL PPSKMLDADV
401 TDSVIGEGCV IKNCKIHHSV VGLRSCISEG AIIEDSLLMG ADYYETASEK
451 SLLTAKGSVP IGIGKSSHIK RAIDKNARI GDNVKIINSD NVQEAARETE
501 GYFIKSGIVT VIKDALIPTG TLI

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
92 - 105	1270.6042	1269.5969	1269.7405	-113	0	R.SVLGIILGGGAGTR.L
106 - 111	734.3071	733.2999	733.4374	-188	0	R.LYPLTK.K
106 - 112	862.2992	861.2919	861.5324	-279	1	R.LYPLTKK.R
114 - 125	1256.5662	1255.5589	1255.7037	-115	1	R.AKPAVPLGANYR.L
116 - 125	1057.4450	1056.4377	1056.5716	-127	0	K.PAVPLGANYR.L
142 - 155	1625.7078	1624.7005	1624.8573	-96	0	K.IYVLTQFNSASLNR.H
160 - 169	1091.3732	1090.3659	1090.4753	-100	0	R.YATNMGGYK.N Oxidation (M)
227 - 232	771.3355	770.3282	770.4187	-117	0	K.FIQAHR.E
233 - 249	1891.6908	1890.6835	1890.8517	-89	0	R.ETDADITVAALPMDEER.A Oxidation (M)
250 - 257	854.3034	853.2961	853.4368	-165	0	R.ATAFGLMK.I Oxidation (M)
258 - 263	718.2578	717.2505	717.3293	-110	0	K.IDEEGR.I
264 - 272	1060.4417	1059.4344	1059.5964	-153	1	R.IVEFAEKPK.G
281 - 292	1345.5819	1344.5746	1344.7249	-112	1	K.VDTTILGLDDKR.A
310 - 317	988.4052	987.3979	987.5423	-146	0	K.DVMLELLR.N
310 - 317	1004.4015	1003.3942	1003.5372	-142	0	K.DVMLELLR.N Oxidation (M)
318 - 340	2320.0447	2319.0374	2319.1495	-48	0	R.NTFPGANDFGSEVIPGATSLGLR.V
369 - 379	1370.5429	1369.5356	1369.6667	-96	1	K.KPVPDFSFYDR.S
380 - 388	1032.4244	1031.4171	1031.5400	-119	0	R.SAPIYTPRY.Y
416 - 424	1017.4799	1016.4726	1016.5880	-113	0	K.IHHSVVGLR.S
457 - 465	827.3362	826.3290	826.4913	-196	0	K.GSVPIGIGK.S
466 - 471	727.3334	726.3262	726.4137	-120	1	K.SSHIKR.A
471 - 476	715.2835	714.2762	714.4388	-228	1	K.RAIDK.N
472 - 479	900.4063	899.3990	899.5188	-133	1	R.AIDKNAR.I
486 - 497	1329.5379	1328.5306	1328.6684	-104	0	K.IINSDNVQEAAR.E
498 - 505	986.3837	985.3764	985.4756	-101	0	R.ETEGYFIK.S
506 - 513	816.3540	815.3468	815.5117	-202	0	K.SGIVTVIK.D

Spot No.: **82**

Mascot score: **87** Sequence coverage %: **25**

NCBI accession No.: **gi| 168054422**

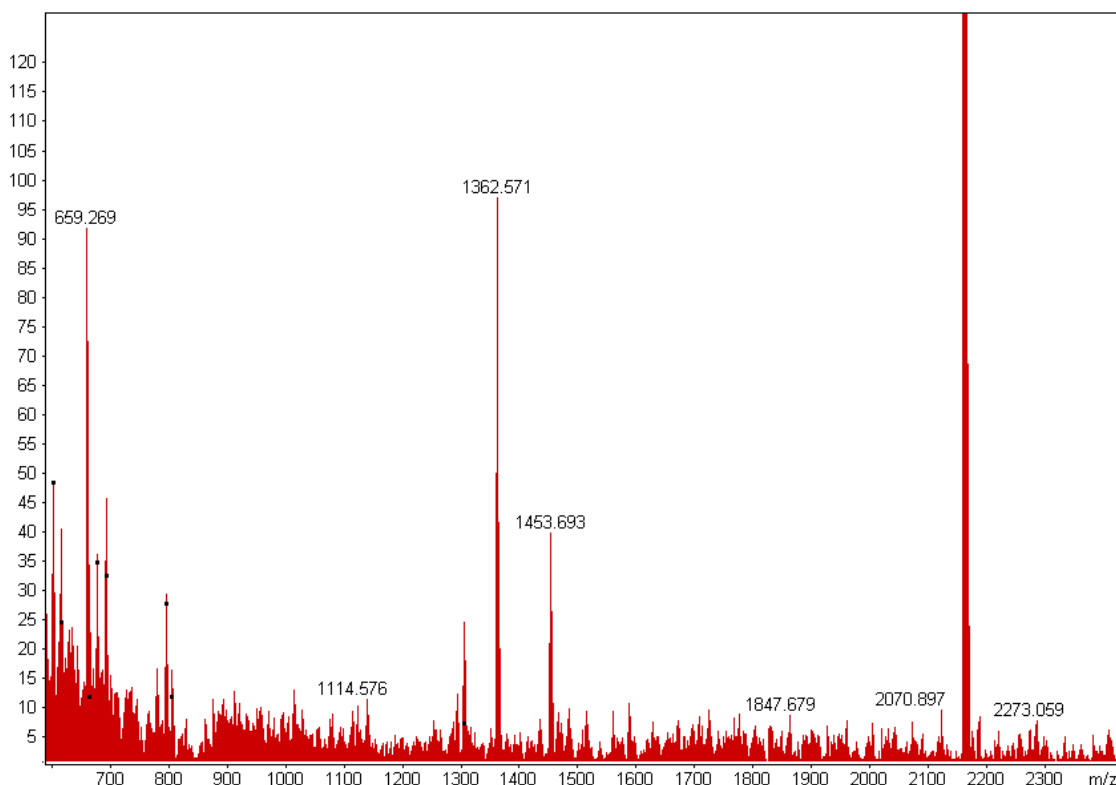
Matched peptides No.: **5**

Total peptides No.: **17**

Calculated Mr: **13541**

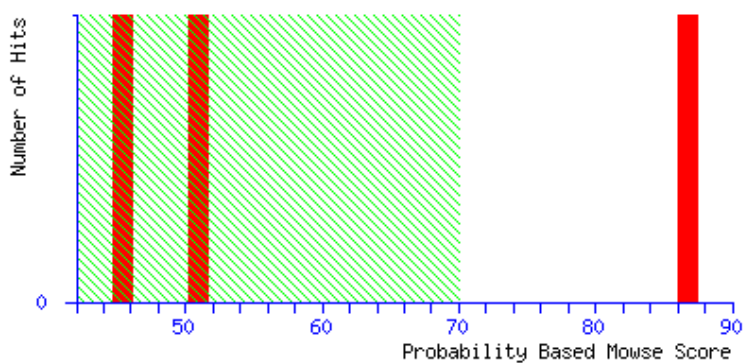
Calculated pI: **5.36**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MDSQEIDTMP VRLSQPTSSR RRPRDEEPPV PRRRRRILSN RSLVIVFESE
51 PAYDGQLEGI FAGQFHNET EVHAWSEVEG VGHYRWLQGP VNYLPREQQL
101 EFIADVMPQI FIFLR

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 12	1453.6930	1452.6857	1452.6225	44	0	-.MDSQEIDTMPVR.L 2 Oxidation (M)
2 - 12	1306.6153	1305.6080	1305.5871	16	0	M.DSQEIDTMPVR.L Oxidation (M)
2 - 20	2162.9783	2161.9710	2162.0274	-26	1	M.DSQEIDTMPVRLSQPTSSR.R Oxidation (M)
21 - 24	584.3655	583.3582	583.3666	-14	1	R.RRPR.D
37 - 41	602.3414	601.3341	601.3547	-34	0	R.ILSNR.S

Spot No.: **83**

Mascot score: **93** Sequence coverage %: **27**

NCBI accession No.: **gi| 312281815**

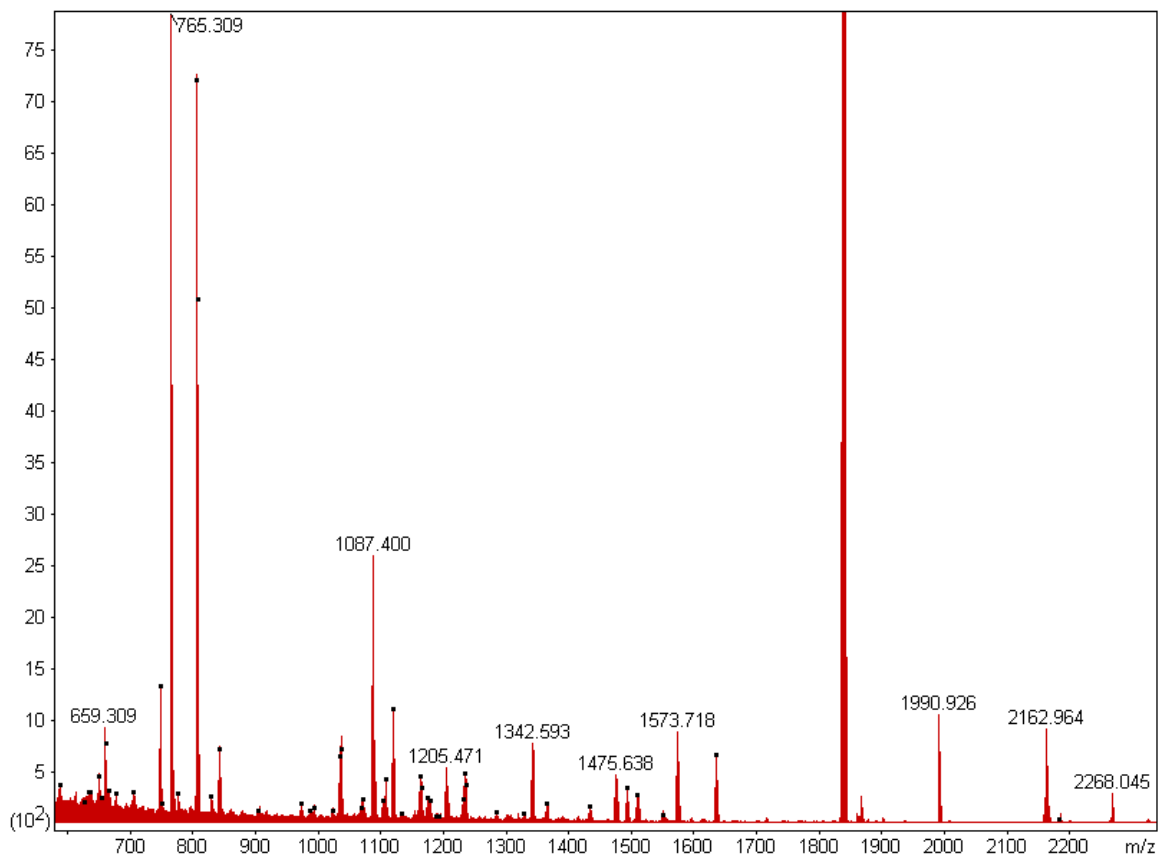
Matched peptides No.: **13**

Total peptides No.: **29**

Calculated Mr: **47893**

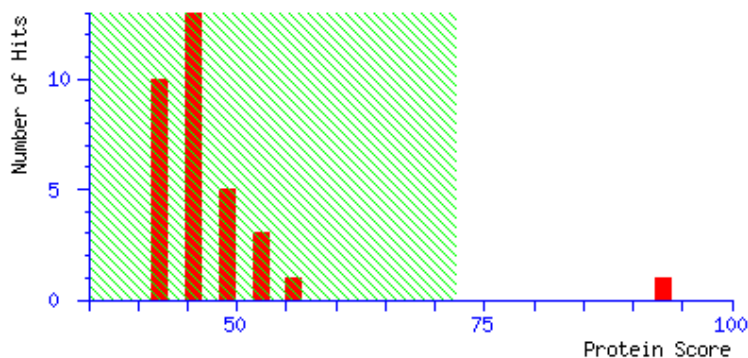
Calculated pI: **5.55**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MATITHVKAR QIFDSSRGNPT VEVDVHTSTG VQVRAAVPSG ASTGIYEALE
51 LRDGGS DYLG KGVSKAVGNV NSIIGPALIG KDPTQQTAID NFMVHELDGT
101 QNEGWCKQK LGANAILAVS LAVCKAGAVV SGIPLYKHIA NLAGNPKLVL
151 PVPAFNVI NG GSHAGNKLAM QEFMILPVGA SSFKEAMKMG VEVYHNLKSV
201 IKKKYQDAT NVGDEGGFAP NIQENKEGLE LLKTAIEKAG YTGKVVIGMD
251 VAASEFYSSD KTYDLNFKEE NMSGSEKISG EALKDLYKSF VAEYPIVSIE
301 DPFQDDWEH YAKMTGECGE KVQIVGDDLL VTNPKRVAKA ISEKSCNALL
351 LKVNQIGSVT ESIEAVKMSK RAGWGMASH RSGETEDTFI ADLSVGLSTG
401 QIKTGAPCRS ERLAKYNQLL RIEEELGAEA VYAGANFRTP VEPY

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
11 - 16	765.3091	764.3019	764.3817	-104	0	R. QIFDS .G
126 - 137	1174.5424	1173.5351	1173.6758	-120	0	K. AGAVVSGIPLYK .H
138 - 147	1034.4379	1033.4306	1033.5668	-132	0	K. HIANLAGNPK .L
189 - 198	1189.4716	1188.4643	1188.5961	-111	0	K. MGVEVYHNLK .S
189 - 198	1205.4707	1204.4634	1204.5910	-106	0	K. MGVEVYHNLK .S Oxidation (M)
353 - 367	1573.7179	1572.7106	1572.8359	-80	0	K. VNQIGSVTESIEAVK .M
372 - 381	1071.3973	1070.3900	1070.5080	-110	0	R. AGWGMASHR .S
372 - 381	1087.3997	1086.3924	1086.5029	-102	0	R. AGWGMASHR .S Oxidation (M)
382 - 403	2268.0449	2267.0376	2267.1169	-35	0	R. SGETEDTFIADLSVGLSTGQIK .T
404 - 409	661.2507	660.2434	660.3013	-88	0	K. TGAPCR .S
416 - 421	806.3685	805.3612	805.4446	-104	0	K. YNQLLR .I
422 - 438	1838.7661	1837.7588	1837.8846	-68	0	R. IEEELGAEAVYAGANFR .T
439 - 444	705.2303	704.2230	704.3381	-163	0	R. TPVEPY .-

Spot No.: **84**

Mascot score: **162** Sequence coverage %: **26**

NCBI accession No.: **gi| 15223186**

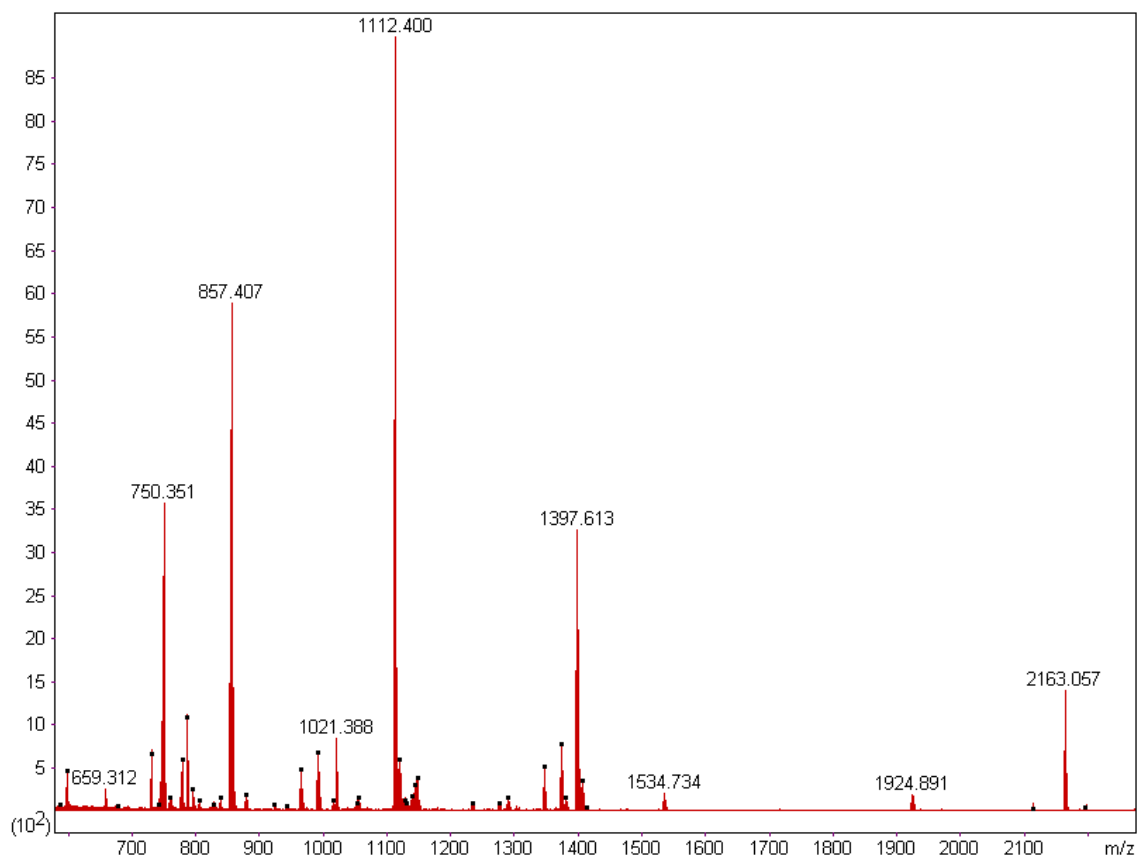
Matched peptides No.: **16**

Total peptides No.: **34**

Calculated Mr: **53980**

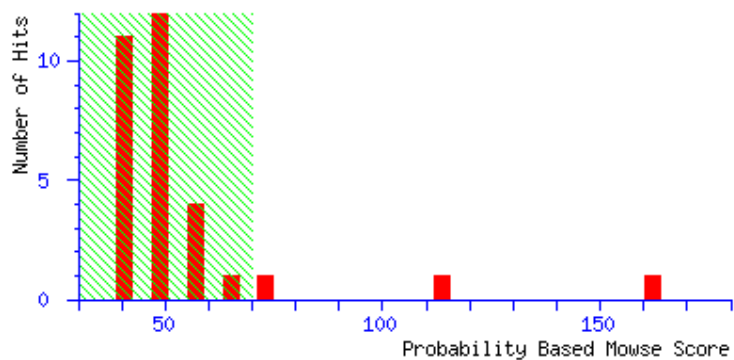
Calculated pI: **6.21**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MSLKALDYES LNENVKNCQY AVRGELYLRA SELQKEGKKI IFTNVGNPHA
51 LGQKPLTFPR QVVS LCQAPF LLDDPNVGM I FPADAIARAK HYL SLTSGGL
101 GAYSDSRGLP GVRKEVAEFI ERRDGYPSDP ELIFLTDGAS KGVMQILNCV
151 IRGQKDGILV PVPQYPLYS A TISLLGGTLV PYYLEESENU GLDVMNLRQS
201 VAQARSQGIT VRAMVIINPG NPTGQCLSEA NIREILRFCC DERLVLLGDE
251 VYQONIYQDE RPFISSKKVL MDMGAPISKE VQLISFHTVS KGYWGECGQR
301 GGYFEMTNIP PRTVEEIIYKV ASIALSPNVS AQIFMGLMVS PPKPGDISYD
351 QFVRESKGIL ESLRRRARM TDGFNSCKNV VCNFTEGAMY SFPQIKLPSK
401 AIQAAKQAGK VPDVFYCLKL LEATGISTVP GSGFGQKEGV FHLRTTILPA
451 EEEMPEIMDS FKKFNDEFMS QYADNFGYSR M

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
24 - 29	750.3506	749.3433	749.4072	-85	0 R.GELYLR.A
24 - 35	1406.6264	1405.6191	1405.7565	-98	1 R.GELYLRASELQK.E
108 - 113	598.3033	597.2960	597.3598	-107	0 R.GLPGVR.K
114 - 122	1120.5439	1119.5366	1119.5924	-50	1 R.KEVAEFIER.R
115 - 122	992.4408	991.4335	991.4974	-64	0 K.EVAEFIER.R
115 - 123	1148.5470	1147.5397	1147.5985	-51	1 K.EVAEFIERR.D
124 - 141	1924.8911	1923.8838	1923.9102	-14	0 R.DGYPSDPELIFLTDGASK.G
199 - 205	759.3482	758.3409	758.4035	-83	0 R.QSVAQAR.S
234 - 243	1397.6129	1396.6056	1396.6227	-12	1 R.EILRFCCDER.L
292 - 300	1112.3997	1111.3924	1111.4505	-52	0 K.GYWGECGQR.G
301 - 312	1381.6232	1380.6159	1380.6496	-24	0 R.GGYFEMTNIPPR.T
358 - 364	787.3918	786.3846	786.4599	-96	0 K.GILESLR.R
358 - 365	943.4657	942.4584	942.5610	-109	1 K.GILESLRR.R
411 - 419	1140.4852	1139.4779	1139.5685	-80	0 K.VPDVFYCLK.L
438 - 444	857.4066	856.3993	856.4555	-66	0 K.EGVFHLR.T
445 - 462	2112.9671	2111.9598	2111.9642	-2	0 R.TTILPAEEEMPEIMDSFK.K 2 Oxidation (M)

Spot No.: **85**

Mascot score: **125** Sequence coverage %: **19**

NCBI accession No.: **gi| 68655456**

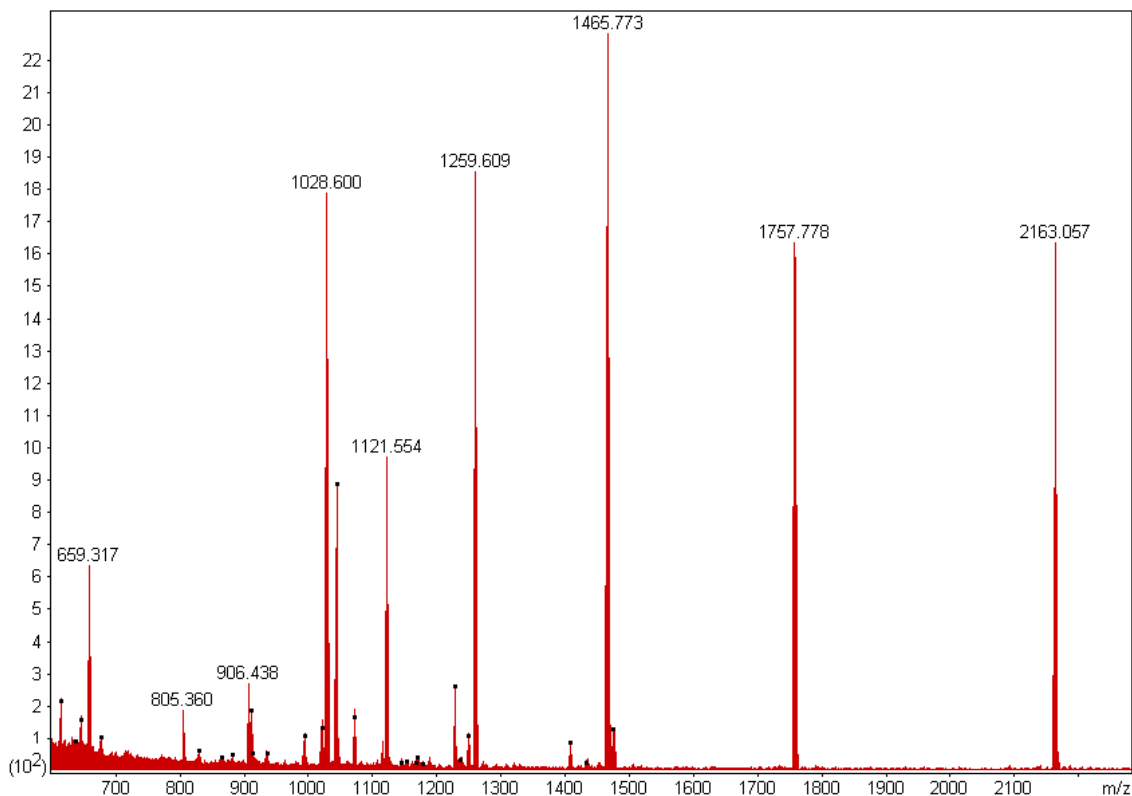
Matched peptides No.: **11**

Total peptides No.: **21**

Calculated Mr: **49960**

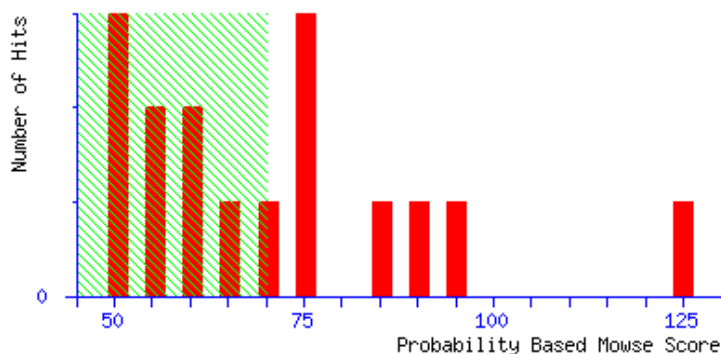
Calculated pI: **5.81**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MPGLMACRTE FGPSQPFKGA RISGSLHMTI QTAVLIETLT ALGAEVRWCS
51 CNIFSTQDHA AAAIARDSAA VFAWKGETLE EYWWCTERCL DWGAGGGPDL
101 IVDDGGDATL LIHEGVKAAE EFEKSGKVPD PESTDNPEFK IVLTIIRDGL
151 KTDASKYRKM KERLVGVSEE TTTGVKRLYQ MQESGTLFP AINVNDSVTK
201 SKFDNLYGCR HSLPDGLMRA TDVMIAGKVA VVCGYGDVVK GCAAALKQAG
251 ARVIVTEIDP ICALQALMEG IQILTLEDVV SEADIFVTTT GNKDIDMVDH
301 MRKMKNNAIV CNIGHFDNEI DMNGLETYPG VKRITIKPQT DRWVFPETKT
351 GIIVLAEGRL MNLGCATGHP SFVMSCSFTN QVIAQLELWN EKASGKYEKK
401 VVVLPHLDE KVAALHLGKL GARLTKLTKS QSDYISIPIE GPYKPAAYRY
451

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 8	935.4678	934.4605	934.4187	45	0	-.MPGLMACR.T
67 - 75	994.4772	993.4700	993.4920	-22	0	R.DSAAVFAWK.G
118 - 124	881.3795	880.3722	880.3814	-10	0	K.AEEEFEK.S
118 - 127	1153.5627	1152.5554	1152.5298	22	1	K.AEEEFEKSGK.V
164 - 177	1475.7631	1474.7558	1474.7991	-29	1	R.LVGVSEETTTGVKR.L
201 - 210	1259.6090	1258.6017	1258.5764	20	1	K.SKFDNLYGCR.H
203 - 210	1044.4684	1043.4611	1043.4495	11	0	K.FDNLYGCR.H
294 - 302	1145.5487	1144.5414	1144.5369	4	0	K.DIDMVDHMR.K Oxidation (M)
334 - 342	1071.5983	1070.5910	1070.6084	-16	0	R.ITIKPQDR.W
343 - 349	906.4379	905.4306	905.4647	-38	0	R.WVFPETK.T
350 - 359	1028.5998	1027.5925	1027.6026	-10	0	K.TGIIVLAEGR.L

Spot No.: **86**

Mascot score: **81** Sequence coverage %: **14**

NCBI accession No.: **gi| 30688330**

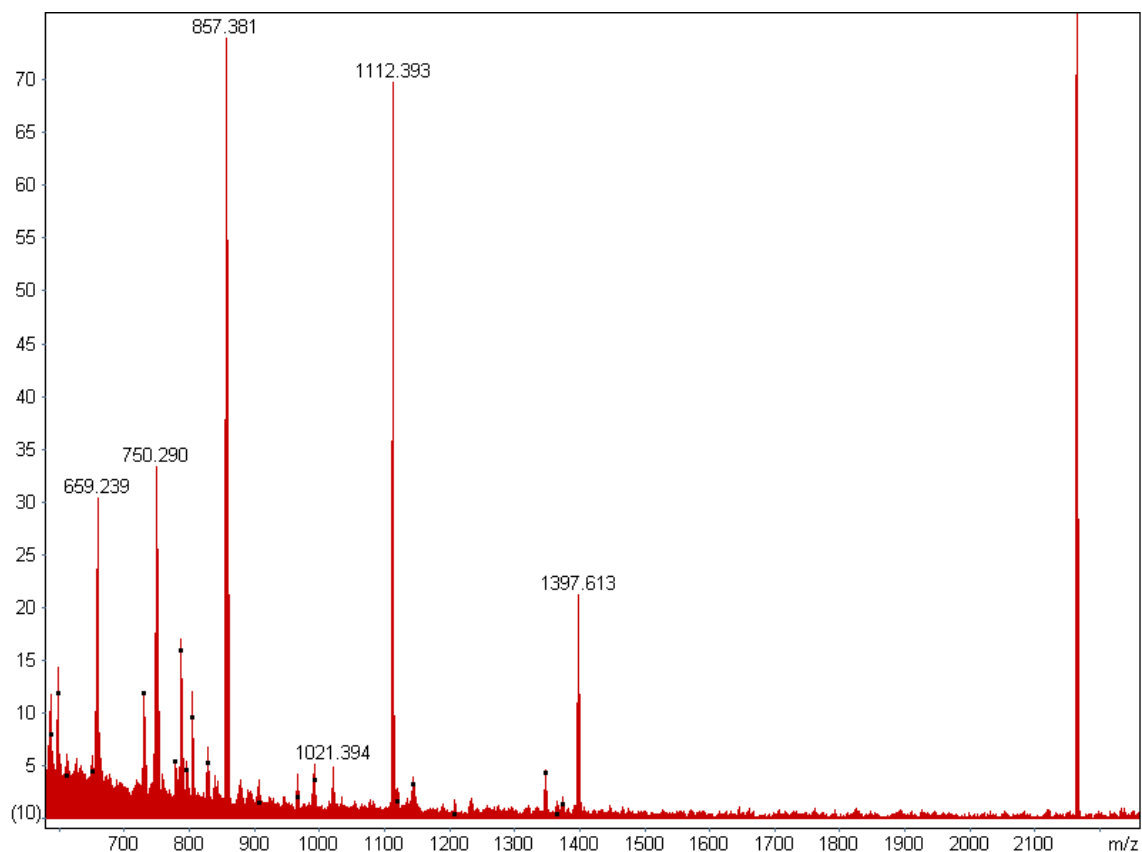
Matched peptides No.: **9**

Total peptides No.: **15**

Calculated Mr: **53780**

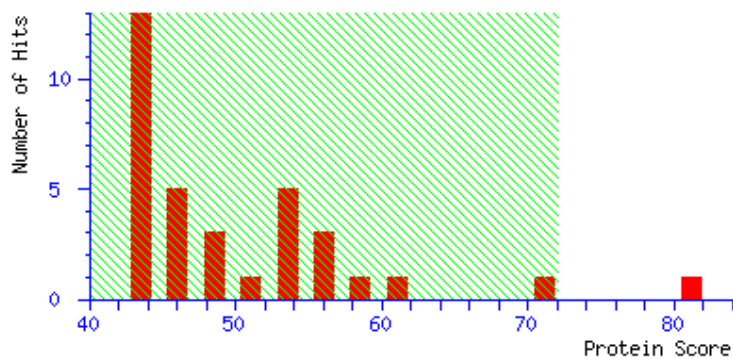
Calculated pI: **6.49**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MALKALDYDT LNENVKKCQY AVRGELYLRA SELQKEGKKI IFTNVGNPHA
51 LGQKPLTFPR QVVALCQAPF LLDDPNVGM LFPADAIARAK HYLSTSGGL
101 GAYSDSRGLP GVRKEVAEFI QRRDGYPSDP ELIFLIDGAS KGVMQILNCV
151 IRGNGDGILV PVPQYPLYSA TISLLGGTLV PYYLDESENW GLDVANLRQS
201 VAQARSQGIT VRAMVIINPG NPTGQCLSEA NIREILKFCY NEKLVLGDE
251 VYQQNIYQDE RPFISSKKVL MEMGSPFSKE VQLVSFHTVS KGYWGECGQR
301 GGYFEMTNLP PRVVEEIKV ASIALSPNVS AQIFMGLMVN PPKPGDISYD
351 QFARESKGIL ESLRRRARLM TDGFNSCKNV VCNFTEGAMY SFPQIRLPTG
401 ALQAAKQAGK VPDVIFYCLKL LEATGISTVP GSGFGQKEGV FHLRTTILPA
451 EDEMPEIMDS FKKFNDEFMT QYDNNFGYSK M

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
18 - 23	796.2213	795.2140	795.3698	-196	0	K.CQYAVR.G
24 - 29	750.2899	749.2826	749.4072	-166	0	R.GELYLR.A
55 - 60	730.3282	729.3209	729.4174	-132	0	K.PLTFPR.Q
108 - 113	598.2109	597.2037	597.3598	-261	0	R.GLPGVR.K
280 - 291	1373.6760	1372.6687	1372.7351	-48	0	K.EVQLVSFHTVSK.G
292 - 300	1112.3934	1111.3861	1111.4505	-58	0	K.GYWGE CGQR .G
301 - 312	1397.6131	1396.6058	1396.6445	-28	0	R.GGYFEMTNLPPR.V
358 - 364	787.3150	786.3078	786.4599	-193	0	K.GILESLR.R
438 - 444	857.3810	856.3737	856.4555	-96	0	K.EGVFHLR.T

Spot No.: **87**

Mascot score: **96** Sequence coverage %: **26**

NCBI accession No.: **gi| 30688330**

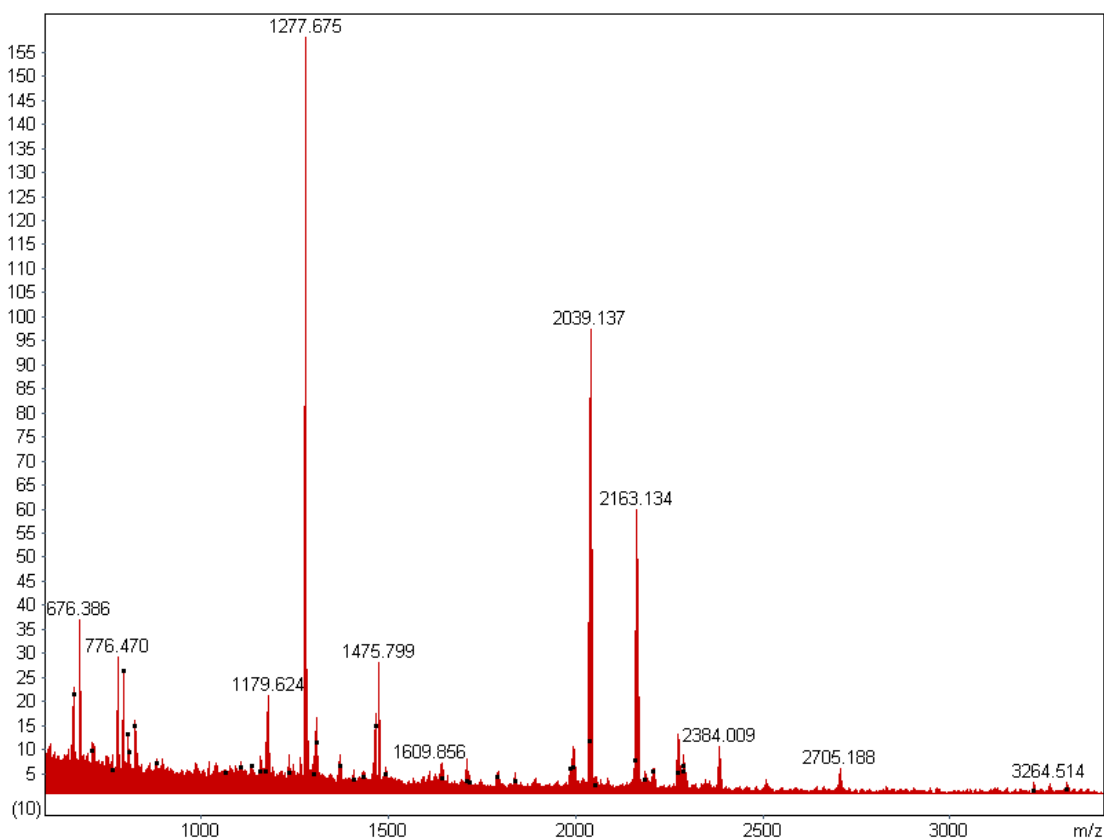
Matched peptides No.: **9**

Total peptides No.: **27**

Calculated Mr: **46598**

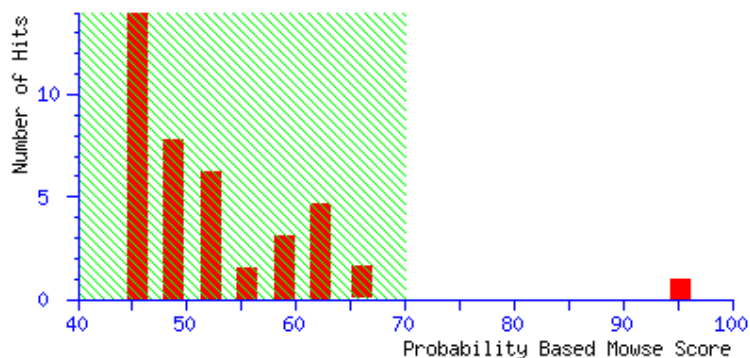
Calculated pI: **5.55**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MALVMHTYKG NKGANKALIA AEYAGVKIEE SADFMQGVIN KSPEFLKMP
51 IGVLPVLETP EGPIFESNAI ARYVSRKNGD NSLNGSSLIE YAHIEQWIDF
101 SSLEIDANML KWFAPRMGYA PFSAPAEAAA ISALKRGLA LNTHLASNTF
151 LVGHSVTLAD IVTICNLNLG FATVMTKKFT SAFPHVERYF WTMVNOPEFK
201 KVLGDAKQTE AVPPVPTKKA POPAKPKEEP KKAAPVAEAP KPAEEEEAPK
251 PKAKNPLDLL PPSPMVLDDW KRLYSNTKSN FREVAIKGFW DMYDPEGYSL
301 WFCDYKYNDE NMVSFVTLNK VGGFLQRMDL ARKYSFGKML ICGSEGPFKV
351 KGLWLFGRPE IPKFIMDEVY DMELYEWTKV DISDEAQKER VSQMIEDAEP
401 FEGEALLDAK CFK

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 12	1277.6751	1276.6678	1276.6598	6	1	M.ALMHTYKGNK.G Oxidation (M)
13 - 27	1475.7990	1474.7917	1474.8143	-15	1	K.GANKALIAEYAGVK.I
28 - 47	2286.2870	2285.2797	2285.0885	84	1	K.IEESADFMQGVINKSPEFLK.M Oxidation (M)
48 - 53	659.3788	658.3715	658.3472	37	0	K.MNPICK.V
54 - 72	2039.1368	2038.1295	2038.0735	27	0	K.VPVLETPEGPIFESNAIAR.Y
112 - 116	676.3860	675.3787	675.3493	44	0	K.WFAPR.M
321 - 327	776.4695	775.4622	775.4341	36	0	K.VGGFLQR.M
352 - 357	791.4821	790.4749	790.4490	33	0	K.GLWLF.R
391 - 410	2208.1152	2207.1079	2207.0303	35	0	R.VSQMIEDAEPFEGEALLDAK.C Oxidation (M)

Spot No.: **88**

Mascot score: **83** Sequence coverage %: **40**

NCBI accession No.: **gi| 76782076**

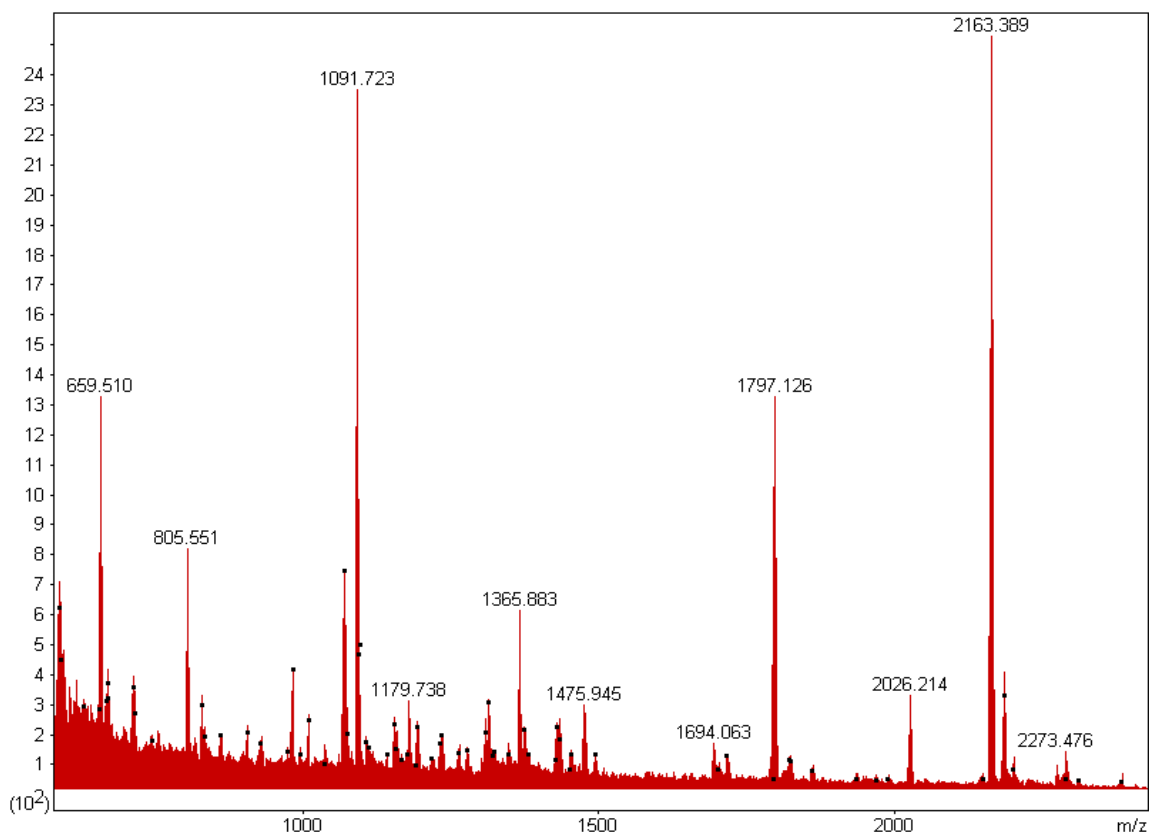
Matched peptides No.: **9**

Total peptides No.: **61**

Calculated Mr: **19172**

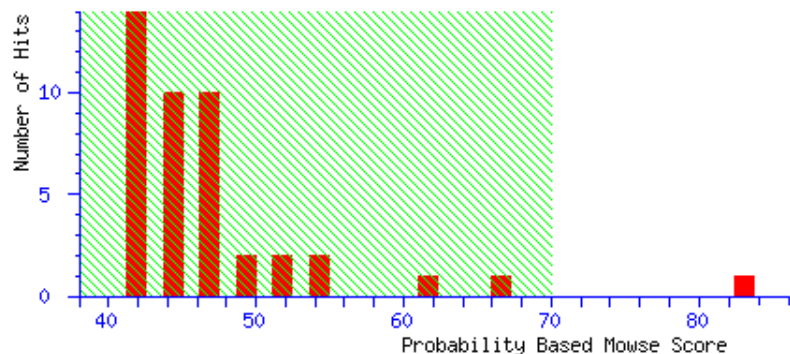
Calculated pI: **5.70**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MQALALRALA VKSPINATLP CWRLPERXAL** ISTHTXPAAS YNISRSVHAS
51 **QEELSDSQSA MDAHK**KADAE** AGAK**TFHSDR** DDMADSEFGDA YSTRSSDEGF**
101 **GQRYTEHIKC GPALSEGAEA TVERDADPHV EVRREYDESQ** GSEVREKEKA
151 RHATEHTAFL AHNRPTRGV GGTAT

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
2 - 7	671.3785	670.3712	670.4126	-62	0	M.QALALR.A
2 - 12	1153.7147	1152.7074	1152.7342	-23	1	M.QALALRALAVK.S
8 - 23	1797.1264	1796.1191	1795.9767	79	1	R.ALAVKSPINATLPCWR.L
13 - 23	1314.8304	1313.8231	1313.6550	128	0	K.SPINATLPCWR.L
66 - 74	860.5463	859.5390	859.4399	115	1	K.KADAEAGAK.T
67 - 80	1475.9452	1474.9379	1474.6801	175	1	K.ADAEAGAKTFHSDR.D
75 - 94	2310.4357	2309.4284	2308.9291	216	1	K.TFHSDRDDMADSEFGDAYSTR.S Oxidation (M)
95 - 103	982.6394	981.6322	981.4152	221	0	R.SSEDEGFGQR.Y
125 - 134	1193.7383	1192.7310	1192.5949	114	1	R.DADPHVEVRR.E

Spot No.: **89**

Mascot score: **96** Sequence coverage %: **20**

NCBI accession No.: **gi| 116787113**

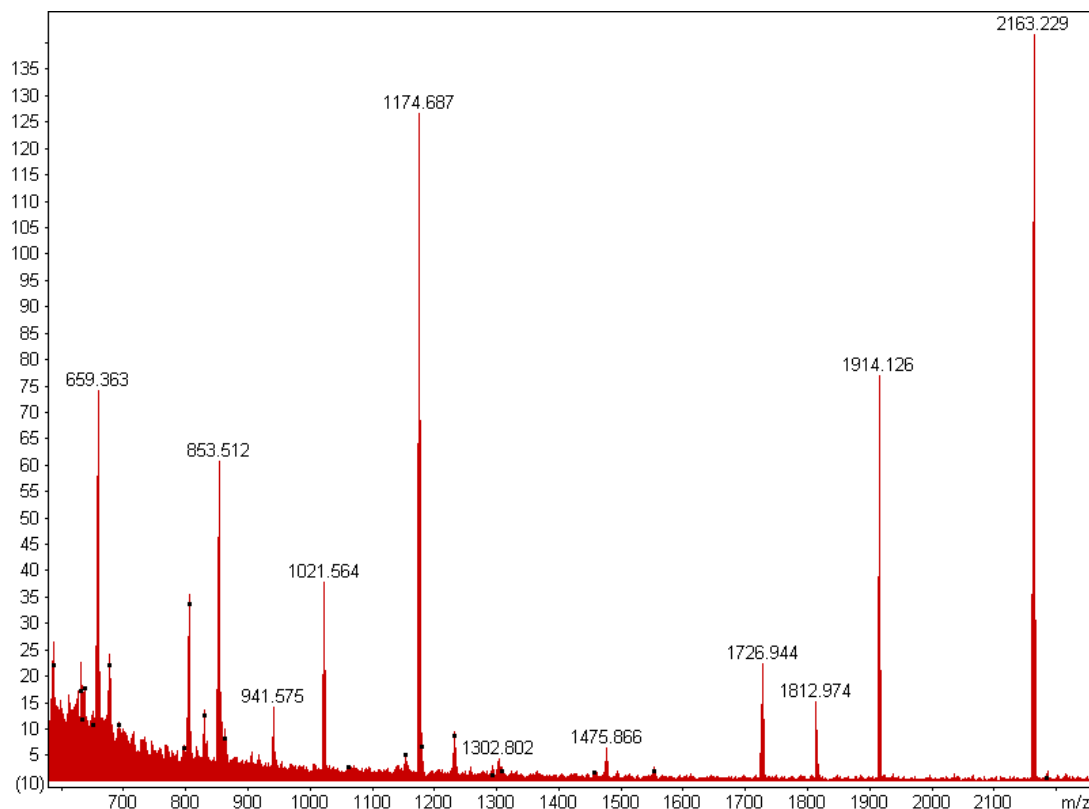
Matched peptides No.: **10**

Total peptides No.: **22**

Calculated Mr: **53356**

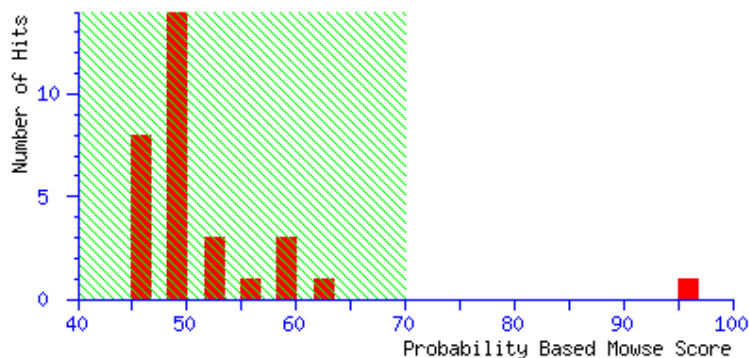
Calculated pI: **5.66**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

 1 MAAAAAVASP AVETDQISKL QAEVTKLNQI SDNEKIGFVR LVSRHLSGEE
 51 ERIEWKIKT PTDEVVVPYD TMAAVGEDPL ETKQLLDKLV VLKLNGLGT
101 TMGCTGPKSV IEVRNGLTFL DLIVKQIESL MNKYDSRVPL VLMNSFNTHD
151 DTIKIVEKYS RSNIDIHIFN QSQYPRLVEE DLTPWPTKGR TDKEGWYPPG
201 HGDVFPALLN SGKLGELLSQ GKEYVFIANS DNLGAIVDLK ILNHMVKNKN
251 EYCMVTPKT LADVKGGTLI SYEGRVQLE IAQVPKEHVG EFKSIEKFKI
301 FNTNWLWNL KAIKRLVEAD ALKMEIIPNP KEVDGVKVLQ LETAAGAAIR
351 FFYRAIGVNV PRSRFLPVKA TSDLLLVSQSD LYTVEEGFVI RNPARVNPAN
401 PSIELGPEFK KVGNFLKRFK SIPSIIDLDS LKVSQDVWFG SEIILKGVK
451 VEAQGGKLE IPDESVIENK VVSNLEDIAN

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
27 - 35	1060.5698	1059.5625	1059.5196	40	0	K.LNQISDNEK.I
94 - 114	2163.2293	2162.2220	2162.0824	65	1	K.LNGLGTTMGCTGPKSVIEVR.N Oxidation (M)
115 - 125	1232.6503	1231.6430	1231.7176	-61	0	R.NGLTFLDLIVK.Q
250 - 265	1914.1257	1913.1184	1912.8910	119	1	K.NEYCMVTPKTLADV.K Oxidation (M)
287 - 297	1302.8018	1301.7945	1301.6615	102	1	K.EHVGEFKSIEK.F
300 - 311	1475.8665	1474.8592	1474.7932	45	0	K.IFNTNWLWNLK.A
324 - 331	941.5747	940.5674	940.5052	66	0	K.MEIIPNPK.E
351 - 354	632.3148	631.3076	631.3118	-7	0	R.FFYR.A
411 - 417	805.4198	804.4125	804.4858	-91	1	K.KVGNFLK.R
412 - 417	677.3244	676.3171	676.3908	-109	0	K.VGNFLK.R

Spot No.: **90**

Mascot score: **93** Sequence coverage %: **23**

NCBI accession No.: **gi| 15234354**

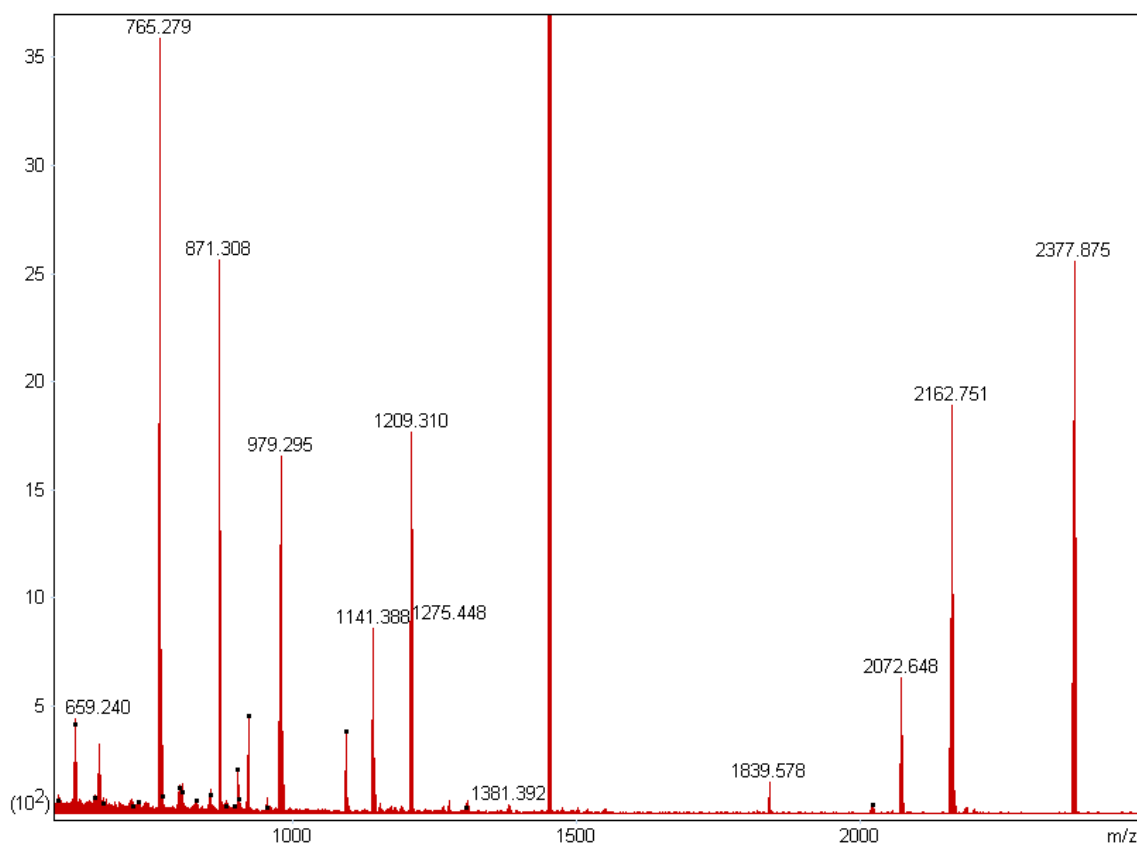
Matched peptides No.: **8**

Total peptides No.: **19**

Calculated Mr: **43627**

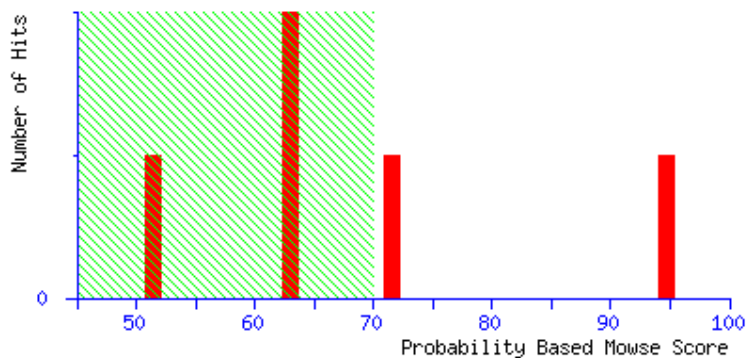
Calculated pI: **5.67**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 METFLFTSES VNEGHPDKLC DQISDAVLDA CLEQDPDSKV ACETCTKTNM
51 VMVFGEITTK ATIDYEKIVR DTCR**SIGFIS** **DDVGLDADKC** KVLVNIEQQS
101 PDIAQGVHGH FTKRPEDIGA GDQGHMFGYA TDETPELMPL SHVLATKIGA
151 **RLTEVR**KNGT CR**WLRPDGKT** QVTVEYYNDM GAMVPVR**VHT** **VLISTQHDET**
201 **VTNDEIAR**DL KEHVIKPIIP EKYLDDK**TIF** **HLNPSGRFVI** **GGPHGDAGLT**
251 **GRKIIIDTYG** GWGAHGGGAF SGKDPTKVDR **SGAYIVR**QAA KSVVANGMAR
301 RALVQVSYAI GVPEPLSVFV DTYGTGLIPD KEILKIVKET FDFRPGMMTI
351 NLDLKRGGNG RFQK**TAAYGH** **FGRDDPDFTW** EVVKPLKWDK PQA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
75 - 91	1839.5784	1838.5711	1838.8720	-164	1	R.SIGFISDDVGLDADKCK.V
152 - 156	617.2275	616.2202	616.3544	-218	0	R.LTEVR.K
163 - 169	871.3079	870.3007	870.4712	-196	0	R.WLRPDGK.T
188 - 208	2377.8746	2376.8673	2377.1874	-135	0	R.VHTVLISTQHDETVTNDEIAR.D
228 - 237	1141.3881	1140.3808	1140.6040	-196	0	K.TIFHLNPSGR.F
238 - 252	1453.4929	1452.4856	1452.7474	-180	0	R.FVIGGPHGDAGLTGR.K
281 - 287	765.2791	764.2719	764.4181	-191	0	R.SGAYIVR.Q
365 - 373	979.2949	978.2876	978.4672	-183	0	K.TAAYGHFGR.D

Spot No.: **91**

Mascot score: **88** Sequence coverage %: **18**

NCBI accession No.: **gi| 30691729**

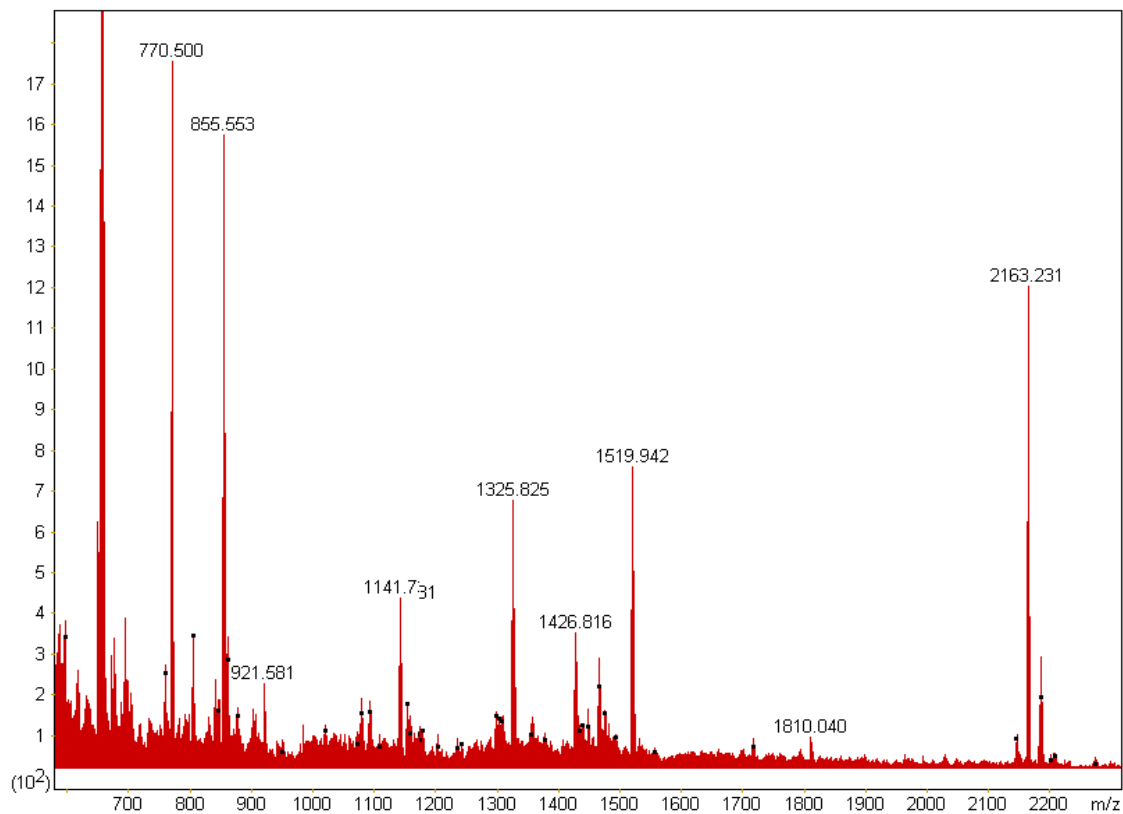
Matched peptides No.: **9**

Total peptides No.: **30**

Calculated Mr: **47767**

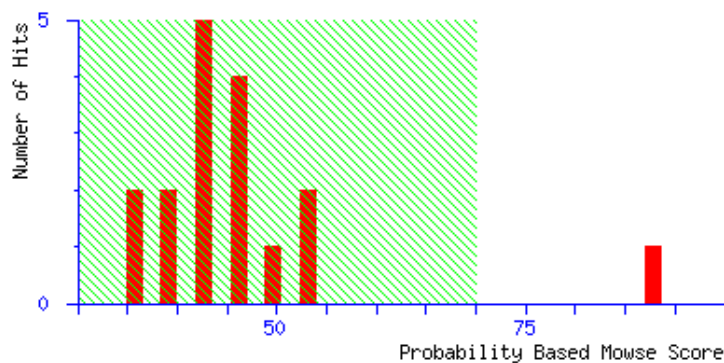
Calculated pI: **5.93**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MSLRLRLLLVV  VVLHLSAVAG  DDAIVSRFQE YLRINTVQPN PEYYKAVDFI
51 ISQAKPLSLE  SQTIEFVKGK  PLLLLKVVGS  DPTLPAFLLN  SHTDVVVPFED
101 SKWTHHPLQA  HMDHHGDIYA  RGSQDMKCVG MQYLEAIRKL QASGFKPLRS
151 VYLSFVPEDE  IGGHDGAEKF  AESQLFKSLN  IAIVLDEGLP  SPTESYRVFY
201 GERSPWWLVI  KAKGPPGHGA  KLYDNSAMEN LLKSIESIRR FRASQFDLLK
251 AGGIAEGDVV  SVNMAFLKAG  TPSPTGFVMN  LQPSEAEAGF  DIRVPPSVDA
301 EALERRLVEE WAPAARNMSF  EFKQKLTGKQ  FLTAADDSNP  WUGLLENAVK
351 EAGGRTSKPE IFPASTDARY  FRKAGVPAFG  FSPISNTPSL  LHDHNEYLGK
401 AEYLGIEVY  VSIIKAYASY  ESKSGSRDEL

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
28 - 33	855.5532	854.5459	854.4286	137	0	R.FQEYLR.I
34 - 45	1465.9184	1464.9111	1464.7249	127	0	R.INTVQPNPEYYK.A
128 - 138	1355.7895	1354.7822	1354.6373	107	0	K.CVGMQYLEAIR.K Oxidation (M)
198 - 203	770.5005	769.4932	769.3759	152	0	R.VFYGER.S
222 - 233	1426.8158	1425.8085	1425.6809	89	0	K.LYDNSAMENLLK.S Oxidation (M)
243 - 250	921.5810	920.5738	920.4967	84	0	R.ASQFDLLK.A
306 - 316	1297.8189	1296.8116	1296.6938	91	1	R.RLVEEWAPAAR.N
307 - 316	1141.7309	1140.7236	1140.5927	115	0	R.LVEEWAPAAR.N
356 - 369	1519.9419	1518.9346	1518.7678	110	0	R.TSKPEIFPASTDAR.Y

Spot No.: **92**

Mascot score: **84** Sequence coverage %: **23**

NCBI accession No.: **gi| 116057683**

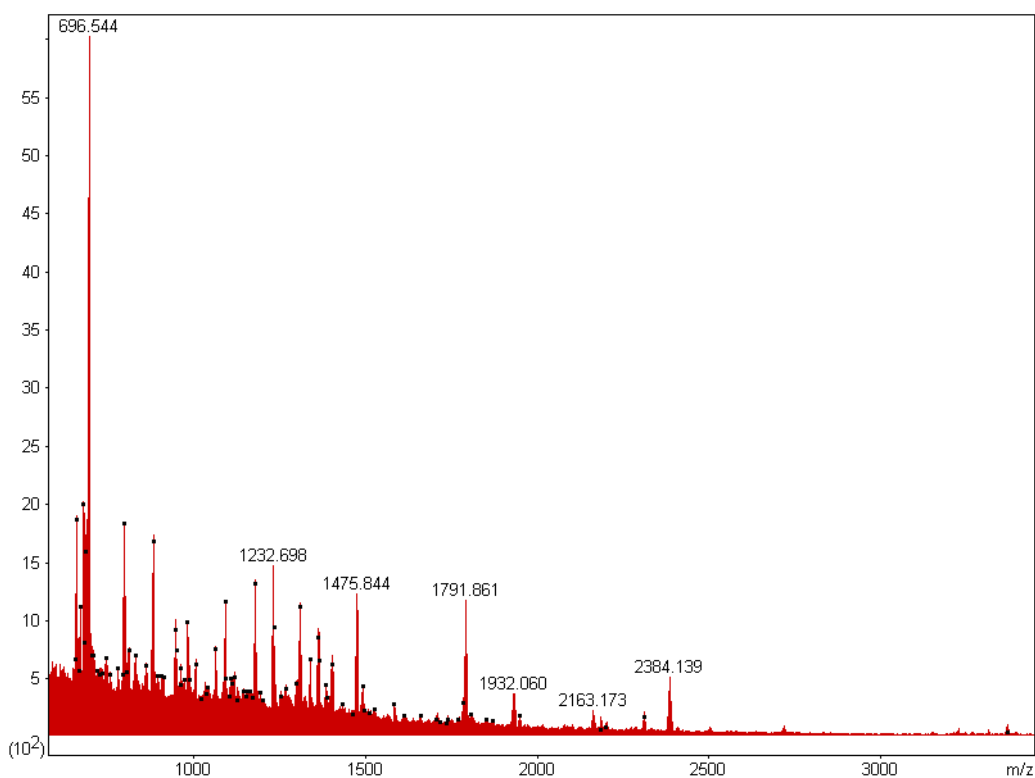
Matched peptides No.: **20**

Total peptides No.: **89**

Calculated Mr: **99984**

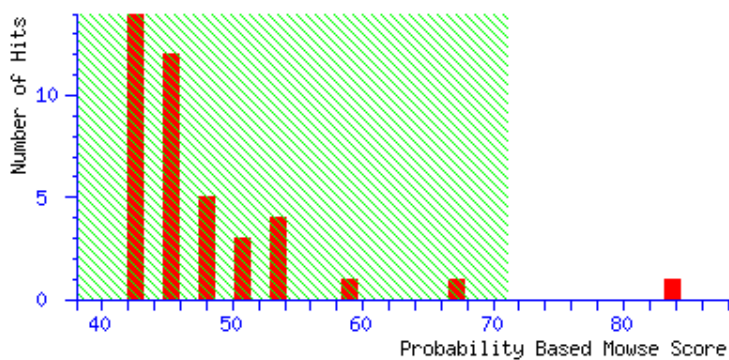
Calculated pI: **6.39**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MSASTAARGV AAPRARASLA NSLAPPKLAR AHARASPRVA RAVTSSSDGA
51 DGASSSSPSP RRVARRVPRG DGDGAKASAS GSEAKASAPK VRKVRKL5AA
101 VKEGGEIEAV AQSCLFASSS VVGTADELIE TALREETSTK DGGESAGERL
151 KRLFKERRER GMGMVRDRFN DGGAVKDEYS DASFGADSEE YVEEMLESAA
201 EVEEQNKRLR EGYSESEFGV SNSIDPFKLV AGEFVVHRKY GIGQYLGLKV
251 LPVDQPNGDT KNKPFLEFLKY QDATAKISPE ASRRLLYRFC SPGALVKPPK
301 LNKLKDSTTW DLREKKTEAT IRRLVVNQMV IYLQRLQTIR NPYELPPAES
351 VEAFDKSFPY KLTPDQVRAV EDITIDLSRD APMDRLVIGD VGFGKTEVAM
401 RAIFHVASSG GGVFMMAPT VLAKQHAANL AARFRPLGIN VELVTRHVVK
451 SRHTEIFEKF KEGTVQIIVG THKLVNLDSE YYRKLKLLVI DEEQRFQVKH
501 KDQISALKAE VDVLTLSATP IPRTLHMAMS GFRDASLVQT PPPERRPINT
551 ILAPQNDADI TRAIHELNR NGQVYYIVPR VSMKEASER LNRLPELRI
601 MTCHGQMDGD QIDDAMEAFS SGTADVLIAT TIVESGLDIP NCNTIIENL
651 RGRVGRAGRQ AYAYMFYSSD ESELTPAAQE RLAALEECCG LGEFRLSER
701 DMGIRGVGTM FGEKQSGDVD NVGADLYLEL LYKQLQRIDN LRIKTIAASD
751 VRVETAGYEF GITPFYIATT QANDEVKAAI DSITVHEHIH AMLKLLQDTF
801 GEPDEFSLSC LFAEMQILA GDLGIKAILL DYPKDPPIID LITDASLMVK
851 ELLVEGTNGA YDVKINDNGI RFKTMTDMTM HGKVMYVVSI LRQITSSIPS
901 FVKYL

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
9 - 16	797.4802	796.4729	796.4668	8	1	R.GVAAPRAR.A
28 - 34	794.4985	793.4912	793.4671	30	1	K.LARAHAR.A
86 - 92	728.4917	727.4844	727.4341	69	1	K.ASAPKVR.K
141 - 151	1118.5996	1117.5923	1117.5363	50	1	K.DGGESAGERLK.R
161 - 166	666.3402	665.3330	665.2989	51	0	R.GMGMVR.D Oxidation (M)
229 - 239	1254.6949	1253.6876	1253.7244	-29	1	K.LVAGEFVVHRK.Y
240 - 249	1111.6308	1110.6235	1110.6073	15	0	K.YGIGQYLGLK.V
262 - 269	1006.5569	1005.5496	1005.6011	-51	0	K.NKPFLEFLK.Y
289 - 300	1300.6732	1299.6659	1299.7009	-27	0	R.FCSPGALVKPPK.L
324 - 335	1475.8439	1474.8366	1474.8330	2	0	R.LVVNQMVIYLQR.L
386 - 401	1707.8720	1706.8647	1706.9026	-22	1	R.LVIGDVGFQKTEVAMR.A Oxidation (M)
425 - 433	951.5634	950.5562	950.5046	54	0	K.QHAANLAAR.F
434 - 446	1513.8298	1512.8225	1512.8776	-36	0	R.FRPLGINVELVTR.H
571 - 585	1784.9581	1783.9508	1783.9113	22	1	R.NGQVYYIVPRVSMK.E
591 - 599	1157.6698	1156.6625	1156.6716	-8	1	R.LNRLPELRI.I
697 - 705	1092.6072	1091.5999	1091.5393	56	1	R.LSERDMGIR.G Oxidation (M)
701 - 714	1497.8172	1496.8099	1496.7116	66	1	R.DMGIRGVGTMFGEK.Q
815 - 834	2201.1440	2200.1367	2200.2177	-37	1	R.EMQILAGDLGIKAILLDYK.D
835 - 850	1740.8823	1739.8750	1739.9379	-36	0	K.DPPIIDLITDASLMVK.E
884 - 892	1095.6100	1094.6027	1094.6158	-12	0	K.VMYVVSILR.Q Oxidation (M)

Spot No.: **93**

Mascot score: **177** Sequence coverage %: **33**

NCBI accession No.: **gi| 15232704**

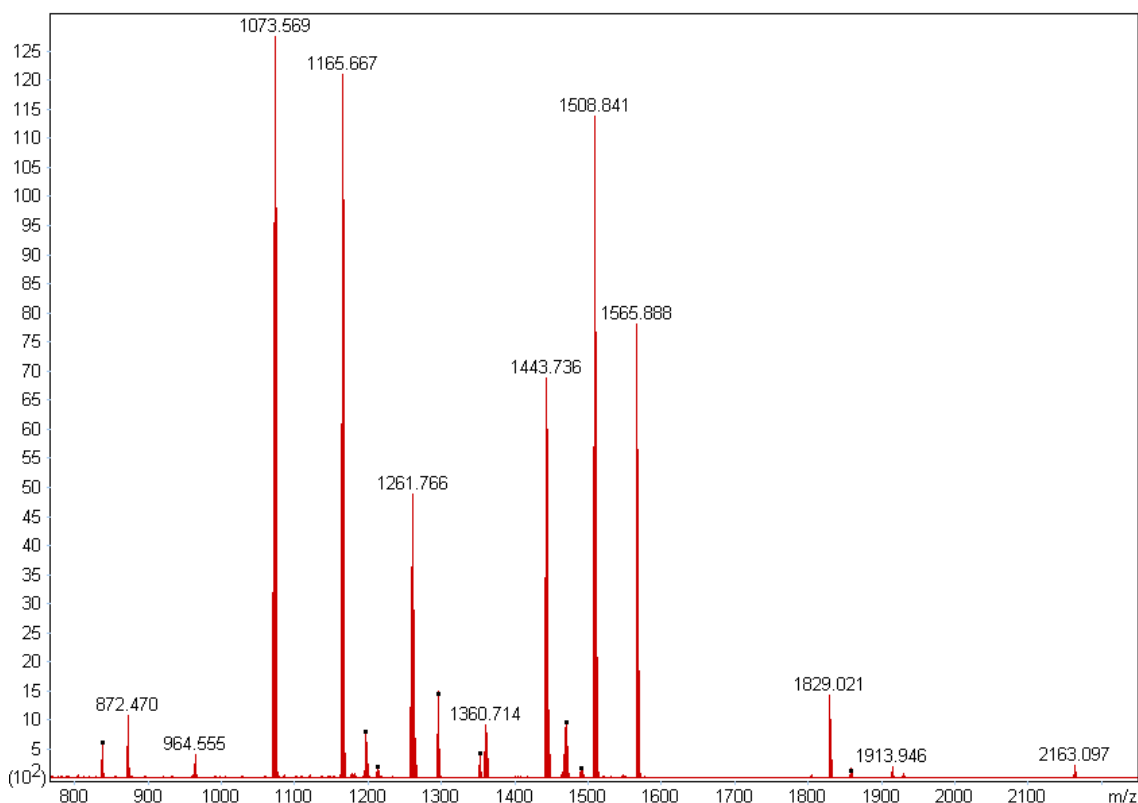
Matched peptides No.: **13**

Total peptides No.: **20**

Calculated Mr: **52824**

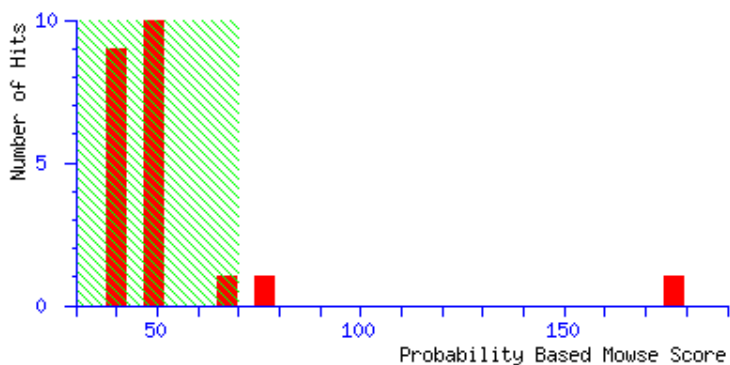
Calculated pI: **7.60**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MALASTTLPA KTGLSLWCPT SPSLARRLPA RFSPIGSRIA SRGVVTASFA
51 NENREFVIIG GGNAAGYAAR TFVENGMDG RLCIVTKEAY APYERPALK
101 AYLFPPEKKP ARLPGFHTCV GGGGERQTPD WYKEKGIEMI YEDPVTGADF
151 EKQTLTTNTG KQLKYGSLII ATGCTASRFP DKIGGNLPGV HYIREVADAD
201 SLISLLGKSK KVVIVGGGYI GMEVAAAAVA WNLDTTIVFP EDQLLQRLFT
251 PSLAQRYEEL YRQNGVKFVK GASINNLEAG SDGRVTAVKL ADGSTIEADT
301 VVIGIGAKPA IGPFETLSMN KSIGGIQVDG LFRTSTPGIF AIGDVAAFPL
351 KIYDRMTRVE HVDHARRSAQ HCVKSLTTAH TDTYDYLPFY YSRVFEYEGS
401 SRKVWWQFYG DNVGETVEVG NFDPKIATFW IDSGRLKGVL VESGSPEEFQ
451 LLPKLARSQP IVDKAKLASA SSVEEAIEIA QAALQS

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
55 - 70	1565.8882	1564.8809	1564.7998	52	0	R.EFVIIGGGNAAGYAAR.T
88 - 100	1508.8410	1507.8337	1507.7670	44	0	K.EAYAPYERPALK.A
101 - 108	964.5550	963.5477	963.5065	43	0	K.AYLFPEK.K
113 - 126	1443.7356	1442.7283	1442.6725	39	0	R.LPGFHTCVGGGGER.Q
136 - 152	1913.9457	1912.9384	1912.8764	32	0	K.GIEMIYEDPVTGADFEK.Q
165 - 178	1469.8005	1468.7932	1468.7344	40	0	K.YGSLIATGCTASR.F
183 - 194	1295.8038	1294.7965	1294.7146	63	0	K.IGGNLPGVHYIR.E
257 - 262	872.4697	871.4625	871.4075	63	0	R.YEELYR.Q
271 - 284	1360.7141	1359.7068	1359.6378	51	0	K.GASINNLEAGSDGR.V
322 - 333	1261.7661	1260.7588	1260.6826	60	0	K.SIGGIQVDGLFR.T
394 - 402	1073.5694	1072.5621	1072.4825	74	0	R.VFEYEGSSR.K
426 - 435	1165.6674	1164.6601	1164.5928	58	0	K.IATFWIDSGR.L
438 - 454	1829.0214	1828.0141	1827.9618	29	0	K.GVLVESGSPEEFQLLPK.L

Spot No.: **94**

Mascot score: **170** Sequence coverage %: **24**

NCBI accession No.: **gi| 15383744**

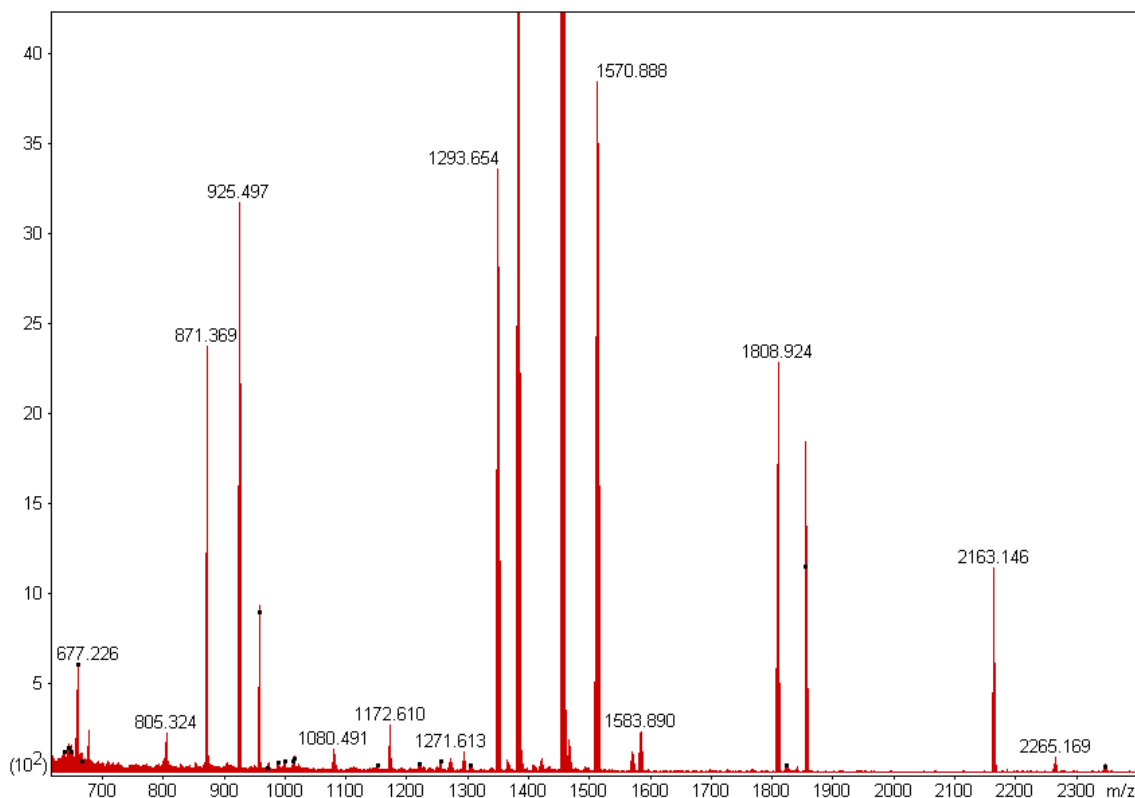
Matched peptides No.: **18**

Total peptides No.: **24**

Calculated Mr: **62192**

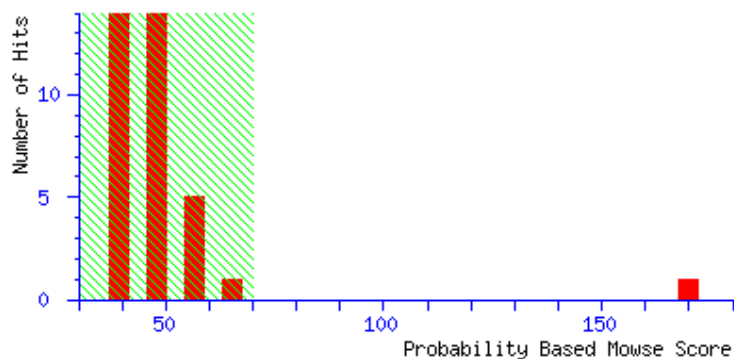
Calculated pI: **6.26**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MYRVFASRAL RAKSLCDKSS TSLASLTLR LNHSIPFATV DAEELSGSHP
51 AEVQSFVQGK WIGSSNHNTL LDPLNGEPFI KVAEVDSEGT QPFVDSLSQC
101 PKHGLHNPFK SPERYLLYGD ISTKAAHMLA LPKVADFFAR LIQRVAPKSY
151 QQAAGEVFTV RKFLNFCGD QVRFLARSFA IPGNHLGQQS HGYRWPYGVP
201 TIVTFNFPL EIPLLQLMGA LYMGNKPLLK VDSKVSIVME QMMRLLHYCG
251 LPAEDVDFIN SDGKTMNKIL LEANPRMTLF TGSSRVAEKL ALDLKGRIRL
301 EDAGFDWKVL GPDVQEVYV AWQCDQDAYA CSGQKCSAQS MLFVHENWSK
351 TPLVSKLKEK AERRKLEDLT IGPVLTFTTE AMLEHMENLL QIPGSKLLFG
401 GKELKNHSIP SIYGALEPTA VYVPIEEILK DNKTYELVTK EIFGPFQIVT
451 EYKQDQLPLV LDALERMHAH LTAAVVSNPD IFLQEVIGNS VNGTTYAGLR
501 GRTTGAPQNH WFGPAGDPRG AGIGTPEAIK LWWSCHREVI YDYGVPVQGW
551 ELPPST

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
115 - 124	1172.6099	1171.6026	1171.6125	-8	0	R.YLLYGD ISTK .A
149 - 161	1455.7871	1454.7798	1454.7154	44	0	K.SY QQAAGEVFTV TR.K
149 - 162	1583.8900	1582.8827	1582.8103	46	1	K.SY QQAAGEVFTV TRK.F
162 - 173	1512.8063	1511.7990	1511.7191	53	1	R. KFLNF CGD QVR .F
163 - 173	1384.6953	1383.6880	1383.6241	46	0	K. FLENF CGD QVR .F
235 - 244	1255.5955	1254.5882	1254.5770	9	0	K. VSIVMEQMMR .L 2 Oxidation (M)
235 - 244	1271.6134	1270.6061	1270.5720	27	0	K. VSIVMEQMMR .L 3 Oxidation (M)
269 - 276	925.4969	924.4896	924.5392	-54	0	K. ILLEANPR .M
277 - 285	999.4640	998.4567	998.4855	-29	0	R. MTLFTGSSR .V
277 - 285	1015.4631	1014.4558	1014.4804	-24	0	R. MTLFTGSSR .V Oxidation (M)
298 - 308	1349.7172	1348.7099	1348.6775	24	1	R. IRLEDAGFDW K.V
300 - 308	1080.4911	1079.4838	1079.4924	-8	0	R. LEDAGFDW K.V
441 - 453	1570.8880	1569.8807	1569.8079	46	0	K. EIFGPFQIVTEYK .K
454 - 466	1509.9186	1508.9113	1508.8562	37	1	K. KDQLPLVLDALER .M
455 - 466	1381.8024	1380.7951	1380.7613	25	0	K. DQLPLVLDALER .M
503 - 519	1808.9243	1807.9170	1807.8391	43	0	R. TGAPQNHWF GPAGDPR.G
520 - 530	1013.5194	1012.5121	1012.5553	-43	0	R. GAGIGTPEAIK .L
531 - 537	957.4330	956.4258	956.4651	-41	0	K. LWWSCHR .E

Spot No.: **95**

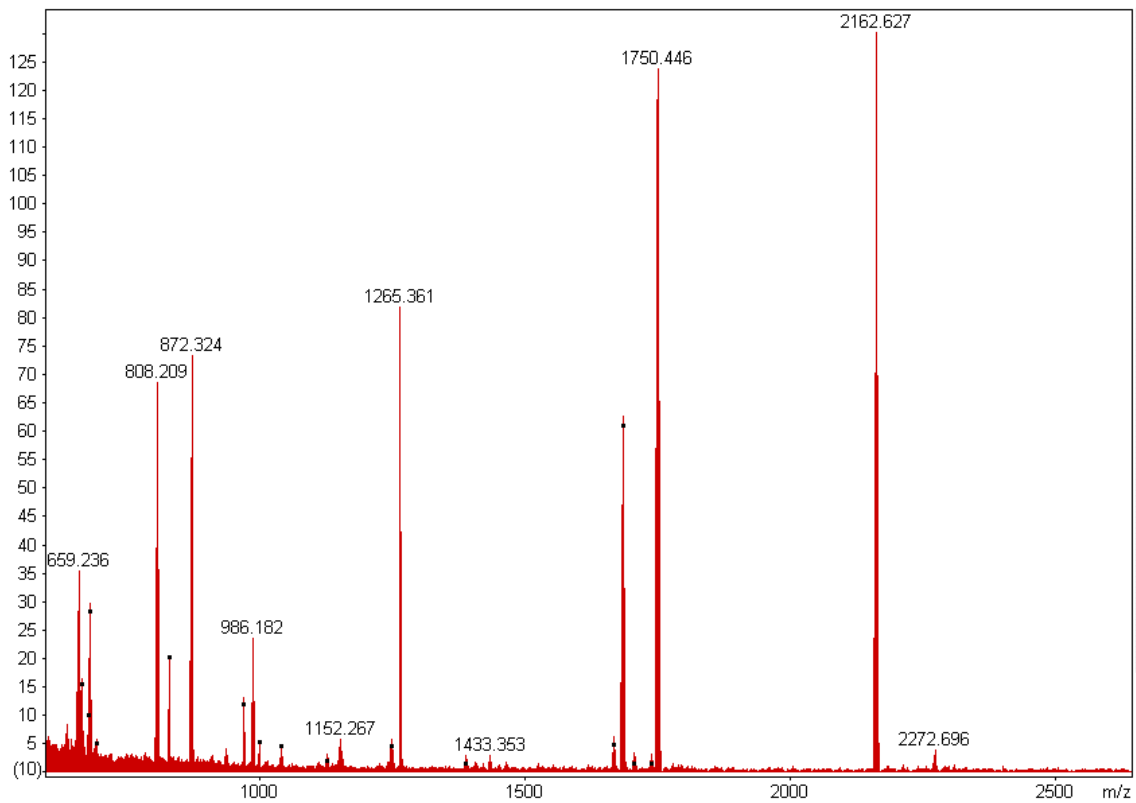
Mascot score: **82** Sequence coverage %: **18**

NCBI accession No.: **gi| 18394801**

Matched peptides No.: **9** Total peptides No.: **14**

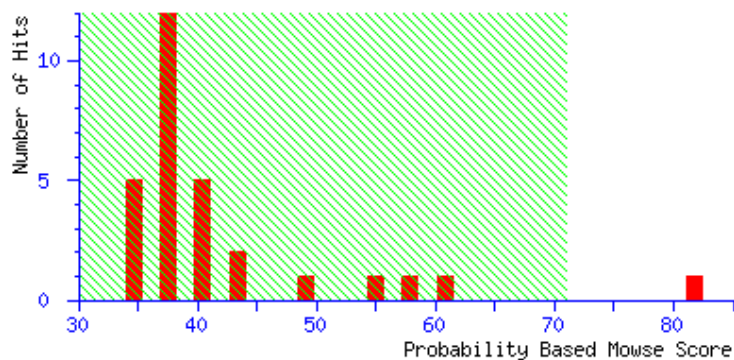
Calculated Mr: **53718** Calculated pI: **6.15**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MSLMIRSSYV SHITLFQPRN SKPSSFTNQI SFLSSSNMNP FLNLVYKRNL
51 TMQSVSKMTV KSSLIDPDGG ELVELIVPET EIGVKKAESE TMPKVKLNQI
101 DLEWVHWISE GWASPLKGF REDEYLQSLH FNSLRKNGT FVMSLP IVL
151 AIDDDTKEQI GSSENVAVLC PQGDIIGSLR SVEIYKHNKE ERIARTWGT
201 SPGLPYVEEY ITPSGNWLIG GDLEVFEPK YNDGLDHYR SPKQLREEFD
251 NRQADAVFAF QLRNPVHNGH ALLMNDTRKR LLEMGYKNPV LLLHPLGGFT
301 KADDVPLDVR MEQHSKVLED GVLDPKTTIV SIFSPMHYA GPTEVQWHAK
351 ARINAGANFY IVGRDPAGMG HPTEKRDLYD PDHGKRVLSM APGLEKLNIL
401 PFRVAAYDTI EKKMAFFDPS RAKEFLFISG TKMRTYARTG ENPPDGFMC
451 SGWNVLVKYY ESQSEAKQ QAVVSA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
122 - 135	1750.4456	1749.4383	1749.8322	-225	0	R.EDEYLQSLHFNSLR.L
138 - 157	2162.6274	2161.6201	2162.0929	-219	0	K.NGTFVMSLP IVLAIDDDTK.E
231 - 239	1152.2667	1151.2594	1151.4996	-209	0	K.YNDGLDHYR.L
253 - 263	1265.3612	1264.3539	1264.6564	-239	0	R.QADAVFAFQLR.N
302 - 310	999.2843	998.2771	998.5033	-227	0	K.ADDVPLDVR.M
397 - 403	872.3244	871.3172	871.5280	-242	0	K.LNILPFR.V
414 - 421	970.1961	969.1888	969.4378	-257	0	K.MAFFDPSR.A
414 - 421	986.1825	985.1752	985.4328	-261	0	K.MAFFDPSR.A Oxidation (M)
424 - 432	1041.2897	1040.2824	1040.5542	-261	0	K.EFLFISGTK.M

Spot No.: **96**

Mascot score: **253** Sequence coverage %: **33**

NCBI accession No.: **gi| 125857763**

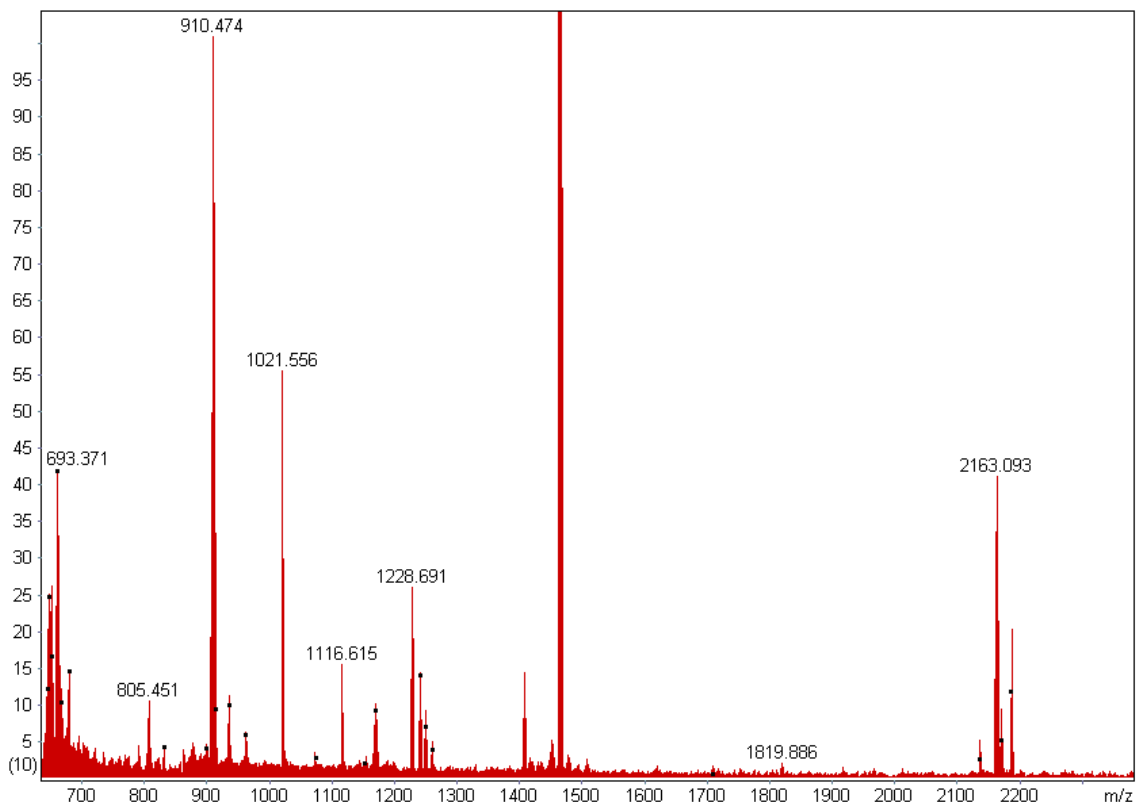
Matched peptides No.: **22**

Total peptides No.: **36**

Calculated Mr: **48871**

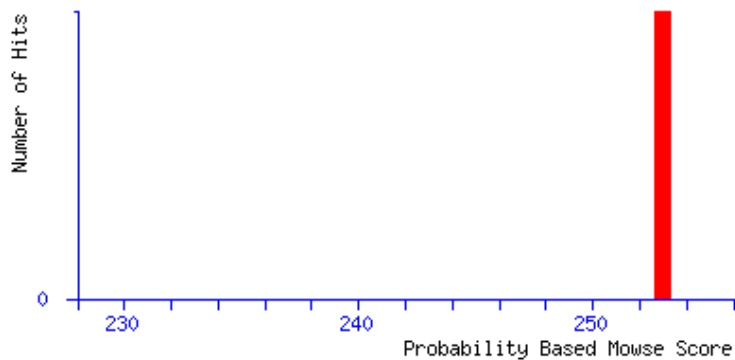
Calculated pI: **6.13**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 VGFKAGVKEY KLTYYPPEYE TKDIDLAAF RVTPQPGVPP EEAGAAVAEE
51 SSTGTWTTVW TDGLTSLDRY KGRCYHIEPV LGEETQFIAY VAYPLDLFEE
101 GSVTNMFTSI VGNVFGFKAL AALRLEDLRI PPAYTKTFQG PPHGIQVERD
151 KLNKYGRPLL GCTIKPKLGL SAKNYGRAVY ECLRGGLDFT KDDENVNSQP
201 FMRWRDRFLF CAEAIYKSQA ETGEIKGHYL NATAGTCEEM IKRAVFAREL
251 GVPIVMHDYL TGGFTANTSL AHYCRDNGLL LHIHRAMHAV IDRQKNHGMH
301 FRVLAKALRL SGGDHIHAGT VVGKLEGDRE STLGFVDLLR DDYVEKDRSR
351 GIFFTQDWVS LPGVLPVAVS GIHVWHMPAL TEIFGDDSVL QFGGGTLGHP
401 WGNAPGAVAN RVALEACVQA RNEGRDLAVE GNEIIREAC

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 8	805.4515	804.4442	804.4858	-52	1	-.VGFKAGVK.E
12 - 22	1407.7014	1406.6941	1406.6605	24	0	K.LTYYPPEYETK.D
23 - 31	1021.5563	1020.5490	1020.5240	25	0	K.DIDLAAFR.V
119 - 124	614.4116	613.4043	613.3911	22	0	K.ALAALR.L
119 - 129	1240.7704	1239.7631	1239.7299	27	1	K.ALAALRLEDLR.I
125 - 129	645.3688	644.3615	644.3493	19	0	R.LEDLR.I
137 - 149	1465.7924	1464.7851	1464.7474	26	0	K.TFQGPPHGIQVER.D
137 - 151	1708.9547	1707.9474	1707.8693	46	1	K.TFQGPPHGIQVERDK.L
178 - 184	910.4741	909.4668	909.4378	32	0	R.AVYECLR.G
185 - 203	2170.0168	2169.0095	2168.9797	14	1	R.GGLDFTKDDENVNSQPFR.W
185 - 203	2186.0581	2185.0508	2184.9746	35	1	R.GGLDFTKDDENVNSQPFR.W Oxidation (M)
192 - 203	1451.6736	1450.6663	1450.6147	36	0	K.DDENVNSQPFR.W
204 - 207	632.3552	631.3479	631.3190	46	1	R.WRDR.F
208 - 217	1261.6560	1260.6487	1260.6213	22	0	R.FLFCAEAIYK.S
218 - 226	962.5187	961.5115	961.4716	41	0	K.SQAETGEIK.G
294 - 302	1170.6700	1169.6627	1169.5512	95	1	R.QKNHGMHFR.V Oxidation (M)
296 - 302	898.4362	897.4289	897.4028	29	0	K.NHGMHFR.V
296 - 302	914.4400	913.4327	913.3977	38	0	K.NHGMHFR.V Oxidation (M)
325 - 340	1819.8855	1818.8782	1818.9476	-38	1	K.LEGDRESTLGFVDLLR.D
330 - 340	1249.7580	1248.7507	1248.6714	64	0	R.ESTLGFVDLLR.D
412 - 421	1116.6145	1115.6072	1115.5757	28	0	R.VALEACVQAR.N
426 - 436	1228.6912	1227.6839	1227.6459	31	0	R.DLAVEGNEIIR.E

Spot No.: **97**

Mascot score: **88**

Sequence coverage %: **32**

NCBI accession No.: **gi| 308810769**

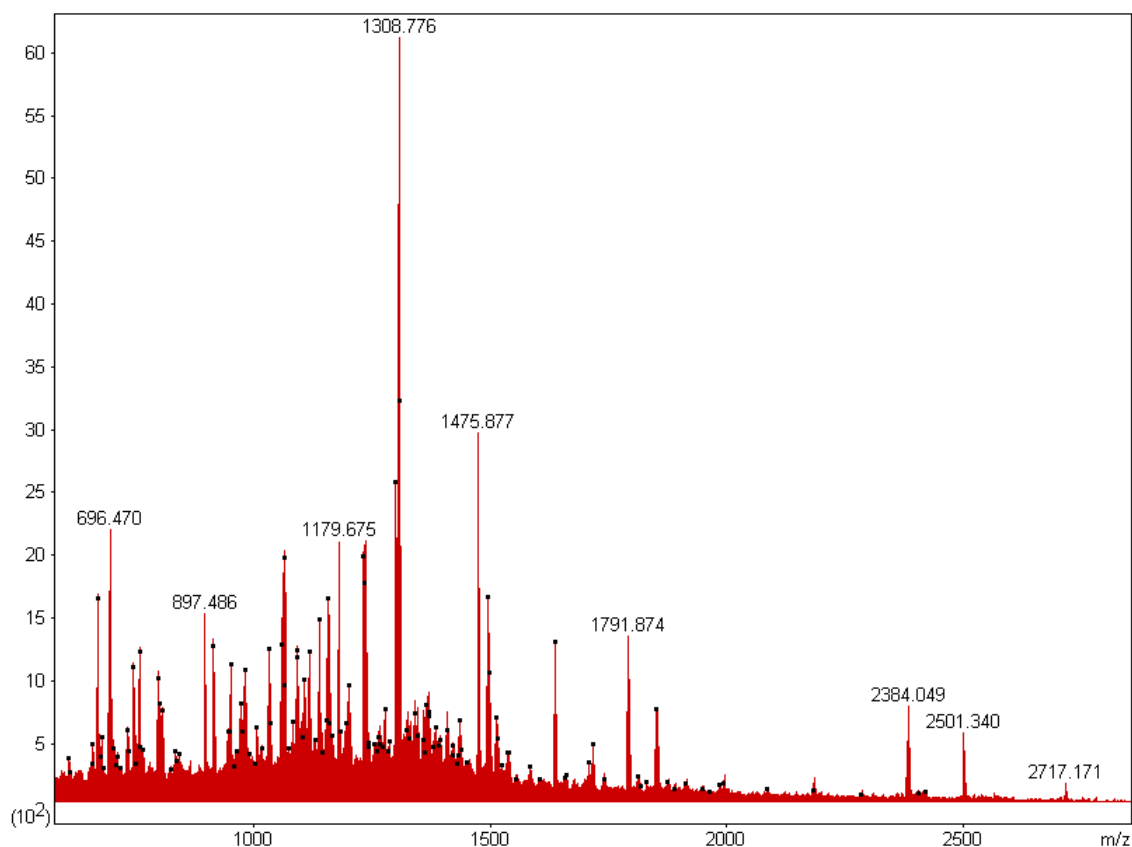
Matched peptides No.: **24**

Total peptides No.: **130**

Calculated Mr: **77406**

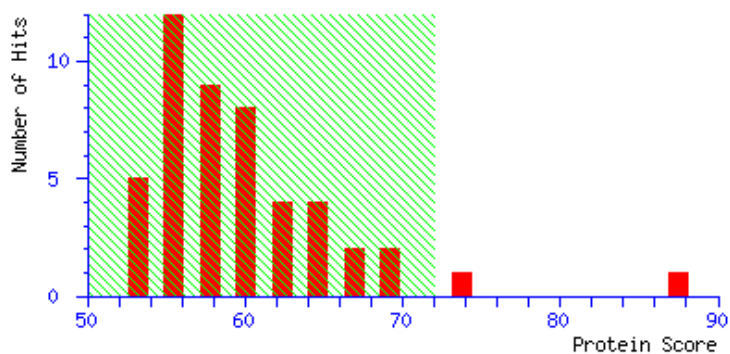
Calculated pI: **6.47**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MHFNADLDR LDELAVLPPQ SLAQIPTLRK IHARLRDANC PDVLTQACVD
51 ERDFHAPPCA ADVDRLEHIF DACARGGTPS AATHYAEVC GDSQATSDDA
101 TEAYVRDGRG VLDWVEKSLR RAESTLDAGG GREESAEACA RTLDACARAA
151 EALGADASGK GAIGGSEETK RLQKVRDAVV CRELHDAGGR HGGPAAWAGA
201 VQRRRAATSP GDDLGRLLA GVGEHRPAYP FKSIAEAAKS IFVDGSAGPA
251 ALLAKRCLFL YFLDLSGLPH DGSPMEYARR ARIHPRLYQE TRAAVLLDDF
301 ESEAAALDEAC EILPRVAHPL LPVKFIASLA NRQRPTTALM VSRARGALTS
351 SPNAETMSLE VSIRLACGLI SEAFLCVRDA FNAFPELRES KAGTHLVRLL
401 LDHGVEKLCL EQVLALPFND ATEKLLDLL WDRREDIPVE FGIVYLLNRG
451 RPLEAAGLFS RARNEGRLVD ERAGKLEARL QECLARLPIP QKALVADIGG
501 ALFADAAIPR DLVVDRANDG DLNKTANAMA LADEKREFQA VLRGKPGTEG
551 EIPFLKPPVE LAQKARASSL DQATSMLASA SILGSPGRPL TFVRPHEPSD
601 APSSPATMLP TTKSGLKVEP STPYASPFGA IPVRRPAHAD ASTTTTTPKP
651 SAPGSLLFQA QRPLTGKSSF PAFLSPTPRK ATRAWTTDRP TPGSTATQAS
701 PARRSSRLAD RTADA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
1 - 9	1118.5814	1117.5741	1117.4975	69	0	- .MHFNADLDR.A
31 - 36	765.3798	764.3725	764.4769	-137	1	K.IHARLR.D
122 - 132	1033.5762	1032.5689	1032.4836	83	0	R.AESTLDAGGGR.E
161 - 170	948.4999	947.4926	947.4560	39	0	K.GAIGGSEETK.R
191 - 203	1277.7617	1276.7544	1276.6425	88	0	R.HGGPAAWAGAVQR.R
218 - 226	951.5317	950.5244	950.5298	-6	0	R.LLAGVGEHR.P
227 - 239	1392.7297	1391.7224	1391.7449	-16	1	R.PAYPFKSIAEAAK.S
257 - 279	2717.1714	2716.1641	2716.2665	-38	0	R.CFLYFLDLSGLPHDGSPMEYAR.R Oxidation (M)
281 - 286	749.4131	748.4058	748.4456	-53	1	R.ARIHPR.L
316 - 324	973.5649	972.5577	972.6120	-56	0	R.VAHPLLPVK.F
333 - 343	1259.7181	1258.7108	1258.6816	23	1	R.QRPTTALMVSR.A
379 - 388	1179.6747	1178.6674	1178.5720	81	0	R.DAFNAFPELR.E
379 - 391	1523.8760	1522.8687	1522.7416	83	1	R.DAFNAFPELRESK.A
450 - 461	1273.6411	1272.6338	1272.6938	-47	1	R.GRPLEAAGLFSR.A
452 - 461	1060.6193	1059.6120	1059.5713	38	0	R.PLEAAGLFSR.A
452 - 463	1287.7025	1286.6952	1286.7095	-11	1	R.PLEAAGLFSRAR.N
493 - 510	1740.8828	1739.8755	1739.9570	-47	0	K.ALVADIGGALFADAAIPR.D
589 - 594	732.3413	731.3340	731.4330	-135	0	R.PLTFVR.P
635 - 649	1584.8513	1583.8440	1583.7726	45	1	R.RPAHADASTTTTTPK.P
636 - 649	1428.7810	1427.7737	1427.6715	72	0	R.PAHADASTTTTTPK.P
650 - 662	1300.6471	1299.6398	1299.6935	-41	0	K.PSAPGSLLFQAQR.P
668 - 680	1434.8375	1433.8302	1433.7667	44	1	K.SSPAFLSPTPRK.A
690 - 704	1497.8699	1496.8626	1496.7695	62	1	R.PTPGSTATQASARR.S
708 - 715	832.5164	831.5091	831.4086	121	1	R.LADRTADA.-

Spot No.: **98**

Mascot score: **96** Sequence coverage %: **24**

NCBI accession No.: **gi| 226461739**

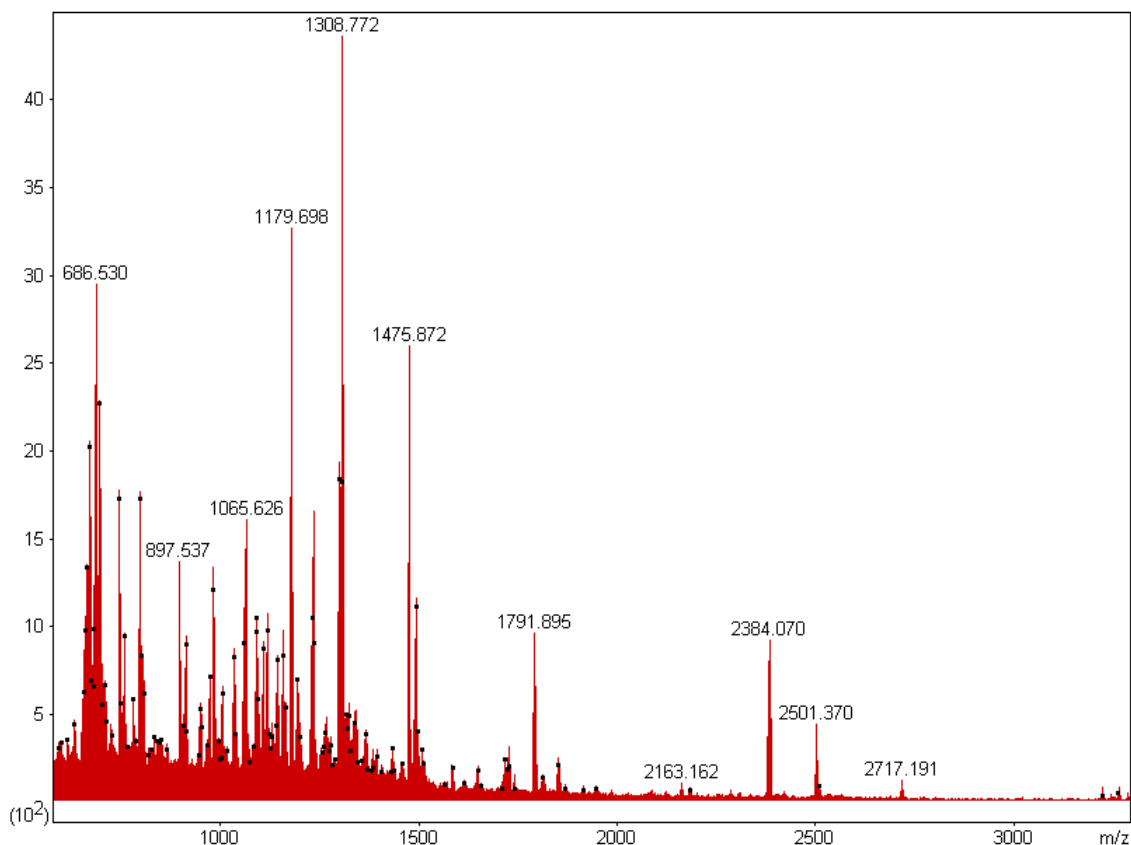
Matched peptides No.: **48**

Total peptides No.: **111**

Calculated Mr: **188682**

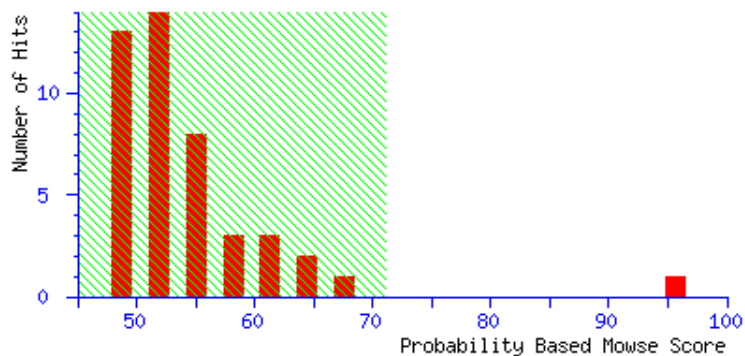
Calculated pI: **6.11**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
107 - 114	851.5387	850.5314	850.4773	64	1	R.RAPPSPAR.R
214 - 221	982.5710	981.5637	981.4992	66	1	R.EHDARLNK.E
318 - 325	897.5373	896.5300	896.4464	93	1	K.AEHDAARK.A
329 - 340	1357.7907	1356.7834	1356.6561	94	1	K.AVAEGKYAEYEK.A
355 - 360	788.5358	787.5285	787.4188	139	1	R.QLEKDR.R
368 - 373	749.4843	748.4771	748.4232	72	1	R.GEFKIR.V
481 - 491	1157.6901	1156.6828	1156.6815	1	1	K.LLISNAAKAEK.A
489 - 499	1232.7175	1231.7102	1231.6044	86	1	K.AEKALEEESAR.G
500 - 508	905.5963	904.5890	904.4436	161	0	R.GAAMLEAAR.E Oxidation (M)
514 - 519	703.4970	702.4897	702.3660	176	1	R.EREAAK.L
523 - 530	832.5813	831.5740	831.4338	169	0	R.EETLAAAK.K
532 - 541	1074.6208	1073.6135	1073.5353	73	1	K.DLNDAEAAKK.A
597 - 604	948.5482	947.5409	947.5474	-7	0	R.TVLMSLR.S Oxidation (M)
622 - 631	1257.7100	1256.7027	1256.6183	67	1	R.VERAEMLEHK.A Oxidation (M)
625 - 634	1127.6301	1126.6228	1126.5804	38	1	R.AEMLEHKA.K
635 - 645	1287.7226	1286.7153	1286.6214	73	1	K.ERAEQALEDAR.A
646 - 656	1283.6743	1282.6670	1282.5897	60	1	R.ASQEKMIEGMR.A 2 Oxidation (M)
705 - 718	1493.8566	1492.8493	1492.7997	33	1	K.HLEEKLAQNAAK.K
711 - 719	914.6360	913.6287	913.5345	103	1	K.LAQNAAAK.V
736 - 745	1179.6976	1178.6903	1178.6594	26	1	R.FRTVLMGSLR.S
760 - 768	1165.6768	1164.6695	1164.5193	129	1	K.MERTEQSER.L
763 - 773	1273.6830	1272.6757	1272.7037	-22	1	R.TEQSERLALVK.E
787 - 797	1234.7109	1233.7036	1233.6135	73	1	R.KANQETVAAMR.S Oxidation (M)
788 - 797	1090.6347	1089.6274	1089.5237	95	0	K.ANQETVAAMR.S
817 - 821	631.4615	630.4543	630.3337	191	0	K.QVQEK.Q
822 - 828	819.5001	818.4928	818.4498	53	1	K.QDSTIKK.L
836 - 845	1130.6230	1129.6157	1129.6203	-4	1	K.QTNATLRAQK.Q
877 - 886	1201.7128	1200.7055	1200.5995	88	1	R.FKTVMGSLR.A 2 Oxidation (M)
929 - 940	1316.6892	1315.6819	1315.6732	7	1	R.AQEDAVASLREK.Q
960 - 971	1265.6931	1264.6858	1264.6663	15	0	K.ASTYAEQLAAIK.R
983 - 994	1406.7643	1405.7570	1405.6209	97	0	R.EEELDSTADIER.R
1030 - 1038	1092.6257	1091.6184	1091.5182	92	1	R.KSFEHASHR.N
1053 - 1064	1307.7696	1306.7623	1306.6265	104	1	K.ADEAQKAYQGAR.A
1115 - 1119	659.5092	658.5019	658.3762	191	1	R.KEINR.L
1180 - 1192	1393.8231	1392.8158	1392.6667	107	1	K.TNAAMSDRESLAK.E
1206 - 1220	1513.9040	1512.8967	1512.7532	95	0	R.QAAALVANSPESEER.K
1281 - 1291	1262.7144	1261.7071	1261.5422	131	0	K.NDEVTDDEDVAR.A
1347 - 1353	847.5462	846.5390	846.4997	46	1	R.CKTLVVK.G
1354 - 1360	686.5301	685.5229	685.4235	145	1	K.GKAALAR.I
1361 - 1375	1584.8403	1583.8330	1583.8770	-28	0	R.IVALELEVELASAVNEK.E
1419 - 1431	1345.7831	1344.7758	1344.6409	100	0	R.STEAEDVDPIAAK.A
1446 - 1460	1431.8134	1430.8061	1430.7365	49	0	R.DAAAASATTIAETAR.E
1446 - 1462	1716.9930	1715.9857	1715.8802	62	1	R.DAAAASATTIAETARER.D
1468 - 1474	865.5161	864.5088	864.4341	86	0	R.ELVGYER.R
1495 - 1501	745.5429	744.5356	744.4204	155	0	R.LGMTPVK.A
1579 - 1588	1006.5610	1005.5537	1005.4879	65	0	R.SDAFATAAPR.F
1616 - 1623	945.5937	944.5864	944.5403	49	1	K.LDLSRVSR.S
1621 - 1629	1016.6325	1015.6252	1015.5047	119	1	R.VSRSPGEER.D

Spot No.: **99**

Mascot score: **92** Sequence coverage %: **20**

NCBI accession No.: **gi| 15232704**

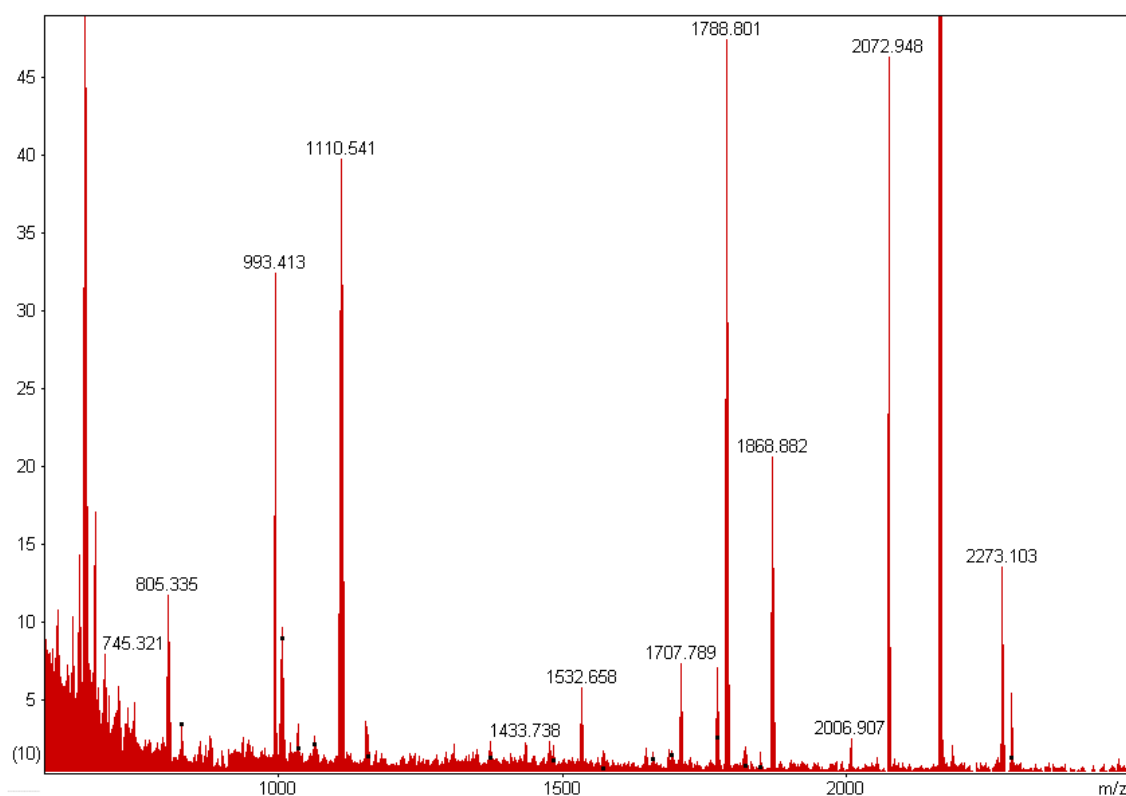
Matched peptides No.: **10**

Total peptides No.: **22**

Calculated Mr: **52304**

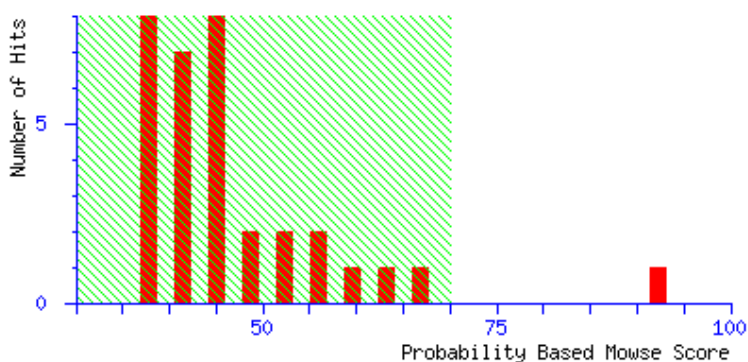
Calculated pI: **7.11**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

 1 MLSSSTSAGL SSSFVSSRFL SSGIFSSGAS RNRVTFPVQF HRASAVRCFA
 51 SSGGSDRIQV QNPVEMDGD EMTRVIWSMI KEKLILPYLD LDIKYFDLGI
101 LNRDATDDKV TVESAEAAALK YNVAIKCATI TPDEGRVKEF GLKSMWRSPN
151 GTIRNILDGT VFREPIMCSN IPRLVPGWEK PICIGRHAFG DQYRATDVTI
201 KGPGLKLMVF EDGNAPVELD VYDFKGPGVA LAMYNVDESI RAFAESSMAM
251 ALTKKWPLYL STKNTILKKY DGRFKDIFQE VYEANWKQKF EEHSIWYEHR
301 LIDDMVAYAV KSEGGYVWAC KNYDGDVQSD LLAQGFGLG LMTSVLLSAD
351 GKTLESEAAH GTVTRHFR LH QKQETSTNS IASIFAWTRG LEHRAKLDKN
401 EKLMDFVKKL ESSCVNTVET GKMTKDLALL IHGPKVSRDL FLNTEEFIDA
451 VASKLKTKQFK ELPLV

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
95 - 103	1110.5406	1109.5333	1109.5869	-48	0	K.YFDLGILNR.D	
155 - 163	1034.5375	1033.5302	1033.5556	-25	0	R.NILDGTVER.E	
187 - 194	993.4127	992.4054	992.4464	-41	0	R.HAFGDQYR.A	
226 - 241	1691.8977	1690.8904	1690.8348	33	0	K.GPGVALAMYNVDESIR.A	
226 - 241	1707.7885	1706.7812	1706.8298	-28	0	K.GPGVALAMYNVDESIR.A	Oxidation (M)
288 - 300	1788.8014	1787.7941	1787.8379	-25	1	K.QKFEHSIWYEHR.L	
290 - 300	1532.6580	1531.6507	1531.6844	-22	0	K.FEHSIWYEHR.L	
312 - 321	1156.5251	1155.5178	1155.5019	14	0	K.SEGGYVWACK.N	
353 - 365	1371.7262	1370.7189	1370.6790	29	0	K.TLESEAAHGTVTR.H	
373 - 389	1868.8818	1867.8745	1867.9064	-17	0	K.QQETSTNSIASIFAWTR.G	

Spot No.: **100**

Mascot score: **97**

Sequence coverage %: **31**

NCBI accession No.: **gi| 312281543**

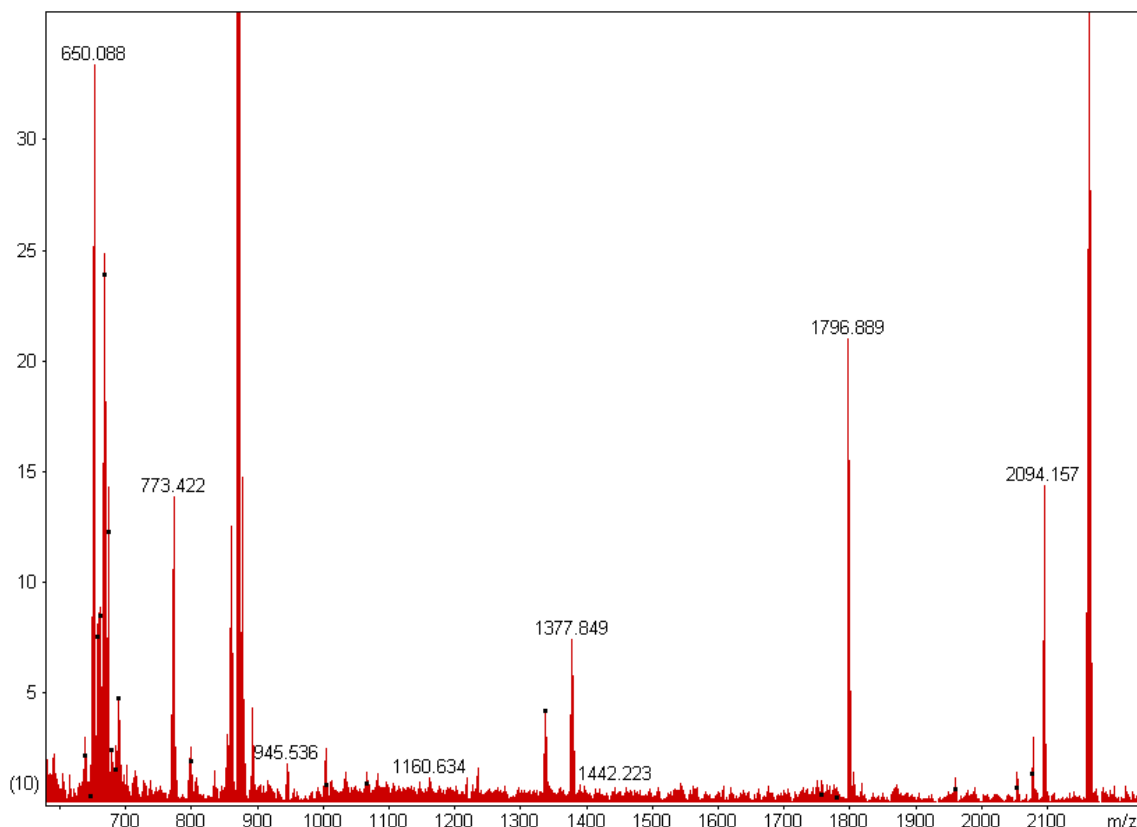
Matched peptides No.: **11**

Total peptides No.: **32**

Calculated Mr: **50983**

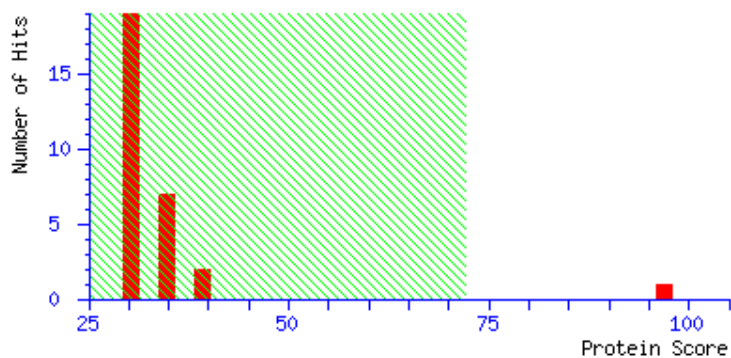
Calculated pI: **6.67**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MSSTHQLTSS LISSSSSTFL APSNFNRRAR NGCLPMAKRV NTCKCVATPQ
51 EKIEYKTNVS RNSNMSKLQA GYLFPPEIARR RSAHLLKYPD AQUIISLGIGD
101 TTEPIPEVIT SAIAEKAHEL STIEGYSGYG PEQGAKPLRA AIAKTFYSGL
151 GIGDDDIFVS DGAKCDISRL QVMFGSKVTI AVQDPSYPAY VDSSVIMGQT
201 GQFNIDVQKY GNIEYMKCTP ENGFFPDLST VGRTDIIFFC SPNNPTGAAA
251 TREQLKQLVE FAKKNGSIIV YDSAYAMYMS DDNPRSIFEI PGAEVAMET
301 ASFSKYYAGFT GVRLGWTVIP KQLLYSDGFP VAKDFNRIIC TCFNGASNLS
351 QAGALACLTP EGLEAMHKVI GFYKENTNII IDTFTSLGYD VYGGKNAPYV
401 WVHFPNQSSW DVFAEILEKT HVVTPGSGF GPGGEGFVRV SAFGHRENIL
451 EACRRFKQLY K

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
68 - 79	1377.8489	1376.8416	1376.7452	70	0	K.LQAGYLFPEIAR.R
117 - 136	2094.1568	2093.1495	2092.9701	86	0	K.AHELSTIEGYSGYGPEQGAK.P
145 - 164	2077.0959	2076.0886	2075.9688	58	0	K.TFYSGLGIGDDDIFVSDGAK.C
218 - 233	1796.8889	1795.8816	1795.8200	34	0	K.CTPENGFFPDLSTVGR.T
234 - 252	2053.1050	2052.0977	2051.9735	61	0	R.TDIIFFCSPNNPTGAAATR.E
306 - 313	870.4710	869.4637	869.4396	28	0	K.YAGFTGVR.L
322 - 333	1337.7687	1336.7614	1336.7027	44	0	K.QLLYSDGFPVAK.D
420 - 439	1959.0586	1958.0513	1957.9647	44	0	K.THVVTPGSGFGPGGEGFVR.V
440 - 446	773.4222	772.4149	772.3980	22	0	R.VSAFGHR.E
447 - 454	1004.5606	1003.5533	1003.4756	77	0	R.ENILEACR.R
447 - 455	1160.6340	1159.6267	1159.5768	43	1	R.ENILEACRR.F

Spot No.: **101**

Mascot score: **90** Sequence coverage %: **24**

NCBI accession No.: **gi| 297807495**

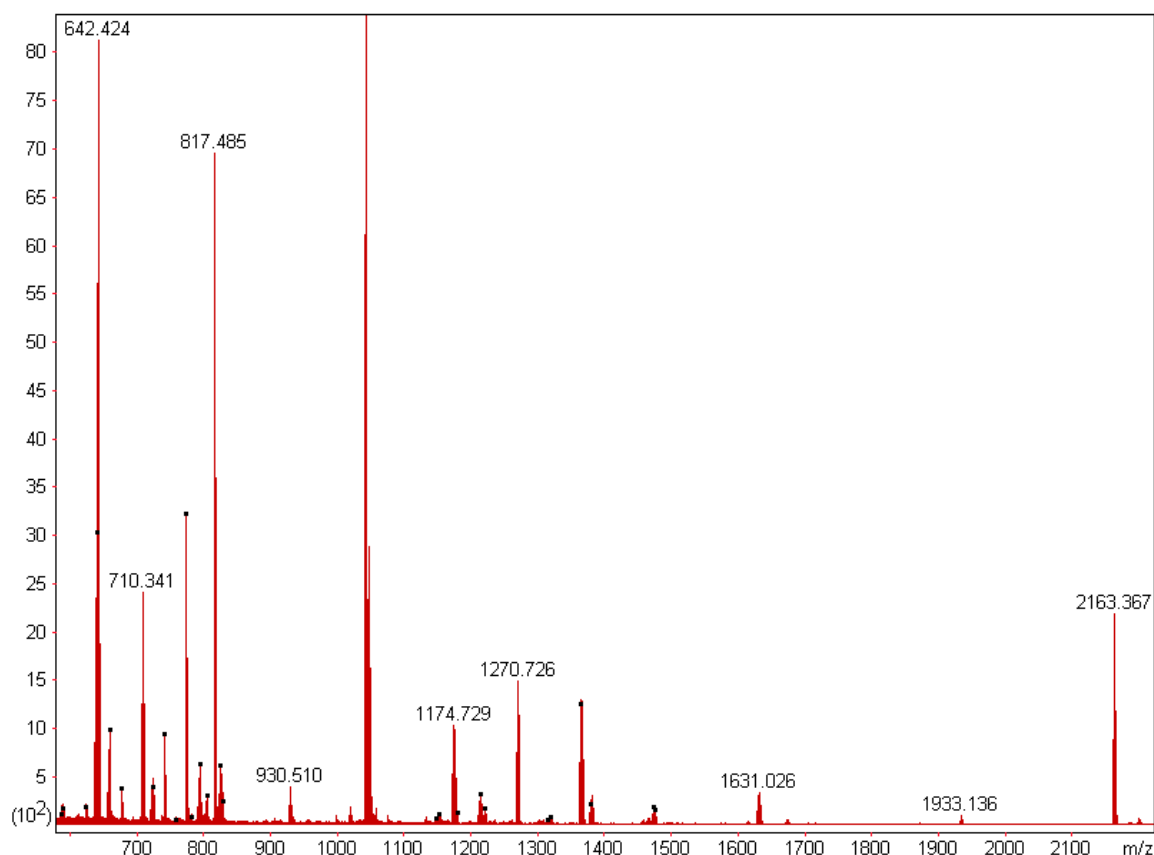
Matched peptides No.: **13**

Total peptides No.: **41**

Calculated Mr: **42647**

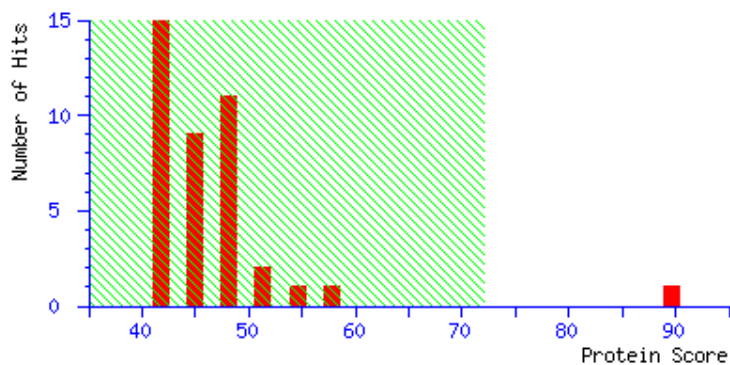
Calculated pI: **7.64**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAMRQATKAA IRACVSSSSS GYFARRQFNA SSGDSKKIVG VFYKANEYAT
51 KNPNFLGCVE NALGIRDWLE SQGHQYIVTD DKEGPDCELE KHIPDLHVLI
101 STPFHPAYVT AERIKKAKNL KLLLTAGIGS DHIDLQAAAA AGLTVAEVTG
151 SNVVSVAEDE LMRILILMRN FVPGYNQVVK GEWNVAGIAY RAYDLEGTI
201 GTVGAGRIGK LLLQRLKPFK CNLLYHDLRQ MAPELEKEIG AKFVEDLNEM
251 LPKCDVVVIN MPLTEKTRGM FNKELIGKLG KGLVIVNNAR GAIMDRQAVV
301 EAVESGHIGG YSGDVWDPQP APKDHPWRYM PNQAMPHTS GTTIDAQLRY
351 AAGTKDMLER YFKGEDFPAQ NYIVKDGELA PQYR

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
2 - 8	805.4180	804.4107	804.4276	-21	1	M.AMRQATK.A
38 - 44	825.4944	824.4872	824.4796	9	0	K.IVGVFYK.A
83 - 91	1076.5447	1075.5374	1075.4492	82	0	K.EGPDCELEK.H
164 - 169	758.4226	757.4153	757.4884	-96	0	R.ILILMR.N
164 - 169	774.4913	773.4841	773.4833	1	0	R.ILILMR.N Oxidation (M)
192 - 198	795.3877	794.3804	794.3810	-1	0	R.AYDLEGT.T
211 - 215	642.4243	641.4170	641.4224	-8	0	K.LLLQR.L
229 - 237	1058.5791	1057.5718	1057.5477	23	0	R.LQMAPELEK.E
291 - 296	678.3009	677.2937	677.3166	-34	0	R.GAIMDR.Q Oxidation (M)
324 - 328	710.3415	709.3342	709.3296	6	0	K.DHPWR.Y
350 - 360	1270.7262	1269.7189	1269.6023	92	1	R.YAAGTKDMLER.Y Oxidation (M)
364 - 375	1380.8021	1379.7948	1379.6721	89	0	K.GEDFPAQNYIVK.D
376 - 384	1048.5862	1047.5789	1047.4985	77	0	K.DGELAPQYR.-

Spot No.: **102**

Mascot score: **87** Sequence coverage %: **41**

NCBI accession No.: **gi| 255611315**

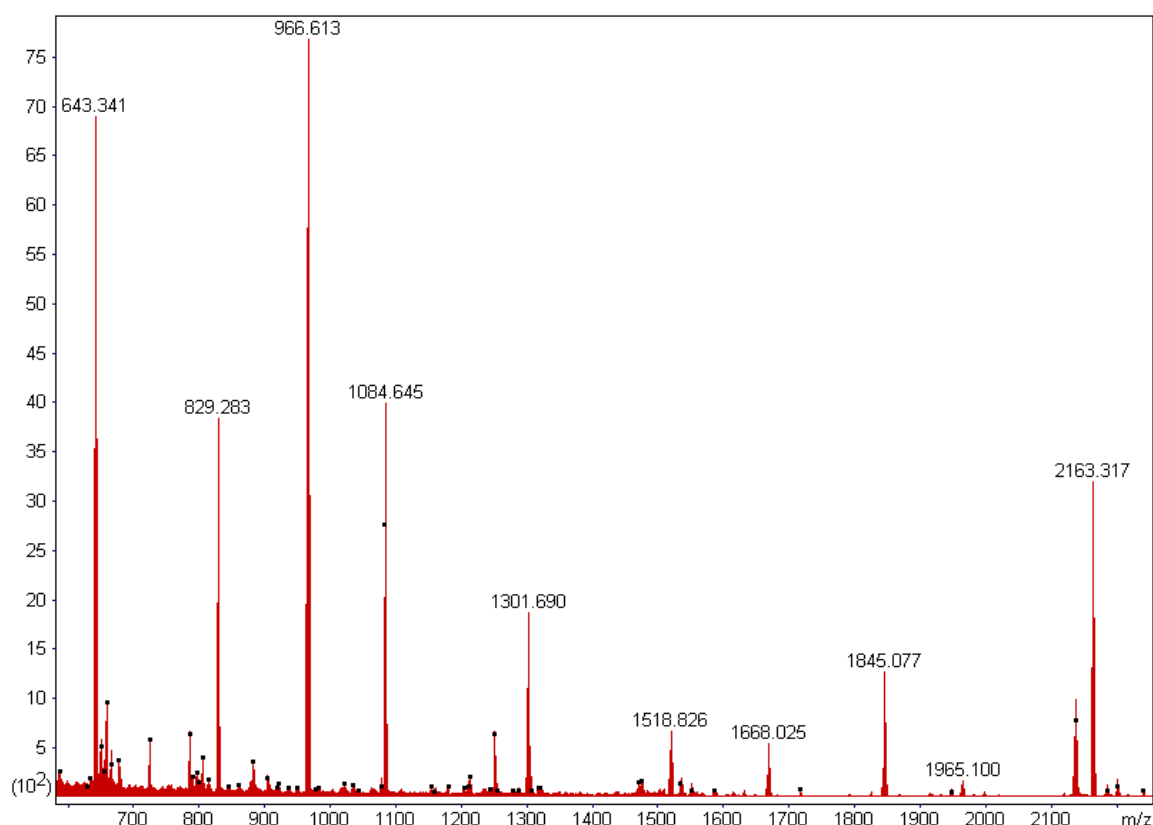
Matched peptides No.: **17**

Total peptides No.: **82**

Calculated Mr: **37517**

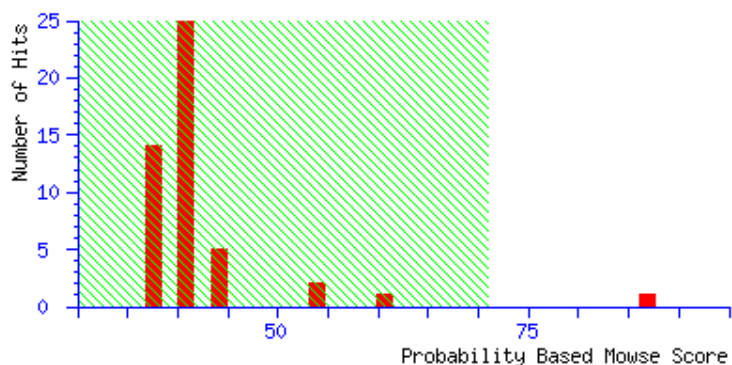
Calculated pI: **7.64**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MLVQYTRPAP CRLNAVGRAA QIGEQHADVV SFAVERDDRW RADAQREQRL
51 HGGCLCVHEL HGVALLGGFA RAIDDGDFPF VACFGQLCNR AVAIAAFDLL
101 DEQFLRGFVE MHGRCKLFAP ARFHARREMV DEMRAAIAA AQMKRQEGSV
151 GGPADTERLG HDAVEVGGRD HALAHQIDAF AENRRLQAIC DESVDFLAYF
201 QRTLAERAIE VERSVQDQAG CLRIRHHLDE RQQMRRIERM PDETAGRLH
251 LAGLNRSNA RTGRKEQAMR RRGPFDCPE SGLEVGAFA VLLNEIRVGN
301 GVGKIGLERE LLKCGAHVVA ERLQSRHGLC H

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 12	1491.8564	1490.8491	1490.7486	67	0 -.MLVQYTRPAPCR.L
1 - 12	1507.8403	1506.8330	1506.7435	59	0 -.MLVQYTRPAPCR.L Oxidation (M)
42 - 49	973.6154	972.6082	972.4737	138	1 R.ADAQREQR.L
91 - 106	1791.8446	1790.8373	1790.9567	-67	0 R.AVAIAAFDLLDEQFLR.G
91 - 114	2705.3165	2704.3092	2704.3795	-26	1 R.AVAIAAFDLLDEQFLRGFVEMHGR.C
127 - 134	1065.6075	1064.6002	1064.4743	118	1 R.REMVDEMR.K
128 - 135	1037.6078	1036.6005	1036.4681	128	1 R.EMVDEMRK.A
145 - 158	1458.8265	1457.8192	1457.6859	91	1 K.RQEGSVGGPADTER.L
146 - 158	1302.7925	1301.7852	1301.5848	154	0 R.QEGSVGGPADTER.L
159 - 169	1109.5772	1108.5699	1108.5625	7	0 R.LGHDAVEVGGR.D
170 - 184	1707.8855	1706.8782	1706.8125	39	0 R.DHALAHQIDAFENR.R
214 - 223	1165.6717	1164.6644	1164.5016	140	0 R.SVDQAGCLR.I
214 - 225	1434.8715	1433.8642	1433.6868	124	1 R.SVDQAGCLR.H
224 - 231	1075.6494	1074.6421	1074.5683	69	1 R.IRHHLDER.Q
226 - 235	1365.7514	1364.7441	1364.6367	79	1 R.HHLDERQQMR.R Oxidation (M)
237 - 248	1405.9420	1404.9347	1404.6303	217	1 R.IERMPDETAGR.L Oxidation (M)
323 - 331	1107.6242	1106.6169	1106.5403	69	1 R.LQSRHGLCH.-

Spot No.: **103**

Mascot score: **83** Sequence coverage %: **28**

NCBI accession No.: **gi| 22326744**

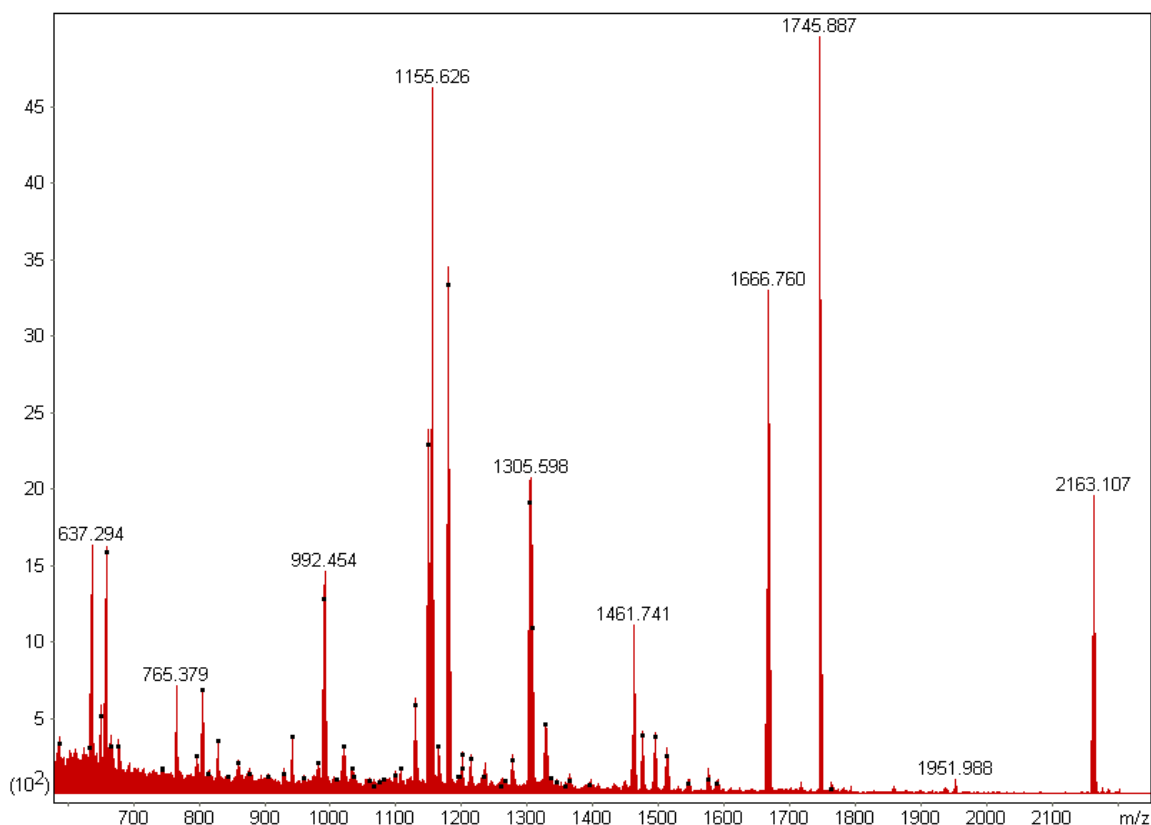
Matched peptides No.: **9**

Total peptides No.: **35**

Calculated Mr: **40647**

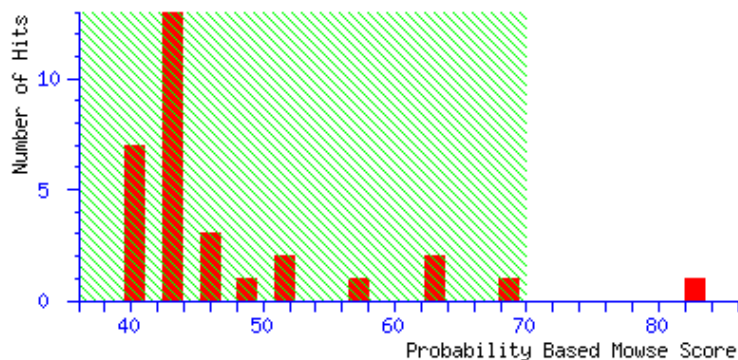
Calculated pI: **8.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MKSAISSSLF FNSKNLLNPN PLSRFISLKS NFLPKLSPRS ITSHTLKLPS
51 SSTSALRSIS SSMASFFNPE QARVPSALPL PAPPLTKFNI GLCQLSVTSD
101 KKRNIHAKK AIEEAASKGA KLVLLPEIWN SPYSNDSFPV YAEEDAGGD
151 ASPSTAMLSE VSKRLKITII GGSIPERVGD RLYNTCCVFG SDGELKAKHR
201 KIHLFDIDIP GKITFMESKT LTAGETPTIV DTDVGRIGIG ICYDIRFQEL
251 AMIYAARGAH LLCYPGAFNM TTGPLHWELL QRARATDNQL YVATCSPARD
301 SGAGYTAWGH STLVGPFGEV LATTEHEEAI IIAEIDYSIL EQRRTSPLPLN
351 RQRRGDLYQL VDVQRLDSK

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
111 - 121	1074.4992	1073.4919	1073.5716	-74	1	K.AIEEAASKGAK.L
167 - 177	1155.6261	1154.6188	1154.6659	-41	0	K.ITIIGGSIPER.V
182 - 196	1762.7917	1761.7844	1761.7702	8	0	R.LYNTCCVFGSDGELK.A
201 - 212	1395.7500	1394.7427	1394.7922	-35	1	R.KIHLFDIDIPGK.I
220 - 236	1745.8874	1744.8801	1744.8843	-2	0	K.TLTAGETPTIVDTDVGR.I
247 - 257	1328.6342	1327.6269	1327.6594	-24	0	R.FQELAMIYAAR.G Oxidation (M)
285 - 299	1666.7603	1665.7530	1665.7781	-15	0	R.ATDNQLYVATCSPAR.D
354 - 365	1461.7407	1460.7334	1460.7736	-27	1	R.RGDLYQLVDVQR.L
355 - 365	1305.5979	1304.5906	1304.6725	-63	0	R.GDLYQLVDVQR.L

Spot No.: **104**

Mascot score: **87** Sequence coverage %: **20**

NCBI accession No.: **gi| 9294283**

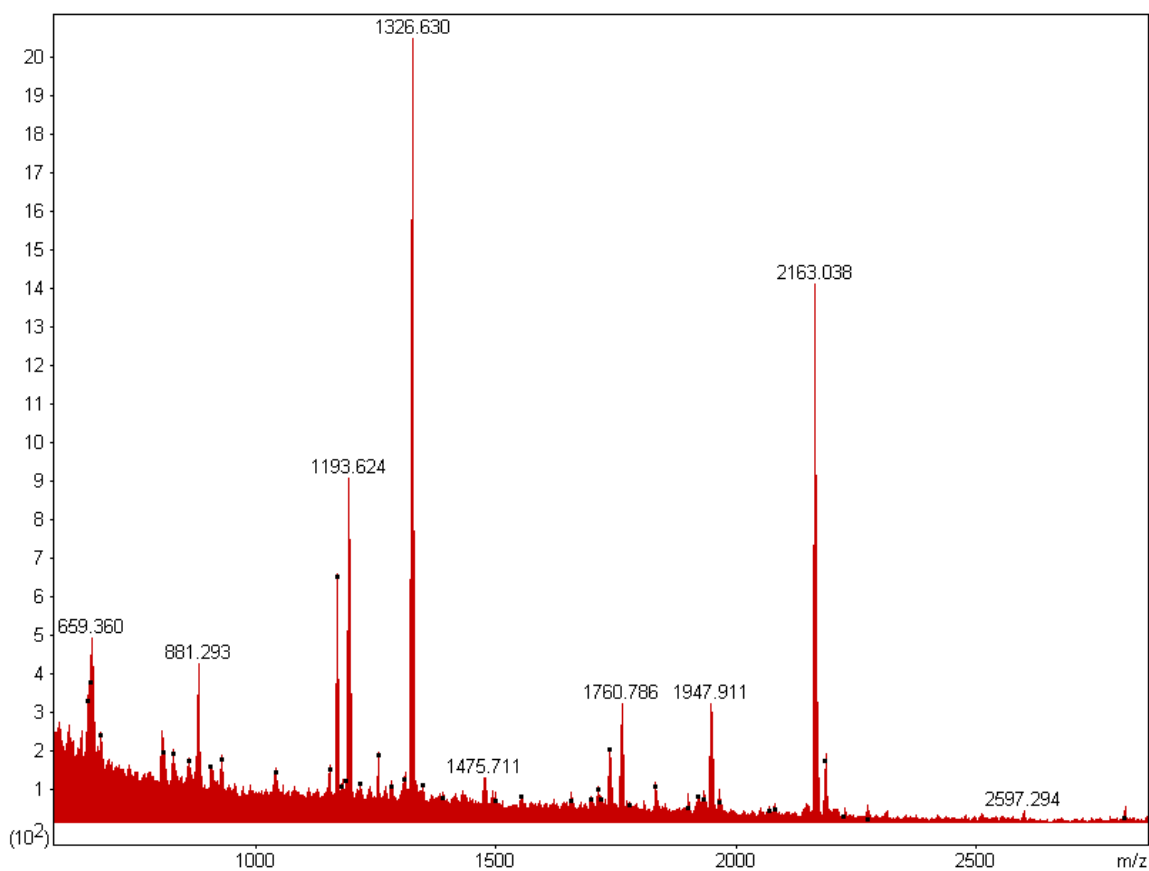
Matched peptides No.: **8**

Total peptides No.: **23**

Calculated Mr: **42298**

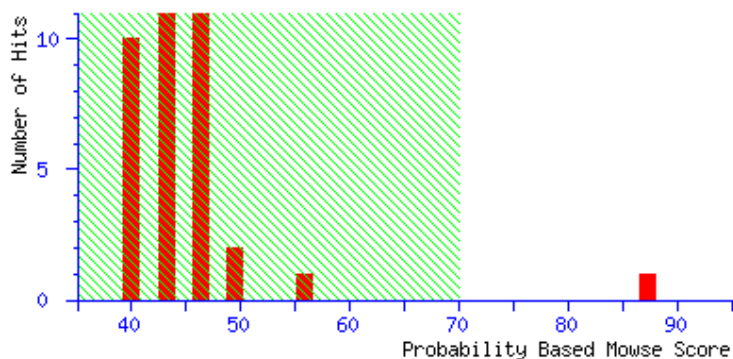
Calculated pI: **5.20**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MEEVLTNPKA GFYMNR DVFG A QGDFITSPE VSQMFGE MIG VWTVCLWEQM
51 GRPERVNLVE LGPGRGTLMA DLLRGTSKFK NFTESLHIHL VECSPALQKL
101 QHQNLIKCTDE SSSEKKAVSS LAGTPVHWHA TLQEVPSGVP TLIIAHEFYD
151 ALPVHQFQTQ YLQKSTRGWC EKMVDVGEDS KFRFVLSPQP TPAALYLMKR
201 CTWATPEERE KMEHVEISPK SMDLTQEMAK RIGSDGGGAL IIDYGMNAII
251 SDSLQAIRKH KFVNILDDPG SADLSAYVDF PSIKHSAAEA SENVSVHGPM
301 TQSQFLGSLG INFRVDALLO NNCNDEQAESL RAGYWQLVGD GEAPFWEQPN
351 EQTPIGMGR YLAMSI VKNK QGIPAPFQ

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 16	1931.9015	1930.8942	1930.8917	1	1	-. MEEVLTNPKAGFYMNR .D 2 Oxidation (M)
107 - 116	1170.4983	1169.4910	1169.4870	3	1	K. CTDESSSEK .A
173 - 183	1282.6042	1281.5969	1281.6023	-4	1	K. MVDVGEDSKFR .F
182 - 199	2079.0283	2078.0210	2078.1387	-57	1	K. FRFVLS PQP TPAALYLMK .R
184 - 200	1947.9113	1946.9040	1947.0652	-83	1	R. FVLS PQP TPAALYLMK .C Oxidation (H)
210 - 220	1326.6296	1325.6223	1325.6649	-32	1	R. KMEHVEISPK .S
221 - 230	1153.5889	1152.5816	1152.5155	57	0	K. SMDLTQEMAK .R
221 - 231	1309.6448	1308.6375	1308.6166	16	1	K. SMDLTQEMAKR .I

Spot No.: **105**

Mascot score: **84** Sequence coverage %: **25**

NCBI accession No.: **gi| 75149864**

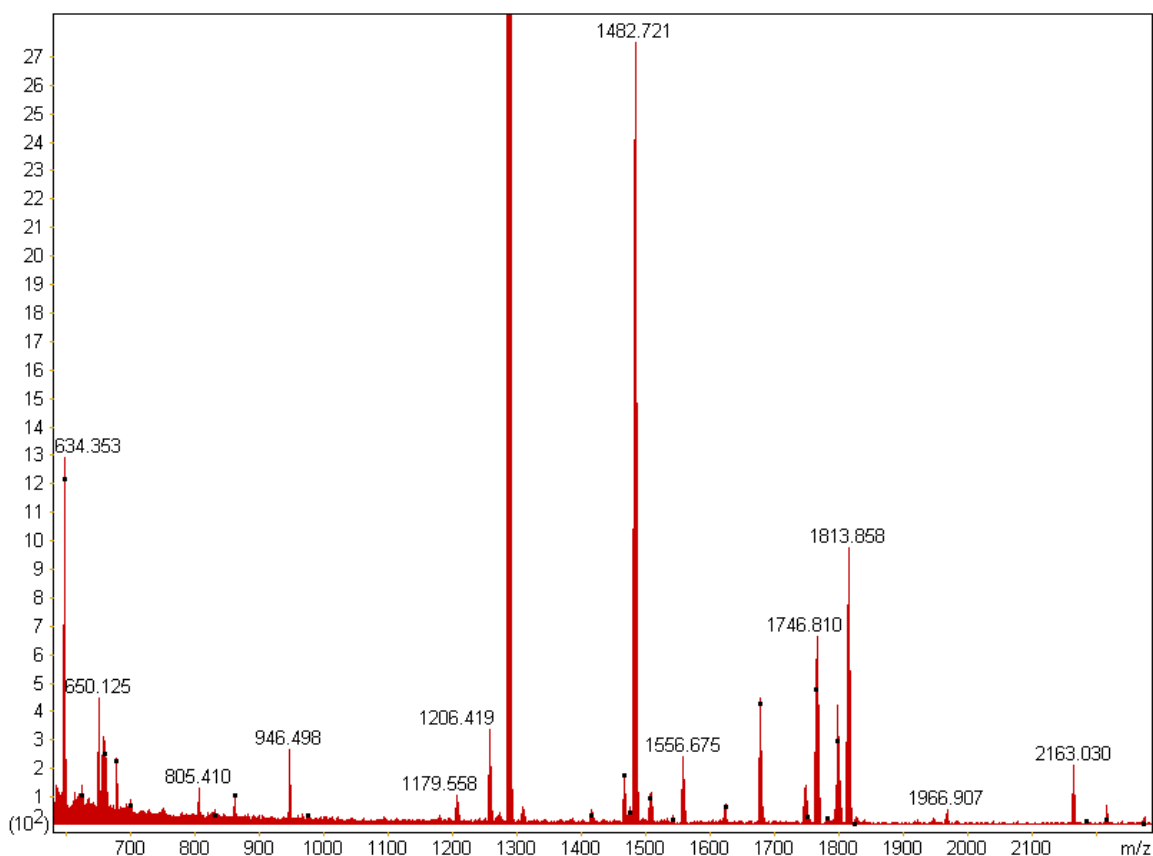
Matched peptides No.: **9**

Total peptides No.: **21**

Calculated Mr: **50562**

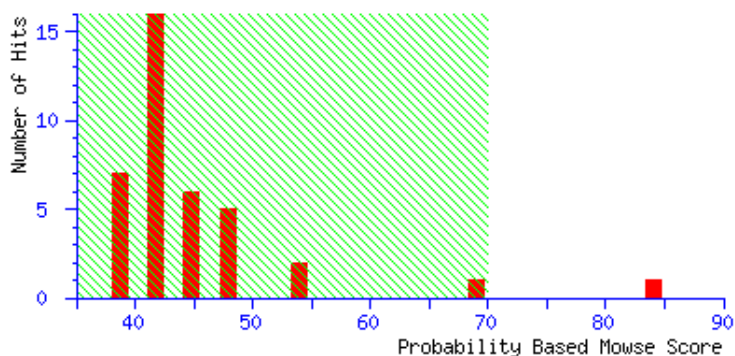
Calculated pI: **6.43**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSATLTGSGT ALGFSCSSKI SKR**VSSSPST** **RCSIK**MSVSV DEK~~KK~~SFTLQ
51 KSEEAFA~~NA~~AK **NLM****PGGVNSP** **VRA**FKSVGGQ PVLIDSVKGS KMWDIDGNEY
101 IDYVGSWGP~~A~~ IIGHADDEVL AALAETMKKG TSFGAPCLLE NVLAEMVISA
151 VPSIEMVRFV **NSGTEACMGV** **LRL**LARAFTNK EKFIKFEGCY HGHANAFLVK
201 **AGSGVATLGL** **PDS**PGVPKAA TSDTLTAPYN DIEAVAKLFE AHKGEISAVI
251 LEPVVGNSGF ITPTPEFING LRQLTK**DNGA** **LLIFDEVMTG** **FRLAYGGAQE**
301 **YFGITPDLTT** **LGKIIGGLP** **VGAYGRR**DI MEMVAPAGPM YQAGT~~LS~~GNP
351 LAMTAGIHTL KRLKQPGTYE YLDKIT**KELT** **NGILEAGKKT** GHPMCGGYIS
401 GMFGFFFAEG PVYNFADAKK SDTEKFGKFF RGMLEEGVYF APSQFEAGFT
451 SLAHTSEDIQ FTISAAERVL GRI

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
24 - 35	1308.6864	1307.6791	1307.6503	22	1	R.VSSSPSTRCSIK.M
61 - 72	1256.6068	1255.5995	1255.6343	-28	0	K.NLM PGGVNSPVR .A Oxidation (M)
159 - 172	1540.6894	1539.6821	1539.7174	-23	0	R.FVNSGTEACMGVLR.L
159 - 172	1556.6753	1555.6680	1555.7123	-28	0	R.FVNSGTEACMGVLR.L Oxidation (M)
201 - 218	1622.8367	1621.8294	1621.8676	-24	0	K.AGSGVATLGLPDS PGVPK .A
277 - 292	1813.8578	1812.8505	1812.8716	-12	0	K.DNGALLIFDEVMTGER.L Oxidation (M)
293 - 313	2215.0999	2214.0926	2214.1208	-13	0	R.LAYGGAQEYFGITPDLTT LK .I
314 - 327	1286.7051	1285.6978	1285.7143	-13	0	K.IIGGLPVGAYGGR.R
378 - 389	1272.6205	1271.6132	1271.7085	-75	1	K.ELTNGILEAGK K .T

Spot No.: **106**

Mascot score: **96** Sequence coverage %: **18**

NCBI accession No.: **gi| 77556926**

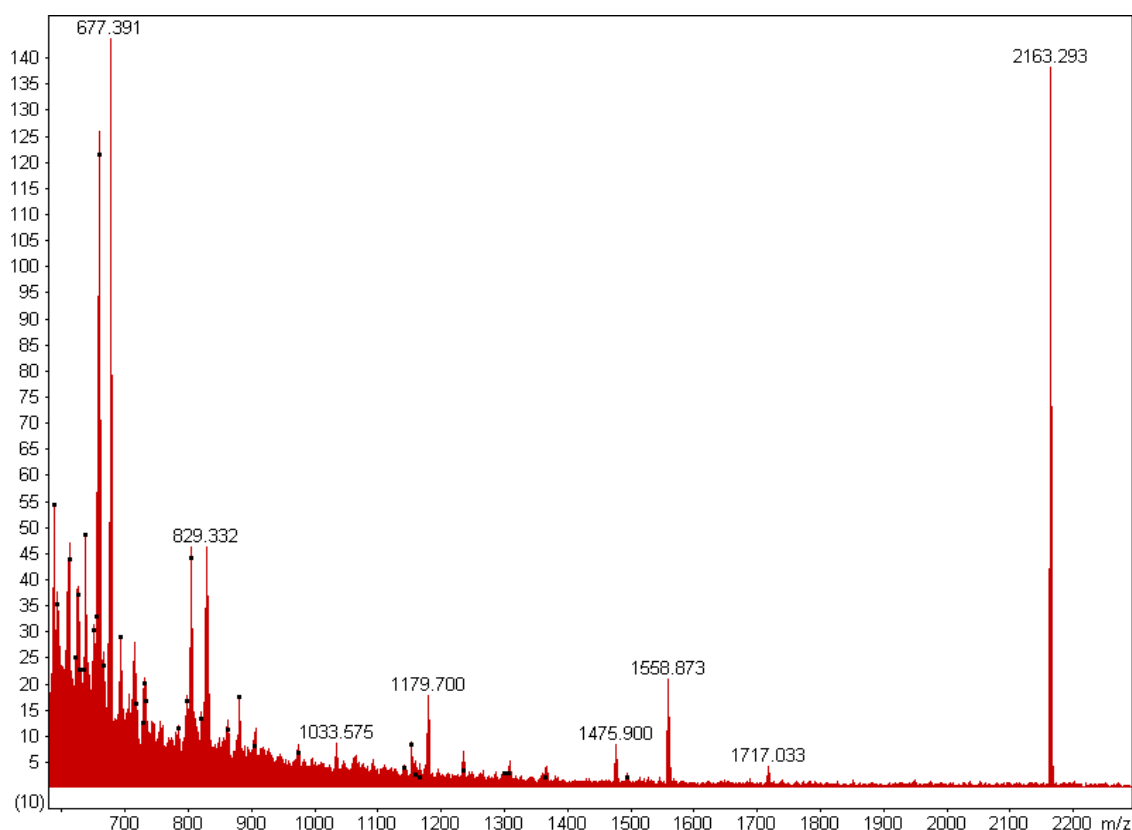
Matched peptides No.: **10**

Total peptides No.: **23**

Calculated Mr: **45918**

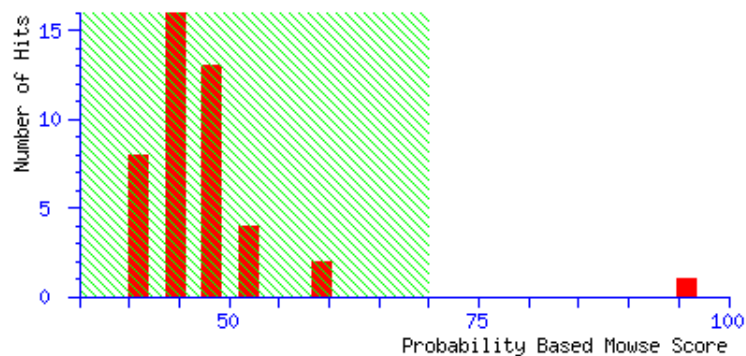
Calculated pI: **7.99**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAAAQPPLPW GDLPADLLGL VLLR**LPSLPD** RVRLRAVCRS WRAGAA**GRH**
51 **PRL**PPPLPWL ALRDGGLVDL DGEPIRCPTP IPRHG**VVGH**L AVDN**LAF**LIH
101 RDGGCSLLNP LSSSASAATA AITPLPWLN**L** AAVDGAIGQP GVF**IGIG**AYV
151 NVYSKSVLSS PLDSSPDPLV AVVTS**GGRHV** **AVAPCK**RRGV VTIVSGLM**AP**
201 QIPGLNPTRF SDIAFLGGNL YTLTNAEGLL VLDLGSNGVD DPPNASH**RRC**
251 IADDPNQHEY YIDG**STKNKS** **LVLRYLVGSN** **GRLLMVRR**WM NCR**QQYYAGD**
301 **MDKTR**GFEVF AAVISDGHGQ WVKVDSLGDQ AIFLSSECSK SVTASQ**CADG**
351 IQQDCIYFMH RIYDNPT**KEC** **HGPCVDPLGD** **SGVYNMR**DGT INLLRPP**AVM**
401 **SELR**WKROYL TWFFPSDE

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
25 - 31	797.3482	796.3409	796.4443	-130	0 R.LPSLPDR.V
48 - 52	622.2700	621.2627	621.3459	-134	1 R.GRHPR.L
179 - 186	881.3734	880.3661	880.4589	-105	0 R.HVAVAPCK.R
268 - 274	829.3323	828.3251	828.5181	-233	1 K.NKSLVLR.Y
270 - 274	587.2406	586.2333	586.3802	-251	0 K.SLVLR.Y
275 - 287	1493.8278	1492.8205	1492.8184	1	1 R.YLVGSNGRLLMVR.R Oxidation (M)
294 - 303	1234.7275	1233.7202	1233.4972	181	0 R.QQYYAGDMDK.T Oxidation (M)
294 - 305	1475.8999	1474.8926	1474.6511	164	1 R.QQYYAGDMDKTR.G
369 - 387	2163.2927	2162.2854	2161.8980	179	0 K.ECHGPCVDPLGDSGVYNMR.D
398 - 404	805.4483	804.4410	804.4164	31	0 R.AVMSELR.W

Spot No.: **107**

Mascot score: **91** Sequence coverage %: **24**

NCBI accession No.: **gi| 710400**

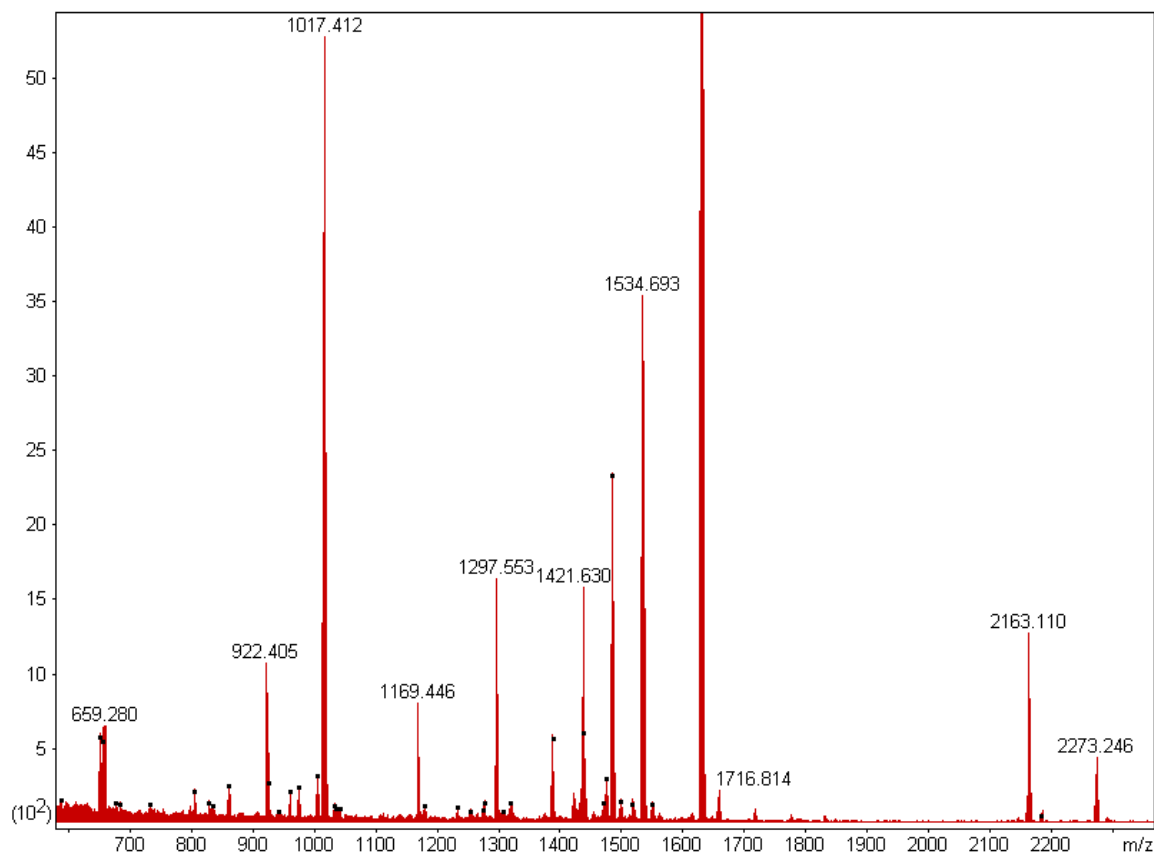
Matched peptides No.: **13**

Total peptides No.: **31**

Calculated Mr: **43460**

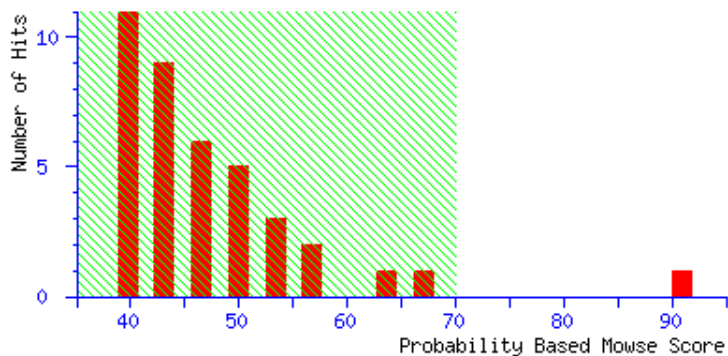
Calculated pI: **6.84**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MALSRLSSRS** NIITRPFSAA FSRLISTD TT PITIETSLPF TAHLCDPPSR
51 SVESSSQELL DFFRTMALMR RMEIAADSLY KANVIRGFCH LYDGQEAVAI
101 GMEAAITKKD **AIITAYRDHC IFLGRGSLH EVFSELMGRQ** AGCSKGGGS
151 **MHFYK**KESSF YGGHGIVGAQ VPLGCGIAFA QKYNKEEAVT FALYGDGAAN
201 QGQLFEALNI SALWDLPAIL VCENNHYGMG TAEWRAAKSP SY~~YK~~**RGDYVP**
251 **GLKVDGMDAF** AVKQACKFAK QHALEK**GPII** **LEMDTYR**YHG HSMSDPGSTY
301 **RTRDEISGVR** **QERDPIER**IK KLVLSHDLAT EKELKDMEKE IRKEVDDAIA
351 KAKDCPMPEP SELFTNVYVK **GFGTESFGPD** **RKEVKASLP**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 9	1036.3839	1035.3766	1035.5495	-167	1	-.MALSRLSSR.S Oxidation (M)
110 - 117	922.4050	921.3978	921.4920	-102	0	K.DAIITAYR.D
118 - 125	1017.4119	1016.4046	1016.4862	-80	0	R.DHCIFLGR.G
126 - 139	1518.6931	1517.6858	1517.7297	-29	0	R.GGSLHEVSELMGR.Q
126 - 139	1534.6932	1533.6859	1533.7246	-25	0	R.GGSLHEVSELMGR.Q Oxidation (M)
148 - 155	926.3702	925.3629	925.4116	-53	0	K.GGSMHFYK.K
148 - 155	942.3386	941.3314	941.4065	-80	0	K.GGSMHFYK.K Oxidation (M)
245 - 253	1004.4716	1003.4643	1003.5451	-80	1	K.RGDYVPLK.V
277 - 287	1307.5923	1306.5850	1306.6591	-57	0	K.GPIILEMDTYR.Y
302 - 310	1032.4433	1031.4360	1031.5360	-97	1	R.TRDEISGVR.Q
311 - 318	1042.4185	1041.4112	1041.5203	-105	1	R.QERDPIER.I
371 - 381	1169.4463	1168.4390	1168.5149	-65	0	K.GFGTESFGPDR.K
371 - 382	1297.5532	1296.5459	1296.6099	-49	1	K.GFGTESFGPDRK.E

Spot No.: **108**

Mascot score: **108** Sequence coverage %: **24**

NCBI accession No.: **gi| 15226690**

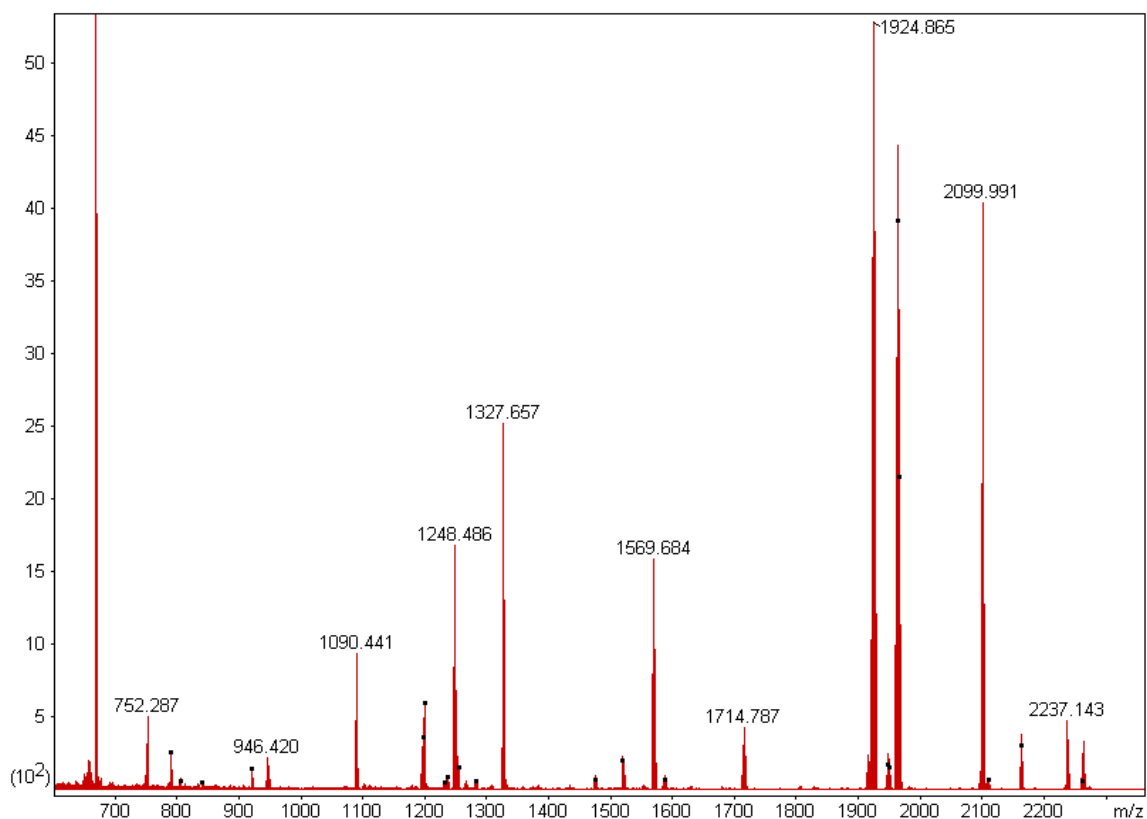
Matched peptides No.: **12**

Total peptides No.: **29**

Calculated Mr: **43724**

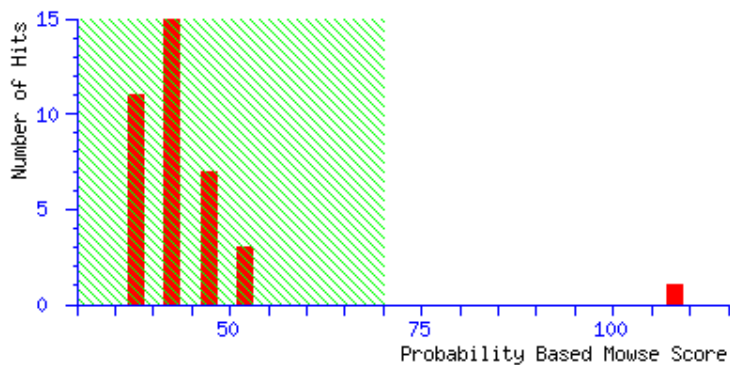
Calculated pI: **8.29**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSILQVSTSS LSSSTLLSIS PRKSLSSSTKS CRIVRCSVEG TTVTERKVSA
51 TSEPLLLRAV KGEVVDRPV**WLMR**QAGRYM KSYQTLCEKY **PSFR**DRSENA
101 DLVVEISLQP WKVFKPDGVI LFSDILTP**LS** GMNIPFDIVK GKGPIIFNPP
151 QSAADVAQVR EFVPEESVPY VGEALRRLRN EVNNEAAVLG FVGAPFTLSS
201 YVIEGGSSKN FTQIKRLAFS QPKVLHALLQ KFTTSMITYI RYQADSGAQA
251 VQIFDSWATE LSPVDFEEFS LPYLKQIVEA VKQTHPNLPL ILYASGSGGL
301 LERLARTGVD VVSLDWTVDMAEGRDRLGRD IAVQGNVDPG VLFGSKEFIT
351 SRIHD**TVKKA** GRDKHILNLG HGIKVGTPEE NVAHF**FEVAQ** EIRY

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
2 - 22	2163.0194	2162.0121	2162.1794	-77	0 M.SILQVSTSS LSSSTLLSIS PR.K
30 - 35	790.3277	789.3204	789.4279	-136	1 K.SCRIVR.C
62 - 74	1569.6845	1568.6772	1568.8133	-87	0 K.GEVVD RPVWLMR .Q Oxidation (M)
90 - 94	669.2677	668.2604	668.3282	-101	0 K.YPSFR.D
216 - 223	946.4203	945.4130	945.5396	-134	1 K.RLAF SQPK .V
224 - 231	921.4327	920.4254	920.5807	-169	0 K.VLHALL QK .F
232 - 241	1232.5050	1231.4977	1231.6271	-105	0 K.FTT SMITYI R.Y
232 - 241	1248.4858	1247.4785	1247.6220	-115	0 K.FTT SMITYI R.Y Oxidation (M)
307 - 324	1949.8088	1948.8015	1948.9201	-61	0 R.TGVD VVSLDWTVDMAEGR .D
307 - 324	1965.8684	1964.8611	1964.9150	-27	0 R.TGVD VVSLDWTVDMAEGR .D Oxidation (M)
307 - 326	2237.1431	2236.1358	2236.0430	41	1 R.TGVD VVSLDWTVDMAEGRDR .L Oxidation (M)
347 - 352	752.2869	751.2796	751.3864	-142	0 K.EFIT SR .I

Spot No.: **109**

Mascot score: **118** Sequence coverage %: **42**

NCBI accession No.: **gi| 312282695**

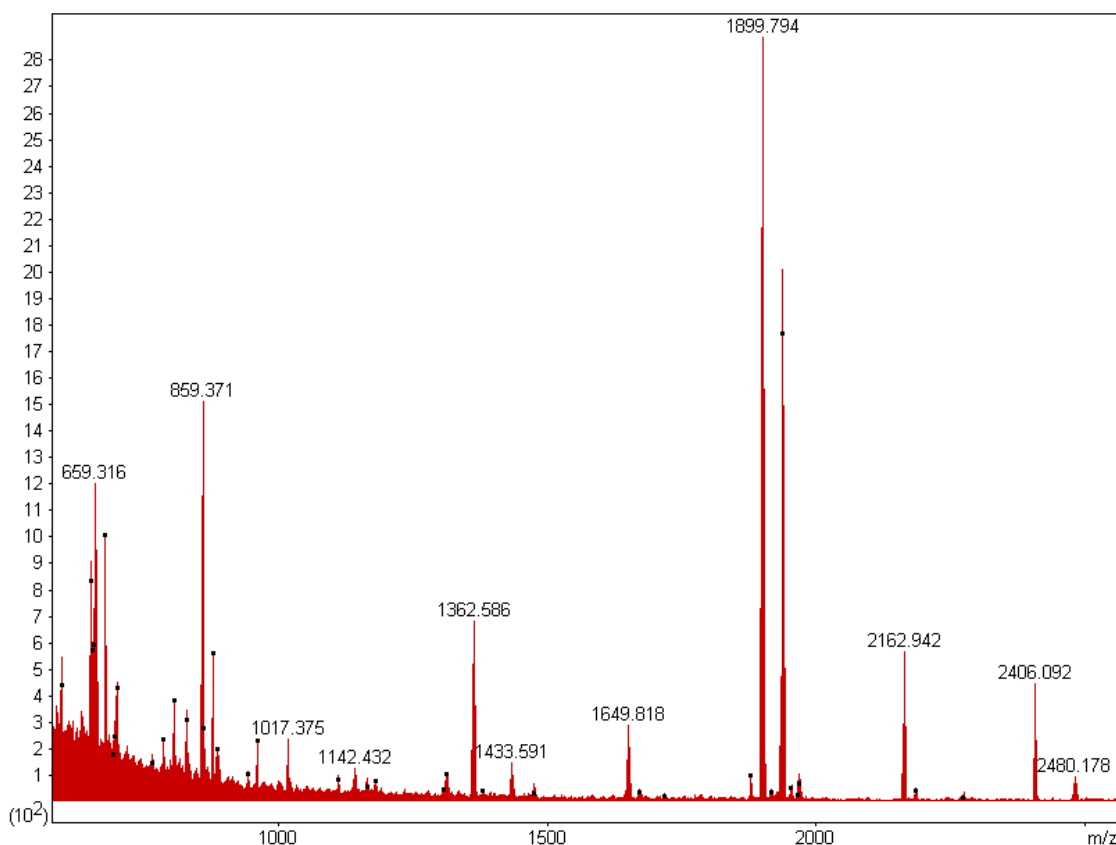
Matched peptides No.: **13**

Total peptides No.: **30**

Calculated Mr: **35946**

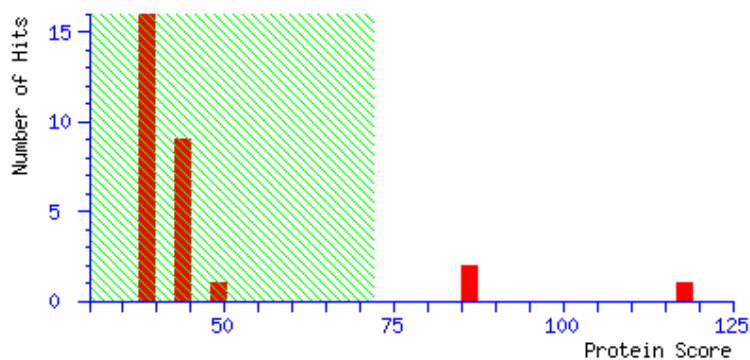
Calculated pI: **6.33**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAKDPVRVLV TGAAGQIGYA LVPMIARGIM LGADQPVLH MLDIPPAAEA
51 LNGVKMELVD AAFPLLKGVV ATTDAVEGCT GVNVAVMVGG FPRKEGMEREK
101 DVMSKNVSIY KSQAAALEKH AAPNCKVLVV ANPANTNALI LKEFAPSIPE
151 KNITCLTRLD HNRALGQVSE RLSVPVSDVK NVIIWGNHSS TQYPDVNHAT
201 VKTSSGEKPV RELVKNDEWL NGEFISTVQQ RGAATIKARK LSSALSAASS
251 ACDHIRDWVL GTPGTFVSM GVYSDGSYNV PSGLIYSFPV TCRNGEWSIV
301 QGLPIDEVSR KKMDLTAEEL KEEKDLAYSC LS

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
56 - 67	1362.5865	1361.5792	1361.7265	-108	0	K.MELVDAAFPLLK.G Oxidation (M)
95 - 100	765.2871	764.2799	764.3487	-90	1	K.EGMEREK.D Oxidation (M)
127 - 142	1649.8180	1648.8107	1648.9876	-107	0	K.VLVVANPANTNALILK.E
143 - 151	1017.3746	1016.3673	1016.5178	-148	0	K.EFAPSIPEK.N
152 - 158	877.3595	876.3523	876.4487	-110	0	K.NITCLTR.L
159 - 163	654.2545	653.2472	653.3245	-118	0	R.LDHN.R.A
164 - 171	859.3711	858.3638	858.4559	-107	0	R.ALGQVSER.L
172 - 180	943.3793	942.3720	942.5386	-177	0	R.LSVPVSDVK.N
181 - 202	2480.1777	2479.1704	2479.2244	-22	0	K.NVIIWGNHSSSTQYPDVNHATVK.T
203 - 211	960.4038	959.3965	959.5036	-112	1	K.TSSGEKPV.R.E
212 - 231	2406.0923	2405.0850	2404.2023	367	1	R.ELVKNDEWLNGEFISTVQQR.G
216 - 231	1936.7763	1935.7690	1934.9122	443	0	K.NDEWLNGEFISTVQQR.G
294 - 310	1899.7937	1898.7864	1897.9534	439	0	R.NGEWSIVQGLPIDEVSR.K

Spot No.: **110**

Mascot score: **163**

Sequence coverage %: **57**

NCBI accession No.: **gi| 312282121**

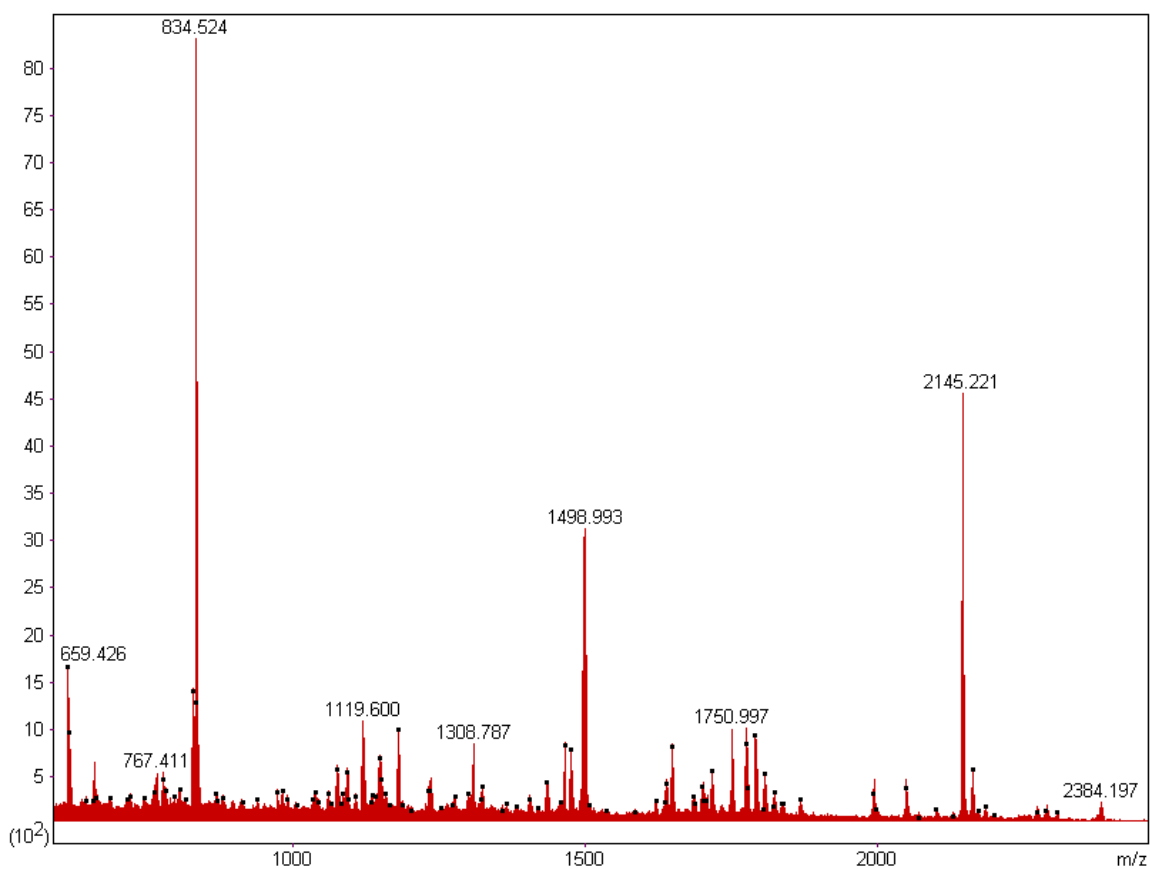
Matched peptides No.: **19**

Total peptides No.: **50**

Calculated Mr: **36888**

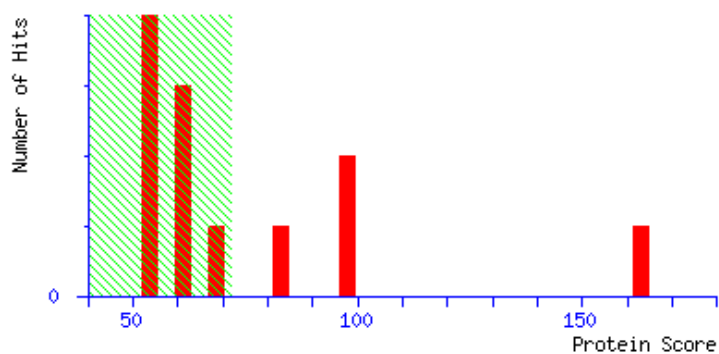
Calculated pI: **6.20**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MTGAKIKIGI **NGFGRIGRLV** ARVVLQRDDV ELVAVNDPFI TTEYMTYMFK
 51 **YDSVHGQWKH** HELKVKDEKT **LLFGEKPVTV** FGIKNPEDIP WGEAGADFVV
 101 ESTGVFTDKD **KAAHLKGGGA** KKVVISAPSK **DAPMFVGVN** **EHEYKSDLDI**
 151 VSNASCTTDC **LAPLAKVIND** **RFGIVEGLMT** TVHSITATQK **TVDGPSMKDW**
 201 **RGGRAASFNI** **IPSSTGAAKA** VGKVLPLQNG **KLTGMSFRVP** **TVDVSVVDLT**
 251 **VRLEKAATYD** **EIKKAIKEES** **EGKLGILGY** **TEDDVVSTDF** **VGDSRSSIFD**
 301 **AKAGIALSEN** **FVKLVSWDN** **EWGYSTRVVD** LIVHMSKA

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
8 - 15	833.5105	832.5033	832.4555	57	0	K.IGINGFGR.I
23 - 27	614.4461	613.4388	613.3911	78	0	R.VVLQR.D
51 - 59	1119.6001	1118.5928	1118.5145	70	0	K.YDSVHGQWK.H
67 - 76	1179.7037	1178.6964	1178.6183	66	1	K.DEKTLFGEK.P
70 - 84	1649.1241	1648.1168	1647.9600	95	1	K.TLLFGEKPVTVFGIK.N
131 - 145	1750.9969	1749.9896	1749.8032	107	0	K.DAPMFVGVNEHEYK.S Oxidation (M)
167 - 171	616.3935	615.3863	615.3340	85	0	K.VINDR.F
172 - 190	2049.2815	2048.2742	2048.0612	104	0	R.FGIVEGLMTTVHSITATQK.T Oxidation (M)
191 - 198	834.5240	833.5167	833.3953	146	0	K.TVDGPSMK.D
205 - 219	1434.8747	1433.8674	1433.7514	81	0	R.AASFNIIPSSTGAAK.A
232 - 238	827.4488	826.4415	826.4007	49	0	K.LTGMSFR.V Oxidation (M)
239 - 252	1498.9932	1497.9859	1497.8403	97	0	R.VPTVDVSVVDLTVR.L
239 - 255	1869.2394	1868.2321	1868.0619	91	1	R.VPTVDVSVVDLTVRLEK.A
256 - 264	1038.5976	1037.5903	1037.5393	49	1	K.AATYDEIKK.A
265 - 273	990.5377	989.5304	989.5029	28	1	K.AIKEESEGK.L
276 - 295	2145.2205	2144.2132	2143.9910	104	0	K.GILGYTEDDVVSTDFVGDSSR.S
296 - 302	767.4106	766.4033	766.3861	22	0	R.SSIFDAK.A
303 - 313	1148.7073	1147.7000	1147.6237	67	0	K.AGIALSENFVK.L
314 - 327	1776.0152	1775.0079	1774.7951	120	0	K.LVSWYDNEWGYSTR.V

Spot No.: **111**

Mascot score: **109** Sequence coverage %: **35**

NCBI accession No.: **gi| 166702**

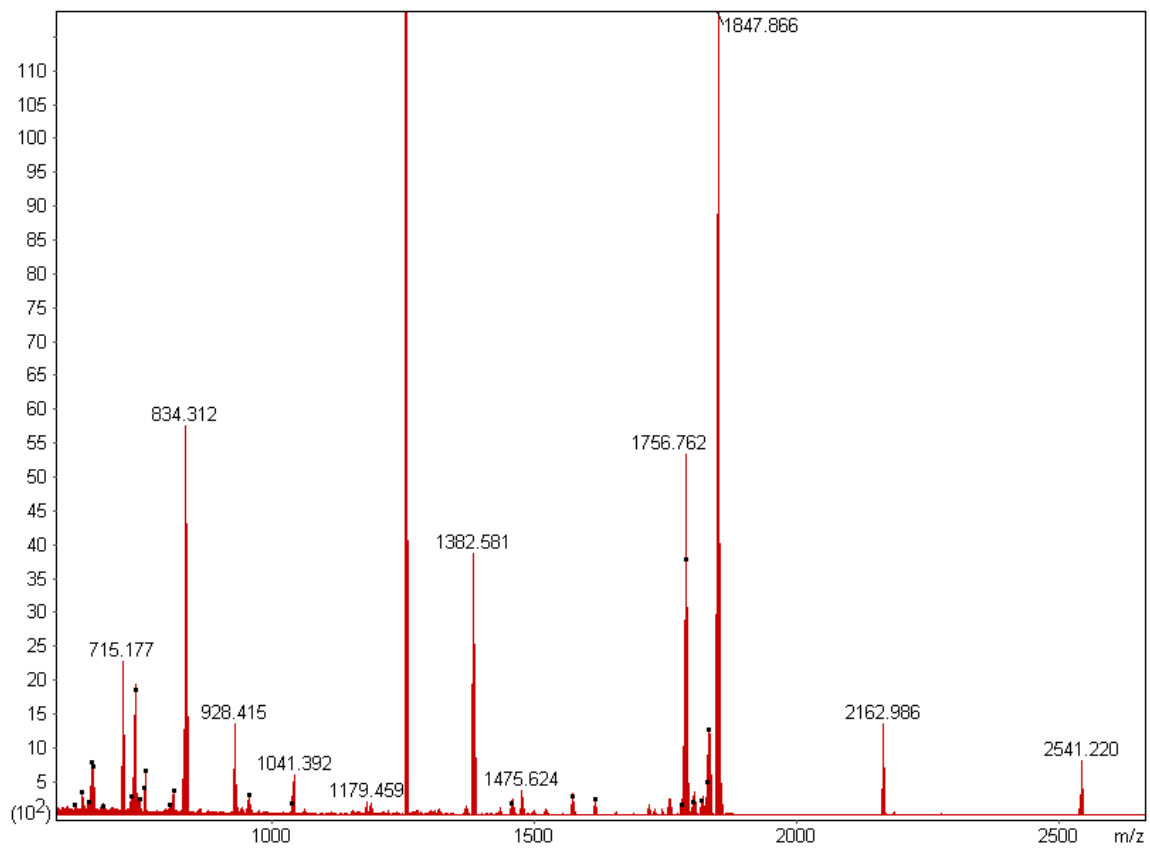
Matched peptides No.: **12**

Total peptides No.: **29**

Calculated Mr: **37937**

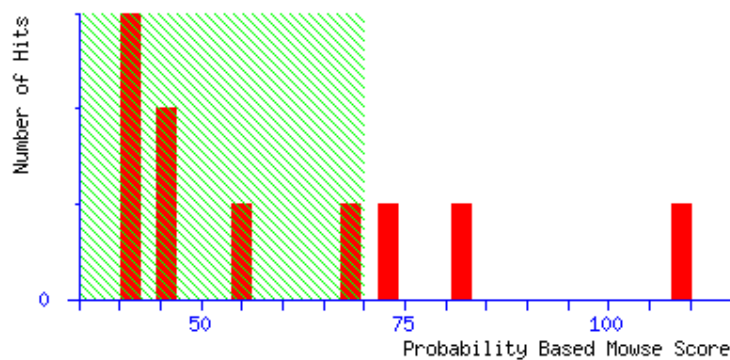
Calculated pI: **7.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MGSSGGYRKG VTEAKLKVAI NGFGRIGRNF LRCCWHGRKDS PLDIIAINDT
51 GGVKQASHLL KYDSTLGFID ADVKPSGETA ISVDGKIIQV VSNRNPSLLP
101 WKELGIDIVI EGTGVFVDRE GAGKHMEAGA KKVITAPGK GDIPTYVWGV
151 NADAYSHDEP IISNASCTTM CLAPFVKVLD QKFGIIKGTM TTTHSYTGDQ
201 RLLDASHRDL RRARAAALNI VPTSTGAAKA VALVLPNLKG KLNGIALRVP
251 TPNVSVDLV VQVSKTFAE EVNAAFRDSA EKELKGILDV CDEPLVSVDF
301 RCSDFSTTID SSLTMVMGDD MVKVIAWYDN EWGYSQRVVD LADIVANNWK
351

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 9	811.2828	810.2755	810.3984	-152	1	M.GSSGGYRK.G
33 - 37	715.1768	714.1695	714.3020	-186	0	R.CWHGR.K
87 - 94	928.4151	927.4078	927.5502	-153	0	K.IIQVSNR.N
103 - 119	1831.8466	1830.8393	1830.9727	-73	0	K.ELGIDIVIEGTGVFVDR.E
188 - 201	1571.5391	1570.5318	1570.6682	-87	0	K.GTMTTTHSYTGDQR.L Oxidation (M)
230 - 239	1037.4606	1036.4533	1036.6644	-204	0	K.AVALVLPNLK.G
242 - 248	756.3273	755.3201	755.4653	-192	0	K.LNGIALR.V
249 - 265	1779.8339	1778.8266	1779.0142	-105	0	R.VPTPNVSVDLVVQVSK.K
266 - 277	1382.5814	1381.5741	1381.6990	-90	1	K.KTFAEEVNAAFR.D
267 - 277	1254.4878	1253.4805	1253.6040	-99	0	K.TFAEEVNAAFR.D
324 - 337	1786.7127	1785.7054	1785.8111	-59	0	K.VIAWYDNEWGYSQR.V
338 - 350	1456.6131	1455.6058	1455.7722	-114	0	R.VVDLADIVANNWK.-

Spot No.: **112**

Mascot score: **95** Sequence coverage %: **21**

NCBI accession No.: **gi| 15238762**

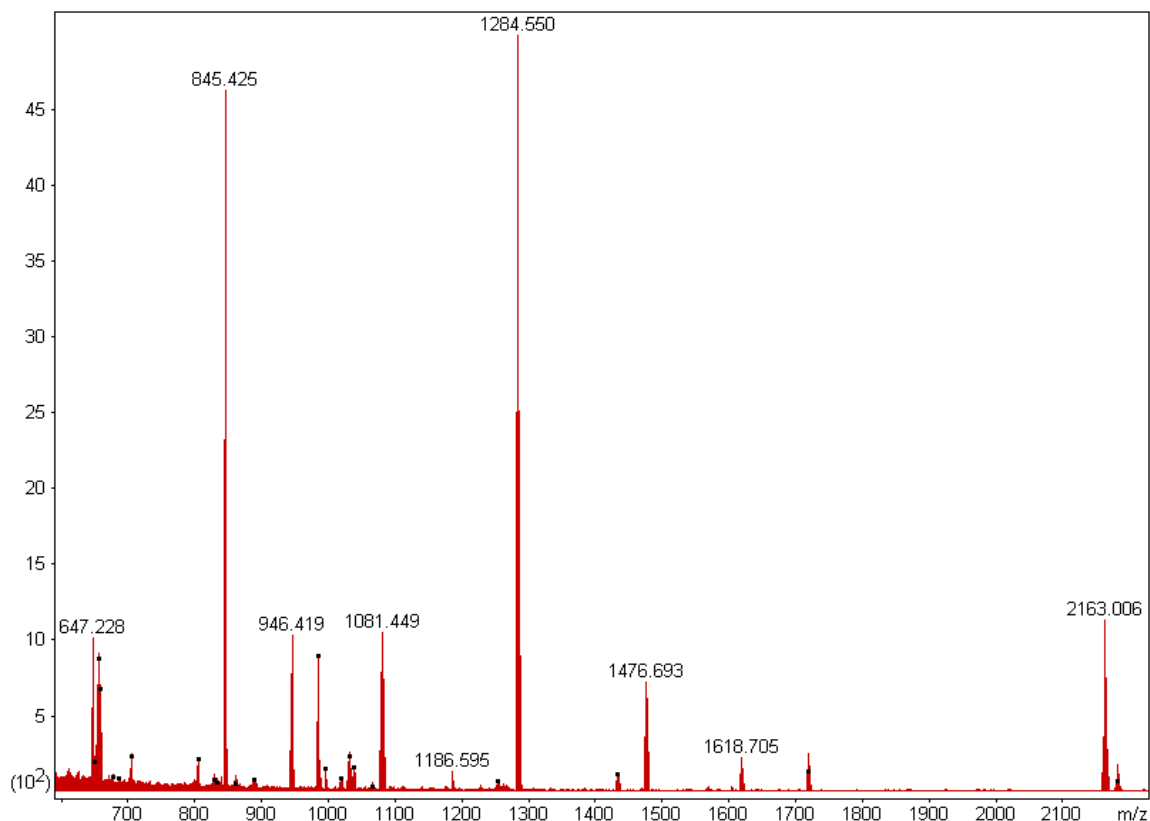
Matched peptides No.: **11**

Total peptides No.: **21**

Calculated Mr: **44781**

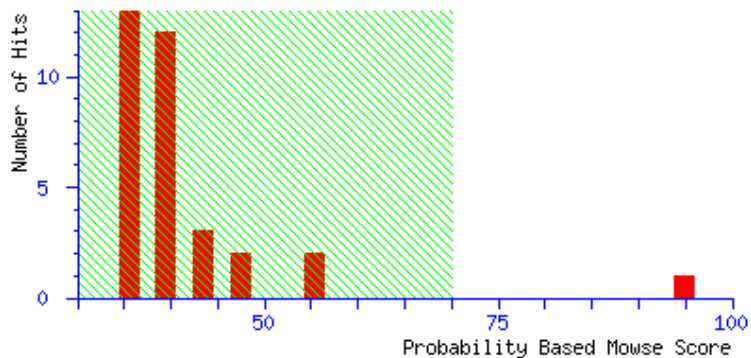
Calculated pI: **6.38**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MNALAATNRN FKLAAARLLGL DSKLEKSLLI PFREIKVECT IPKDDGTLAS
51 FVGFRVQHDN ARGPMKGGIR YHPEVDPDEV NALAQLMTWK TAVAKIPYGG
101 AKGGIGCDPS KLSISELERL TRVFTQKIHD LIGIHTDVPA PDMGTGPQTM
151 AWILDEYSKF HGYSFAVVTG KPIDLGGSLG RDAATGRGVM FGTEALLNEH
201 GKTISGQRFV IQGFGNVGSW AAKLISEKGG KIVAVSDITG AIKNKDGIDI
251 PALLKHTKEH RGVKGF DGAD PIDPNSILVE DCDILVPAAL GGVINRENAN
301 EIKAKFIEA ANHPTDPDAD EILSKKGVVI LPDIYANSGG VTVSYFEWVQ
351 NIQGFMWEEE KVNDELKTYM TRSFKDLKEM CKTHSCDLRM GAFTLGVNRV
401 AQATILRGWG A

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
27 - 33	845.4249	844.4177	844.5171	-118	0	K.SLLIPFR.E
44 - 55	1284.5497	1283.5424	1283.6146	-56	0	K.DDGTLASFVGF.R.V
96 - 102	705.2441	704.2369	704.3857	-211	0	K.IPYGGAK.G
112 - 119	946.4189	945.4116	945.5131	-107	0	K.LSISELER.L
182 - 187	590.1253	589.1180	589.2820	-278	0	R.DAATGR.G
188 - 202	1618.7050	1617.6977	1617.7821	-52	0	R.GVMFGTEALLNEHGK.T Oxidation (M)
232 - 243	1186.5951	1185.5878	1185.6969	-92	0	K.IVAVSDITGAIK.N
368 - 372	687.1946	686.1873	686.3058	-173	0	K.TYMR.S Oxidation (M)
383 - 389	888.2897	887.2824	887.3920	-123	0	K.THSCDLR.M
390 - 399	1065.4272	1064.4199	1064.5437	-116	0	R.MGAFTLGVNR.V
390 - 399	1081.4485	1080.4412	1080.5386	-90	0	R.MGAFTLGVNR.V Oxidation (M)

Spot No.: **113**

Mascot score: **149** Sequence coverage %: **36**

NCBI accession No.: **gi| 312281829**

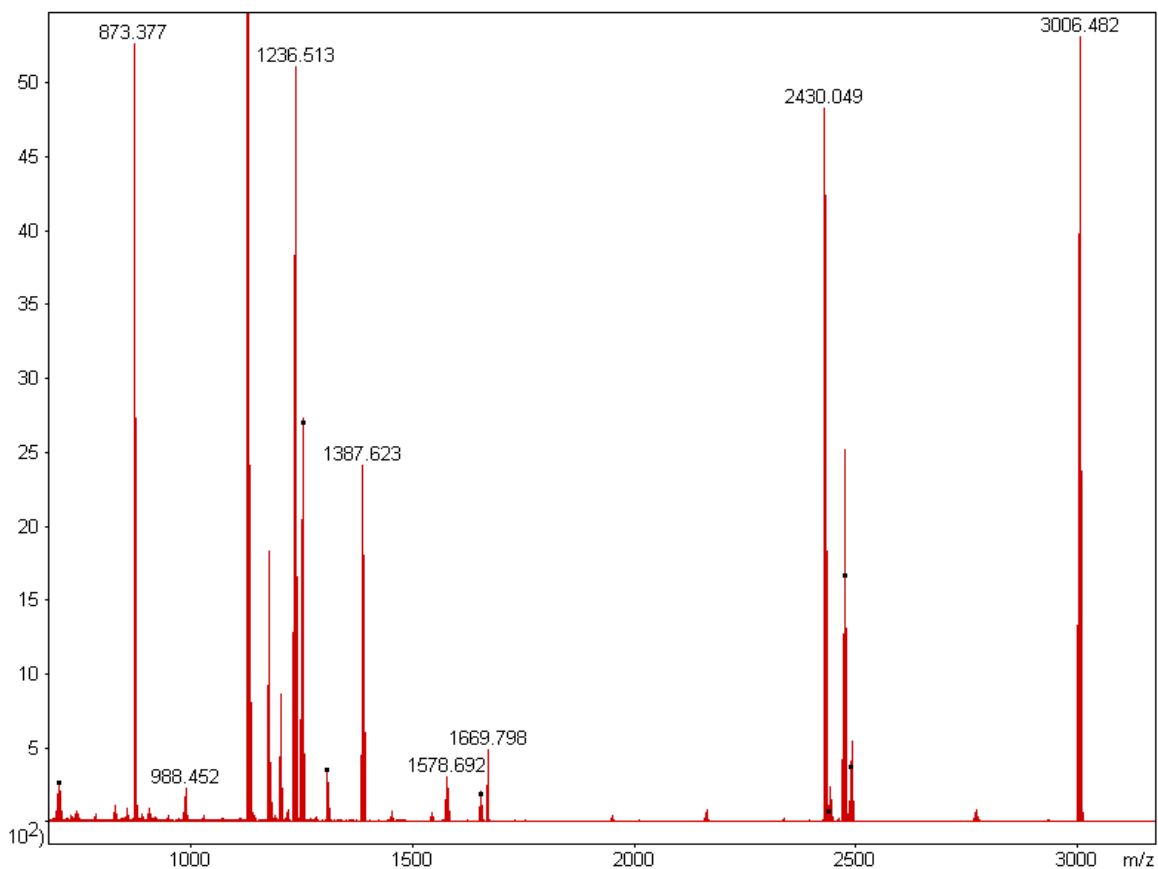
Matched peptides No.: **14**

Total peptides No.: **24**

Calculated Mr: **43118**

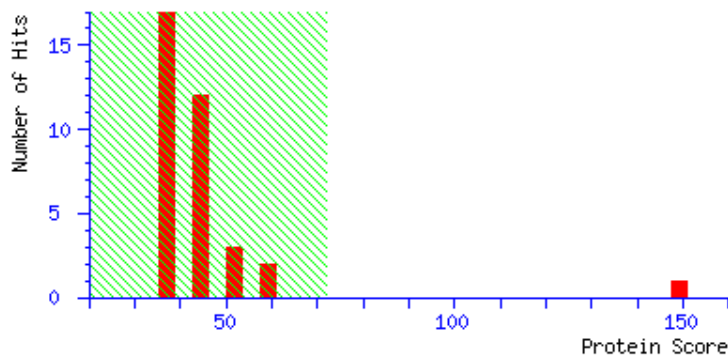
Calculated pI: **6.49**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASSSATLLK ASPVKSDWVK GQSHLLRQPS SVAAIRSHVA PSALTVRAAS
51 AYADELVKTA KTIASPGRGI LAMDESNATC GKRLLASIGLE NTEANRQAYR
101 TLLVSAPGLG QYISGAILFE ETLYQSTVDG KKMVDVLVEQ NIVPGIKVDK
151 GLVPLVGSND ESWCQGLDGL ASRTAAYYQQ GARFAKWRTV VSIPNGPSAL
201 AVKEAAWGLA RYAAISQDSG LVPIVEPEIL LDGEHGIDRT YEVAEKVWAE
251 VFFYLAQNNV MFEGILLKPS MVTPGAEAKD RATPEQVASY TLKLLRNRIP
301 PAVPGIMFLS GGQSELEATL NLNAMNQGTN PWHVSFSYAR ALQNTCLKTW
351 GGREENVKAA QDTLLTRAKA NSLAQLGKYT EGESEDAKE GMFVKGYTY

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
62 - 68	701.3016	700.2944	700.3868	-132	0	K.TIASPGR.G
84 - 96	1387.6231	1386.6158	1386.7103	-68	0	R.LASIGLENTANR.Q
133 - 147	1653.7862	1652.7789	1652.9171	-84	0	K.MVDVLEQNIVPGIK.V
133 - 147	1669.7978	1668.7905	1668.9120	-73	0	K.MVDVLEQNIVPGIK.V Oxidation (M)
148 - 173	2772.2068	2771.1995	2771.3549	-56	1	K.VDKGLVPLVGSNDESWCQGLDGLASR.T
151 - 173	2430.0489	2429.0416	2429.1645	-51	0	K.GLVPLVGSNDESWCQGLDGLASR.T
174 - 183	1128.4664	1127.4591	1127.5359	-68	0	R.TAAYYQQGAR.F
204 - 211	873.3766	872.3693	872.4504	-93	0	K.EAAWGLAR.Y
212 - 239	3006.4829	3005.4756	3005.5346	-20	0	R.YAAISQDSGLVPIVEPEILLDGEHGIDR.T
212 - 246	3826.7598	3825.7525	3825.9312	-47	1	R.YAAISQDSGLVPIVEPEILLDGEHGIDRTYEVAEK.V
280 - 293	1578.6916	1577.6843	1577.8049	-76	1	K.DRATPEQVASYTLK.L
282 - 293	1307.5568	1306.5495	1306.6769	-97	0	R.ATPEQVASYTLK.L
349 - 358	1175.4954	1174.4881	1174.5731	-72	1	K.TWGREENVK.A
359 - 367	988.4520	987.4448	987.5349	-91	0	K.AAQDTLLTR.A

Spot No.: **114**

Mascot score: **86** Sequence coverage %: **49**

NCBI accession No.: **gi| 219563256**

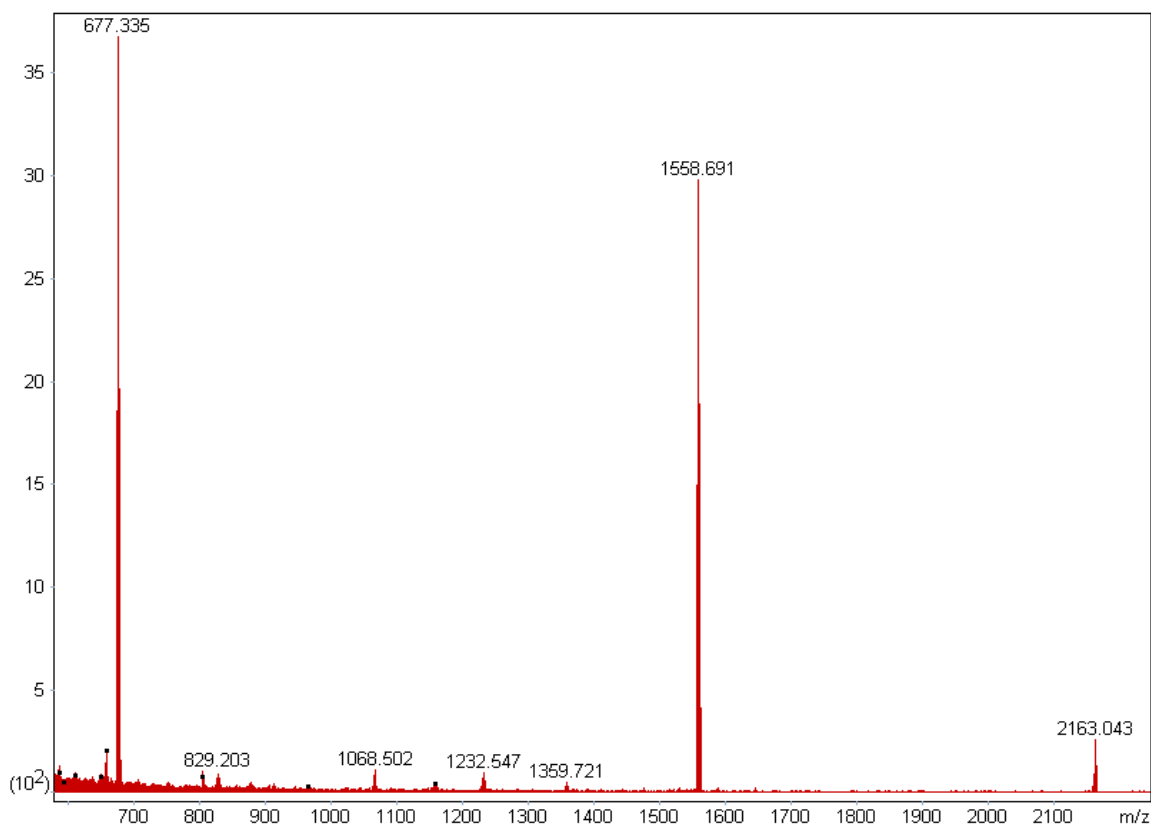
Matched peptides No.: **5**

Total peptides No.: **17**

Calculated Mr: **9397**

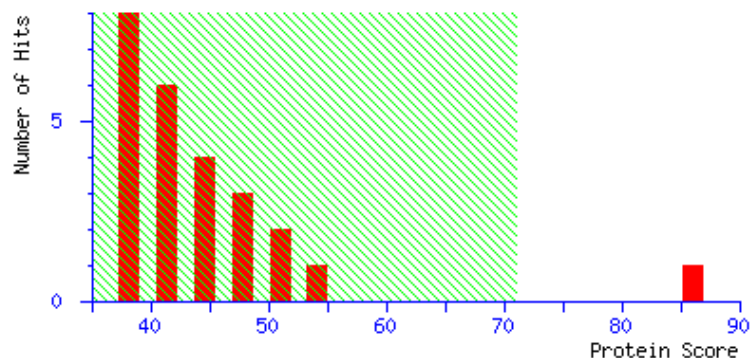
Calculated pI: **5.33**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 VSVFGNDVDA **YEEKLLSGES GISLIDRFDA SKFPTRFGGQ** IRGFSSEGYI
51 **DGKNER**RLDD CLKYCIVAGK KALESANLGG DKLNT

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
15 - 27	1359.7214	1358.7141	1358.7405	-19	0	K.LLSGESGISLIDR.F
28 - 36	1068.5019	1067.4946	1067.5400	-42	1	R.FDASKFPTR.F
37 - 42	677.3347	676.3275	676.3657	-56	0	R.FGGQIR.G
43 - 53	1159.4607	1158.4534	1158.5193	-57	0	R.GFSSEGYIDGK.N
43 - 56	1558.6914	1557.6841	1557.7059	-14	1	R.GFSSEGYIDGKNER.R

Spot No.: **115**

Mascot score: **116** Sequence coverage %: **20**

NCBI accession No.: **gi| 15231702**

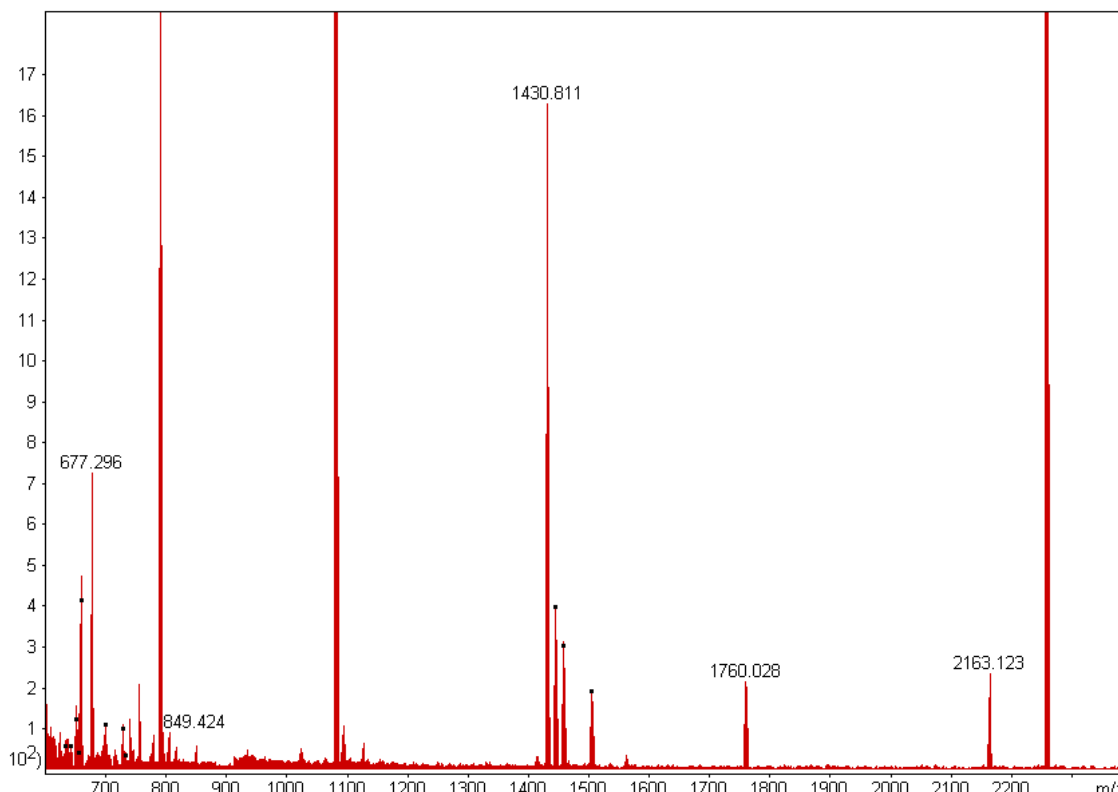
Matched peptides No.: **12**

Total peptides No.: **26**

Calculated Mr: **46629**

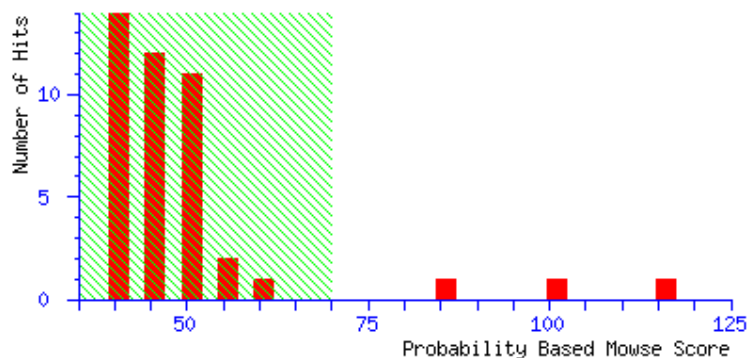
Calculated pI: **6.41**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAEKSFKYII LGGGVSAGYA AKEFANQGVQ PGELAVISKE AVAPYERPAL
51 SKGYLFPEGA ARLPGFHCCV GSNGEKLLE SYKQKGIELI LSTEIVKADL
101 SAKSLVSATG DVFKYQTLII ATGSTVLRLT DFGVKGADSK NILYLREIDD
151 ADKLVEAIKA KKGGKAVVVG GGYIGLELSA VLRINNLDVT MVFPEPWCMF
201 RLFTADIAAF YETYYTNKGV KIIKGTVASG FTAQPNGEVK EVQLKDGRTL
251 EADIVIVGVG AKPLTSLFKG QVEEDKGGIK TDAFFKTSVP DVYAVGDVAT
301 FPLKMYGDVR RVEHVDHSRK SAEQAVKAIK AAEGGAAVEE YDYLPPFFYSR
351 SFDLSUQFYG DNVGDSVLFV DSNPSNPKPR FGAYWVQGGK VVGAFMEGGS
401 GDENKALAKV AKARPSAESL DELVKQGISF AAKI

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
40 - 52	1430.8114	1429.8041	1429.7565	33	0	K.EAVAPYERPALS K.G
53 - 62	1080.5705	1079.5632	1079.5400	22	0	K.GYLFPEGAAR.L
63 - 76	1504.7349	1503.7276	1503.6599	45	0	R.LPGFHCCVGSNGEK.L
77 - 83	849.4244	848.4171	848.4643	-56	0	K.LLPESYK.Q
129 - 135	779.3783	778.3710	778.4225	-66	0	R.LTDFGVK.G
141 - 146	791.4518	790.4445	790.4701	-32	0	K.NILYLRE.E
147 - 153	805.3919	804.3846	804.3501	43	0	R.EIDDADK.L
147 - 159	1458.8399	1457.8326	1457.7613	49	1	R.EIDDADKLVEAIK.A
281 - 286	728.3374	727.3301	727.3541	-33	0	K.TDAFFK.T
305 - 310	740.3357	739.3284	739.3323	-5	0	K.MYGDVR.R
305 - 310	756.3039	755.2966	755.3272	-41	0	K.MYGDVR.R Oxidation (M)
321 - 327	732.3551	731.3479	731.3813	-46	0	K.SAEQAVK.A

Spot No.: **116**

Mascot score: **113** Sequence coverage %: **26**

NCBI accession No.: **gi| 15231702**

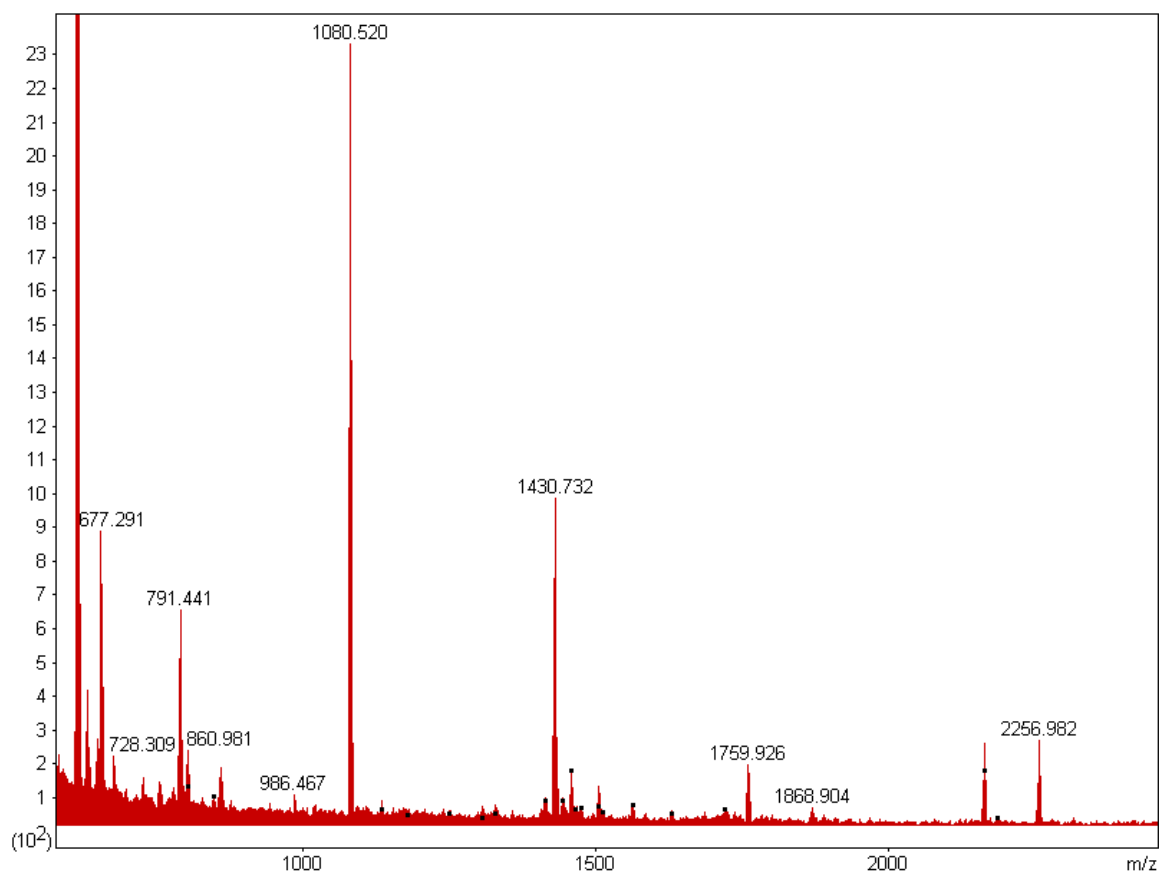
Matched peptides No.: **11**

Total peptides No.: **25**

Calculated Mr: **46629**

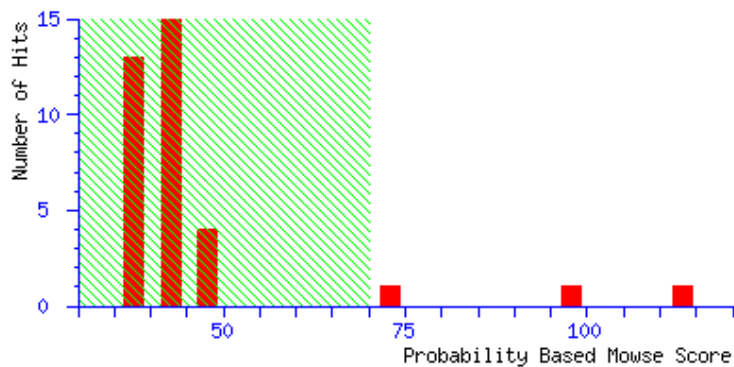
Calculated pI: **6.41**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAEKSFKYII LGGGVSAGYA AKEFANQGVQ PGELAVISKE **AVAPYERPAL**
51 **SKGYLFPEGA** **ARLPGFHCCV** **GSGGEKLLPE** SYKQKGIELI LSTEIVKADL
101 SAKSLVSATG DVFKYQTLII ATGSTVLRLLT DFGVKGADSK **NILYLREIDD**
151 **ADKLVEAIKA** KGGKAVVVG GGYIGLELSA VLRINNL DVT MVFPEPWCMP
201 RLFTADIAAF YETYYTNKGV KIIK**GTVASG** **FTAQPNGEVK** EVQLKDGRTL
251 EADIVIVGVG AKPLTSLFKG **QVEEDKGGIK** **TDAFFKTSVP** DVYAVGDVAT
301 FPLKMYGDVR **RVEHVDHSRK** SAEQAVKAIAK AAEGGA AVEE YDYLPFFYSR
351 SFDLSWQFYG DNVGDSVLFV DSNPSNPKPR FGAYWVQGGK **VVGAFMEGGS**
401 **GDENK**ALAKV AKARPSAESL DELVKQGISF AAKI

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
40 - 52	1430.7323	1429.7250	1429.7565	-22	0	K.EAVAPYERPALS.K.G
53 - 62	1080.5204	1079.5131	1079.5400	-25	0	K.GYLFPEGAAR.L
63 - 76	1504.6171	1503.6098	1503.6599	-33	0	R.LPGFHCCVGSGEK.L
77 - 83	849.4025	848.3952	848.4643	-81	0	K.LLPESYK.Q
141 - 146	791.4414	790.4342	790.4701	-45	0	K.NILYLR.E
147 - 159	1458.7461	1457.7388	1457.7613	-15	1	R.EIDDADKLVEAIK.A
225 - 240	1562.7090	1561.7017	1561.7737	-46	0	K.GTVASGFTAQPNGEVK.E
270 - 276	804.2585	803.2513	803.3661	-143	0	K.QQVEEDK.G
281 - 286	728.3087	727.3015	727.3541	-72	0	K.TDAFFK.T
311 - 319	1134.5621	1133.5548	1133.5690	-13	1	R.RVEHVDHSR.K
391 - 405	1512.6267	1511.6194	1511.6562	-24	0	K.VVGAFMEGGSDENK.A Oxidation (M)

Spot No.: **117**

Mascot score: **81** Sequence coverage %: **17**

NCBI accession No.: **gi| 15226489**

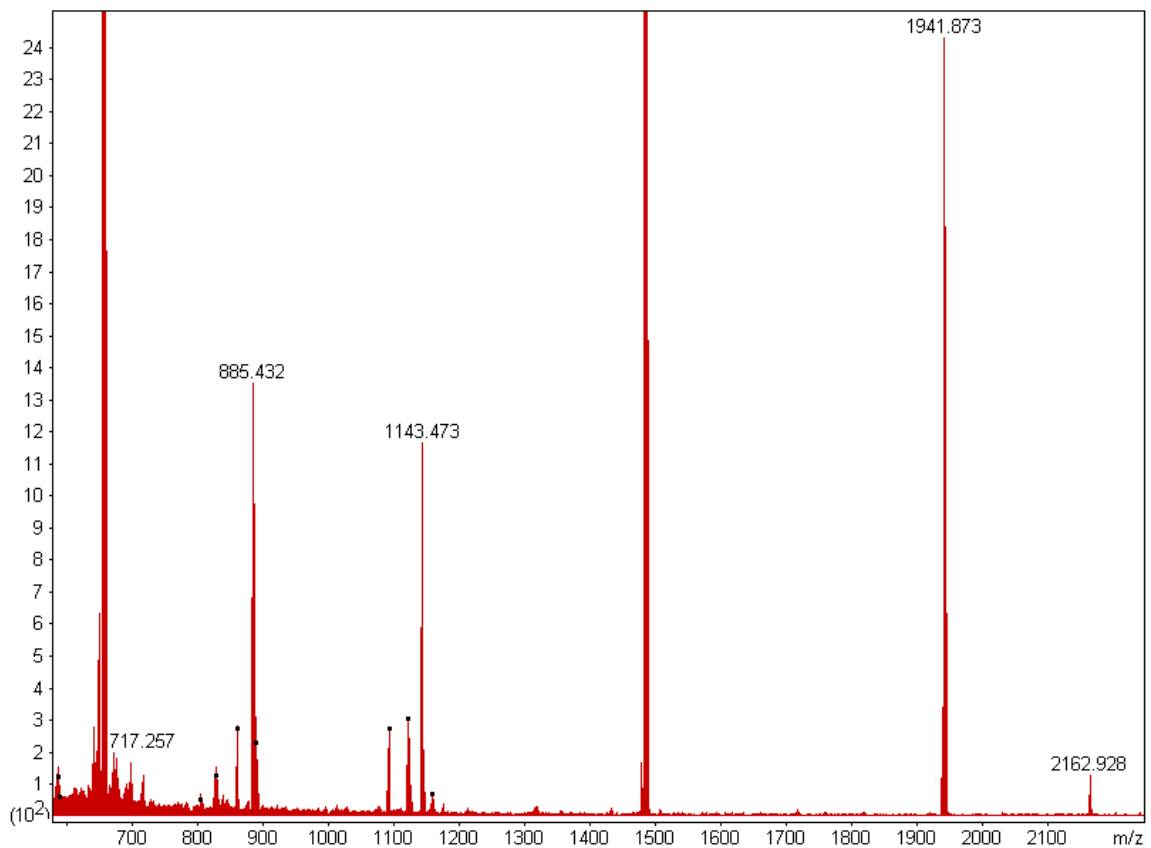
Matched peptides No.: **6**

Total peptides No.: **13**

Calculated Mr: **35330**

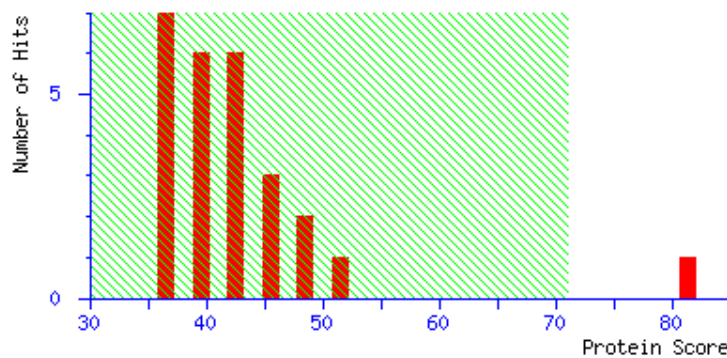
Calculated pI: **6.16**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.
Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MEITLNSGFK **MPIVGLGWR** MEKEGIRDLI LNAIKIGYRH LDCAADYRNE
51 TEVGDALTEA FKTGLVK**RED** **LFITTK**LWNS DHGHVIEACK DSLKKLQLDY
101 LDLFLVHFPV ATKHTGVGTT DSALGDDGVL DIDTTISLET TWHDM**EKLVS**
151 **MGLVRSIGIS** **HYDVFLTR**DC LAYSKIKPAV NQIETHPYFQ RDSL**VKFCQK**
201 HGICVTAHTP LGGATANAEW FGTVSCLDDP VLKDVAEKYK **KTVAQVLRW**
251 **GIQR**KTVVIP KTSKPARLEE NFQVDFELS KEDMEVIKSM ERKYRTNQPA
301 KFWNIDLYA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
11 - 20	1143.4733	1142.4660	1142.6270	-141	0	K.MPIVGLGWR.M	Oxidation (M)
68 - 76	1122.4540	1121.4467	1121.6081	-144	1	K.REDLFITTK.L	
148 - 155	890.3793	889.3720	889.5055	-150	0	K.LVSMGLVR.S	Oxidation (M)
156 - 168	1484.6118	1483.6045	1483.7671	-110	0	R.SIGISNYDVFLTR.D	
242 - 249	885.4319	884.4246	884.5444	-135	0	K.TVAQVLR.W	
250 - 254	659.2794	658.2721	658.3551	-126	0	R.WGIQR.K	

Spot No.: **118**

Mascot score: **97** Sequence coverage %: **38**

NCBI accession No.: **gi| 312281559**

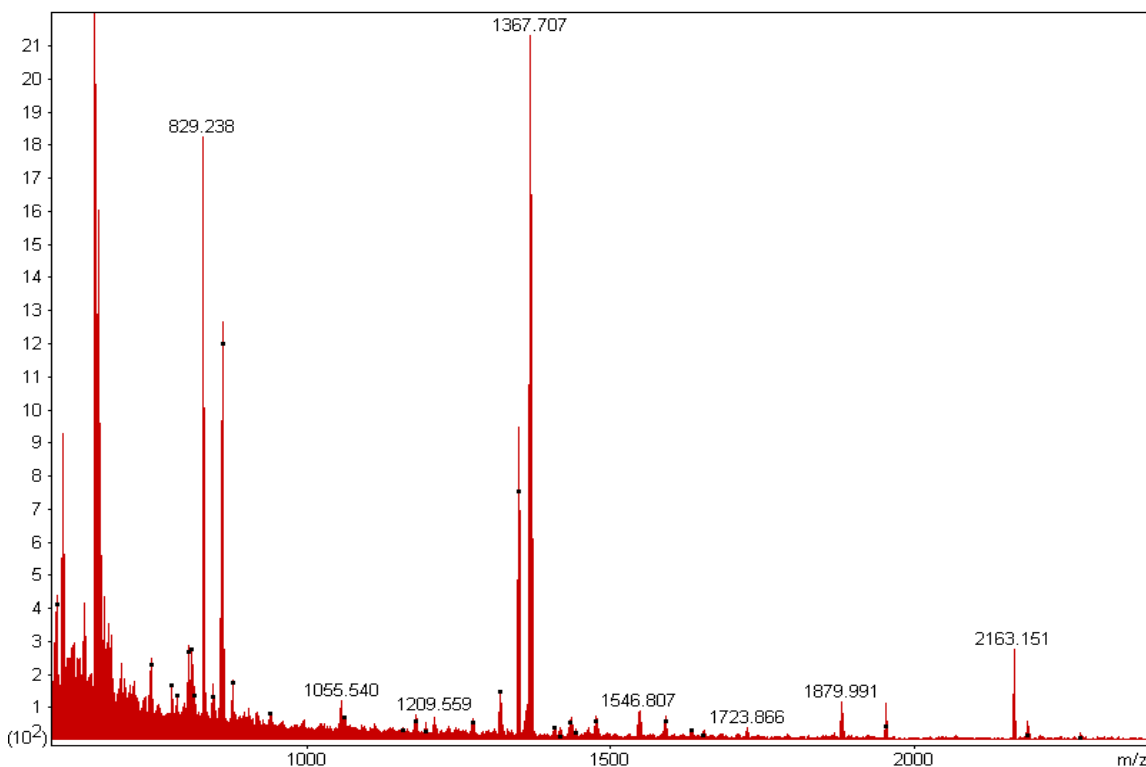
Matched peptides No.: **14**

Total peptides No.: **49**

Calculated Mr: **38617**

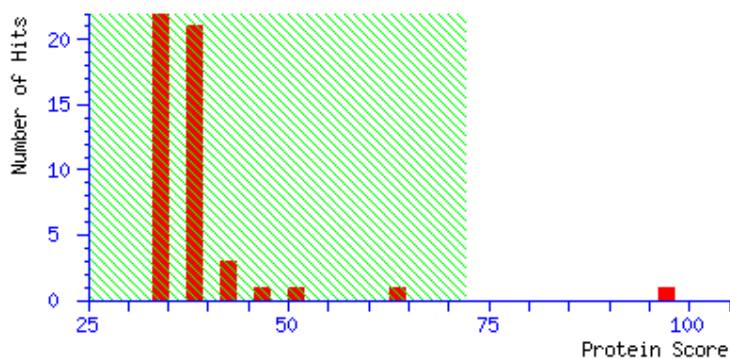
Calculated pI: **5.90**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MADSCGLKRM  KLGSGGLEVS  AQGLGCMSSLS  AFYGVPKPET  EAIALLHHAI
51  DSGITFLDTS  DMYGPHTNEL  LVGKALKNGM  REKVELASKF  GIIYTDVKLE
101 IKGDPAYVRA  SCEASLKRLD  VECIDLYYQH  RIDTCVPIEI  TMGELKKLVE
151 EGKIKYIGLS  EASASTIRRA  HAVHPITAVQ  LEWSLWARDV  EDDIVPTCRE
201 LGIGIVAYSP  LGKGFASGP  KLVENLNND  FRKRLPRFQQ  ENLDHNKILY
251 EKVCAMSEKK  GCTPAQLALA  WVHHQGDDVC  PIPGTTRIEI  FNQNIGALSV
301 KLTPEEMAEL  EAISQPESVK  GERYMAMVPT  YKNSDTPPLS  SWKTA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
75 - 81	805.3887	804.3814	804.4276	-57	1	K.ALKNGMR.E Oxidation (M)
84 - 98	1682.8561	1681.8488	1681.9291	-48	1	K.VELASKFGIIYTDVK.L
90 - 98	1055.5399	1054.5326	1054.5699	-35	0	K.FGIIYTDVK.L
103 - 109	777.3403	776.3331	776.3817	-63	0	K.GDPAYVR.A
118 - 131	1879.9907	1878.9834	1878.9046	42	1	K.RLDVECIDLYYQHR.I
119 - 131	1723.8652	1722.8579	1722.8035	32	0	R.LDVECIDLYYQHR.I
156 - 168	1367.7067	1366.6994	1366.7092	-7	0	K.YIGLSEASASTIR.R
170 - 188	2185.1561	2184.1488	2184.1592	-5	0	R.AHAVHPITAVQLEWSLWAR.D
189 - 199	1318.5768	1317.5695	1317.5871	-13	0	R.DVEDDIVPTCR.E
200 - 213	1416.8016	1415.7943	1415.8024	-6	0	R.ELGIGIVAYSPLGK.G
214 - 221	810.3715	809.3643	809.4072	-53	0	K.GFFASGPK.L
222 - 232	1347.6402	1346.6329	1346.6579	-19	0	K.LVENLNNDFR.K
222 - 233	1475.7471	1474.7398	1474.7528	-9	1	K.LVENLNNDFRK.R
288 - 301	1546.8067	1545.7994	1545.8151	-10	0	R.IENFNQNIGALSVK.L

Spot No.: **119**

Mascot score: **129** Sequence coverage %: **30**

NCBI accession No.: **gi| 15226610**

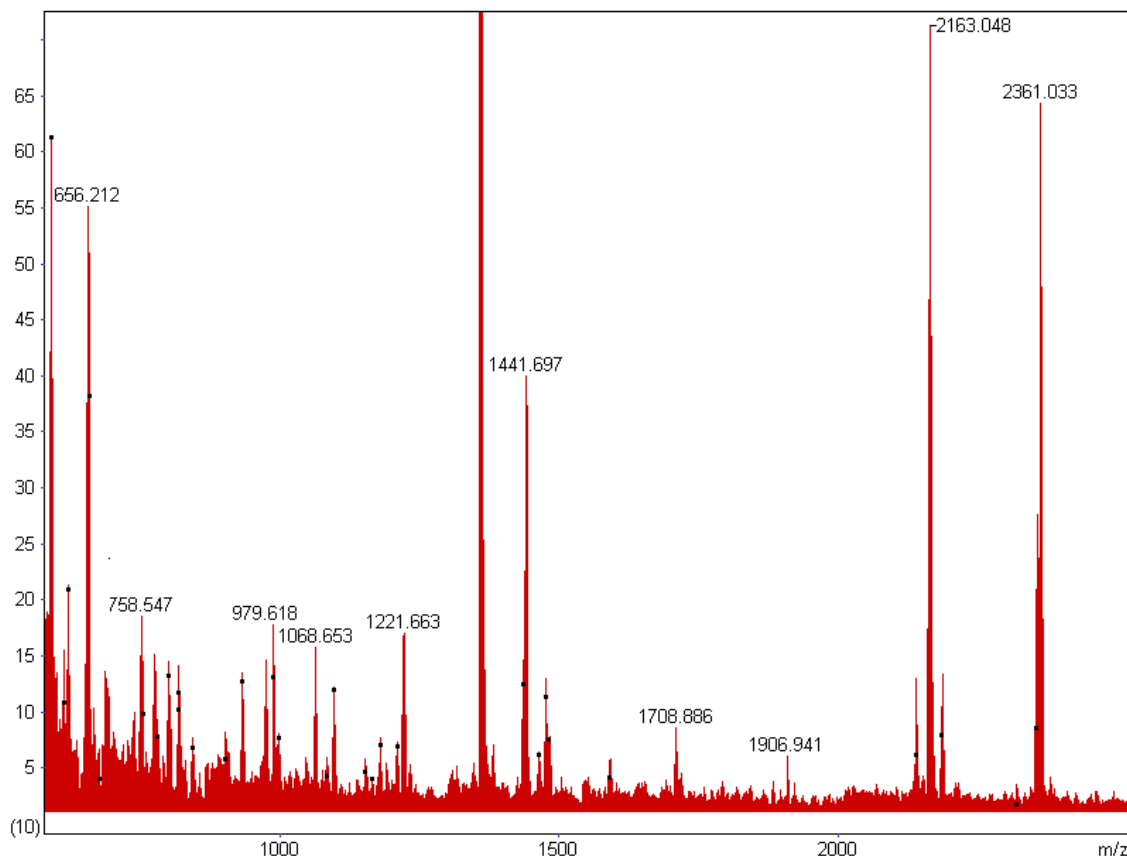
Matched peptides No.: **13**

Total peptides No.: **33**

Calculated Mr: **39815**

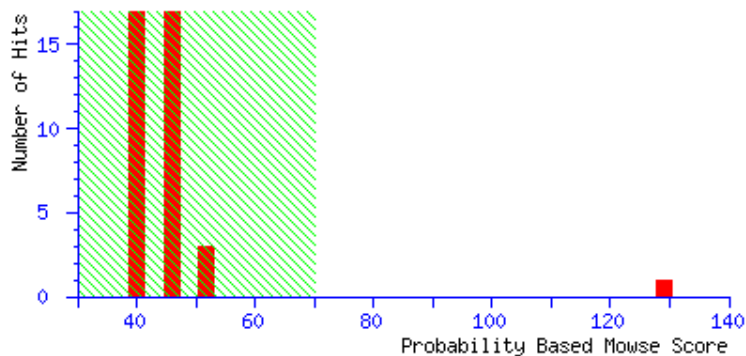
Calculated pI: **5.80**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MAKSQIWFGF ALLALLLVSA VADDVWVLTD DSFEKEVVGKD KGALVEFYAP
51 WCGHCKKLAP EYEKLGASFK KAKSVLIAKV DCDEQKSVCT KYGVSGYPTI
101 QWFPKGSLEP QKYEGPRNAE ALAEYVNKEG GTNVKLAAVP QNVVVLTPDN
151 FDEIVLDQNK DVLVEFYAPW CGHCKSLAPT YEKVATVFKQ EEGVVIANLD
201 ADAHKALGEK YGVSGFPTLK FFPKDNKAGH DYDGGRDLDD FVSFINEKSG
251 TSRDSKGQLT SKAGIVESLD ALVKELVAAS EDEKKAVLSR IEEEEASTLKG
301 STRYGKLYL KLAKSYIEKG SDYASKETER LGRVLGKISIS PVKADELTLK
351 RNILTTFVAS S

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
58 - 64	849.5003	848.4931	848.4279	77	0	K.LAPEYEK.L
106 - 112	758.5469	757.5396	757.3970	188	0	K.GSLEPQK.Y
106 - 117	1360.7583	1359.7510	1359.6783	54	1	K.GSLEPQKYE GPR.N
113 - 117	621.4037	620.3964	620.2918	169	0	K.YEGPR.N
118 - 128	1221.6631	1220.6558	1220.6037	43	0	R.NAEALAEYVNK.E
118 - 135	1906.9411	1905.9338	1905.9432	-5	1	R.NAEALAEYVNKEGGTNV K.L
176 - 183	908.5459	907.5386	907.4651	81	0	K.SLAP TYEK.V
184 - 205	2354.2067	2353.1994	2353.2278	-12	1	K.VATVFKQEEGVVIANLDADAH K.A
190 - 205	1708.8858	1707.8785	1707.8428	21	0	K.QEEGVVIANLDADAH K.A
211 - 220	1068.6532	1067.6459	1067.5652	76	0	K.YGVSGFPTLK.F
237 - 248	1441.6966	1440.6893	1440.6773	8	0	R.DLDDFVSFINEK.S
275 - 284	1090.6325	1089.6252	1089.5190	98	0	K.ELVAASEDEK.K
315 - 326	1347.7004	1346.6931	1346.6354	43	1	K.SYIEK GSYASK.E

Spot No.: **120**

Mascot score: **85** Sequence coverage %: **14**

NCBI accession No.: **gi| 1145344987**

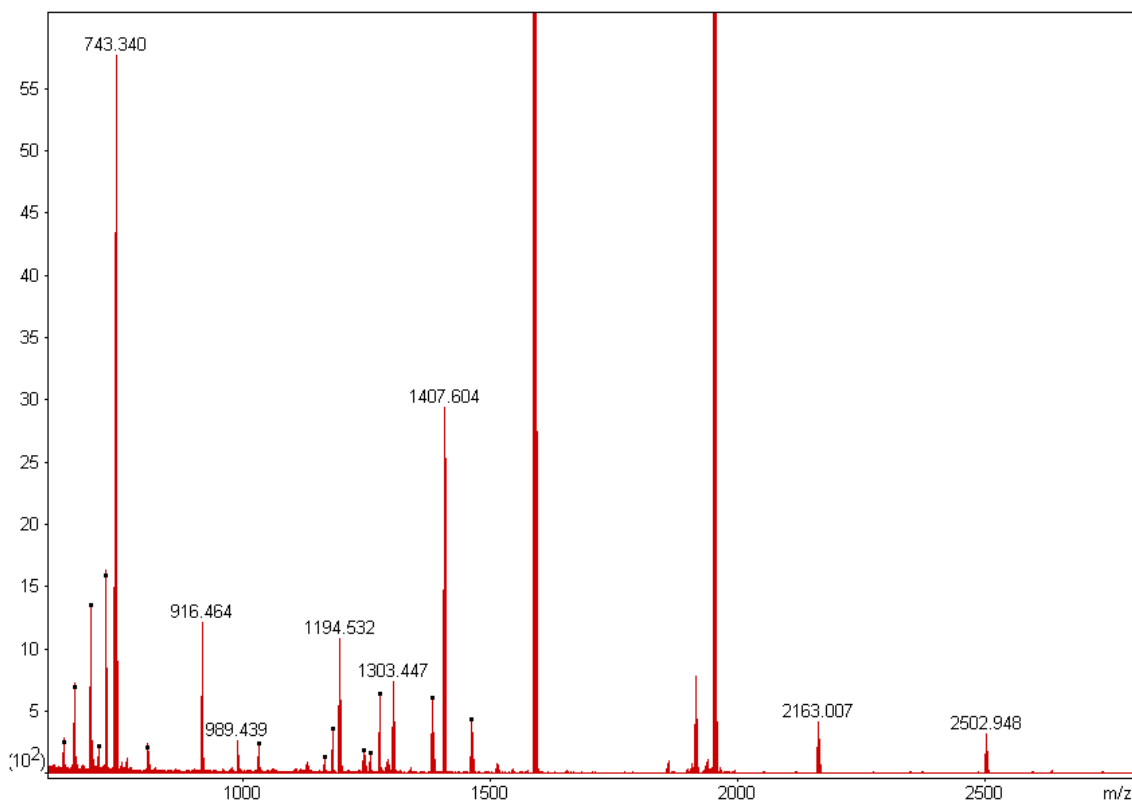
Matched peptides No.: **11**

Total peptides No.: **17**

Calculated Mr: **76292**

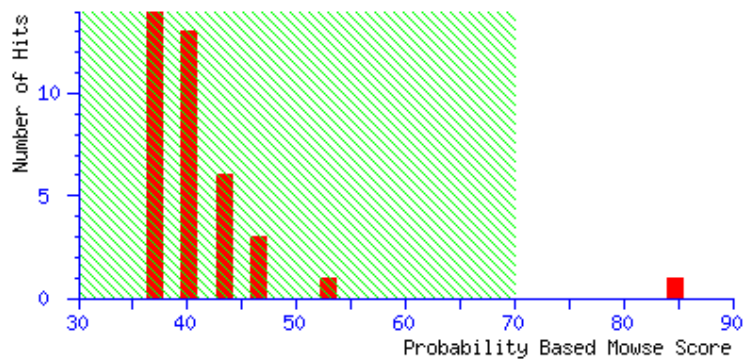
Calculated pI: **5.49**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MGICYSLPDA  AADKARTLAT  AAGTQWSNGL  GASSAAAAKA  ARKAKLTKYA
51  LVKCEFDAET  AAKAKRLSVI REMLFEQIAL WKAWSAGTLP  LDYSVLMHWS
101 KYCHANEECS  KRLRNVALQV  QNASAAHAAY  VNFMTETFIE  GIDETIDVIE
151 EAMNVYELYE  KSEYDYRFAL  KTSKDEEKNA  IKKGEMEIKL QEAKKAINEC
201 AGKVESILVP  LFKRTITELE  NFAKKCMQKR  ERTGEEAIAT  AAKFERANSV
251 AYAKLKKRTY  TAADAITAAK  NAIVDNLPE QLNEINAKLD EMKRHGMALA
301 LIFQDFVPYI  KLIFGPDRMN  IFADELCKKI DGFKSLKKA  AEIHDKIQAL
351 TSEIDVEEFK  RMVEEFEQVV  HTECNTVSSH  STAYVKSLSD  IVKAERALER
401 AENVYKSKAP  NFMPPIGDK  LAKFNDDKAA  WNGALKDAQD AVTIAKERSV
451 ADLNAHKESF  DNLFIKDDST  FHSFIIVAIE  NACAIVTEAH  KTIKAVKARQ
501 IRDAAEEPEA  EEVIEVPEVD  FSQADASQKE  AEVSKAEAEA  KMKEAEAEV
551 KAKEAAEAAE  KARQVAIREE  NEAKQEVLLR  KAAEEAKKAA  EEAKAKQEAE
601 AKAEAAKIQ AEKEAKAEKE  VAKAAKALEQ  QVSIAEKKAE  KEASNAASQQ
651 DAVDAVRDAT  IKETLARASS  VKEVSIANA  ASIGTEL

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
66 - 71	743.3400	742.3328	742.4813	-200	1	K.RLSVIR.E
72 - 82	1407.6035	1406.5962	1406.7268	-93	0	R.EMLFEQIALWK.A
184 - 194	1275.5158	1274.5085	1274.6540	-114	1	K.GEMEIKLQEAK.K
271 - 288	1951.9251	1950.9178	1951.0010	-43	0	K.NAIVDNLPEQLNEINAK.L
289 - 294	807.3289	806.3216	806.3956	-92	1	K.LDEMKR.H Oxidation (M)
319 - 328	1256.5284	1255.5211	1255.5577	-29	0	R.MNIFADELCK.K Oxidation (M)
329 - 334	707.2374	706.2301	706.4014	-242	1	K.KIDGFK.S
401 - 406	723.2428	722.2356	722.3599	-172	0	R.AENVYK.S
437 - 446	1031.3963	1030.3890	1030.5295	-136	0	K.DAQDAVTIAK.E
492 - 497	659.2690	658.2618	658.4377	-267	1	K.TIKAVK.A
609 - 616	916.4640	915.4568	915.5025	-50	1	K.IQAEKEAK.A

Spot No.: **121**

Mascot score: **83** Sequence coverage %: **22**

NCBI accession No.: **gi| 26450910**

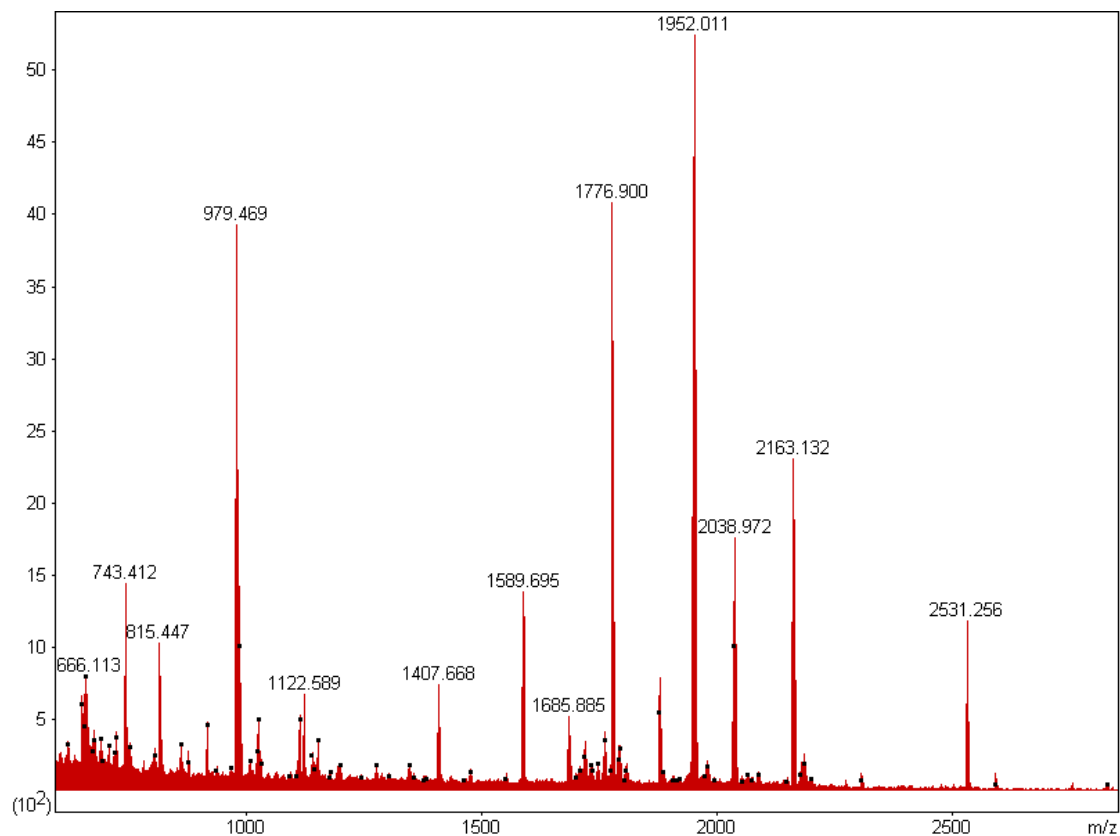
Matched peptides No.: **10**

Total peptides No.: **48**

Calculated Mr: **68864**

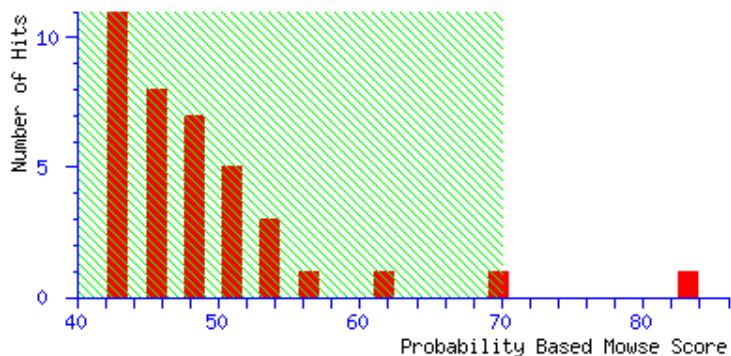
Calculated pI: **8.70**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MLRSLLLRRS VGHSLGTLSP SSSTIRSSFS PHRTLCTTGQ TLTPPPPPPP
51 RPPPPPPATA SEAQFRKYAG YAALAIIFSGV ATYFSFPFPE NAKHKKAQIF
101 RYAPLPEDLH TVSNWSGTHE VQTRNFMQPE NLADLEALVK ESHEKKLRIR
151 PVGSGLSPNG IGLSRSGMVN LALMDKVLEV DKEKKRVTVQ AGIRVQQQLVD
201 AIKDYGLTLQ NFASIREEQQI GGIIQVGAHG TGARLPPIDE QVISMKLVTP
251 AKGTIELSRE KDPELFHLAR CGLGGLGVVA EVTLCQVARH ELVEHTYVSN
301 LQEIKNHKK LLSANKHVKY LYIPYTDTVV VVTCNPVSKW SGPPKDKPKY
351 TTDEAVQHVR DLYRESIVKY RVQDSGKKSP DSSEPDIQEL SFTELKLL
401 ALDPLNDVHV AKVNQAEAEF WKKSEGYRVG WSDEILGFDC GGQQWVSESC
451 FPAGTLANPS MKDLEYIEEL KKLIEKEAIP APAPIEQRWT ARSKSPISPA
501 FSTSEDDIFS WVGIIIMYLPT ADPRHRKDIT DEFFHYRHLT QKQLWDQFSA
551 YEHWAKIEIP KDKEELEALQ ARIRKRFPVD AYNKARELD PNRILSNMW
601 EKLFPVSTTA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
10 - 26	1685.8849	1684.8776	1684.8744	2	0	R.SVGHSLGTLSPSSSTIR.S
166 - 182	1878.0779	1877.0706	1876.9638	57	1	R.SGMVNLALMDKVLVDK.E Oxidation (M)
217 - 234	1791.8954	1790.8881	1790.9388	-28	0	R.EQQIGGIIQVGAHG TGAR.L
340 - 349	1139.5509	1138.5436	1138.6135	-61	1	K.WSGPPKDKPK.Y
361 - 369	1122.5886	1121.5813	1121.6080	-24	1	R.DLYRESIVK.Y
378 - 396	2178.0767	2177.0694	2177.0488	9	1	K.KSPDSSEPDIQEL SFTEL.R .D
397 - 412	1760.9208	1759.9135	1759.9832	-40	1	R.DKLLALDPLNDVHVAK.V
463 - 471	1151.5470	1150.5397	1150.5757	-31	0	K.DLEYIEELK.K
473 - 488	1774.9018	1773.8945	1773.9988	-59	1	K.LIEKEAIPAPAPIEQR.W
588 - 593	743.4123	742.4050	742.3609	59	0	R.ELDPNR.I

Spot No.: **122**

Mascot score: **126** Sequence coverage %: **40**

NCBI accession No.: **gi| 207667274**

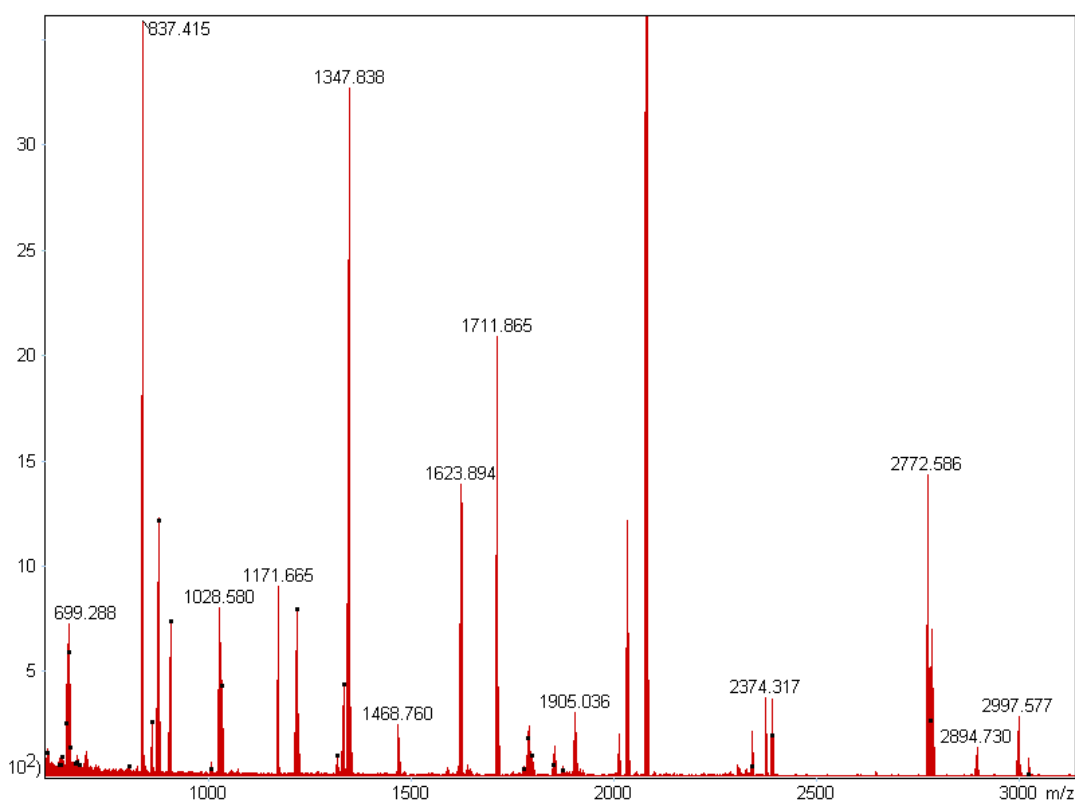
Matched peptides No.: **11**

Total peptides No.: **26**

Calculated Mr: **42520**

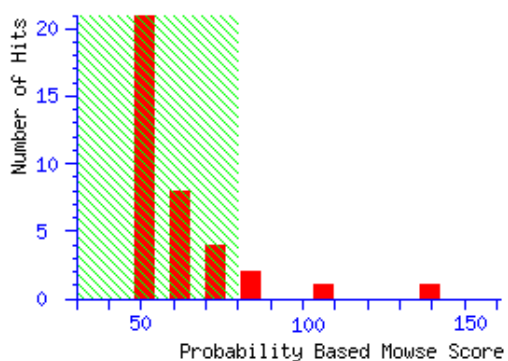
Calculated pI: **8.51**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MAAAASSISIG STVPRASSSS SSSSLPQSRQ QAVNFNYSLP RFTALRSSTL
51  LSGLDSSSFA KSLRGSVTKP QSTDTKPYGL NINASYKVAV LGAAGGIGQP
101 LSELLIKMSPL VSTLHLYDIA NVKGVAADLS HCNTPSQVRD FTGPAELADC
151 LKDVNVVVIP AGVPRKPGMT RDDLFNINAG IVKTLVEAVA DNCPNAFIHI
201 ISNPVNSTVP IAAEVLRRKKG VYDPKKLFGV TTLDVVRANT FVSQKKNLKL
251 IDVDVPVIGG HAGITILPLL SKTKPSVSFT DEEIEKLTVR IQNAGTEVVD
301 AKAGAGSATL SMAYAAARFV ESSLRALDGD GDVYECSEFVD STLTDLPFFA
351 SRIKIGRNGV EAVIESDLQG LTEYEHKALE ALKPELKASI EKGVAFANKP
401 AN

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
88 - 106	1777.1096	1776.1023	1776.0873	8	0	K.VAVLGAAGGIGQPLSELLIK.M
124 - 139	1711.8653	1710.8580	1710.8108	28	0	K.GVAADLSHCNTPSQVR.D
153 - 165	1334.7995	1333.7922	1333.7718	15	0	K.DVNVVVIPAGVPR.K
172 - 183	1318.6895	1317.6822	1317.6929	-8	0	R.DDLFNINAGIVK.T
226 - 237	1347.8376	1346.8303	1346.7922	28	1	K.KLFGVTTLDVVR.A
227 - 237	1219.7223	1218.7150	1218.6972	15	0	K.LFGVTTLDVVR.A
250 - 272	2340.4358	2339.4285	2339.3828	20	0	K.LIDVDVPVIGGHAGITILPLLSK.T
273 - 290	2079.1512	2078.1439	2078.0895	26	1	K.TKPSVSFTDEEIEKLTVR.I
303 - 318	1468.7600	1467.7527	1467.7140	26	0	K.AGAGSATLSMAYAAAR.F
319 - 325	837.4154	836.4081	836.4392	-37	0	R.FVESSLR.A
326 - 352	2997.5770	2996.5697	2996.3386	77	0	R.ALDGDGDVYECSEFVDSTLTDLPFFASR.I

Spot No.: **123**

Mascot score: **88** Sequence coverage %: **30**

NCBI accession No.: **gi| 9454574**

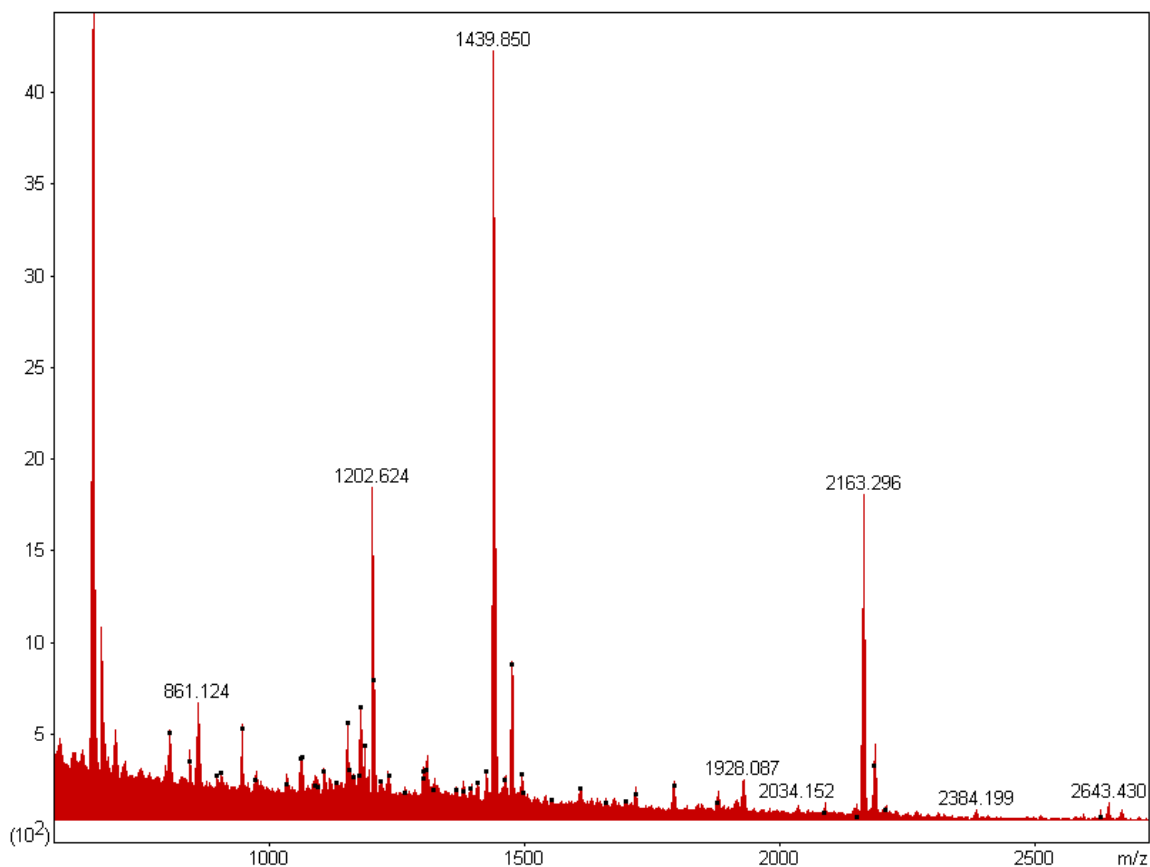
Matched peptides No.: **11**

Total peptides No.: **43**

Calculated Mr: **33474**

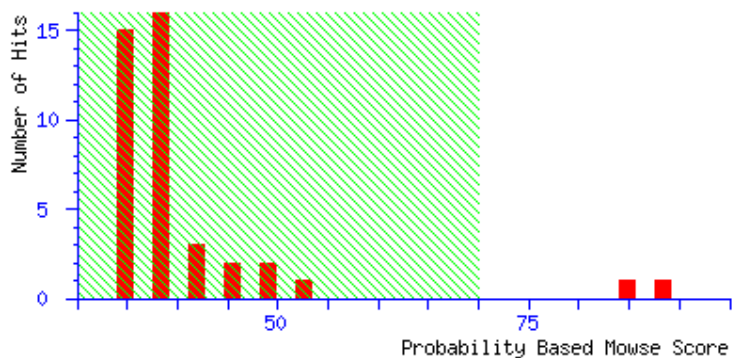
Calculated pI: **7.03**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

Start - End	Observed	Mr(expt)	Mr(calC)	ppm	Miss Sequence
9 - 22	1439.8495	1438.8422	1438.7304	78	0 K.STSLFSSNPTISAK.I
169 - 177	947.4864	946.4791	946.4720	8	0 K.TGLSDAIDR.A
178 - 195	1928.0870	1927.0797	1926.8781	105	0 R.ANLYMEAGADASFVEAPR.D Oxidation (M)
178 - 201	2627.3398	2626.3325	2626.1857	56	1 R.ANLYMEAGADASFVEAPRDDDELK.E
178 - 201	2643.4299	2642.4226	2642.1806	92	1 R.ANLYMEAGADASFVEAPRDDDELK.E Oxidation (M)
209 - 220	1425.8104	1424.8031	1424.6653	97	1 K.GYRLCNMLEGGR.T
212 - 220	1065.5484	1064.5411	1064.4743	63	0 R.LCNMLEGGR.T Oxidation (M)
271 - 279	1186.6396	1185.6323	1185.5488	70	0 K.MITFEFNR.L
271 - 279	1202.6240	1201.6167	1201.5437	61	0 K.MITFEFNR.L Oxidation (M)
280 - 292	1609.9718	1608.9645	1608.8035	100	0 R.LVNLDWYELETK.Y
293 - 304	1365.7721	1364.7648	1364.7048	44	1 K.YSNLRNALGETK.-

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calC)	ppm	Miss Sequence
9 - 22	1439.8495	1438.8422	1438.7304	78	0 K.STSLFSSNPTISAK.I
169 - 177	947.4864	946.4791	946.4720	8	0 K.TGLSDAIDR.A
178 - 195	1928.0870	1927.0797	1926.8781	105	0 R.ANLYMEAGADASFVEAPR.D Oxidation (M)
178 - 201	2627.3398	2626.3325	2626.1857	56	1 R.ANLYMEAGADASFVEAPRDDDELK.E
178 - 201	2643.4299	2642.4226	2642.1806	92	1 R.ANLYMEAGADASFVEAPRDDDELK.E Oxidation (M)
209 - 220	1425.8104	1424.8031	1424.6653	97	1 K.GYRLCNMLEGGR.T
212 - 220	1065.5484	1064.5411	1064.4743	63	0 R.LCNMLEGGR.T Oxidation (M)
271 - 279	1186.6396	1185.6323	1185.5488	70	0 K.MITFEFNR.L
271 - 279	1202.6240	1201.6167	1201.5437	61	0 K.MITFEFNR.L Oxidation (M)
280 - 292	1609.9718	1608.9645	1608.8035	100	0 R.LVNLDWYELETK.Y
293 - 304	1365.7721	1364.7648	1364.7048	44	1 K.YSNLRNALGETK.-

Spot No.: **124**

Mascot score: **94** Sequence coverage %: **22**

NCBI accession No.: **gi| 22330196**

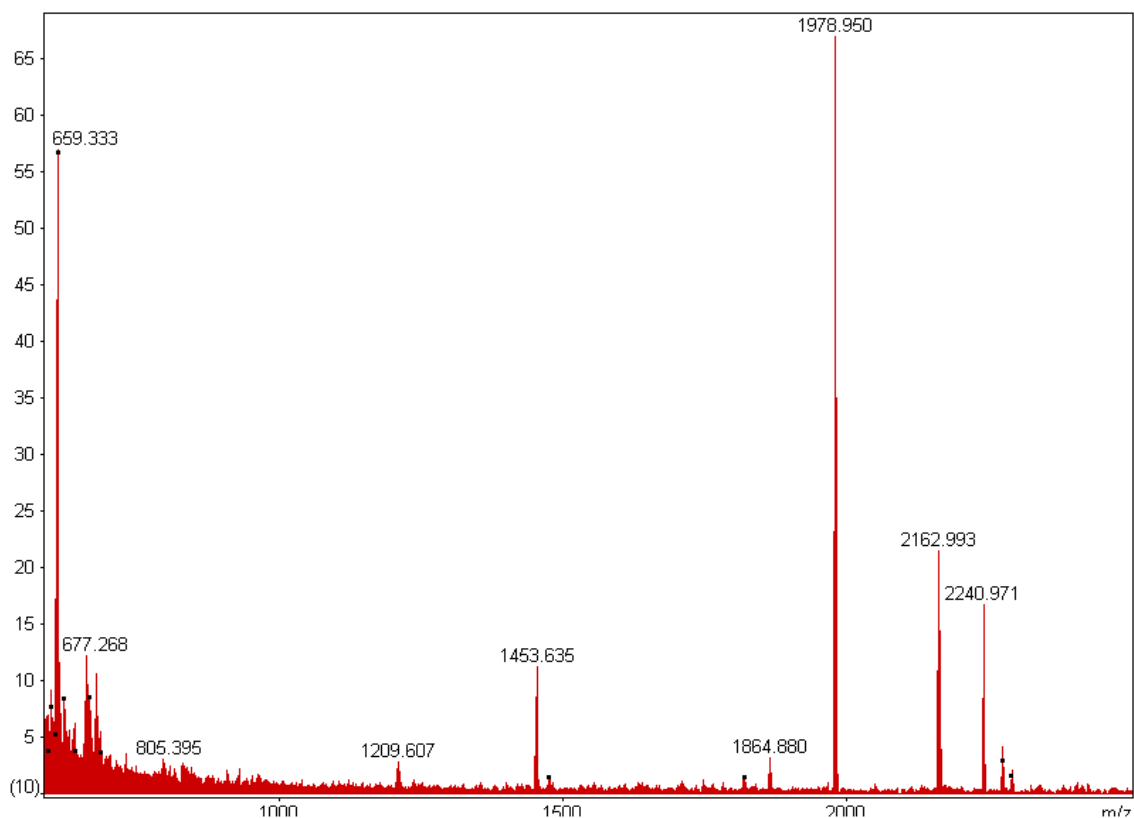
Matched peptides No.: **8**

Total peptides No.: **12**

Calculated Mr: **41927**

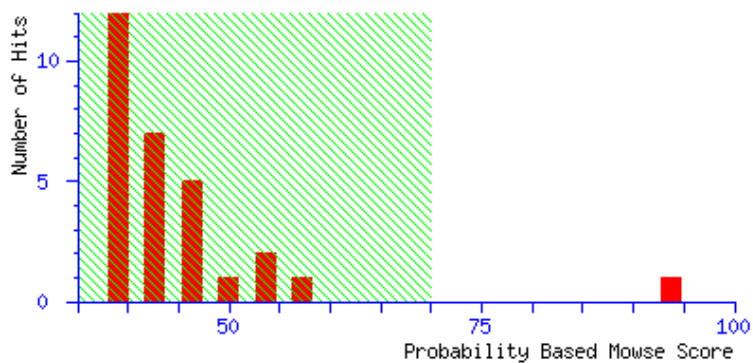
Calculated pI: **6.56**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MSLLSPLPLL HSFSSSTVATK STASRITATP SKIRFSVINA TSENGNSGGG
51  KNDRDEDPSF NPFQFVTDMP SSRSAIQLPE SPAEDGNVGQ MLYRTEDKGG
101 EYGSTIKSGK LRWFVRETGS KESRRGTIVF VHGAPTQSFS YRTVMSELSD
151 AGFHCFAPDW IGFGFSDKPQ PGYGFNYTEK EYHEAFDKLL EVLEVKSPFF
201 LVVQGFLVGS YGLTWALKNP SKVEKLAILN SPLTVSSPVP GLFKQLRIPL
251 FGEFTCQNAI LAERFIEGGS PYVLKNEKAD VYRLPYLSSG GPGFALLETA
301 KKINFGDTLS QIANGFSSGS WDKPTLLAWG IADKYLPQSI AEEFEKQNPQ
351 NVKLRLIEGA GHLPQEDWPE KVVAALRAFF

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
74 - 94	2275.0747	2274.0674	2274.0950	-12	0	R.SAIQLPESPAEDGNVGQMLYR.T
74 - 94	2291.0753	2290.0680	2290.0899	-10	0	R.SAIQLPESPAEDGNVGQMLYR.T Oxidation (M)
95 - 100	677.2677	676.2604	676.3392	-116	1	R.TEDKGG.E
113 - 116	607.3344	606.3271	606.3278	-1	0	R.WFVR.E
248 - 264	1978.9501	1977.9428	1977.9982	-28	0	R.IPLFGEFTCQNAILAER.F
265 - 275	1209.6073	1208.6000	1208.6441	-36	0	R.FIEGGSPYVLK.N
335 - 346	1453.6345	1452.6272	1452.7136	-59	0	K.YLPQSIAEEFEK.Q
356 - 371	1818.8689	1817.8616	1817.8948	-18	0	R.LIEGAGHLPQEDWPEK.V

Spot No.: **125**

Mascot score: **98** Sequence coverage %: **25**

NCBI accession No.: **gi| 5903052**

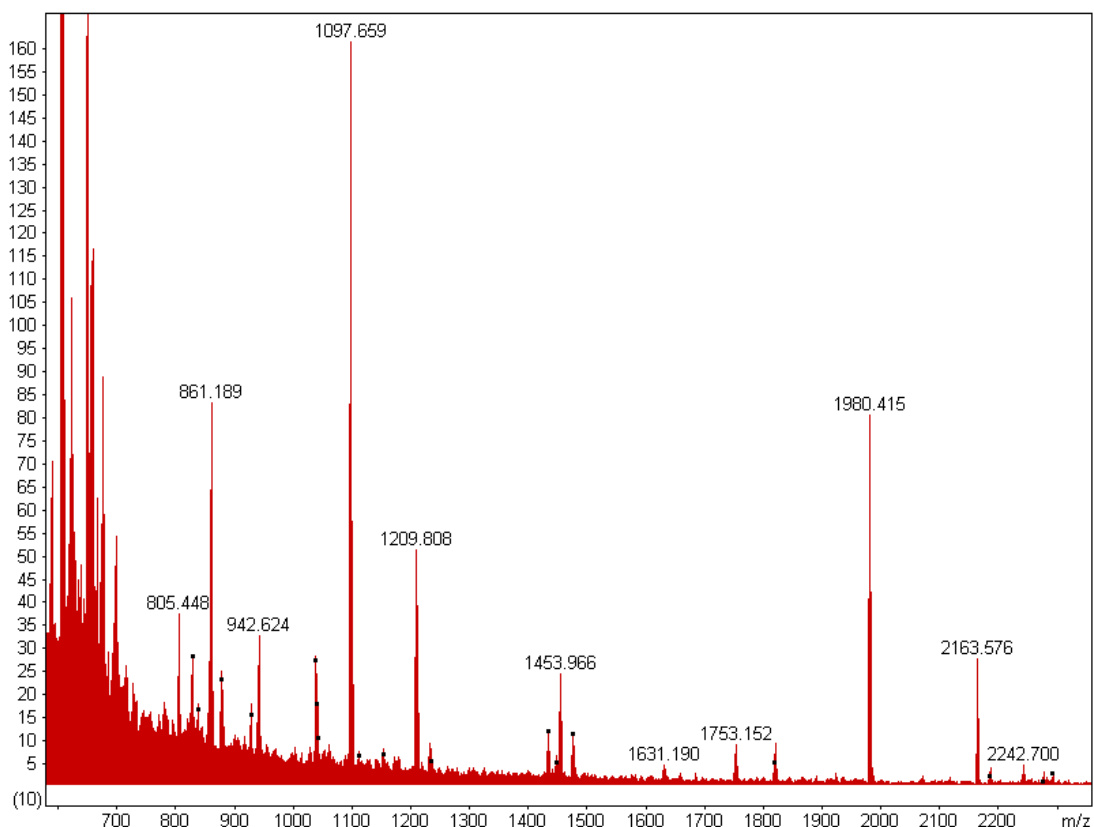
Matched peptides No.: **10**

Total peptides No.: **28**

Calculated Mr: **42000**

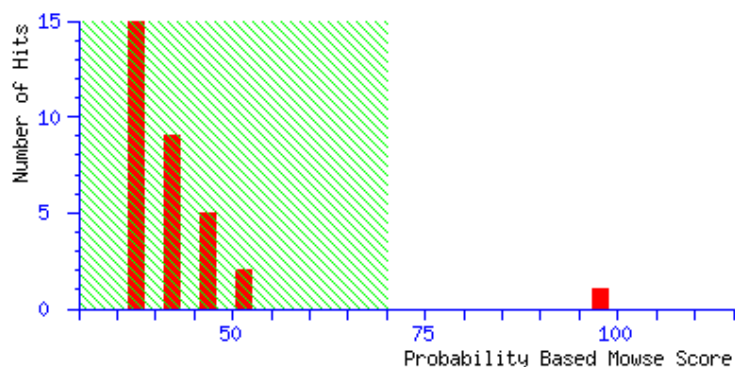
Calculated pI: **6.98**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MSLLSPLPLL HSFSSSTVATK STASRITATP SKIRFSVINA TSENGNSGG
51  KNDRDEDPSF NPFQFVTDNP SSRSAIQLPE SPAEDGNVGQ MLYRTEDKGK
101 EYGSTIKSGK LRWFVRETGS KESRRGTVF VHGAPTQSFS YRTVMSELS
151 AGFHCFAPDW IGFGFSDKPQ PGYGFNYTEK EYHEAFDKLL EVLEVKSPFF
201 LVVQVRMCSY GLTWALKNPS KVEKLAILNS PLTVSSPVP
L FFKQLRIPLF
251 GEFTCQNAIL AERFIEGGSP YVLKNEKADV YRLPYLSSGG PGFALLE
TAK
301 KINFGDTLSQ IANGFSSGSW DKPTLLAWGI ADKYLPQSLA EEFEKQNPQN
351 VKLRLIEGAG HLPQEDWPEK VVAALRAFF

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
74 - 94	2275.6566	2274.6493	2274.0950	244	0	R.SAIQLPESPAEDGNVGQMLYR.T
95 - 100	677.3239	676.3166	676.3392	-33	1	R.TEDKGE
113 - 116	607.3615	606.3542	606.3278	44	0	R.WFVRE
181 - 188	1038.5660	1037.5587	1037.4454	109	0	K.EYHEAFDKL
189 - 196	942.6240	941.6167	941.5797	39	0	K.LLEVLEK.S
264 - 274	1209.8080	1208.8007	1208.6441	130	0	R.FIEGGSPYVLK.N
278 - 282	623.3410	622.3337	622.3075	42	0	K.ADVYR.L
334 - 345	1453.9665	1452.9592	1452.7136	169	0	K.YLPQSLAEFEK.Q
355 - 370	1819.2999	1818.2926	1817.8948	219	0	R.LIEGAGHLPQEDWPEK.V
371 - 376	628.3909	627.3836	627.4068	-37	0	K.VVAALR.A

Spot No.: **126**

Mascot score: **91** Sequence coverage %: **28**

NCBI accession No.: **gi| 15242351**

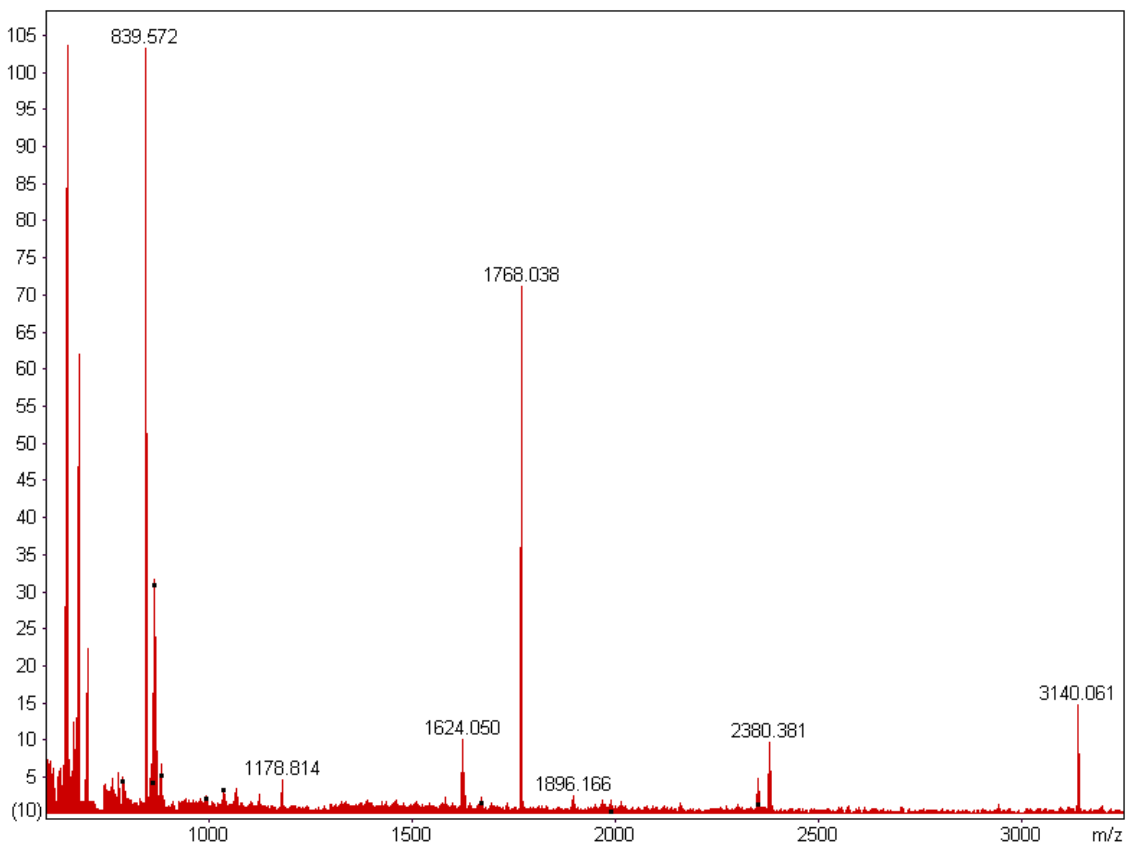
Matched peptides No.: **10**

Total peptides No.: **18**

Calculated Mr: **41377**

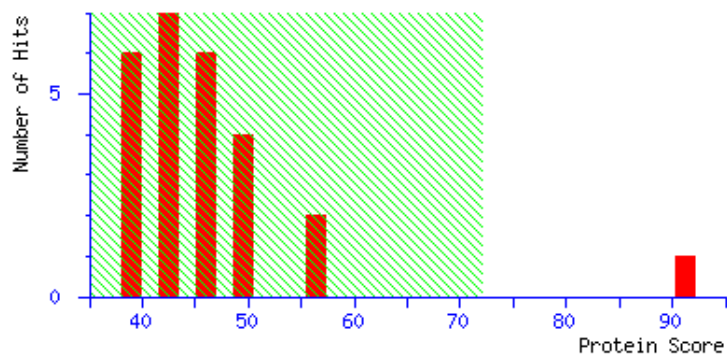
Calculated pI: **5.76**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MVEPANTVGL PVNPTPLLKD ELDIVIPTIR NLDLFLEMWRP FLQPYHLIIV
51 QDGDPSKKIH VPEGYDYELY NRNDINRILG PKASCISFKD SACRCFGYMV
101 SKKKYIFTID DDCFVAKDPS GKAVNALEQH IKNLLCPSSP FFFNTLYDPY
151 REGADFVRGY PFSLRREGVST AVSHGLWLNI PDYDAPTQLV KPKERNTRYV
201 DAVMTIPKGT LFPMCGMNLA FDRDLIGPAM YFGLMGDGQP IGRYDDMWAG
251 WCIKVICDHL SLGVKTGLPY IYHSKASNPV VNLKKEYKGI FWQEEIIPFF
301 QNAKLSKEAV TVQQCYIELS RMVKEKLSSL DPYFDKLADA MVTWIEAWDE
351 LNPPAASGKA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
1 - 19	1989.1779	1988.1706	1989.0969	-266	0	-.MVEPANTVGLPVNPTPLLK.D
58 - 72	1896.1659	1895.1586	1894.9213	125	1	K.KIHVPEGYDYELYNR.N
59 - 72	1768.0380	1767.0307	1766.8264	116	0	K.IHVPEGYDYELYNR.N
59 - 77	2380.3810	2379.3737	2379.1243	105	1	K.IHVPEGYDYELYNRNDINR.I
133 - 151	2351.2985	2350.2912	2350.1092	77	0	K.NLLCPSSPFFFNTLYDPYR.E
159 - 165	839.5719	838.5646	838.4337	156	0	R.GYPFSLR.E
266 - 275	1178.8140	1177.8067	1177.6131	164	0	K.TGLPYIYHSK.A
276 - 284	989.6581	988.6509	988.5342	118	0	K.ASNPFVNLK.K
308 - 321	1668.0968	1667.0895	1666.8236	160	0	K.EAVTVQQCYIELSK.M
322 - 326	650.1518	649.1445	649.3469	-212	1	K.MVKEK.L Oxidation (M)

Spot No.: **127**

Mascot score: **81** Sequence coverage %: **90**

NCBI accession No.: **gi| 115443951**

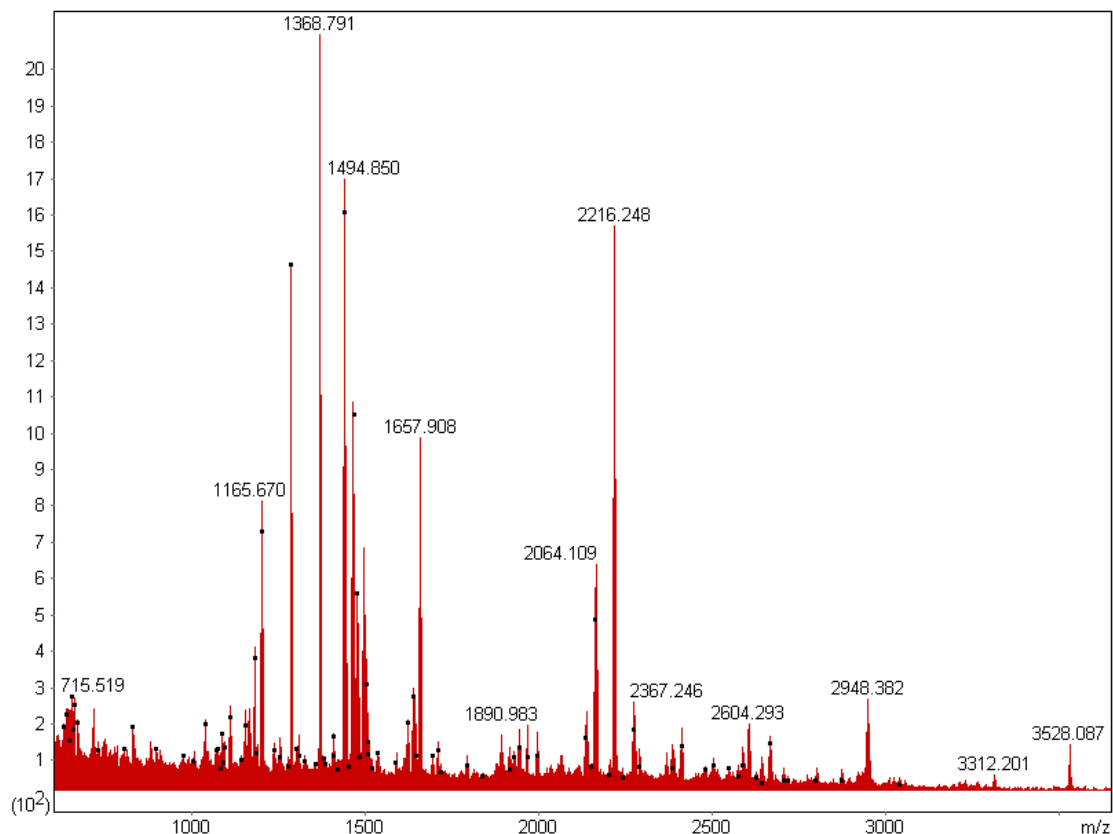
Matched peptides No.: **12**

Total peptides No.: **55**

Calculated Mr: **27078**

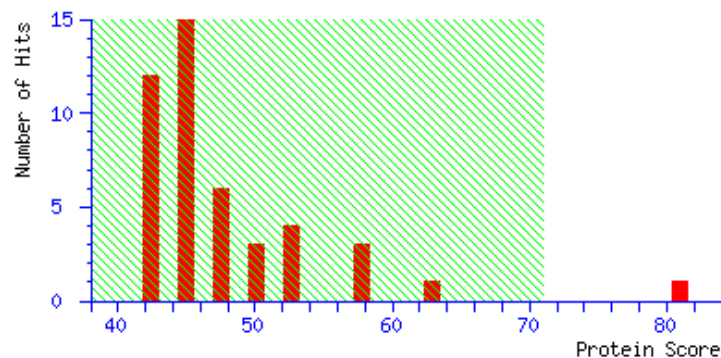
Calculated pI: **9.30**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MMPSASDAAA** **AAAALELQES** **GWEELR**REAR KLEGDL DVKL **SSYARLAARS**
51 **SSAADAASAS** **SPSERSSWKS** **MEFEIQSLLD** KLQDVNDAMS **RCAASTAPT**
101 **SVSQKLARHR** DILHEFAQEF RRTRGNLSSI **REHADLLSSV** **RDDITESKAT**
151 **GGMSPRVHLL** **RERASIHGSI** NQIDEVIGQA QSTRVALSNQ RALFGDVQGK
201 **VKQLGEKFPV** **IRGLLGAIKR** KSKDIIIS AVIAACTIFL IYWLSK

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 26	2705.1697	2704.1624	2704.2472	-31	0	- .MMPSASDAAAAAALQLQESGWEE LR.R
2 - 26	2574.2489	2573.2416	2573.2067	14	0	M.MPSASDAAAAAALQLQESGWEE LR.R
40 - 49	1107.6084	1106.6011	1106.6196	-17	1	K.LSSYARLAAR.S
50 - 65	1480.7894	1479.7821	1479.6437	94	0	R.SSSAADAASASSPSE R.S
66 - 81	1927.9153	1926.9080	1926.9397	-16	1	R.SSWKSMFEFIQSLLDK.L
70 - 81	1439.7769	1438.7696	1438.7014	47	0	K.SMEFEIQSLLDK.L
70 - 91	2585.3710	2584.3637	2584.2149	58	1	K.SMEFEIQSLLDKQLQDVNDAMSR.C Oxidation (M)
106 - 110	652.4408	651.4336	651.3929	62	1	K.LARHR.D
123 - 131	1003.5660	1002.5587	1002.5570	2	1	R.TRGNLSSIR.E
132 - 148	1914.8844	1913.8771	1913.9330	-29	1	R.EHADLLSSVRDDITESK.A
157 - 161	637.3811	636.3738	636.4071	-52	0	R.VHLLR.E
203 - 212	1186.6419	1185.6346	1185.6870	-44	1	K.QLGEKFPVIR.G

Spot No.: **128**

Mascot score: **95**

Sequence coverage %: **34**

NCBI accession No.: **gi| 312281543**

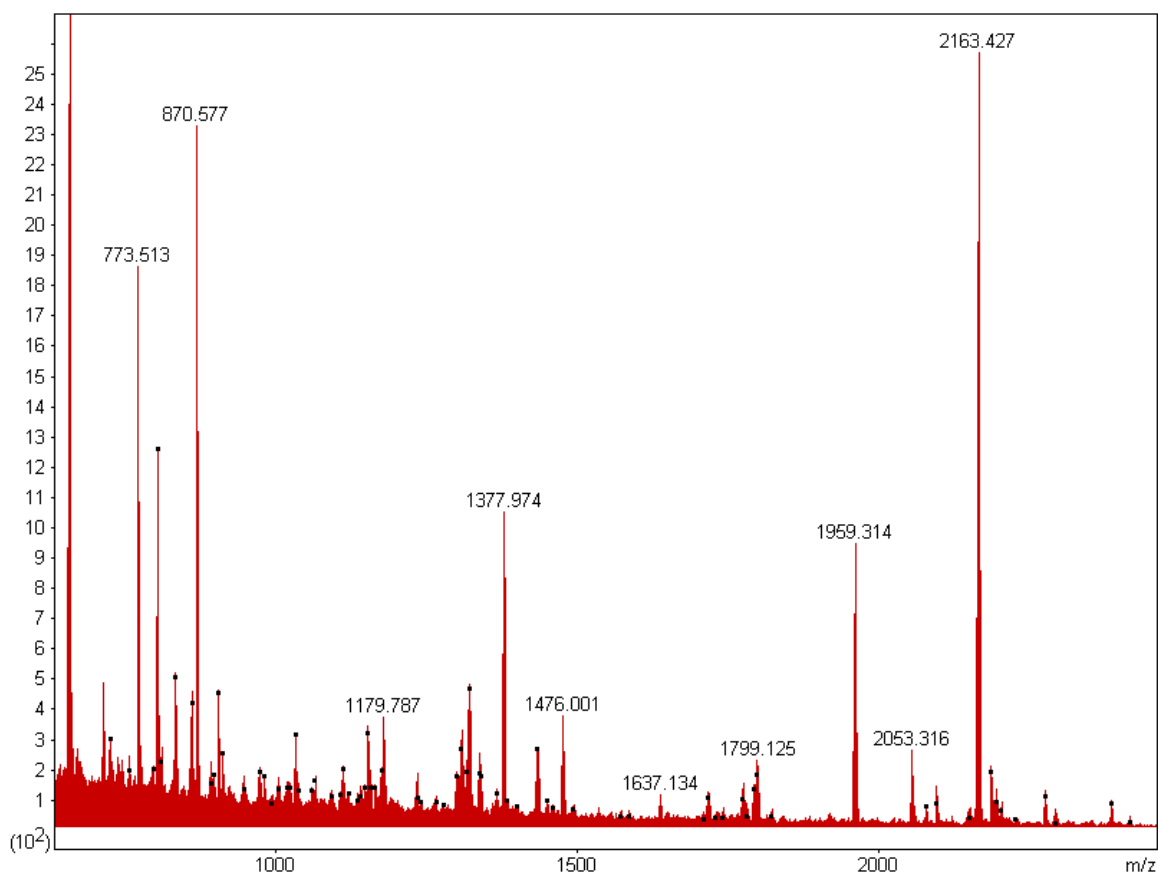
Matched peptides No.: **14**

Total peptides No.: **49**

Calculated Mr: **50983**

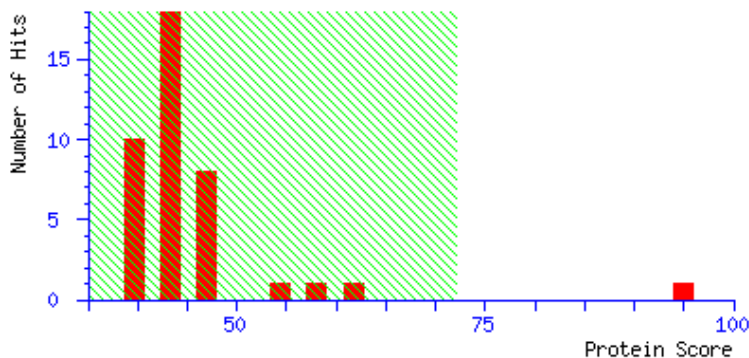
Calculated pI: **6.67**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MSSTHQLTSS LISSSSSTFL APSNFNRRAR NGCLPMAKRV NTCKCVATPQ
51 EKIEYKTNVS RNSNMSKLQA GYLFPEIARR RSAHLLKYPD AQIISLGIGD
101 TTEPIPEVIT SAIAEKAHEL STIEGYSYGYG PEQGAKPLRA AIAKTFYSGL
151 GIGDDDIFVS DGAKCDISRL QVMFGSKVTI AVQDPSYPAY VDSSVIMGQT
201 GQFNTDVQKY GNIEYMKCTP ENGFFPDLST VGRTDIIFFC SPNNPTGAAA
251 TREQLKQLVE FAKNGSIIV YDSAYAMYMS DDNPRSIFEI PGAEEVAMET
301 ASFSKYAGFT GVRLGWTVIP KQLLYSDGFP VAKDFNRIIC TCFNGASNLS
351 QAGALACLTP EGLEAMHKVI GFYKENTNII IDTFTSLGYD VYGGKNAPYV
401 WVHFPNQSSW DVFAEILEKT HVVTPGSGF GPGGEGFVRV SAFGHRENIL
451 EACRRFKQLY K

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence	
31 - 38	906.6143	905.6070	905.4099	218	0	R.NGCLPMAK.R	Oxidation (M)
68 - 79	1377.9744	1376.9671	1376.7452	161	0	K.LQAGYLFPEIAR.R	
117 - 136	2094.3036	2093.2963	2092.9701	156	0	K.AHELSTIEGYSYGYGPEQGAK.P	
210 - 217	1033.6347	1032.6274	1032.4586	164	0	K.YGNIEYMK.C	Oxidation (M)
218 - 233	1797.1237	1796.1164	1795.8200	165	0	K.CTPENGFFPDLSTVGR.T	
234 - 252	2053.3161	2052.3088	2051.9735	163	0	R.TDIIFFCSPNNPTGAAATR.E	
257 - 263	834.5486	833.5413	833.4647	92	0	K.QLVEFAK.K	
306 - 313	870.5775	869.5702	869.4396	150	0	K.YAGFTGVR.L	
314 - 321	913.6077	912.6004	912.5433	63	0	R.LGWTVIP.Q	
322 - 333	1337.8834	1336.8761	1336.7027	130	0	K.QLLYSDGFPVAK.D	
369 - 374	726.4701	725.4628	725.4112	71	0	K.VIGFYK.E	
420 - 439	1959.3139	1958.3066	1957.9647	175	0	K.THVVTPGSGFGPGGEGFVR.V	
440 - 446	773.5129	772.5057	772.3980	139	0	R.VSAFGHR.E	
447 - 454	1004.6406	1003.6333	1003.4756	157	0	R.ENILEACR.R	

Spot No.: **129**

Mascot score: **156** Sequence coverage %: **40**

NCBI accession No.: **gi| 15239282**

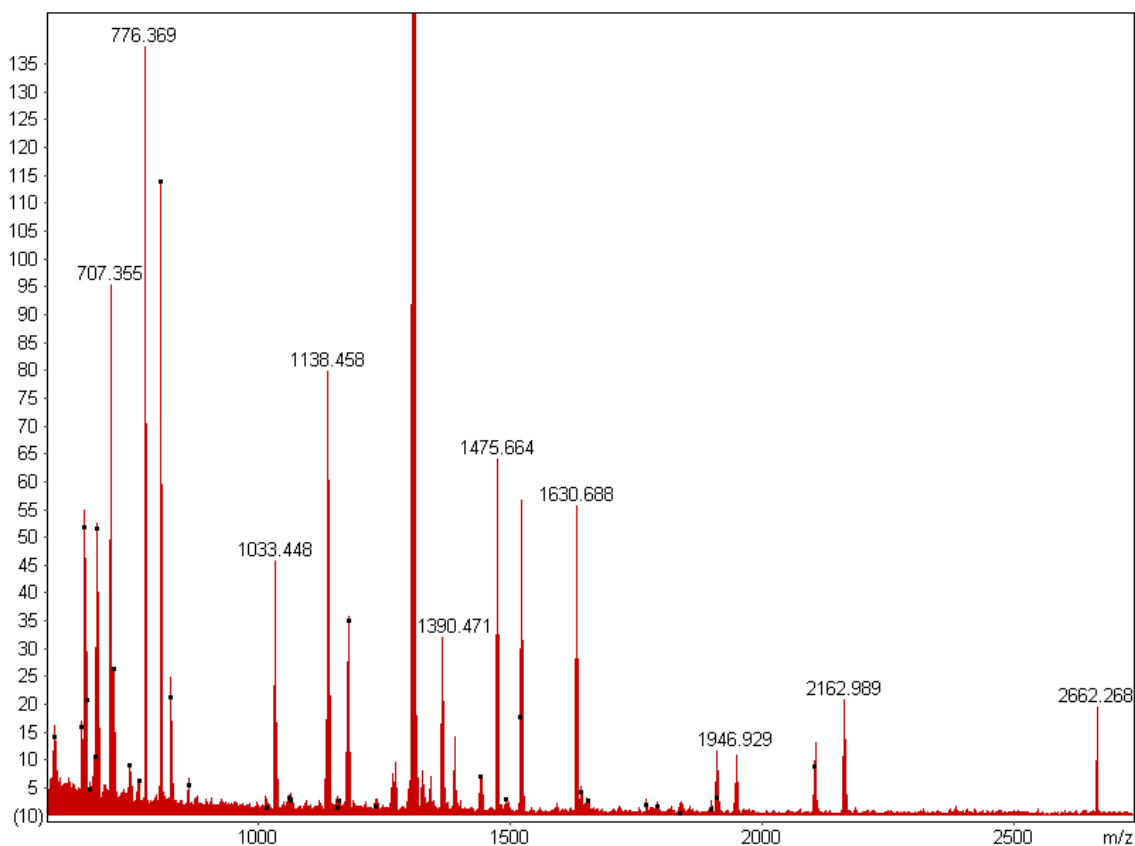
Matched peptides No.: **18**

Total peptides No.: **43**

Calculated Mr: **40643**

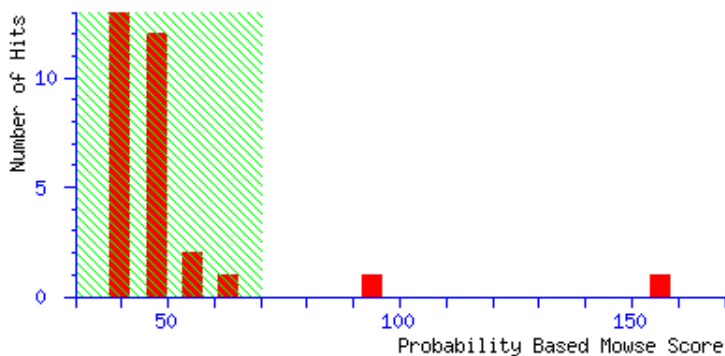
Calculated pI: **8.32**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAAAISSAAVS LPSSKSSSLL TKISSVSPQR IFLKKSTVCY RRVVSVKAQV
51 TDDTTEAPPV KVVKESKK**QE** **EGIVVNKFKP** **KNPYTGR**CLL NTKITGDDAP
101 GETWHIVFTT EGEVPYR**EGQ** **SIGVIPEGID** KNGKPHKLRL **YSIASSAIGD**
151 **FGDSK**TVSLC VKRLVYTNDG GEIVK**GVCSN** **FLCDLKP**GDE **AKITGP**VGKE
201 MLMPKDPNAT IIMLGTGTGI APFR**SFLWKM** **FFEEHEDYKF** NGLAWLFLGV
251 PTSSSLLYKE EFEKMK**KEKNP** DNFR**LDFAVS** REQTNEK**GEK** **MYIQTRMAEY**
301 **AEELWELLK** **DNTFVYMCGL** **KGMEKGIDDI** **MVSLAAKGI** **DWLEYK**QLK
351 **RSEQWNVEVY**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
69 - 77	1015.4746	1014.4673	1014.5346	-66	0	K.QEEGIVVNK.F
82 - 87	707.3550	706.3477	706.3398	11	0	K.NPYTGR.C
118 - 131	1441.6547	1440.6474	1440.7460	-68	0	R.EGQSIGVIPEGIDK.N
140 - 155	1630.6885	1629.6812	1629.7886	-66	0	R.LYSIASSAIGDFGDSK.T
176 - 192	1909.7993	1908.7920	1908.8710	-41	0	K.GVCSNFLCDLKPGEAK.I
225 - 229	680.3747	679.3674	679.3693	-3	0	R.SFLWK.M
230 - 239	1374.4809	1373.4736	1373.5598	-63	0	K.MFFEEHEDYK.F
230 - 239	1390.4706	1389.4633	1389.5547	-66	0	K.MFFEEHEDYK.F Oxidation (M)
275 - 281	807.4221	806.4148	806.4286	-17	0	R.LDFAVSR.E
291 - 296	827.3824	826.3751	826.4007	-31	0	K.MYIQTR.M Oxidation (M)
297 - 309	1640.6884	1639.6811	1639.7803	-60	0	R.MAEYAEELWELLK.K Oxidation (M)
297 - 310	1768.7718	1767.7645	1767.8753	-63	1	R.MAEYAEELWELLK.D Oxidation (M)
310 - 321	1475.6642	1474.6569	1474.6949	-26	1	K.KDNTFVYMCGLK.G
310 - 321	1491.6536	1490.6463	1490.6898	-29	1	K.KDNTFVYMCGLK.G Oxidation (M)
326 - 337	1232.5462	1231.5389	1231.6482	-89	0	K.GIDDIWVSLAAK.D
338 - 346	1138.4575	1137.4502	1137.5342	-74	0	K.DGIDWLEYK.K
338 - 347	1266.5367	1265.5294	1265.6292	-79	1	K.DGIDWLEYK.Q
351 - 360	1309.5316	1308.5243	1308.6098	-65	1	K.RSEQWNVEVY.-

Spot No.: **130**

Mascot score: **94** Sequence coverage %: **21**

NCBI accession No.: **gi| 11228579**

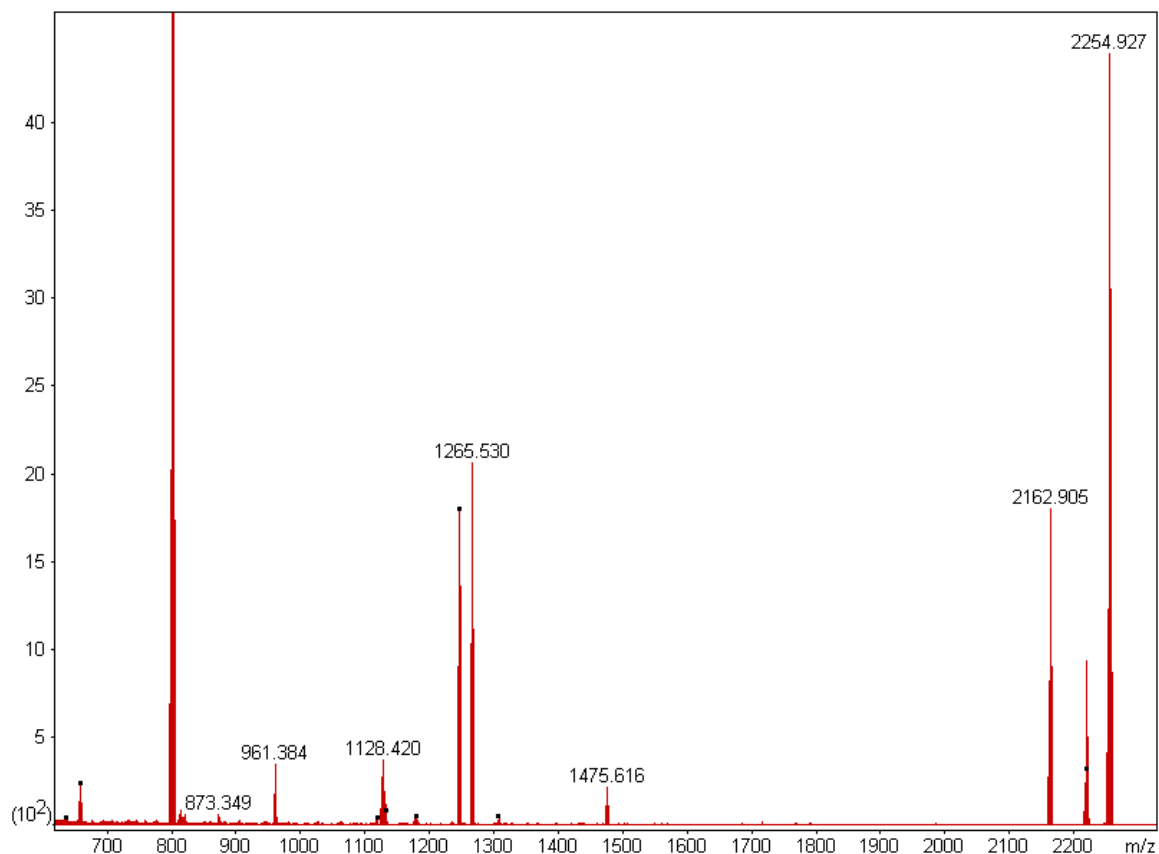
Matched peptides No.: **8**

Total peptides No.: **20**

Calculated Mr: **36905**

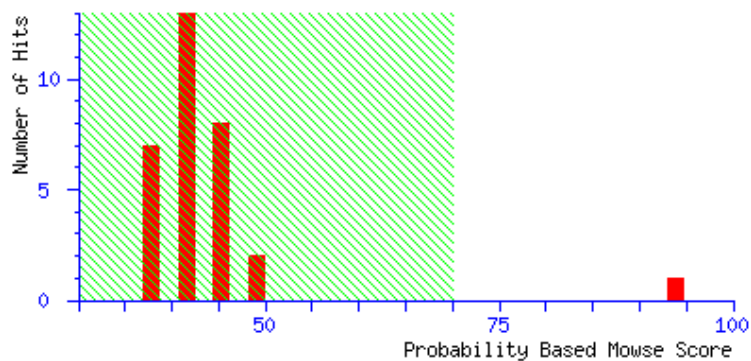
Calculated pI: **5.39**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 ESAPSLAVVG VTGAVGQEFLL SVLSDRDFPY SSIKMLASKR SAGKRVAFDG
51 HEYTVEELTA DSFNGVDIAL FSAGGSISKE **FGPLAAEKGT IVVDNSSAFR**
101 MVDGVPLVIP EVNPEAMKGI KVGMGKGLI ANPNCSTIIC LMAVTPLHHH
151 AKVKRMVVST YQAASGAGAA AMEELVQQTR EVLEGKPPTC NIFGQQYAFN
201 LFSHNAPILD NGYNEEEMKL VKETR**KIWND TEVKVTATCI RVPVMR**AHAE
251 SVNLQFENPL DENTAREILK **KAPGVYIIDD RASNTFPTPL** DVSNKDDVAV
301 GRIR**R**D**V**S**Q**D **GNFGLDIFVC GDQIR**KGAAL NAVQIAEMLL

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
80 - 88	961.3838	960.3766	960.4916	-120	0	K.EFGPLAAEK.G
89 - 100	1265.5303	1264.5230	1264.6412	-93	0	K.GTIVVDNSSAFR.M
226 - 234	1132.4595	1131.4522	1131.5924	-124	1	R.KIWNDTEVK.V
235 - 241	820.3312	819.3239	819.4273	-126	0	K.VTATCIR.V
242 - 246	617.2216	616.2144	616.3367	-198	0	R.VPVMR.A Oxidation (M)
271 - 281	1246.5550	1245.5477	1245.6717	-100	1	K.KAPGVYIIDDR.A
272 - 281	1118.4414	1117.4341	1117.5768	-128	0	K.APGVYIIDDR.A
306 - 325	2254.9270	2253.9197	2254.0325	-50	0	R.DVSQDGNFGLDIFVCGDQIR.K

Spot No.: **131**

Mascot score: **96** Sequence coverage %: **8**

NCBI accession No.: **gi| 116060520**

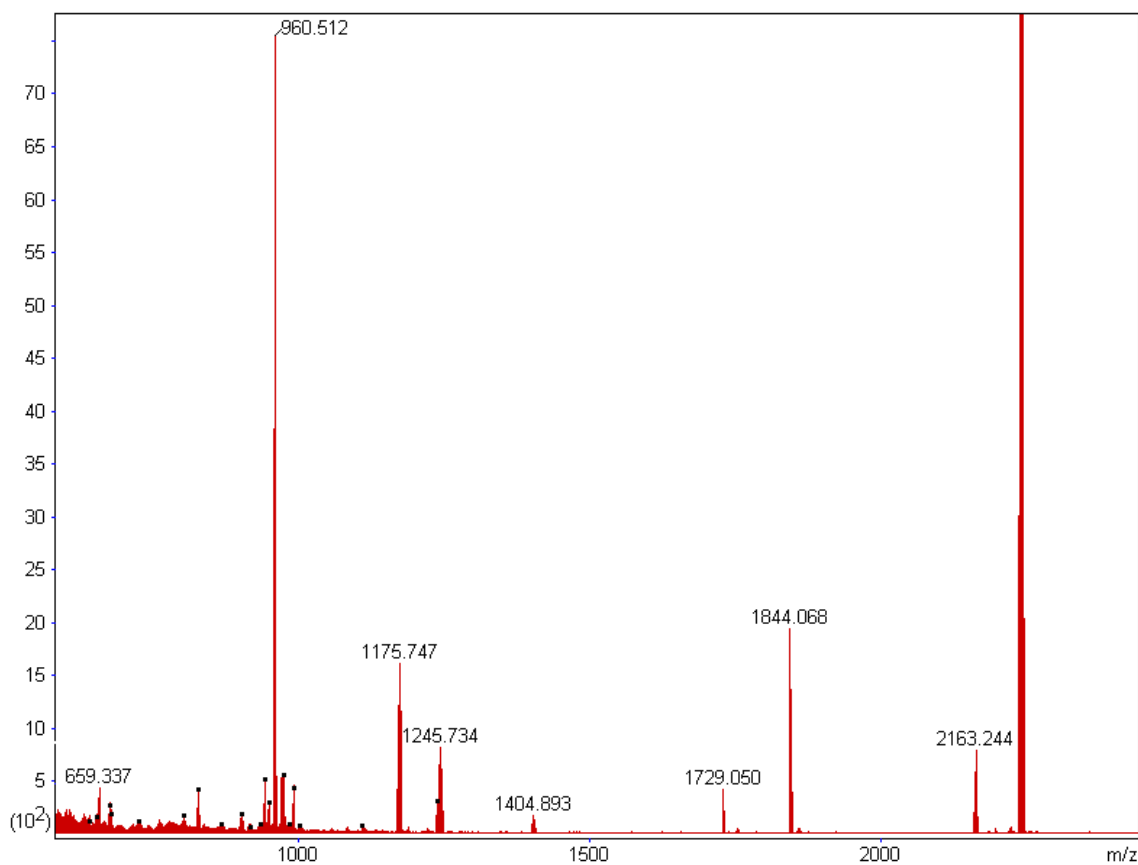
Matched peptides No.: **11**

Total peptides No.: **17**

Calculated Mr: **106933**

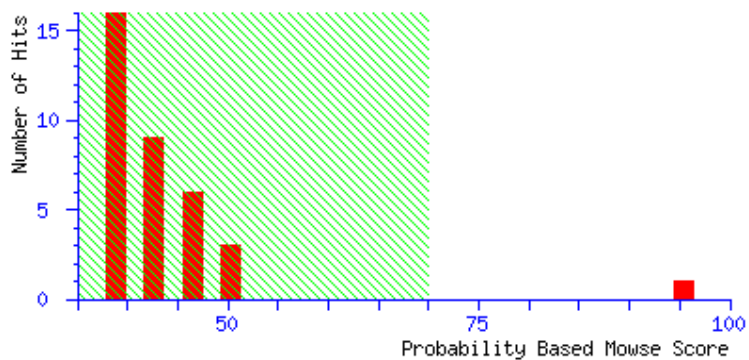
Calculated pI: **6.77**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MEPEKRARSS LGVARASRPT IELGKRIDAN VEPPLTRAE **ARDGER**FPTE
51 KLTRALIREG WSENKRRALV MKSTGDDGTM VNPMLRETL LRLANSETLR
101 EIRRRVNETA KEKRRTP EIG ARDRSEYGRG MTEADCKPWS APELVHASAD
151 DVEAFFKDLA SEVELSELEQ FVPHGVRKRK LIENLHAYRV SSHRGVMMVK
201 IVYLAQYKRD VDACRNAWTE DILGHALDSL RDALLTPKSA EDQETELKCV
251 FGLLNHSIQE DLVDTAKIFD EVLRFVHERS LAASKSCSGT AALVLARSMA
301 ATLTALVPHA SQSHEDSIKL AQKVAVCLEG AVSNGSARAD GHLVTRLSEV
351 IASLGSVNAD AFISAPREQG LDVVQKLRTK SKRRQMPLSH RLCQVIDDVE
401 KRVQSLTHAA SPAVIAIKVH NLVK**LLNEVL** **DKSGDEAMMS** ELSQKFINAQ
451 EDGEVARKAM VNVACSWAVD ASDDAVNER**Q** **RVTRVFLNEL** TQSPRPLILH
501 WIKENSANLR **QEDDKIGR**IS GLLIQLLOGD VIRMQQLLDF IIAEGILEER
551 ISHDLSMAFH RYLSDIVKDD NAKREILDDS TAQTARQLIG SESEKENTKV
601 VVIPATNVLD FSSDEERLLC TSFAEVSAN LASKVAELKG ALNASAIHK
651 TLGRVLTVCL MHDATKGLF AEIVGDMGPE VTKDVLSTVS MDVLSVENLE
701 NTNSIFNCAH **WRMCAAFDR**W KFARSLVDFQ LCLLHNVPKG KRAVAEGLVE
751 ANTTQLVQLA KSTNIAHKCL HIWTRILVVI PLIGVVLMSA SASNKFSQLI
801 LDVLDLSIIGK TVVEESAEDI IAESDMGETL VDRLVALFSV VSVGQIPKWA
851 PVPK**LPFRE** **LSSVKL**ALSK SIESK**SIAGM** **VCVRLQRAIS** **LPLTKLR**TRS
901 VNPWK**ILASG** **ASSDR**SKLSD AEKAEFWLQG TVRRPGNLA WQNCNAEPTF
951 ITENKILS

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 6	805.4094	804.4021	804.3800	28	1	- . MEPEKR .A Oxidation (M)
39 - 46	903.4320	902.4247	902.4206	5	1	R. AEARDGER .F
425 - 432	943.4750	942.4677	942.5386	-75	0	K. LLNEVL DK.S
480 - 484	659.3374	658.3301	658.3875	-87	1	R. QVTR .V
511 - 518	960.5118	959.5045	959.4672	39	1	R. QEDDKIGR .I
713 - 719	870.4022	869.3949	869.3524	49	0	R. MCAAFDR .W
856 - 865	1175.7474	1174.7401	1174.6710	59	1	K. LPFRELSSVK .L
876 - 884	992.5152	991.5080	991.4943	14	0	K. SIAGMVCVR .L
885 - 895	1239.7298	1238.7225	1238.7710	-39	1	R. LQRAISLPLTK .L
888 - 897	1111.6574	1110.6501	1110.7124	-56	1	R. AISLPLTKLR .T
906 - 915	976.5137	975.5065	975.4985	8	0	K. ILASGASSDR .S

Spot No.: **132**

Mascot score: **133** Sequence coverage %: **32**

NCBI accession No.: **gi| 2317731**

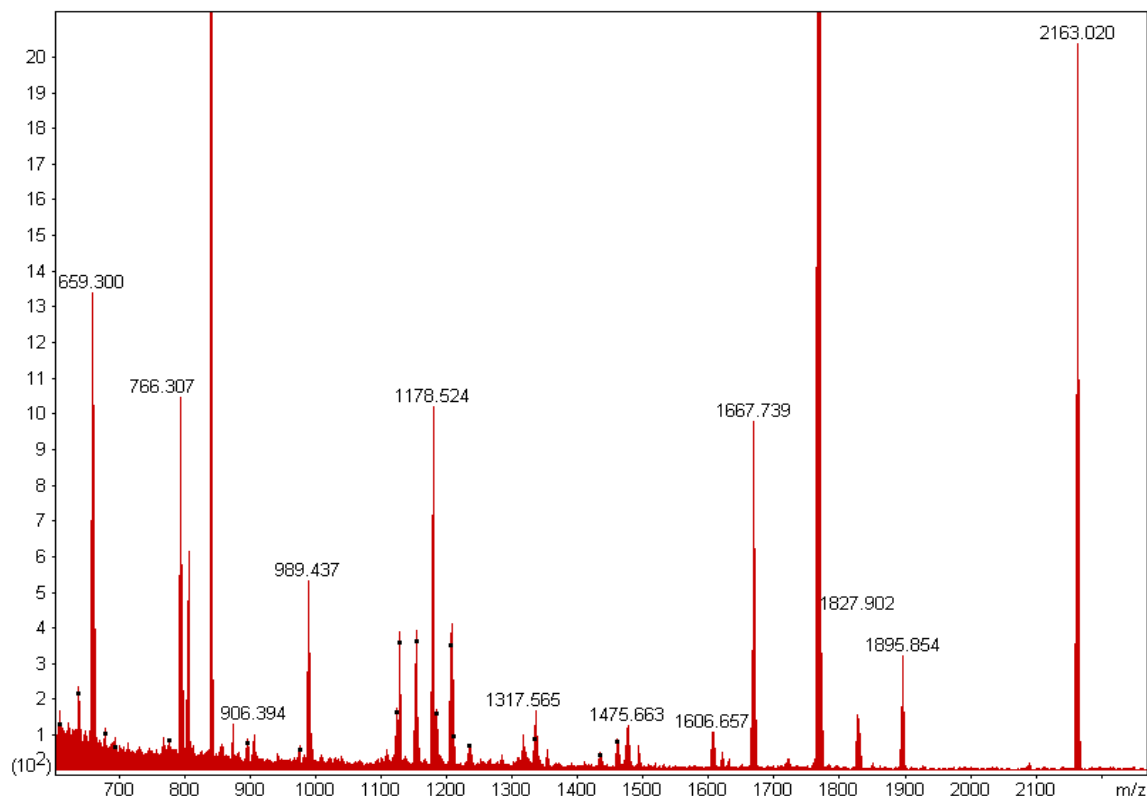
Matched peptides No.: **13**

Total peptides No.: **39**

Calculated Mr: **41875**

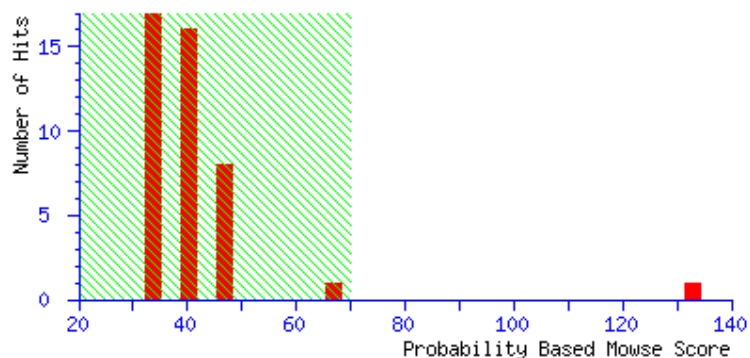
Calculated pI: **5.93**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVEPANTVGL PVNPTPLLKD ELDIVIPTIR NLDFLEMWRP FLQPYHLIIV
51 QDGDPSK**KIH VPEGYDYELY** NRNDINRILG PK**ASCISFKD** **SACRC**FGYMV
101 SKKKY**IFTID DDCFVAKDPS** GK**AVNALEQH** **IKNLL**CPSSP FFFNTLYDPY
151 **REGADFVRGY PFSL**REGVST AVSHGLWLNI PDYDAPTQLV KPKERNTRY**V**
201 **DAVMTNPKGT** LFPMCGMNLA FDRDLIGPAM YFVLMGDGQP IGRY**DDMWAG**
251 **WCIK**VICDHL SLGVKT**TGLPY IYH**SKASNPF VNLKKEYKGI FWQEEIIPFF
301 QNAKLS**KEAV TVQQCYIELS** KMVKE**LSSL** **DPYFDK**LADA MVTWIEAWDE
351 LNPPAASGKS LRAV

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
58 - 72	1895.8537	1894.8464	1894.9213	-40	1	K.KIH VPEGYDYELY NR.N
59 - 72	1767.7695	1766.7622	1766.8264	-36	0	K.IH VPEGYDYELY NR.N
83 - 89	812.3390	811.3317	811.3898	-72	0	K.A SCISFK .D
90 - 94	608.1921	607.1848	607.2384	-88	0	K.D SACR .C
105 - 117	1606.6572	1605.6499	1605.7385	-55	0	K.Y IFTIDDDCFVAK .D
123 - 132	1122.5363	1121.5290	1121.6193	-80	0	K.A VNALEQH IK.N
152 - 158	793.3104	792.3031	792.3766	-93	0	R.E GADFVR .G
159 - 165	839.3653	838.3580	838.4337	-90	0	R.G YPFSLR .E
199 - 208	1153.5164	1152.5091	1152.5485	-34	0	R.Y VDAVMTNPK .G Oxidation (M)
244 - 254	1460.5353	1459.5280	1459.5901	-43	0	R.Y DDMWAGWCIK .V Oxidation (M)
266 - 275	1178.5237	1177.5164	1177.6131	-82	0	K.T GLPYIYH SK.A
308 - 321	1667.7394	1666.7321	1666.8236	-55	0	K.E AVTVQQCYIELS K.M
327 - 336	1184.5086	1183.5013	1183.5761	-63	0	K.L SSLDPYFDK .L

Spot No.: **133**

Mascot score: **174** Sequence coverage %: **26**

NCBI accession No.: **gi| 18391442**

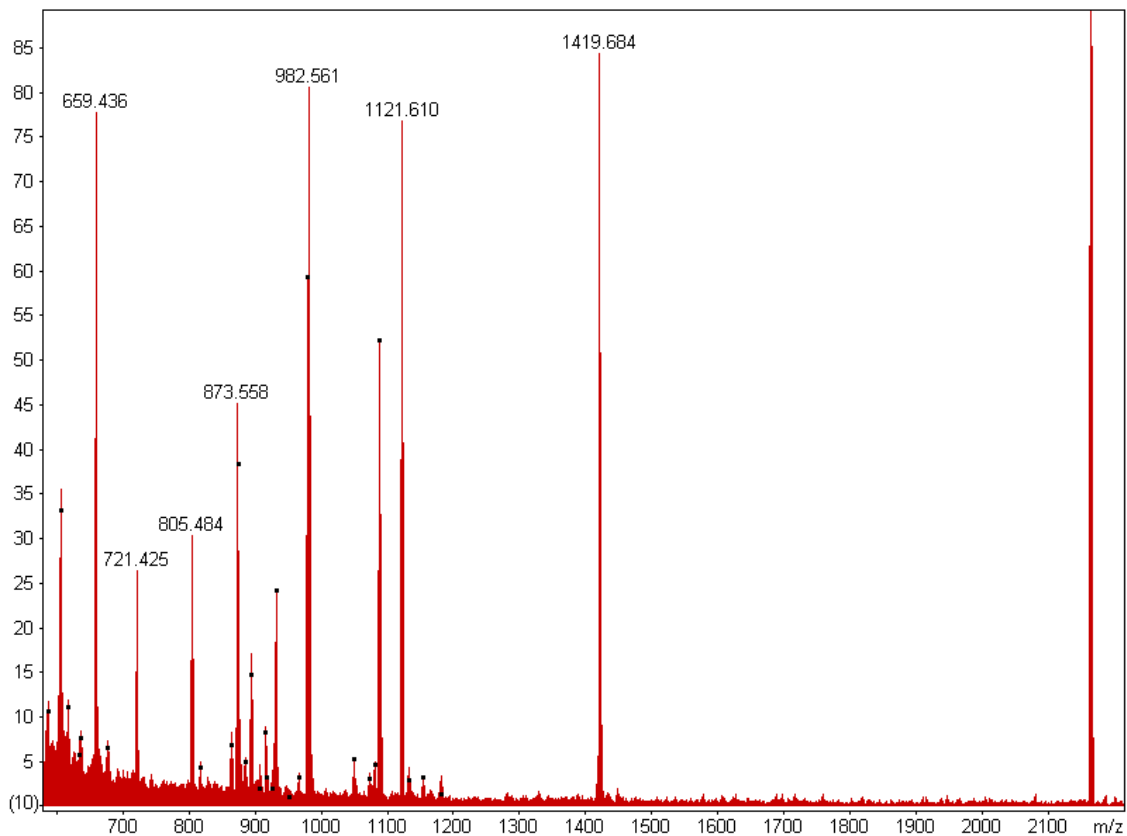
Matched peptides No.: **15**

Total peptides No.: **27**

Calculated Mr: **42878**

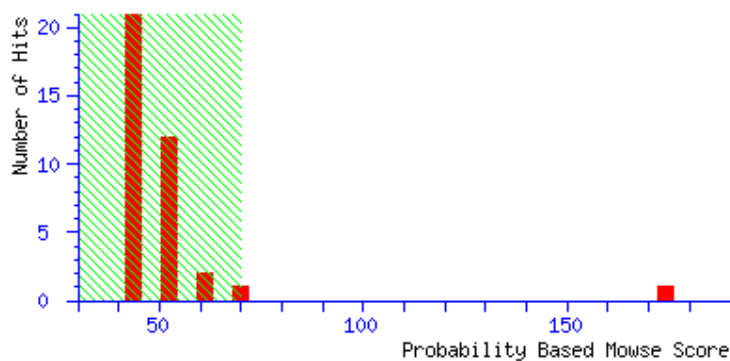
Calculated pI: **5.40**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MTSRYWVWSL PVKDSASSLW NRLQEQISKH **SFDTVPVYRFN** **IPNLRVGTLD**
51 SLLALGDDLL **KSNSFVEGVS** **QKIRRQIEEL** ERISGVESNA LTVDGVVPVDS
101 YLTR**FWWDEA** **KYPTMSPLKE** VVDNIQSQVA KIEDDLKVRV **AEYNNIRGQL**
151 **HAINRKQSGS** **LAVRDLSNLV** KPEDIVESEH LVTLLAVVPK YSQKDWLACY
201 ETLTDYVWPR SSKKLFEDNE YALYTVTLFT **RVADNFR**IAA **REKGFQVR**DF
251 EQSVEAQETR KQELAK**LVQD** **QESLR**SLLQ WCYTSYGEVF SSWMHFC AVR
301 TFAESIMRYG LPPAFLACVL SPAVKSEKKV **RSILER**LCDS TNSLYWKSEE
351 DAGAMAGLAG DSETHPYVSF TINLA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
30 - 38	1121.6103	1120.6030	1120.5302	65	0	K.HSFDTVPVYR.F	
39 - 45	873.5577	872.5505	872.4868	73	0	R.FNIPNLR.V	
62 - 72	1181.6174	1180.6101	1180.5724	32	0	K.SNSFVEGVSQK.I	
75 - 82	1072.6099	1071.6026	1071.5672	33	1	R.RQIEELER.I	
76 - 82	916.5278	915.5205	915.4661	59	0	R.QIEELER.I	
105 - 111	894.4897	893.4824	893.4283	61	0	R.FWWDEAK.Y	
112 - 119	952.5311	951.5238	951.4735	53	0	K.YPTMSPLK.E	Oxidation (M)
140 - 147	978.5567	977.5494	977.4930	58	0	R.VAEYNNIR.G	
148 - 155	885.5243	884.5170	884.4828	39	0	R.GQLMAINR.K	
157 - 164	817.4690	816.4617	816.4454	20	0	K.QSGSLAVR.D	
232 - 237	721.4246	720.4173	720.3555	86	0	R.VADNFR.I	
242 - 248	863.5164	862.5092	862.4661	50	1	R.EKGFQVR.D	
244 - 248	606.3957	605.3884	605.3286	99	0	K.GFQVR.D	
267 - 275	1087.6380	1086.6307	1086.5669	59	0	K.LVQDQESLR.S	
332 - 336	617.3872	616.3800	616.3544	41	0	R.SILER.L	

Spot No.: **134**

Mascot score: **97**

Sequence coverage %: **31**

NCBI accession No.: **gi| 312281543**

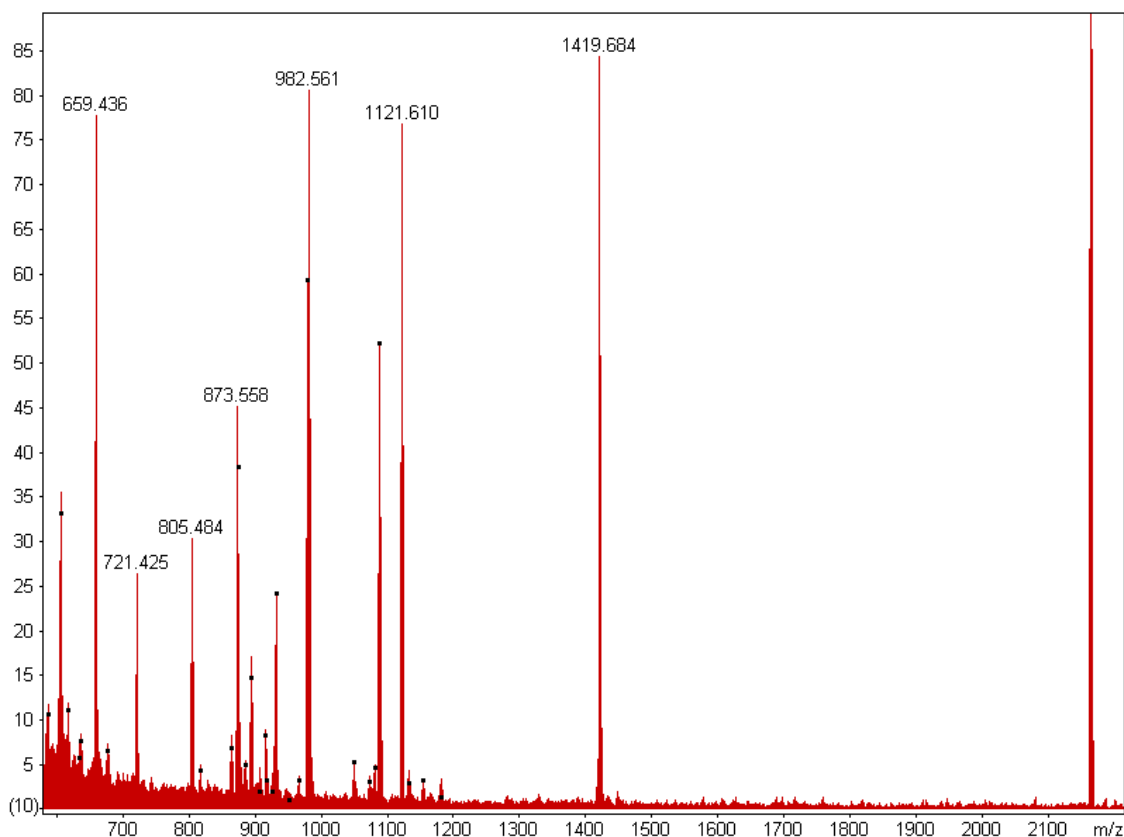
Matched peptides No.: **11**

Total peptides No.: **32**

Calculated Mr: **48352**

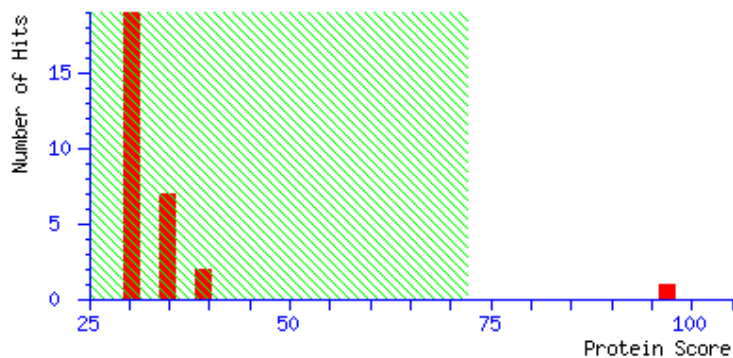
Calculated pI: **6.81**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSSTHQLTSS LISSSSSTFL APSNFRNRAR NGCLPMAKRV NTCKCVATPQ
 51 EKIEYKTNVS RNSNMSKLQA **GYLFPEIARR** RSAHLLKYPD AQIISLGIGD
 101 TTEPIPEVIT SAIAEK**AHEL** **STIEGYSGYG** **PEQGAKPLRA** AIAK**TFYSGL**
 151 **GIGDDDIFVS** **DGAKCDISRL** QVMFGSKVTI AVQDPSYPAY VDSSVIMGQT
 201 GQFNIDVQKY GNIEYMK**CTP** **ENGFFPDLST** **VGRTDIIFFC** **SPNNPTGAAA**
 251 **TREQLKQLVE** FAKKNGSIIV YDSAYAMYMS DDNPRSIFEI PGAEVAMET
 301 ASFSKY**AGFT** **GVRLGWTVIP** **KQLLYSDGFP** **VAKDFNRIIC** TCFNGASNLS
 351 QAGALACLTP EGLEAMHKVI GFYKENTNII IDTFTSLGYD VYGGKNAPYV
 401 WVHFPNQSSW DVFAEILEKT **HVVTPGSGF** **GPGGEGFVRV** **SAFGHRENIL**
 451 **EACRRFKQLY** K

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
68 - 79	1377.8489	1376.8416	1376.7452	70	0	K.LQAGYLFPEIAR.R
117 - 136	2094.1568	2093.1495	2092.9701	86	0	K.AHELSTIEGYSGYGPEQGAK.P
145 - 164	2077.0959	2076.0886	2075.9688	58	0	K.TFYSGLGIGDDDIFVSDGAK.C
218 - 233	1796.8889	1795.8816	1795.8200	34	0	K.CTPENGFFPDLSTVGR.T
234 - 252	2053.1050	2052.0977	2051.9735	61	0	R.TDIIFFCSPNNPTGAAATR.E
306 - 313	870.4710	869.4637	869.4396	28	0	K.YAGFTGVR.L
322 - 333	1337.7687	1336.7614	1336.7027	44	0	K.QLLYSDGFPVAK.D
420 - 439	1959.0586	1958.0513	1957.9647	44	0	K.THVVTPGSGFGPGGEGFVR.V
440 - 446	773.4222	772.4149	772.3980	22	0	R.VSAFGHR.E
447 - 454	1004.5606	1003.5533	1003.4756	77	0	R.ENILEACR.R
447 - 455	1160.6340	1159.6267	1159.5768	43	1	R.ENILEACRR.F

Spot No.: **135**

Mascot score: **104** Sequence coverage %: **34**

NCBI accession No.: **gi| 4139264**

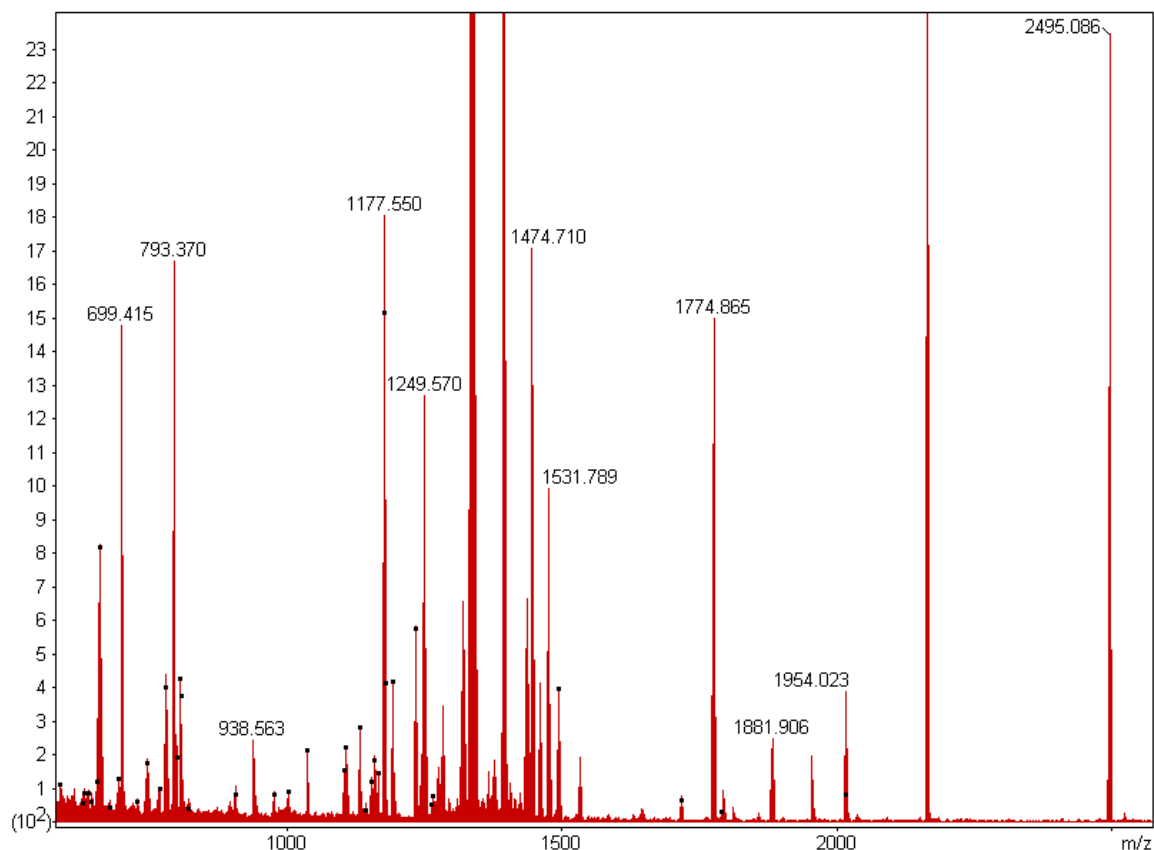
Matched peptides No.: **12**

Total peptides No.: **42**

Calculated Mr: **41888**

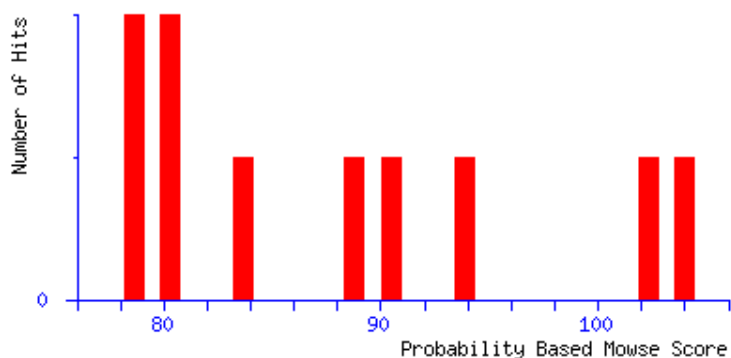
Calculated pI: **5.29**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MADGEDIQPL VCDNGTGMVK **AGFAGDDAPR** AVFPSIVGRP **RHTGVMVGMG**
51 **QKDAYVGDEA** **QSKR**GILTLK YPIEHGIVSN WDDMENIWHH TFYNELRVAP
101 **EEHPVLLTEA** **PLNPK**ANREK MTHIMFETFN VPAMYVAIQV VLSLYASGRT
151 TGIVLDSGDG VSHTVPIYEG YALPHAILRL DLAGR**DLTDS** **LMKILTERGY**
201 **MFTTTAEREI** VRDIKEKLAY VALDYEQELE TAKSSSSVEK **NYELPDGQVI**
251 **TIGAER**FRCP EVLFQPSLVG MEAPGIHETT YNSIMK**CDVD** **IRKDLYGNIV**
301 LSGGSTMFPG IADR**MSKEIT** **ALAPSSMKIK** **VVAPPERKYS** VWIGGSILAS
351 LSTFQQMWIS **KGEYDESGPS** **IVHRKCF**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
21 - 30	976.4043	975.3970	975.4410	-45	0	K.AGFAGDDAPR.A
42 - 52	1176.5546	1175.5473	1175.5427	4	0	R.HTGVMVGMGQK.D 2 Oxidation (M)
53 - 64	1338.6523	1337.6450	1337.6211	18	1	K.DAYVGDEAQSKR.G
98 - 115	1954.0234	1953.0161	1953.0571	-21	0	R.VAPEEHPVLLTEAPLNPK.A
186 - 193	938.5626	937.5554	937.4426	120	0	R.DLTDSLTK.I Oxidation (M)
194 - 198	631.2904	630.2831	630.3701	-138	0	K.ILTER.G
199 - 208	1192.4877	1191.4804	1191.5230	-36	0	R.GYMFTTAER.E Oxidation (M)
241 - 256	1774.8647	1773.8574	1773.8897	-18	0	K.NYELPDGQVITIGAER.F
287 - 293	905.4110	904.4037	904.4436	-44	1	K.CDVDIRK.D
315 - 328	1493.7152	1492.7079	1492.7629	-37	1	R.MSKEITALAPSSMK.I
331 - 337	767.3690	766.3617	766.4337	-94	0	K.VVAPPER.K
362 - 374	1445.6520	1444.6447	1444.6583	-9	0	K.GEYDESGPSIVHR.K

Spot No.: **136**

Mascot score: **95** Sequence coverage %: **27**

NCBI accession No.: **gi| 145327759**

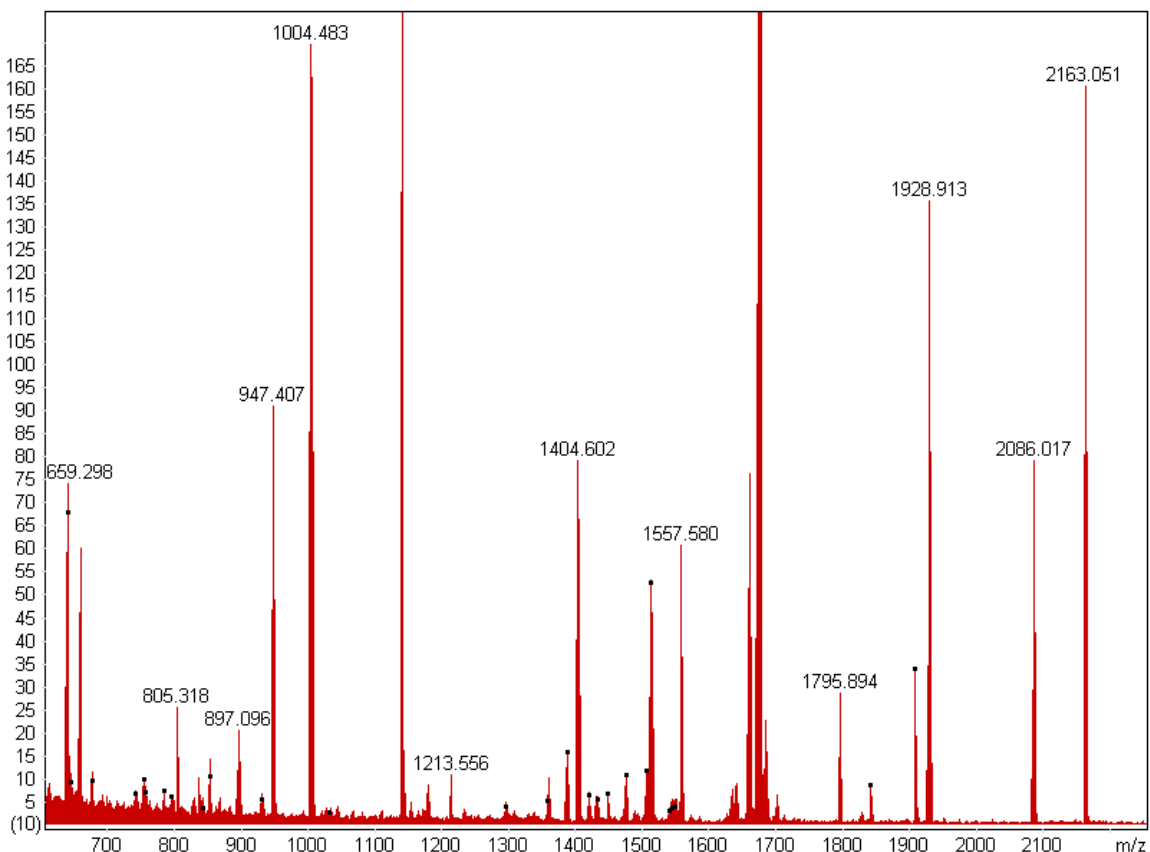
Matched peptides No.: **13**

Total peptides No.: **47**

Calculated Mr: **41079**

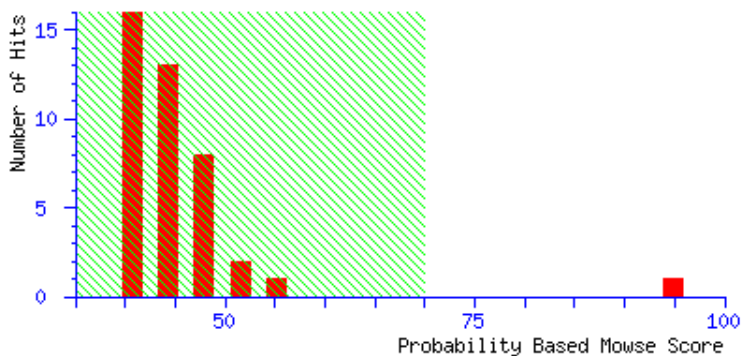
Calculated pI: **5.44**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVHDYATTTN GTSKRCSALP TTINTVDVSSV SDLFEFICSG PLVNK**IGITP**
51 QRVGQSIDKW LLYGSQLCRL **FQLNELKLT**I **PQK**ARLYHYY IPVFIWCEDQ
101 IALHNSKFKD GDDVPPLVIG FSAPQCGGKT TLVFALDYLF KTTKKKSATI
151 SVDDFYLTAE GQAE LRKKNP GNALLEYRGN AGSHDLKLSV ETLEALSFLT
201 KEGLMKVPR YNK**SAYSGR**G DRADSSTWPE VEGPLSVILF EGWMLGFKPL
251 PADVVKAVDP QLEVVN**KNLE** **AYYDAWDK**YI DAWVVI**KIQD** **PSYVYR**WRLQ
301 AEIAMRQDGQ AGMSDEEVND FVSR**YLPAYK** **AYLPTLYAEG** **PSGSDPDR**VL
351 AIDIDEERNP ILAN

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
1 - 14	1541.6594	1540.6521	1540.6828	-20	0	-.MVHDYATTTNGTSK.R	Oxidation (M)
2 - 15	1550.5195	1549.5122	1549.7485	-152	1	M.VHDYATTTNGTSK.R	
46 - 52	784.3154	783.3081	783.4603	-194	0	K.IGITPQR.V	
70 - 77	1004.4830	1003.4757	1003.5702	-94	0	R.LFQLNELK.L	
70 - 83	1684.8484	1683.8411	1683.9923	-90	1	R.LFQLNELKLTPQK.A	
206 - 210	646.2557	645.2484	645.3632	-178	1	K.MKVPR.Y	Oxidation (M)
214 - 219	640.2194	639.2121	639.2976	-134	0	K.SAYSGR.G	
268 - 278	1387.5521	1386.5448	1386.6092	-46	0	K.NLEAYYDAWDK.Y	
288 - 296	1140.5280	1139.5207	1139.5611	-35	0	K.IQDPSYVYR.W	
299 - 306	931.4116	930.4044	930.4957	-98	0	R.LQAEIAMR.Q	
299 - 306	947.4067	946.3994	946.4906	-96	0	R.LQAEIAMR.Q	Oxidation (M)
325 - 330	754.3030	753.2957	753.4061	-147	0	R.YLPAYK.A	
331 - 348	1908.8467	1907.8394	1907.8901	-27	0	K.AYLPTLYAEGPSGSDPDR.V	

Spot No.: **137**

Mascot score: **163** Sequence coverage %: **37**

NCBI accession No.: **gi| 27752799**

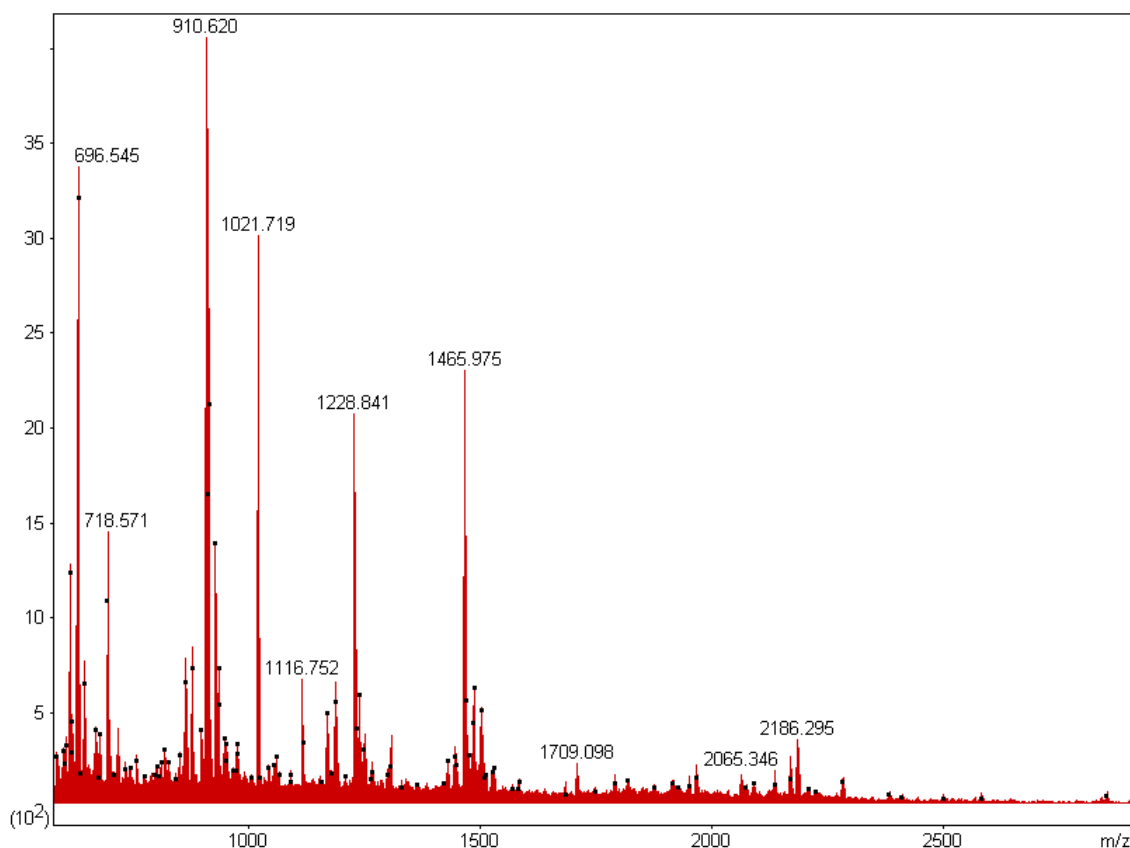
Matched peptides No.: **23**

Total peptides No.: **100**

Calculated Mr: **47920**

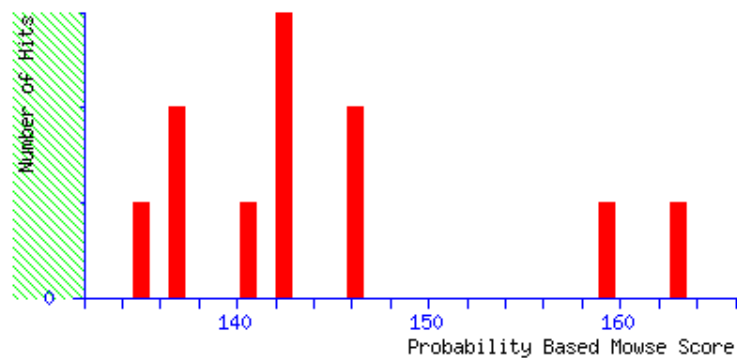
Calculated pI: **6.12**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 KLTYYTPEYE **TKD**T**DILAA**F**** RVTPQPGVPP EEAGAAVAEE SSTGTWTTVM
51 TDGLTSLDRY KGRCYHIEPV PGEETQFIAY VAYPLDLFEE GSVTNMFTSI
101 VGNVFGFKAL **AAL**R**LEDL**R**** PPAYTK**T**F**Q**G**** **PP**H**GI**Q**VER**D**** **KL**N**K**Y**GR**P**LL**
151 GCTIKPKLGL SAKNYGRA**V**Y **E**C**L**R**G**G**L**D**F**T**** **K**D**D**E**N**V**N**S**Q**P**** **F**M**R**W**R**D**R**F**L**F****
201 CAEAIYKSQA ETGEIK**G**H**Y**L**** **N**A**T**A**G**T**C**E**E**M**** **I**K**R**A**V**F**A**R**E**L**** **G**V**P**I**V**M**H**D**Y**L****
251 TGGFTANTSL SHYCR**D**N**G**L**L** **L**H**I**H**R**A**M**H**A**V**** **I**D**R**Q**K**N**H**G**M**H**** **F**R**V**L**A**K**A**L**R**L****
301 **S**G**G**D**H**I**H**A**G**T**** **V**V**G**K**L**E**G**D**R**E**** **S**T**L**G**F**V**D**L**L**R**** **D**D**Y**V**E**K**D**R**S**R**** **G**I**F**F**T**Q**D**W**V**S****
351 LPGVLPV**A**S**G** **G**I**H**V**W**H**M**P**A**L**** **T**E**I**F**G**D**D**S**V**L**** **Q**F**G**G**G**T**L**G**H**P**** **W**G**N**A**P**G**A**V**A**N****
401 **R**V**A**L**E**A**C**V**Q**A**** **R**N**E**G**R**D**L**A**V**E**** **G**N**E**I**I**R**E**A**C**K****

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
13 - 21	1021.7192	1020.7119	1020.5240	184	0	K.DTDILAAFR.V
109 - 114	614.5770	613.5697	613.3911	291	0	K.ALAALR.L
109 - 119	1240.9074	1239.9001	1239.7299	137	1	K.ALAALRLEDLR.I
115 - 119	645.5211	644.5138	644.3493	255	0	R.LEDLR.I
127 - 139	1465.9745	1464.9672	1464.7474	150	0	K.TFQGGPPHGIQVER.D
127 - 141	1709.0982	1708.0909	1707.8693	130	1	K.TFQGGPPHGIQVERD.K.L
168 - 174	910.6204	909.6132	909.4378	193	0	R.AVYECLR.G
175 - 193	2170.2591	2169.2518	2168.9797	125	1	R.GGLDFTKDDENVNSQP FMR.W
175 - 193	2186.2950	2185.2877	2184.9746	143	1	R.GGLDFTKDDENVNSQP FMR.W Oxidation (M)
194 - 197	632.4821	631.4748	631.3190	247	1	R.WRDR.F
217 - 233	1951.1448	1950.1375	1949.9087	117	1	K.GHYLNATAGTCEMIKR.A
217 - 233	1967.1767	1966.1694	1965.9037	135	1	K.GHYLNATAGTCEMIKR.A Oxidation (M)
266 - 275	1187.8352	1186.8279	1186.6571	144	0	R.DNGLLLHHR.A
276 - 283	912.6357	911.6284	911.4647	180	0	R.AMHAVIDR.Q
276 - 283	928.6206	927.6134	927.4596	166	0	R.AMHAVIDR.Q Oxidation (M)
284 - 292	1170.7794	1169.7721	1169.5512	189	1	R.QKNHGMHFR.V Oxidation (M)
286 - 292	898.5647	897.5575	897.4028	172	0	K.NHGMHFR.V
286 - 292	914.5761	913.5688	913.3977	187	0	K.NHGMHFR.V Oxidation (M)
300 - 314	1447.9248	1446.9175	1446.7579	110	0	R.LSGGDHINAGTVVGK.L
315 - 330	1820.1763	1819.1690	1818.9476	122	1	K.LEGDRESTLGFVDLLR.D
320 - 330	1249.8243	1248.8170	1248.6714	117	0	R.ESTLGFVDLLR.D
402 - 411	1116.7520	1115.7447	1115.5757	152	0	R.VALEACVQAR.N
416 - 426	1228.8415	1227.8342	1227.6459	153	0	R.DLAVEGNEIIR.E

Spot No.: **138**

Mascot score: **140** Sequence coverage %: **38**

NCBI accession No.: **gi| 15222551**

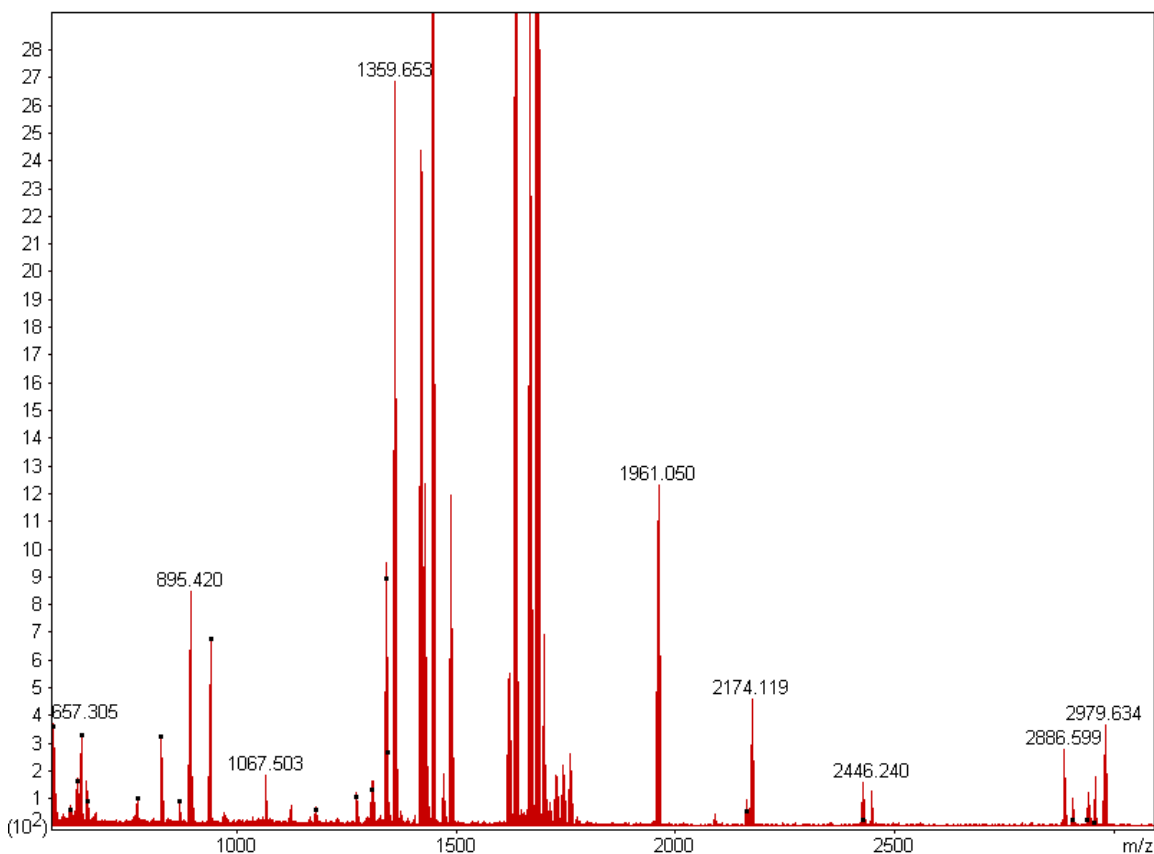
Matched peptides No.: **17**

Total peptides No.: **31**

Calculated Mr: **44721**

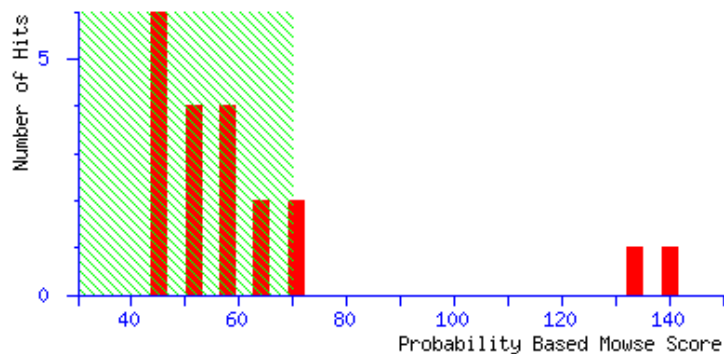
Calculated pI: **5.71**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAVSTIYSTQ ALNSTHFLTS SSSSKQVFLY RRQPQTNRFF NTLITCAQET
51 IVIGLAADSG CGK**STFMRRL** TSVFGGAAKP PKGGN**PDSNT LISDTT****TVIC**
101 **LDDYHSLDRY** GRKEQKV**TAL DPRAN****DFDLM YEQVK**ALKN**G IAVEK**PIY**NH**
151 VTGLLD**PPEL IQPPK****ILVIE GLH**PM**FDERV** RDLLDFSIYL DISNEVK**FAW**
201 KIQR**DMAERG HSLES****IKASI EARKP****DFDAF IDPQK**QYADA VIEVL**P**TTLI
251 PDDNEGK**VLRLIM**KEGVK YFSPVYLFDE GSTISWIPCG RKL**TCS**YPGI
301 **KFNYEPDSYF DHEVSV****LEMD GQFDR****LDELI YVESHL****SNLS TKFYGE****VTQQ**
351 **MLK**HAD**FPGS NNGT**GLFQTI VGL**KIRDL****YE QL**IANKATAR AEAKA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
64 - 68	657.3046	656.2973	656.2952	3	0	K.STFMR.R Oxidation (M)
83 - 109	2979.6342	2978.6269	2978.3564	91	0	K.GGNPDSNTLISDTT TVICLDDYHSLDR.Y
124 - 135	1472.6747	1471.6674	1471.6653	1	0	R.A NDFDL MYEQVK.A
124 - 135	1488.6843	1487.6770	1487.6602	11	0	R.A NDFDL MYEQVK.A Oxidation (M)
166 - 179	1668.8171	1667.8098	1667.8705	-36	0	K.I LVIEGLH PMFDER.V
166 - 179	1684.8915	1683.8842	1683.8654	11	0	K.I LVIEGLH PMFDER.V Oxidation (M)
205 - 209	621.3171	620.3098	620.2588	82	0	R.D MAER.G
205 - 209	637.2711	636.2638	636.2537	16	0	R.D MAER.G Oxidation (M)
210 - 217	870.4720	869.4648	869.4607	5	0	R.G HSLESIK.A
218 - 223	646.3613	645.3540	645.3446	15	0	K.A SIEAR.K
224 - 235	1420.6985	1419.6912	1419.7034	-9	0	R.K PDFDAFIDPQK.Q
302 - 325	2939.5152	2938.5079	2938.2392	91	0	K.F NYEPDSYFDHEVSVLEMDGQFDR.L
302 - 325	2955.5042	2954.4969	2954.2341	89	0	K.F NYEPDSYFDHEVSVLEMDGQFDR.L Oxidation (M)
326 - 342	1961.0503	1960.0430	1960.0153	14	0	R.L DELIYVESHL SNLSTK.F
343 - 353	1343.6355	1342.6282	1342.6591	-23	0	K.F YGEVTQQMLK.H
343 - 353	1359.6527	1358.6454	1358.6540	-6	0	K.F YGEVTQQMLK.H Oxidation (M)
375 - 386	1475.7386	1474.7313	1474.8143	-56	1	K.I RDLYEQLIANK.A

Spot No.: **139**

Mascot score: **93** Sequence coverage %: **48**

NCBI accession No.: **gi| 13926291**

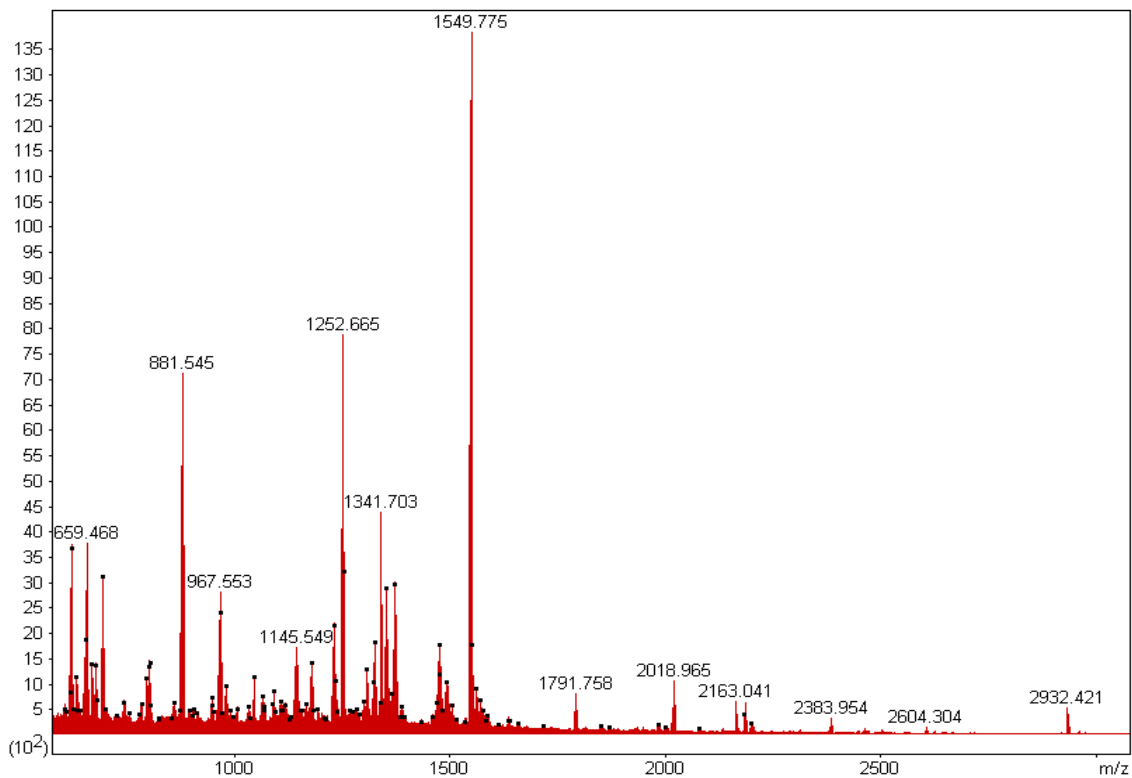
Matched peptides No.: **15**

Total peptides No.: **122**

Calculated Mr: **35335**

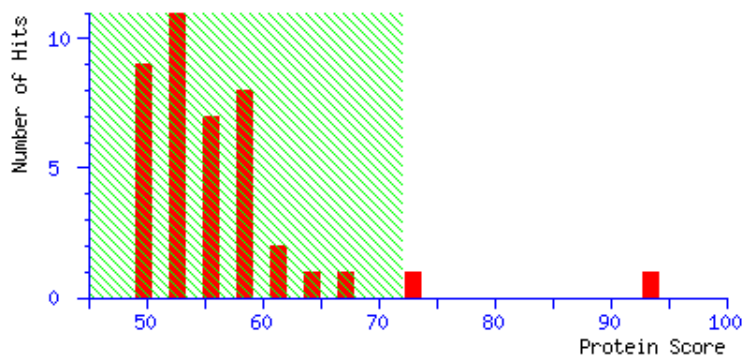
Calculated pI: **5.55**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAASLQSTAT FLQSAKIATA **PSRGSSHLRS** TQAVGKSFGL ETSSARLTCS
 51 **FQSDFK**DFTG KCSDAVKIAG FALATSALVV SGASAEGAPK **RLTYDEIQSK**
 101 **TYMEVK**GTGT ANQCPTIDGG SETFSFKPGK YAGKKKCFEP TSFTVKADSV
 151 **SKNAPPEFQN** TKLMTRLTYT LDEIEGPFV ASDGSVNFKE **EDGIDYAAVT**
 201 **VQLPGGERVP** **FLFTVKQLDA** **SGKPD**SFTGK **FLVPSYRGSS** **FLDPKGRGGS**
 251 **TGYDNAVALP** **AGGRGDEEEL** **VKENVKNSAA** **SVGEITLKVT** **KSKPETGEVI**
 301 **GVFESLQPSD** **TDLGAK**VPKD VKIQGVWYGQ LE

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
24 - 36	1327.6472	1326.6399	1326.7004	-46	1	R.GSSHLRSTQAVGK.S
47 - 56	1232.5979	1231.5906	1231.5543	29	0	R.LTCSFQSDFK.D
91 - 100	1252.6651	1251.6578	1251.6459	10	1	K.RLTYDEIQSK.T
92 - 100	1096.5341	1095.5268	1095.5448	-16	0	R.LTYDEIQSK.T
101 - 106	786.4901	785.4828	785.3629	153	0	K.TYMEVK.G Oxidation (M)
147 - 152	606.3794	605.3722	605.3020	116	0	K.ADSVSK.N
153 - 162	1145.5487	1144.5414	1144.5513	-9	0	K.NAPPEFQNTK.L
190 - 208	2018.9649	2017.9576	2017.9593	-1	0	K.EEDGIDYAAVTVQLPGER.V
209 - 216	950.5348	949.5275	949.5637	-38	0	R.VFFLFTVK.Q
224 - 237	1613.7542	1612.7469	1612.8250	-48	1	K.PDSFTGKFLVPSYR.G
231 - 237	881.5445	880.5373	880.4807	64	0	K.FLVPSYR.G
248 - 264	1562.7964	1561.7891	1561.7485	26	0	R.GGSTGYDNAVALPAGGR.G
265 - 276	1388.6855	1387.6782	1387.6831	-3	1	R.GDEEELVKENK.N
273 - 288	1659.7999	1658.7926	1658.8839	-55	1	K.ENVKNSAASVGEITLK.V
292 - 316	2604.3037	2603.2964	2603.2966	-0	1	K.SKPETGEVIGVFESLQPSDSDLGAK.V

Spot No.: **140**

Mascot score: **103** Sequence coverage %: **20**

NCBI accession No.: **gi| 154017627**

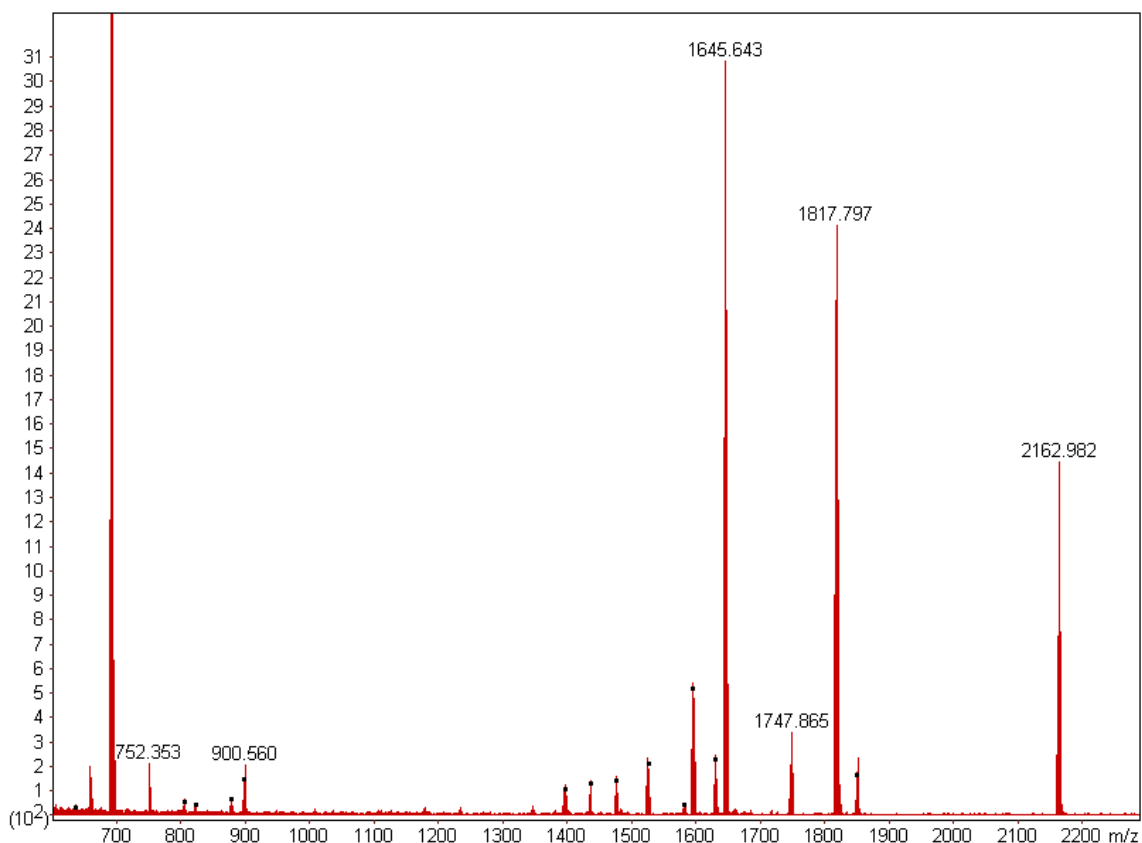
Matched peptides No.: **8**

Total peptides No.: **23**

Calculated Mr: **47865**

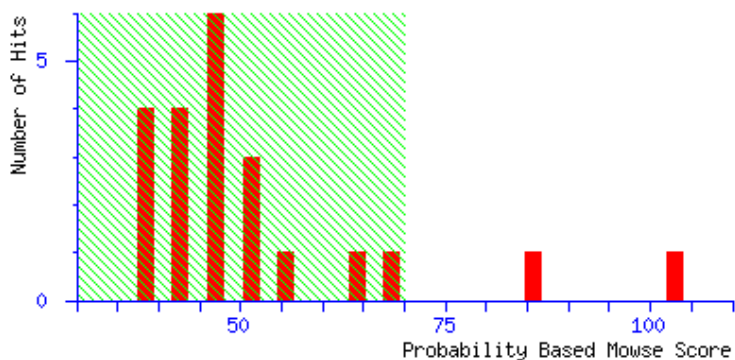
Calculated pI: **6.04**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAQILAPSMQ CQMKLSKGLT SSMTSPWTS ILLKQGQKGS IKCSTKFRVC
51 ASLQSDHGTV NRVEQLLNLD VTPYTDKIIA EYIWIGGTGI DLRSKSRTL
101 KPVEHPSELP KWNVDGSSTG QAPGQDSEVI LYPQAIKDP FRGGNNILVI
151 CDAYTPAGEP IPTNKRHKA EIFNMQKVAS EVPWFGIEQE YTLQPNVSW
201 PLGWVPGAYP GPQGPYYCGV GADKSFGRDV SDAHAKACLY AGINISGTNG
251 EVMPGQWEFQ VGPSVGIEAG DHVWCARYLL ERITEQIGVV MTLDPKPIEG
301 DWNGAGCHTN YSTKTMREEG GFEVIKKAIL NLSLRHKDHI SAYGEGNERR
351 LTGKHETADI NTFSWGVANR GCSIRVGRDT EKEGKGYLED RRPASNMDPY
401 VVTGLLAETT ILWEPTLEAE ALAAQKLSLN V

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
2 - 17	1849.7922	1848.7849	1848.9260	-76	1 M.AQILAPSMQCQMKLSK.G Oxidation (M)
15 - 34	2162.9815	2161.9742	2162.1657	-89	1 K.LSKGLTSSMTSPWTSILLK.Q Oxidation (M)
63 - 77	1747.8653	1746.8580	1746.9040	-26	0 R.VEQLLNLDVTPYTDK.I
278 - 282	693.3967	692.3894	692.3857	5	0 R.YLLER.I
328 - 335	899.5485	898.5412	898.5600	-21	0 K.AILNLSLR.H
355 - 370	1817.7971	1816.7898	1816.8493	-33	0 K.HETADINTFSWGVANR.G
371 - 375	592.3017	591.2944	591.2799	25	0 R.GCSIR.V
386 - 391	752.3533	751.3460	751.3501	-5	0 K.GYLED.R

Spot No.: **141**

Mascot score: **114** Sequence coverage %: **28**

NCBI accession No.: **gi| 15233888**

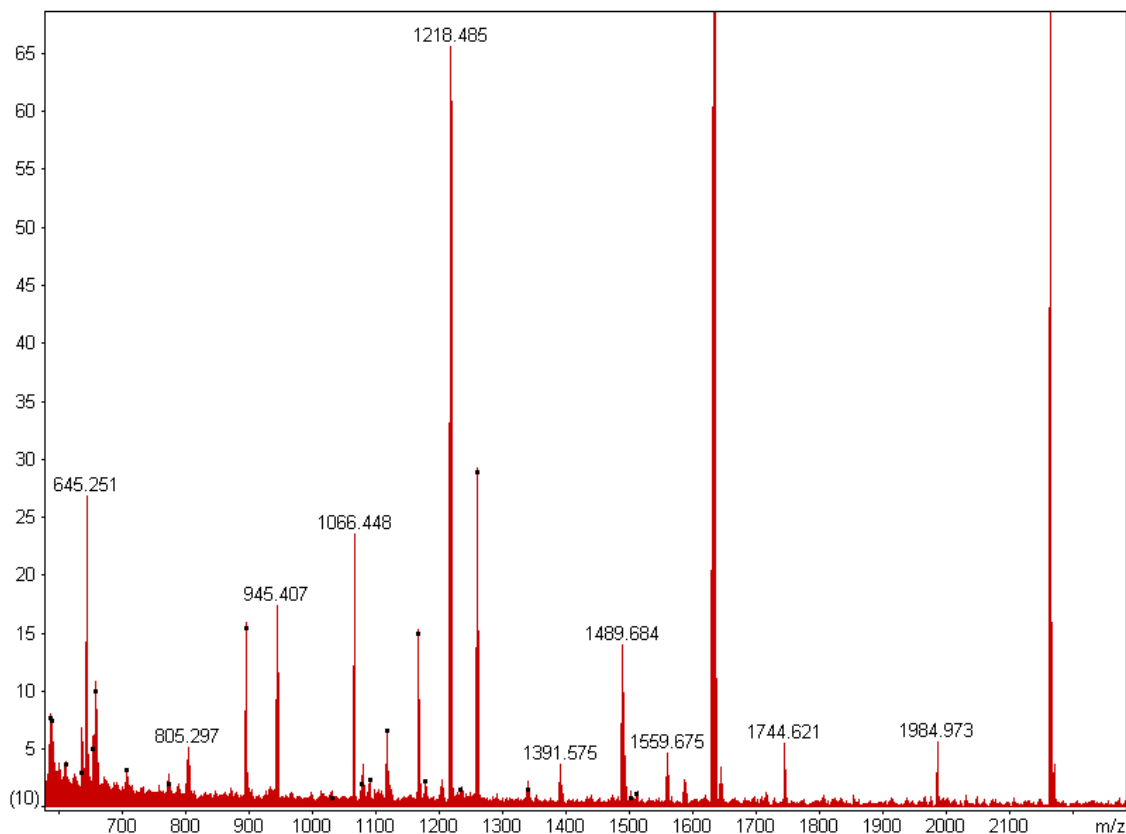
Matched peptides No.: **13**

Total peptides No.: **27**

Calculated Mr: **46526**

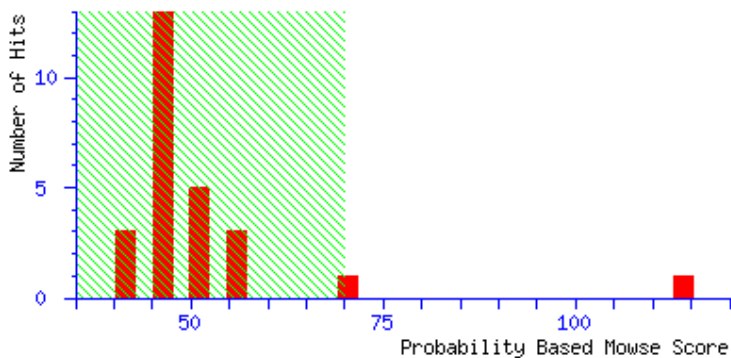
Calculated pI: **6.08**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MASLLGTSSS AIWASPSLSS PSSKPPSSSPI CFRPGKLFGS KLNAGIQIRP
51  KKNRSRYHVS VMNVATEINS TEQVVGKFDS KKSARPVYYPF AAIVGQDEMK
101 LCLLLNVIDP KIGGVMIMGD RGTGKSTTVR SLVDLLPEIN VVAGDPYNSD
151 PIDPEFMGVE VRERVEKGEQ VPVIATKIMM VDLPLGATED RVCGTIDIEK
201 ALTEGVKAFF PGLLAKANRG ILYVDEVNLL DDHLVDVLLD SAASGWNNTVE
251 REGISISHPA RFILIGSGNP EEGELRPQLL DRFGMHAQVG TVRDADLRVK
301 IVEERARFDS NPKDFRDYK TEQDKLQDQI STARANLSSV QIDRELKVKI
351 SRVCSSELNVD GLRGDIVTNR AAKALAALKG KDRVTPDDVA TVIPNCLRHR
401 LRKDPLESID SGVLVSEKFA EIFS

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
112 - 125	1391.5753	1390.5680	1390.7061	-99	1	K.IGGVMIMGDRGTGK.S
178 - 191	1559.6747	1558.6674	1558.7661	-63	0	K.INMVDLPLGATEDR.V Oxidation (M)
208 - 216	945.4066	944.3994	944.5331	-142	0	K.AFEPGLLAK.A
252 - 261	1066.4485	1065.4412	1065.5567	-108	0	R.EGISISHPAR.F
283 - 293	1218.4854	1217.4781	1217.5975	-98	0	R.FGMHAQVGTVR.D Oxidation (M)
294 - 298	589.1955	588.1882	588.2867	-167	0	R.DADLR.V
301 - 305	645.2508	644.2435	644.3493	-164	0	K.IVEER.A
308 - 313	707.2008	706.1936	706.3286	-191	0	R.FDSNPK.D
321 - 334	1632.7068	1631.6995	1631.8115	-69	1	K.TEQDKLQDQISTAR.A
326 - 334	1031.4367	1030.4294	1030.5407	-108	0	K.LQDQISTAR.A
353 - 363	1261.5227	1260.5154	1260.6132	-78	0	R.VCSSELNVDGLR.G
364 - 370	774.2940	773.2867	773.4032	-151	0	R.GDIVTNR.A
404 - 418	1587.7119	1586.7046	1586.8039	-63	0	K.DPLESIDSGVLVSEK.F

Spot No.: **142**

Mascot score: **101** Sequence coverage %: **34**

NCBI accession No.: **gi| 297841979**

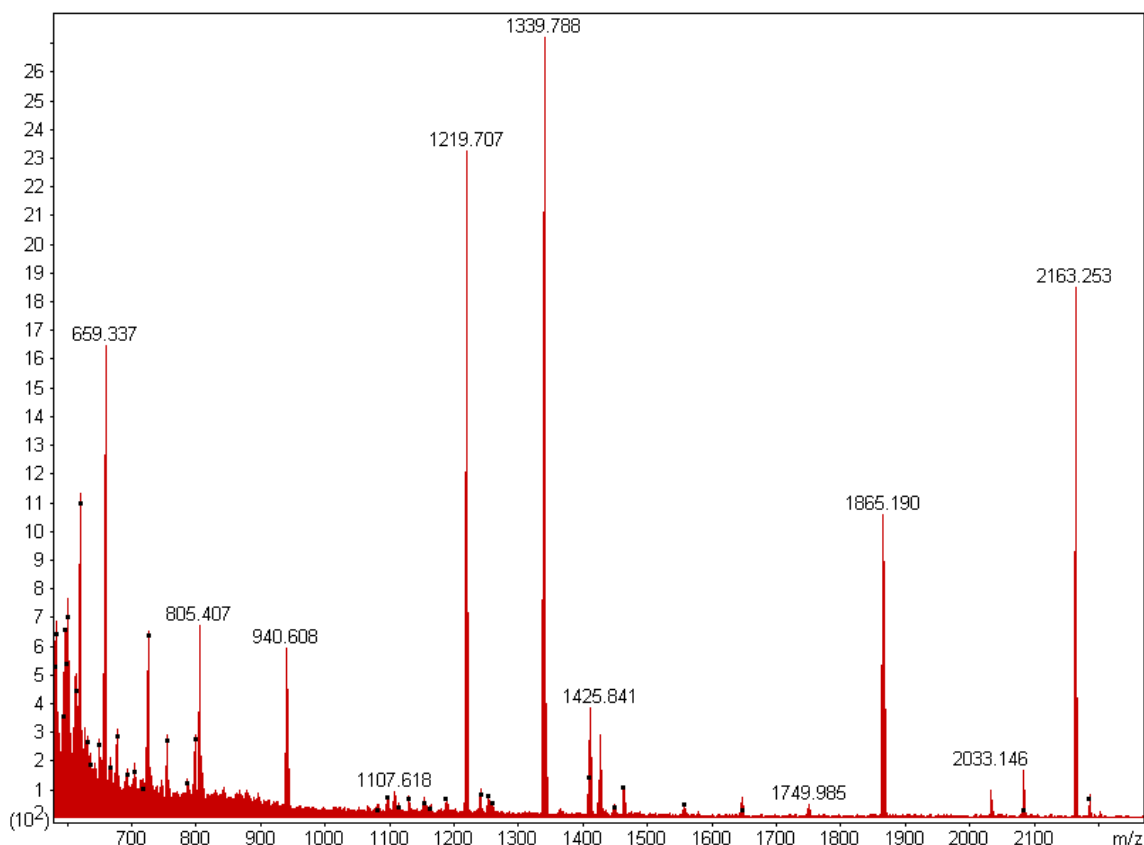
Matched peptides No.: **12**

Total peptides No.: **28**

Calculated Mr: **32482**

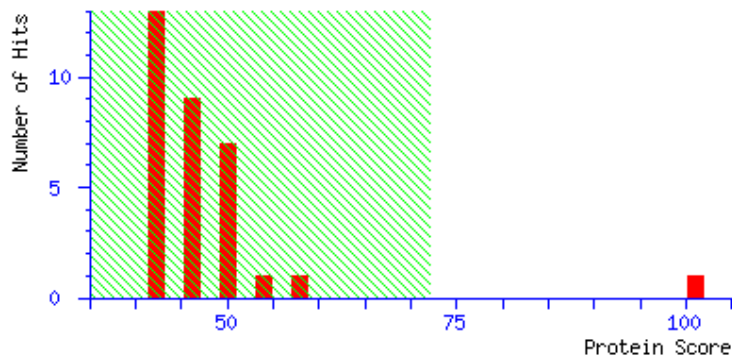
Calculated pI: **5.03**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

  1 MATNGSASSA QLSQKEADV R MMCAAEEVHLG TKNCNYQMER YVFKRRNDGI
 51 YIFNLGKTWD KLQMAARVIV AIENPQDIIV QSARPYGQRA VLKFAQYTGA
101 NAIAGRHTPG TFTNQMQTSF SEPRLILTD PRTDHPPIKE GALGNIPIIA
151 FCDTDSMPRF VDIGIPANNK GKHSIGCLFW LLARMVLQMR GTIGAAQKWD
201 VMVDLFFYRE PEETKPEDED EAAPQAEYGL PAPEYGMVGG DQWTTAQIPD
251 AAWPGEAQAP ISAAPAAGSW SDSAAAPADG GWDTAVPPPG APAAGWE

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
33 - 40	1114.5496	1113.5423	1113.4331	98	0	K.NCNYQMER.Y
33 - 40	1130.5271	1129.5198	1129.4281	81	0	K.NCNYQMER.Y Oxidation (M)
46 - 57	1409.8755	1408.8682	1408.7463	87	1	R.RNDGIYIFNLGK.T
47 - 57	1253.7313	1252.7240	1252.6452	63	0	R.RNDGIYIFNLGK.T
58 - 67	1219.7069	1218.6996	1218.6179	67	1	K.TWDLQMAAR.V
62 - 67	705.3059	704.2987	704.3639	-93	0	K.LQMAAR.V Oxidation (M)
68 - 84	1865.1899	1864.1826	1864.0418	76	0	R.VIVAIENPQDIIVQSAR.P
85 - 89	620.2695	619.2622	619.3078	-74	0	R.PYGQR.A
94 - 106	1339.7878	1338.7805	1338.6680	84	0	K.FAQYTGANAIAGR.H
107 - 124	2082.0874	2081.0801	2080.9273	73	0	R.HTPGTFTNQMQTSFSEPR.L Oxidation (M)
125 - 132	940.6075	939.6003	939.5753	27	0	R.LLILTDPR.T
160 - 170	1187.6857	1186.6784	1186.6346	37	0	R.FVDIGIPANNK.G

Spot No.: **143**

Mascot score: **191** Sequence coverage %: **37**

NCBI accession No.: **gi| 15228149**

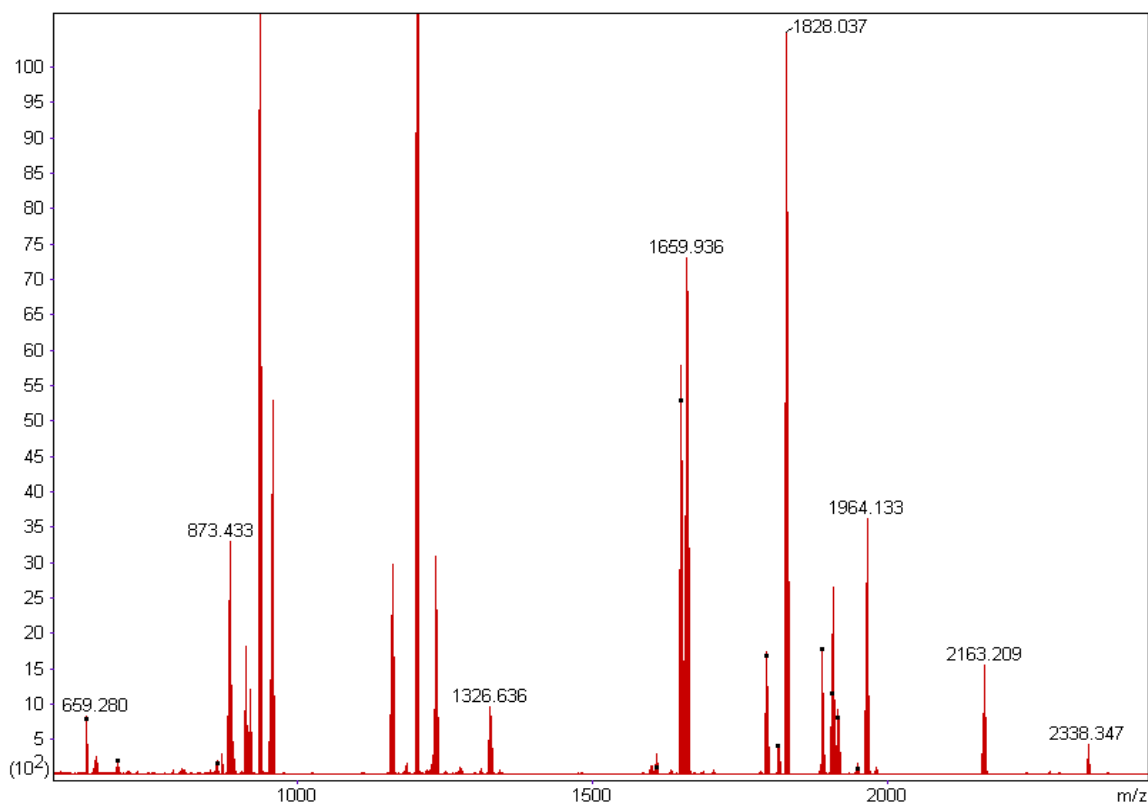
Matched peptides No.: **16**

Total peptides No.: **23**

Calculated Mr: **42787**

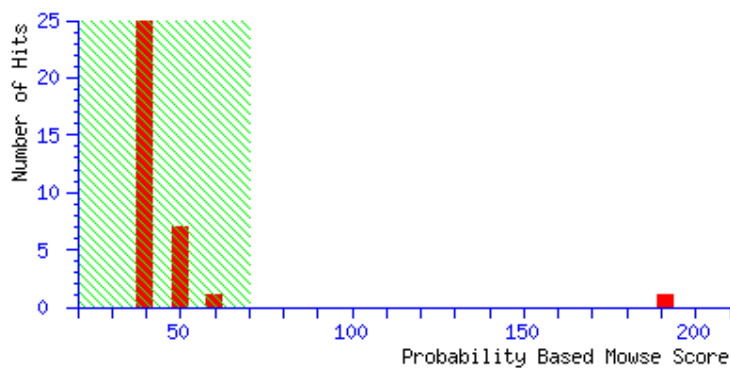
Calculated pI: **6.17**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  METSIACYSR GILPPSVSSQ RSSTLVSPPS YSTSSSFKRL KSSSIFGDSL
51  RLAPKSQLKA TKAKSNGAST VTKCEIGQSL EEFLAQATPD KGLRTLLMCM
101 GEALRTIAFK VRTASCGGTA CVNSFGDEQL AVDMLADKLL FEALQYSHVC
151 KYACSEEVPE LQDMGGPVEG GFSVAFDPLD GSSIVDTNFT VGTIFGVWPG
201 DKLTGITGGD QVAAAMGIYG PRTTYVLAVK GFPGTHEFL LDEGKWQHVK
251 ETTEIAEGKM FSPGNLRATF DNSEYSKLID YYVKEKYTLR YTGGMVPDVN
301 QIIVKEKGIF TNVTSPTAKA KLRLLEFEVAP LGLLIENAGG FSSDGHKSVL
351 DKTIINLDDR TQVAYGSKNE IIRFEETLYG TSRLKNVPIG VTA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
95 - 105	1326.6365	1325.6292	1325.6142	11	0	R.TLLMCMGEALR.T 2 Oxidation (M)
139 - 151	1607.8453	1606.8380	1606.8177	13	0	K.LLFEALQYSHVCK.Y
203 - 222	1948.1061	1947.0988	1946.9884	57	0	K.LTGITGGDQVAAAMGIYGPR.T
203 - 222	1964.1334	1963.1261	1962.9833	73	0	K.LTGITGGDQVAAAMGIYGPR.T Oxidation (M)
223 - 230	894.4541	893.4468	893.5222	-84	0	R.TTYVLAVK.G
231 - 245	1659.9355	1658.9282	1658.8304	59	0	K.GFPGTHEFLLLDEGK.W
231 - 250	2338.3466	2337.3393	2337.1906	64	1	K.GFPGTHEFLLLDEGKWQHVK.E
260 - 267	921.4341	920.4268	920.4538	-29	0	K.MFSPGNLR.A
260 - 267	937.4226	936.4153	936.4487	-36	0	K.MFSPGNLR.A Oxidation (M)
268 - 277	1161.5097	1160.5024	1160.4986	3	0	R.ATFDNSEYSK.L
278 - 284	913.4442	912.4369	912.4957	-64	0	K.LIDYYVK.E
291 - 305	1649.9063	1648.8990	1648.8495	30	0	R.YTGGMVPDVNQIIVK.E Oxidation (M)
308 - 319	1235.6544	1234.6471	1234.6558	-7	0	K.GIFTNVTSPTAK.A
353 - 360	959.5035	958.4962	958.5083	-13	0	K.TIINLDDR.T
369 - 383	1828.0366	1827.0293	1826.9162	62	1	K.NEIRFEETLYGTSR.L
374 - 383	1202.5993	1201.5920	1201.5615	25	0	R.FEETLYGTSR.L

Spot No.: **144**

Mascot score: **93** Sequence coverage %: **44**

NCBI accession No.: **gi| 21593565**

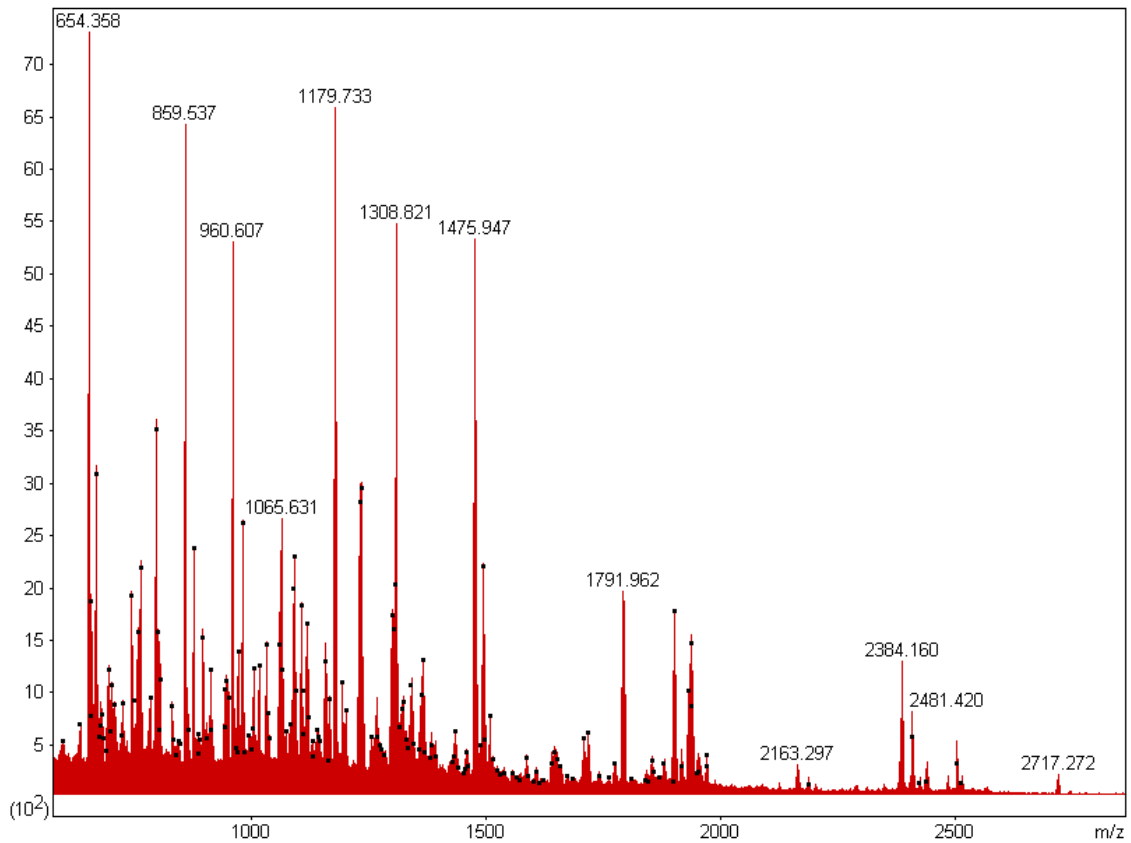
Matched peptides No.: **18**

Total peptides No.: **70**

Calculated Mr: **35982**

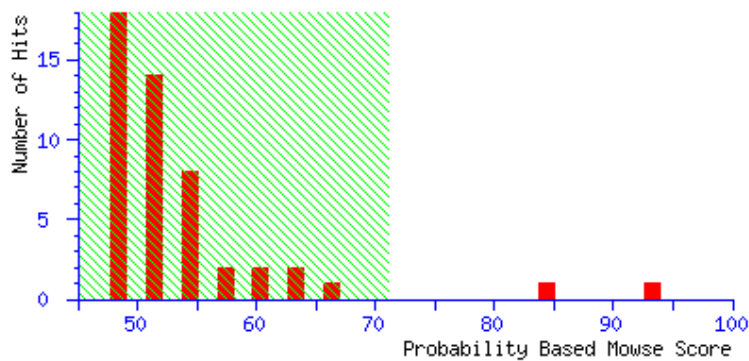
Calculated *pI*: **7.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAKKPVRVLV TGAAGQIGYA LVPMIARGIM LGADQPVLH MLDIPFAAEA
51 LNGVK**MELVD AAFPLLK**GVV ATTDAVEACT GVNVAVMVGG FPRK**EGMERK**
101 **DVMSKNVSIY KSQASALEKH AAPNCKVLV ANPANTNALI LKEFAPSIPE**
151 **KNITCLTRLD HNRALGQVSE RLSVPVSDVK** NVIIWGNHSS TQYPDVNHAT
201 **VKTSSGEKPV RELVKNDEWL NGEFISTVQQ** RGAAIIKARK **LSSALSAASS**
251 **ACDHIR**DWVW GTPEGTFVSM GVYSDGSYNV PAGLIYSFPV TCRNGEWTIV
301 QGLPIDDASR **KKMDLTAEEL** **KEEKDLAYSC** LS

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
56 - 67	1362.8580	1361.8507	1361.7265	91	0	K.MELVDAA FPLLK .G Oxidation (M)
95 - 100	749.4068	748.3996	748.3537	61	1	K.E GMERK .D
95 - 100	765.4020	764.3947	764.3487	60	1	K.E GMERK .D Oxidation (M)
101 - 111	1283.7182	1282.7109	1282.6591	40	1	K.D VMSKNVSIYK .S
106 - 111	723.4077	722.4004	722.3963	6	0	K.N VSIYK .S
106 - 119	1537.9035	1536.8962	1536.8147	53	1	K.N VSIYKSQASALEK .H
120 - 126	797.4227	796.4155	796.3650	63	0	K.H AAPNCK .V
127 - 142	1650.1574	1649.1501	1648.9876	99	0	K.VLVV ANPANTNALILK .E
143 - 151	1017.6117	1016.6044	1016.5178	85	0	K.E FAPSIPEK .N
152 - 158	877.5318	876.5245	876.4487	86	0	K.N ITCLTR .L
159 - 163	654.3581	653.3508	653.3245	40	0	R.L DHNR .A
164 - 171	859.5368	858.5296	858.4559	86	0	R.A LQVSE .L
172 - 180	943.5980	942.5908	942.5386	55	0	R.L SVPVSDVK .N
203 - 211	960.6072	959.6000	959.5036	100	0	K.T SSGEKPV .E
216 - 231	1936.1447	1935.1374	1934.9122	116	0	K.N DEWLNGEFISTVQQR .G
240 - 256	1774.0826	1773.0753	1772.8839	108	1	R.K LSSALSAASSACDHIR .D
241 - 256	1646.0110	1645.0037	1644.7889	131	0	K.L SSALSAASSACDHIR .D
313 - 321	1065.6312	1064.6239	1064.5060	111	0	K.M DLTAEELK .E Oxidation (M)

Spot No.: **145**

Mascot score: **81** Sequence coverage %: **27**

NCBI accession No.: **gi| 303275508**

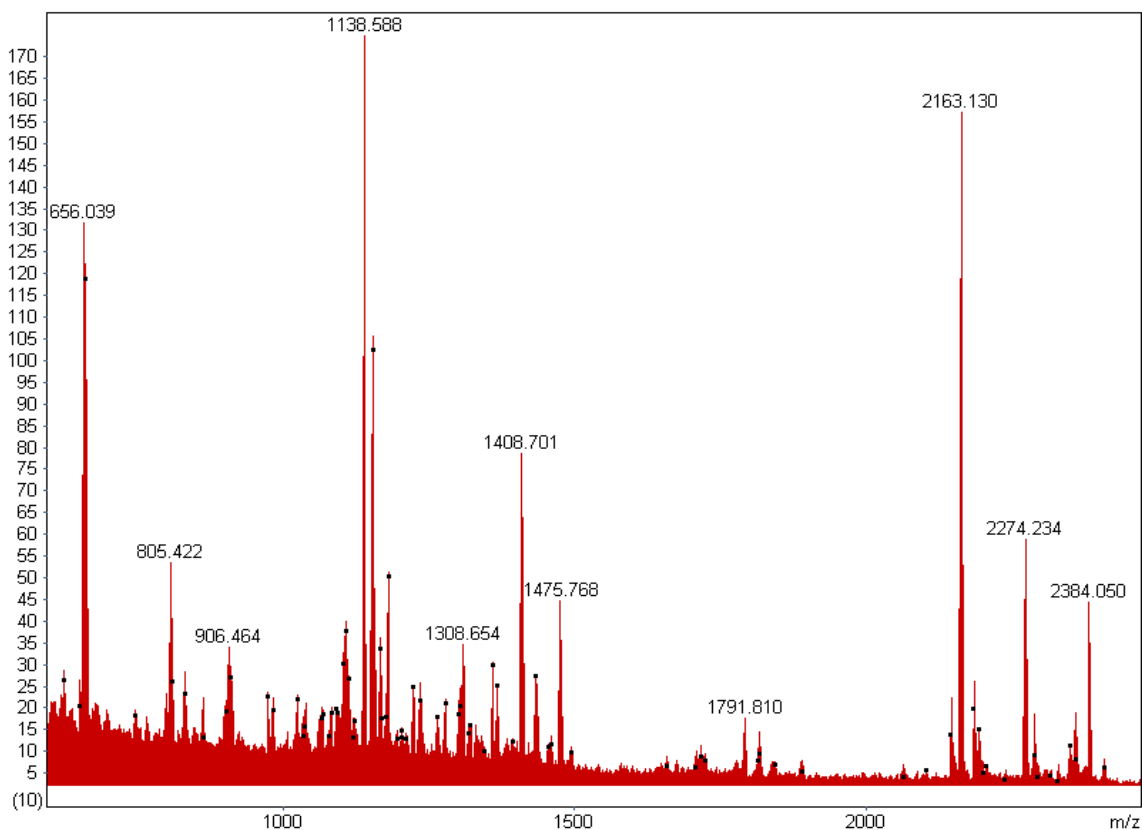
Matched peptides No.: **22**

Total peptides No.: **87**

Calculated Mr: **99906**

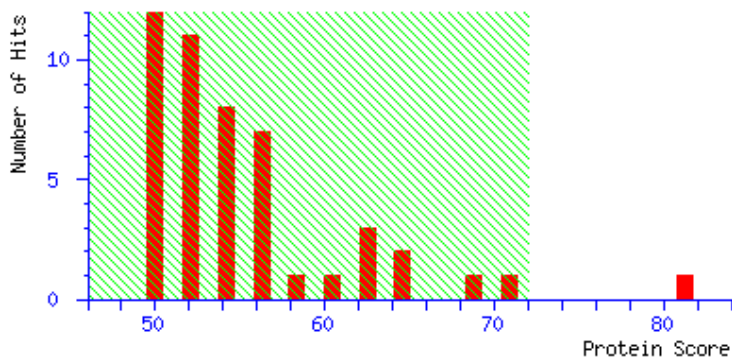
Calculated pI: **5.37**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MPSFDKQVSR** PAAKAGAPAP ARARSGGPDF FVIAHVHKQS DAEAFFEARF
 51 GLEPSSNDVR SPLRDGSNRA KPSTSERGGP **TSAAGKKIAD** LQTKLAHAMA
 101 AVQEGDAATE **QARIERERAA** **VAWADAMAAA** **DAARESAVAD** **AAVTRDGVQR**
 151 **ALEREVSELR** AALAAAETMN ARAKAAEAAT HAAGAKAAKA KNDKLAARVA
 201 LLTEARIGSS HRFYPYDPVRA VHAEAEDAER RASDASAASD ATRAELAETK
 251 RAMEKIASEM **ETLKKAGAVA** **NEMLADAKGE** **LERARETSRD** **GEKLAAEAAA**
 301 **EAAAAASASA** **TTIAELRAAL** ETTGGSRQRA MEELSRLRDD ATTAKEESER
 351 **AKKTAEEDF** **LRAATETELA** KTRRDLDDAN ARASATESEL AKTRRDLDDA
 401 NARASATESE **LAKTRRDLDD** **ANASASASAT** **TTRDEATREA** **RESAAREMEE**
 451 **TRATLTARHD** AALAALAATH AATTKELEAR LDAARADASE AAARAEAFEA
 501 EAAATTKELE ARLDAAKADA SEAAARAEAF EAEAAANAAA AVVVAPPPAAA
 551 PPPPSEELDA LKAAHAAEMA KINEANDEIV AWAR**QAAKEE** **AEEALGANAR**
 601 DALAKAARAE KALEDASLEH ASRVASLKQT FKEAMERKNE **ELKVALSAAR**
 651 SSGADDVARA EAKVASATTE ARAKIAAAER **AAREAKAATD** **AEEAKAAATE**
 701 KARDDAVECL NVAR**AECEAE** **VKAAELRAAN** VEYDLETLRN RLRQSENAGK
 751 RALLELSDEL ASAERRAMEK VMKSEEAACK ADATNAQLAR **ELWACRQKME**
 801 **TNEAELRRDL** ELSRKASDL **LREVNAARRR** EAMRGGGGGG DDASGAGRSA
 851 **ADADAVVAEM** **QRELEAEIAA** SEAAAAASAK REGASRRKLA DVNTKLTEAE
 901 HALHETKIAL MKSERRANDF ERDLEKETSK **SARLELACAK** GGVKLPK

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 10	1194.5838	1193.5765	1193.5863	-8	1	-.MPSFDKQVSR.P
1 - 10	1210.5630	1209.5557	1209.5812	-21	1	-.MPSFDKQVSR.P Oxidation (M)
78 - 86	745.3693	744.3620	744.3766	-20	0	R.GGPTSAAGK.K
117 - 134	1816.9436	1815.9363	1815.8686	37	1	R.ERAAVAWADAMAAAADAAR.E
119 - 145	2602.3197	2601.3124	2601.2605	20	1	R.AAVAWADAMAAAADAARESAVADA VTR.D
151 - 160	1201.5879	1200.5806	1200.6462	-55	1	R.ALEREVSELR.A
256 - 265	1165.5756	1164.5683	1164.6060	-32	1	K.IASEMETLKK.A Oxidation (M)
266 - 283	1844.8850	1843.8777	1843.9098	-17	1	K.AGAVANEMLADAKGELER.A
294 - 317	2201.0816	2200.0743	2200.1335	-27	0	K.LAAEAAEAAAAASASATTIAELR.A
353 - 362	1179.5992	1178.5919	1178.5931	-1	1	K.KTAEEDFLR.A
404 - 415	1263.6359	1262.6286	1262.6466	-14	1	R.ASATESELAKTR.R
417 - 438	2239.1649	2238.1576	2237.9996	71	1	R.DLDDANASASASATTTTRDEATR.E
442 - 452	1308.6535	1307.6462	1307.5775	53	1	R.ESAAREMEETR.A
585 - 600	1657.8264	1656.8191	1656.8067	8	1	R.QAAKEEAEALGANAR.D
639 - 650	1300.6004	1299.5931	1299.7146	-93	1	K.NEELKVALSAAR.S
684 - 695	1175.5387	1174.5314	1174.5829	-44	1	R.EAKAATDAAEAK.A
715 - 727	1475.7676	1474.7603	1474.7085	35	1	R.AECEAEVKAAELR.A
791 - 798	1090.5376	1089.5303	1089.5389	-8	1	R.ELWACRQK.M
799 - 807	1092.5169	1091.5096	1091.4917	16	0	K.METNEAELR.R
823 - 828	659.3862	658.3789	658.3398	59	0	R.EVNAAR.R
849 - 862	1433.7253	1432.7180	1432.6616	39	0	R.SAADADAVVAEMQR.E
931 - 940	1118.5197	1117.5124	1117.5913	-71	1	K.SARLELACAK.G

Spot No.: **146**

Mascot score: **85**

Sequence coverage %: **22**

NCBI accession No.: **gi| 168030082**

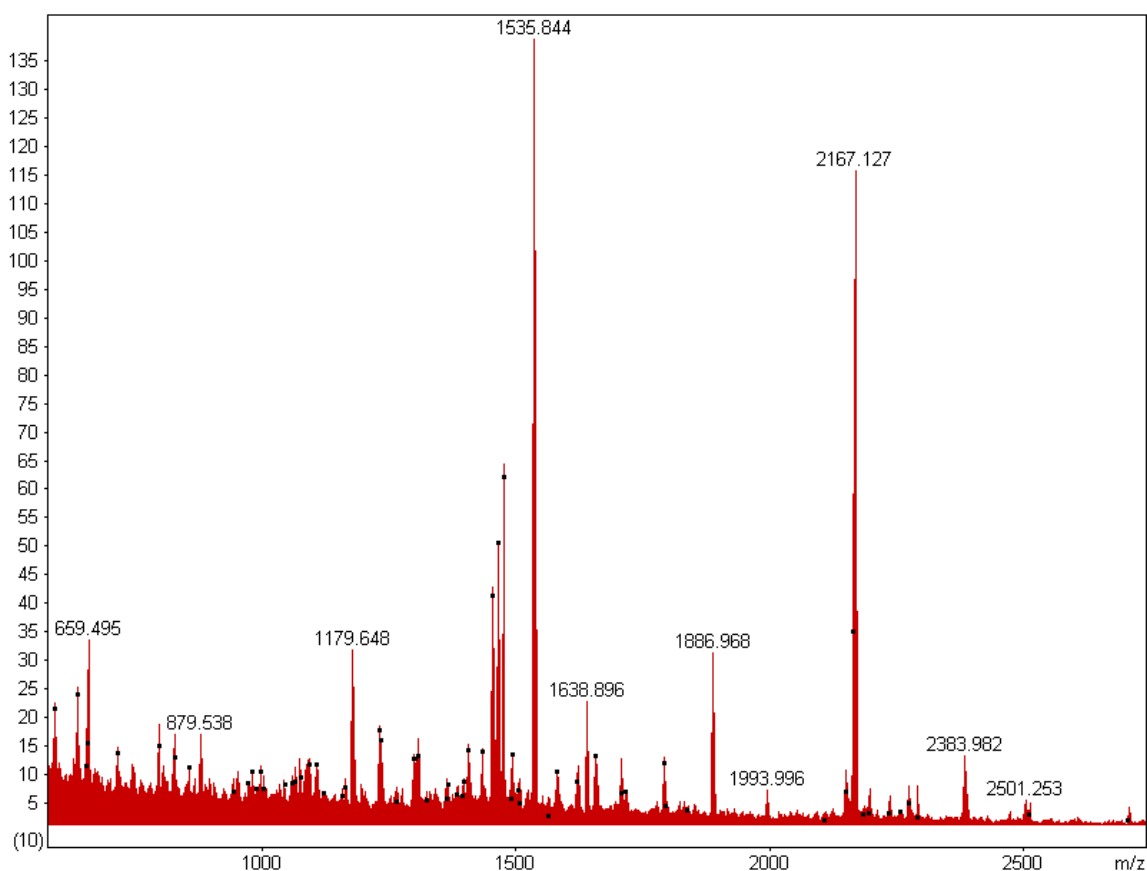
Matched peptides No.: **12**

Total peptides No.: **26**

Calculated Mr: **43708**

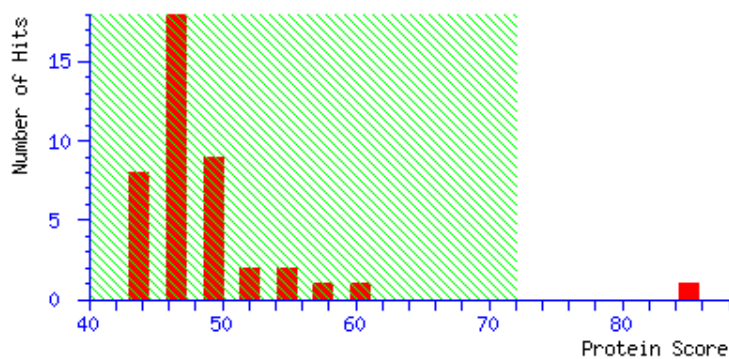
Calculated pI: **9.82**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MMEADVRRNN LLKEKVAVLE FKINKLGIAG RAYYEASKIK LRRNRYLIRA
51 ARTQNMLLHS ALFILEQKEM VSRKEASNLI GIRKQASDLR IKFDSLLRKKS
101 ITNQHILAKQ ITDTRATEIQ CADVLDPNTP PLITIRWLDI RLEAIFRTK
151 NTHLESLTNI IALKNNHIMQ LKMVMCDGIK SRDQAKAELE DLLSTLFPGG
201 RPVGMSKAEQ IKLNGLIVNL KEVMEVDTMR AMYQQLLFQQ KQILYLEQVK
251 AELILTLQKL RNEAPIPATH KRRSTFRLEE VGGIAASVKE SMQRLTVQTA
301 QKDTFPELL VEGTHKLISL IHQRTADMEE METNAVPEKL VLAETESKLV
351 FLLKGLDRKV KFLESMKAKQ IAKAVKPSTS MG

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
1 - 7	851.5259	850.5186	850.3677	177	0	-.MMEADVRR.R
9 - 13	601.3595	600.3522	600.3595	-12	0	R.NNLLK.E
16 - 22	805.5194	804.5121	804.4745	47	0	K.VAVLEFK.I
93 - 97	637.4023	636.3950	636.3231	113	0	K.FDSL.R.K
149 - 164	1796.0223	1795.0150	1795.0203	-3	1	K.TKNTHLESLTNII ALK .N
202 - 212	1203.7613	1202.7540	1202.6329	101	1	R.PVGM SKAEQ IK.L Oxidation (M)
251 - 259	1028.4995	1027.4922	1027.6277	-132	0	K.AELILTLQK.L
290 - 294	650.3183	649.3110	649.2853	40	0	K.ESMQR.L
290 - 302	1535.8972	1534.8899	1534.7773	73	1	K.ESMQRLTVQ TAQK .D Oxidation (M)
295 - 302	888.5193	887.5121	887.5076	5	0	R.LTVQ TAQK .D
360 - 367	997.5718	996.5645	996.5314	33	1	K.VK FLES MK.A Oxidation (M)
368 - 373	658.4631	657.4558	657.4173	59	1	K.AKQ IAK .A

Spot No.: **147**

Mascot score: **89** Sequence coverage %: **25**

NCBI accession No.: **gi| 15223186**

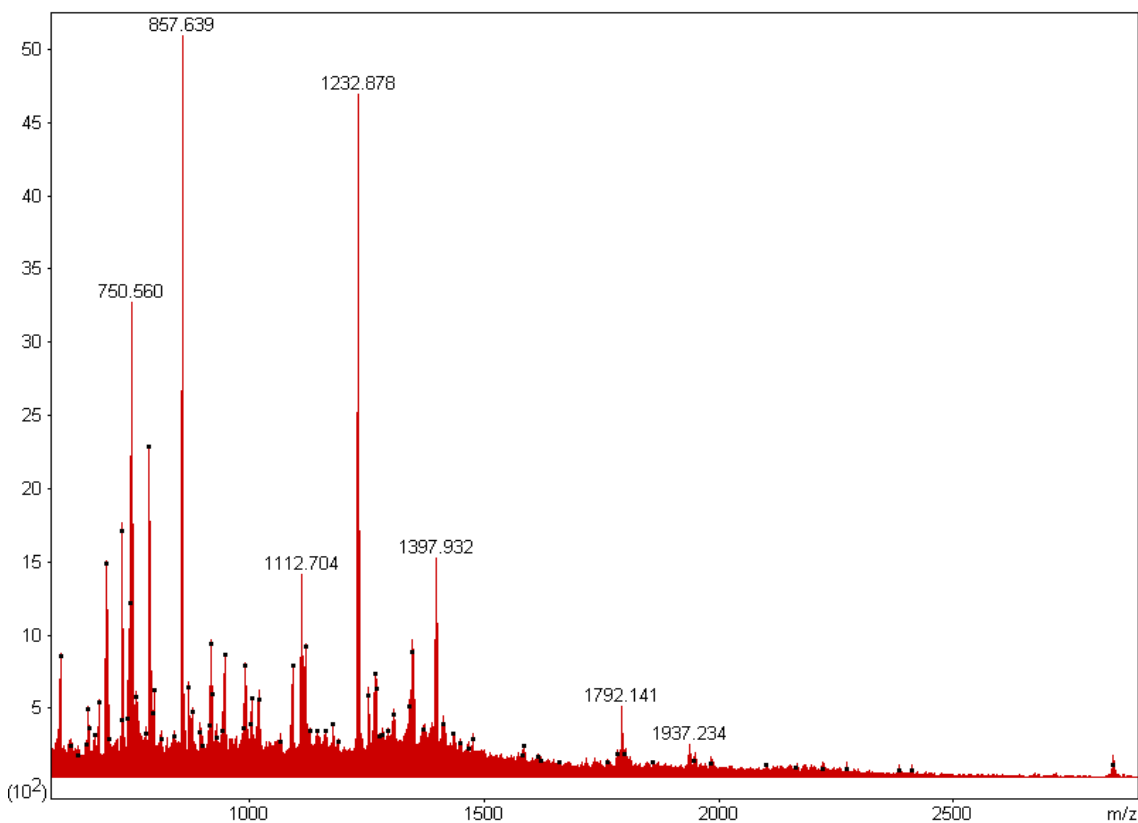
Matched peptides No.: **14**

Total peptides No.: **58**

Calculated Mr: **53980**

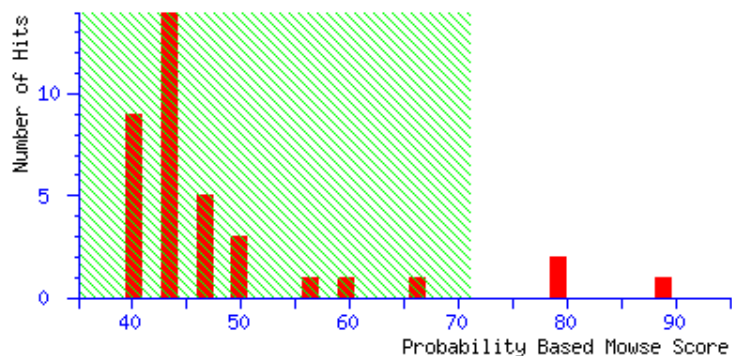
Calculated pI: **6.21**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSLKALDYES LNENVKNCQY AVRGELYLR SELQKEGKKI IFTNVGNPHA
 51 LGQKPLTFPR QVVSQCQAPF LLDDPNVGM I FPADAIARAK HYLSTSGGL
 101 GAYSDSRGLP GVRKEVAEFI ERRDGYPSDP ELIFLTDGAS KGVMQILNCV
 151 IRGQKDGILV PVPQYPLYS A TISLLGGTLV PYYLEESENU GLDVMNLRQS
 201 VAQARSQGIT VRAMVIINPG NPTGQCLSEA NIREILRFCC DERLVLLGDE
 251 VYQQNIYQDE RPFISSKKVL MDMGAPISKE VQLISFHTVS KGYWGECCQR
 301 GGYFEMTNIP PRTVEEIIYKV ASIALSPNVS AQIFMGLMVS PPKPGDISYD
 351 QFVRESKGI L ESLRRRARM TDGFNSCKNV VCNFTEGAMY SFPQIKLPSK
 401 AIQAAKQAGK VPDVVFYCLKL LEATGISTVP GSGFGQKEGV FHLRTTILPA
 451 EEEMPEIMDS FKKFNDEFMS QYADNFGYSR M

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
24 - 29	750.5604	749.5531	749.4072	195	0	R.GELYLR.A
89 - 107	1983.2932	1982.2859	1981.9857	151	1	R.AKHYSLSGGLGAYSDSR.G
91 - 107	1784.1868	1783.1795	1782.8537	183	0	K.HYLSLSGGLGAYSDSR.G
108 - 113	598.4600	597.4528	597.3598	156	0	R.GLPGVR.K
114 - 122	1120.8152	1119.8079	1119.5924	193	1	R.KEVAEFIER.R
115 - 122	992.7129	991.7057	991.4974	210	0	K.EVAEFIER.R
199 - 205	759.5446	758.5374	758.4035	177	0	R.QSVAQAR.S
213 - 233	2271.4941	2270.4868	2270.1147	164	0	R.AMVIINPGNPTGQCLSEANIR.E Oxidation (M)
292 - 300	1112.7039	1111.6966	1111.4505	121	0	K.GYWGECCQR.G
301 - 312	1397.9321	1396.9248	1396.6445	191	0	R.GGYFEMTNIPPR.T Oxidation (M)
358 - 364	787.6207	786.6134	786.4599	195	0	K.GILESLR.R
358 - 365	943.6984	942.6911	942.5610	138	1	K.GILESLRR.R
438 - 444	857.6390	856.6317	856.4555	106	0	K.EGVFHLR.T
464 - 481	2221.4137	2220.4064	2220.8881	-117	1	K.FNDEFMSQYADNFGYSR.-

Spot No.: **148**

Mascot score: **85** Sequence coverage %: **38**

NCBI accession No.: **gi| 15240013**

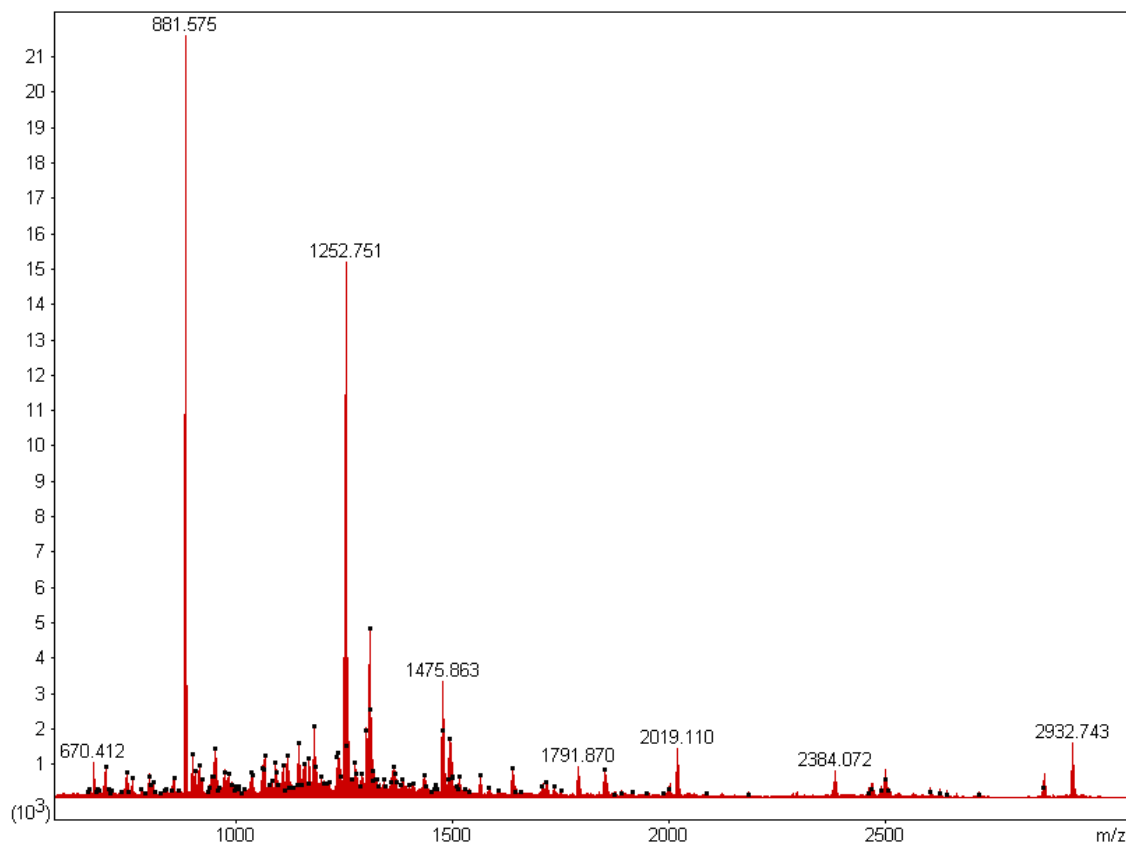
Matched peptides No.: **12**

Total peptides No.: **106**

Calculated Mr: **35349**

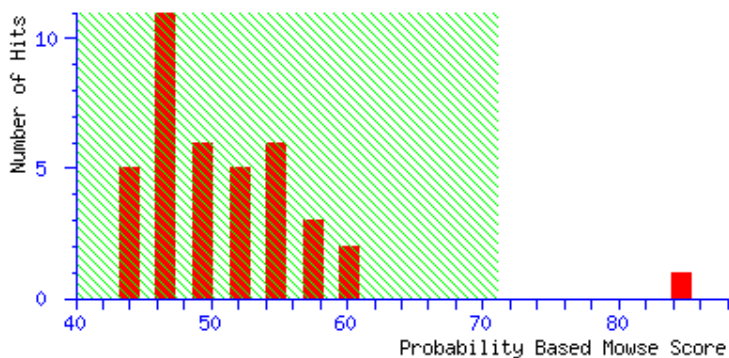
Calculated pI: **5.55**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAASLQSTAT FLQSAKIATA PSRGSSHLRS TQAVGKSFGL ETSSAR**LTCS**
51 **FQSDFK**DFTG KCSDAVKIAG FALATSALVV SGASAEGAPK **RLTYDEIQSK**
101 TYMEVKGTGT ANQCPTIDGG SETFSFKPGK YAGK**KCFEP** **TSFTVK**ADSV
151 SK**NAPPEFQN** **TKLM**TRLTYT LDEIEGPFV ASDGSVNFKE **EDGIDYAAVT**
201 **VQLP**GGERP **FLFTVK**QLDA SGKPDSTGK **FLVPSYRGSS** **FLDPKGRGGS**
251 **TGYD**NAVALP **AGGR**GDEEEL VKENVKNTAA SVGEITLKVT **KSKPETGEVI**
301 **GVFESLQPSD** **TDLGAK**VPKD VKIQGVWYGO LE

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
47 - 56	1232.6664	1231.6591	1231.5543	85	0	R.LTCSFQSDFK.D
91 - 100	1252.7507	1251.7434	1251.6459	78	1	K.RLTYDEIQSK.T
135 - 146	1490.8452	1489.8379	1489.7276	74	1	K.KCFEPTSFTVK.A
136 - 146	1362.7391	1361.7318	1361.6326	73	0	K.FCFEPTSFTVK.A
153 - 162	1145.6255	1144.6182	1144.5513	58	0	K.NAPPEFQNTK.L
190 - 208	2019.1101	2018.1028	2017.9593	71	0	K.EEDGIDYAAVTVQLPgger.V
209 - 216	950.6258	949.6185	949.5637	58	0	R.VPFLFTVK.Q
231 - 237	881.5753	880.5681	880.4807	99	0	K.FLVPSYR.G
238 - 245	850.4990	849.4917	849.4232	81	0	R.GSSFLDPK.G
248 - 264	1562.8869	1561.8796	1561.7485	84	0	R.GGSTGYDNAVALPAGGR.G
289 - 316	2932.7428	2931.7355	2931.5077	78	1	K.VTKSKPETGEVIGVFESLQPSD TDLGAK.V
292 - 316	2604.5315	2603.5242	2603.2966	87	0	K.SKPETGEVIGVFESLQPSD TDLGAK.V

Spot No.: **149**

Mascot score: **96** Sequence coverage %: **58**

NCBI accession No.: **gi| 312282325**

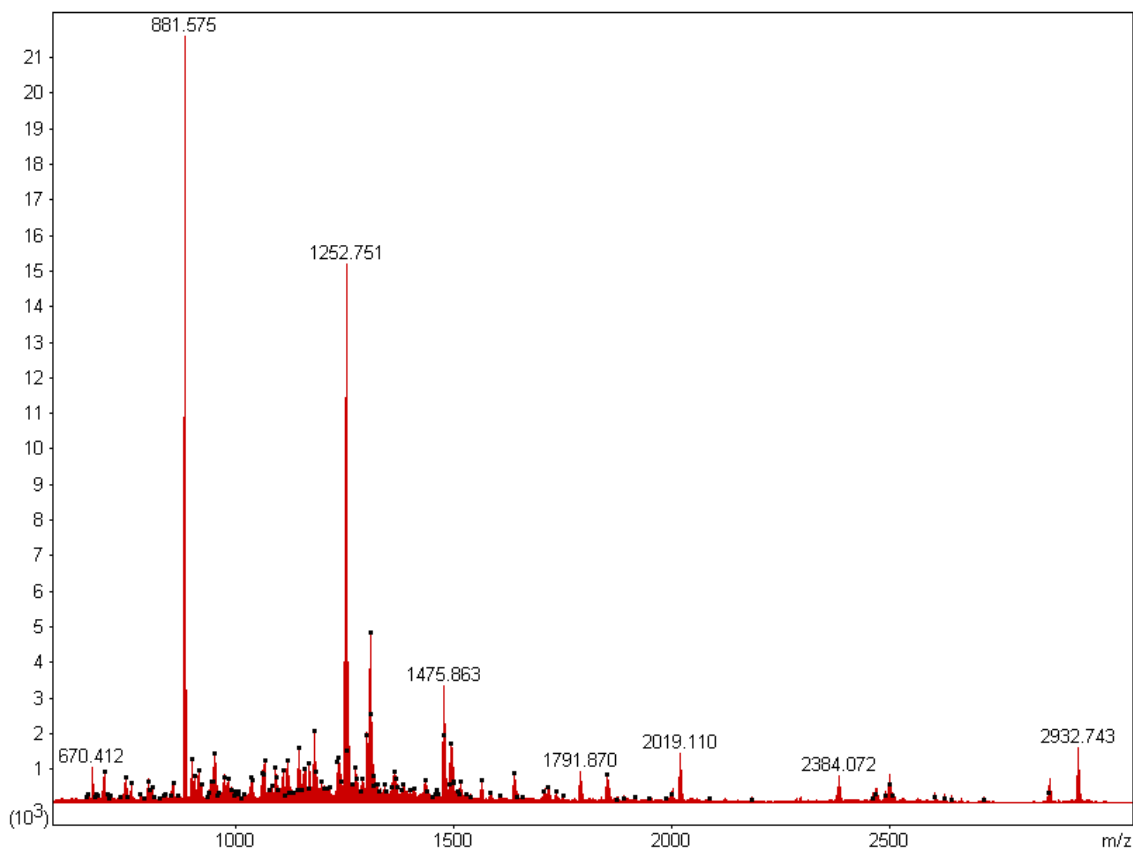
Matched peptides No.: **15**

Total peptides No.: **78**

Calculated Mr: **35258**

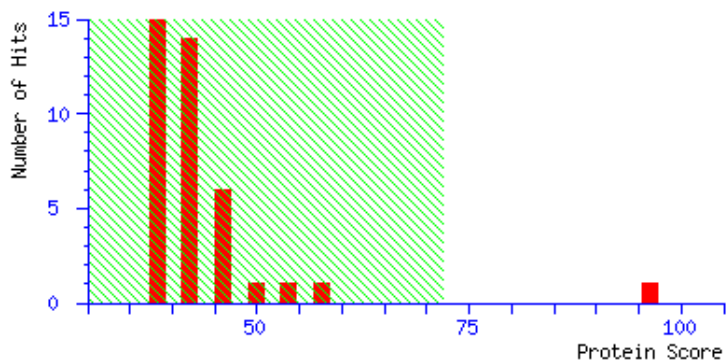
Calculated pI: **5.92**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MATSLQAATT FLQPAKIAAS PSRSVHLRSN QTVAKSFGL E SSPARLTCSL
51 HSDFKDFAGK CSDAAKVAGF ALATSALVVS GASAEGAPKR LYDEIQSKT
101 YMEVKGTGTA NQCPTIDGGS EAFSFKPGKY TGKKCFEPT SFTVKADSVS
151 KNAPPDFQNT KLMTRLTYTL DEIEGPFEVG SDGSVKFKEE DGIDYAAVTV
201 QLPGGERVPF LFTVKQLEAS GKPDSFSGKF LVPSYRGSSF LDPKRGGST
251 GYDNAVALPA GRGDEEELS KENVKNIAAS VGEILKITK SKPETGEVIG
301 VFESLQPSDT DLGAKVPKDV KIQGVWYGQL E

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
24 - 35	1339.7411	1338.7338	1338.7368	-2	1	R.SVHLRSNQTVAK.S
56 - 66	1169.6141	1168.6068	1168.5183	76	1	K.DFAGKCSDAAK.V
90 - 99	1252.7736	1251.7663	1251.6459	96	1	K.RLYDEIQSK.T
91 - 99	1096.6268	1095.6195	1095.5448	68	0	R.LTYDEIQSK.T
106 - 129	2427.2785	2426.2712	2426.1173	63	1	K.GTGTANQCPTIDGGSEAFSFKPGK.Y
134 - 145	1490.8477	1489.8404	1489.7276	76	1	K.KCFEPTSFTVK.A
135 - 145	1362.7298	1361.7225	1361.6326	66	0	K.FCFEPTSFTVK.A
152 - 161	1131.6279	1130.6206	1130.5356	75	0	K.NAPPDFQNTK.L
166 - 186	2256.1854	2255.1781	2255.0845	42	0	R.LTYTLDEIEGPFVEGSDGSVK.F
187 - 207	2294.2667	2293.2594	2293.1226	60	1	K.FKEEDGIDYAAVTVQLPgger.V
208 - 215	950.6444	949.6372	949.5637	77	0	R.VPFLFTVK.Q
216 - 229	1450.8250	1449.8177	1449.7100	74	1	K.QLEASGKPSFSGK.F
230 - 236	881.6103	880.6031	880.4807	139	0	K.FLVPSYR.G
247 - 263	1562.8903	1561.8830	1561.7485	86	0	R.GGSTGYDNAVALPAGGR.G
291 - 315	2604.4668	2603.4595	2603.2966	63	1	K.SKPETGEVIGVFESLQPSDIDLGAK.V

Spot No.: **150**

Mascot score: **99**

Sequence coverage %: **47**

NCBI accession No.: **gi| 30690323**

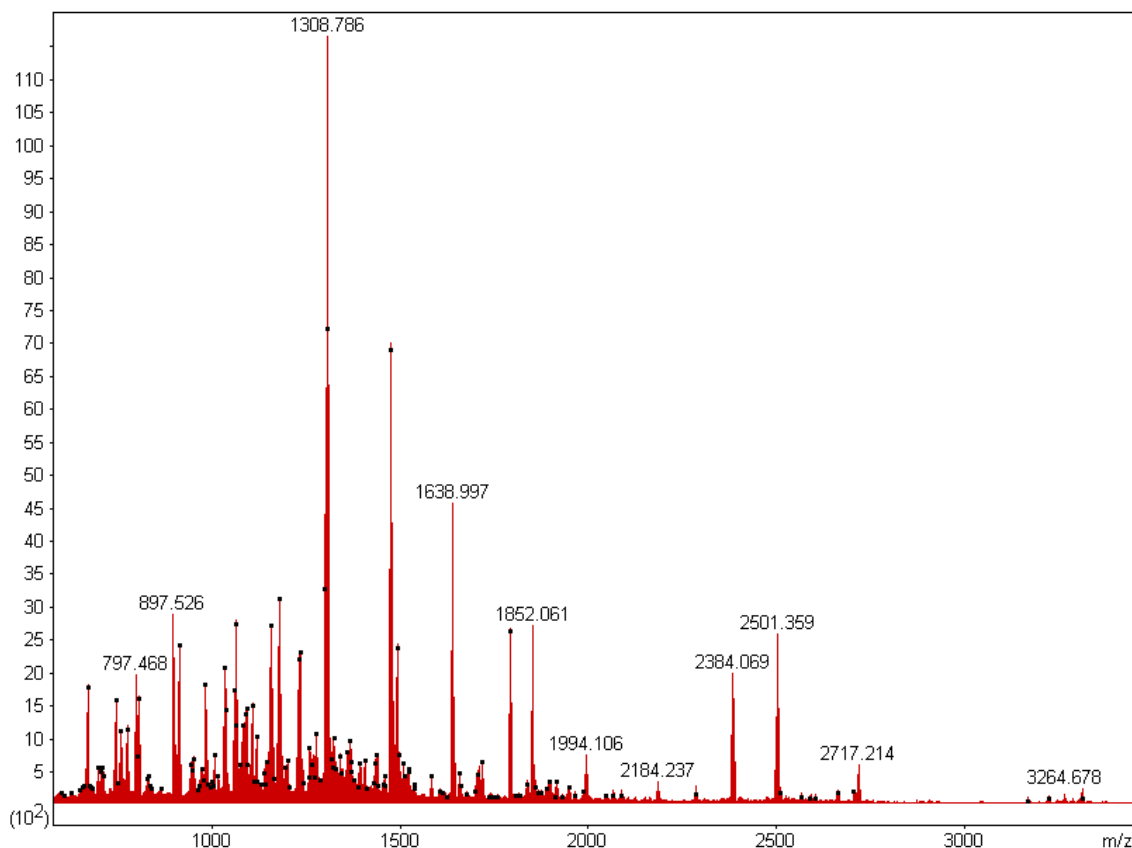
Matched peptides No.: **21**

Total peptides No.: **129**

Calculated Mr: **39646**

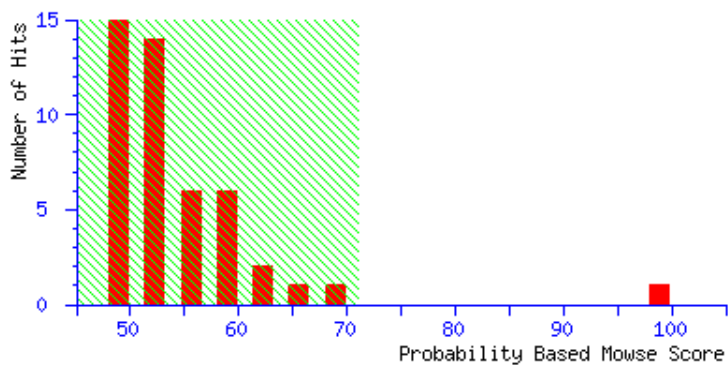
Calculated pI: **9.44**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVEEAQLDPK SKSIPNENLK FGERALSAGG AAFISAVIVN PLDVVKTRL**Q**
51 AQAAGVPYQG SCRLGCFDTN STLVHDLRS**N** **SAPGMCRITG** SASVCSNDQY
101 KGTLDVIFYKI IRQEGFSRLW RGTNASLTLA IPTVGIYMPC YDYFR**NIMEE**
151 FTTEKSPSLT VYVPLVAGTI AR**SLACISCY** **PVELARTRMQ** **AFKGTQRNVK**
201 LPGVWKTLDV VVNPVKGSNN GYR**MLWTGLG** **AQLARDVPFS** **AICWSILEPT**
251 RRSIQSAMGE EPRAGSIIGA NFAAGFVAGA VAAAAATCPLD VAKTRR**QIEK**
301 NTDRAMTMTT RQTLAEIWRD **GGMRGMFSGA** **GARVGRAGPS** VAIVVSFYEV
351 VKYGLHNFHQ Q

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 12	1390.7680	1389.7607	1389.6810	57	1	-MVEEAQLDPKSK.S Oxidation (M)
11 - 20	1129.6146	1128.6073	1128.6138	-6	1	K.SKSIPNENLK.F
13 - 20	914.6449	913.6376	913.4869	165	0	K.SIPNENLK.F
49 - 63	1605.8662	1604.8589	1604.7729	54	0	R.LQAQAAGVPYQGSCL
79 - 87	995.5725	994.5652	994.3960	170	0	R.SNSAPGMCR.I Oxidation (M)
146 - 155	1241.6719	1240.6646	1240.5645	81	0	R.NIMEEFTTEK.S
146 - 155	1257.7319	1256.7246	1256.5594	131	0	R.NIMEEFTTEK.S Oxidation (M)
173 - 186	1638.9972	1637.9899	1637.7905	122	0	R.SLACISCYPVELAR.T
187 - 193	897.5256	896.5184	896.4538	72	1	R.TRMQAFK.G Oxidation (M)
189 - 197	1082.6900	1081.6827	1081.5339	138	1	R.MQAFKGTQR.N Oxidation (M)
194 - 200	802.5461	801.5388	801.4457	116	1	K.GTQRNVK.L
224 - 235	1316.6883	1315.6810	1315.7071	-20	0	R.MLWTGLGAQLAR.D
236 - 251	1891.0719	1890.0646	1889.9346	69	0	R.DVPFSAICWSILEPTR.R
253 - 263	1204.6890	1203.6817	1203.5554	105	0	R.SIQSAMGEPR.A
297 - 304	1003.6226	1002.6153	1002.5094	106	1	R.QIEKNTDR.A
301 - 311	1329.7661	1328.7588	1328.5813	134	1	K.NTDRAMTMTTR.Q 2 Oxidation (M)
305 - 311	827.5001	826.4929	826.3677	151	0	R.AMTMTTR.Q Oxidation (M)
312 - 319	1016.6188	1015.6115	1015.5451	65	0	R.QLAEIWR.D
320 - 333	1369.7564	1368.7491	1368.6027	107	1	R.DGGMRGMFSGAGAR.V
325 - 336	1165.6690	1164.6617	1164.5822	68	1	R.GMFSGAGARVGR.A
353 - 361	1143.6539	1142.6466	1142.5257	106	0	K.YGLHNFHQ.-

Spot No.: **151**

Mascot score: **146** Sequence coverage %: **54**

NCBI accession No.: **gi| 166359602**

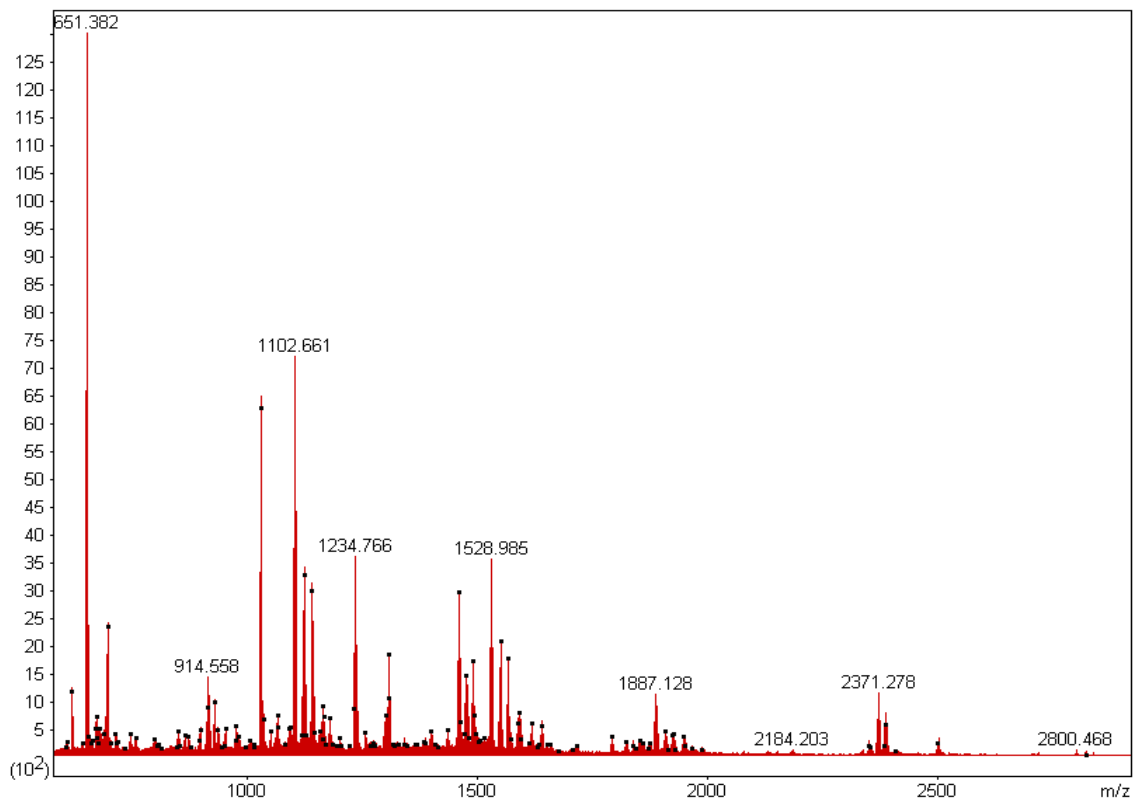
Matched peptides No.: **20**

Total peptides No.: **132**

Calculated Mr: **24136**

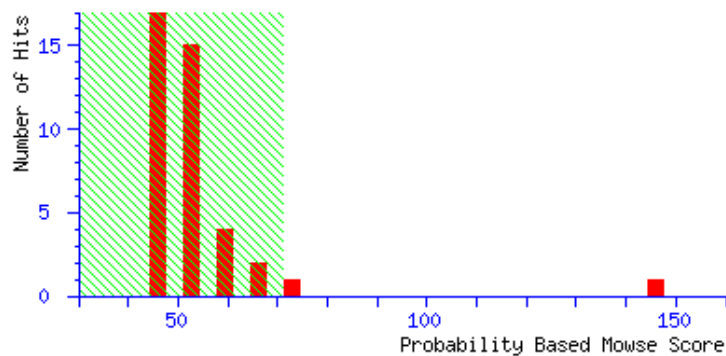
Calculated pI: **6.17**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVLK**VYGP**H**F ASPKRALVTL VEKGVAFETI PVDLMKGEHK QPAYLALQPF**
51 **GTVP**AVVD**GD YKIFESRAVM RYVAEKYRSQ GPDLLGKTVE DRGQVEQWLD**
101 VEATTYHPPL LNLTLHVMFA SVMGFADQK **LIKESEEKLA AVLDVYEAHL**
151 **SK**SKYLAGDF VSLADLAHLP FTDYLVGPIG **KAYMIKDRKH** VSAWDDISS
201 RPAWKEVLEK YSLPA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
5 - 14	1102.6607	1101.6534	1101.5607	84	0	K.VYGP H F ASPK.R
15 - 23	1028.7354	1027.7281	1027.6390	87	1	K.RALVTL VEK.G
16 - 23	872.5592	871.5519	871.5379	16	0	R.ALVTL VEK.G
24 - 36	1435.8628	1434.8555	1434.7429	79	0	K.GVAFETIPVDLMK .G Oxidation (M)
24 - 40	1871.0620	1870.0547	1869.9659	48	1	K.GVAFETIPVDLMK GEHK.Q
24 - 40	1887.1275	1886.1202	1885.9608	85	1	K.GVAFETIPVDLMK GEHK.Q Oxidation (M)
37 - 62	2800.4676	2799.4603	2799.4232	13	1	K.GE HK QPAYLALQPF GTVP AVVD GDYK.I
41 - 62	2349.3284	2348.3211	2348.2053	49	0	K.QPAYLALQPF GTVP AVVD GDYK.I
63 - 67	651.3822	650.3749	650.3388	56	0	K.IFESR .A
63 - 71	1124.6752	1123.6679	1123.5808	78	1	K.IFESRA VMR.Y Oxidation (M)
68 - 76	1066.6711	1065.6638	1065.5641	94	1	R.A VMRY VAEK .Y
68 - 76	1082.6550	1081.6477	1081.5590	82	1	R.A VMRY VAEK .Y Oxidation (M)
72 - 76	609.3175	608.3102	608.3170	-11	0	R.Y VAEK.Y
72 - 78	928.5605	927.5532	927.4814	77	1	R.Y VAEKYR.S
79 - 87	914.5583	913.5510	913.4869	70	0	R.S QGP DLL GK.T
88 - 92	619.3321	618.3248	618.2973	44	0	K.T VEDR.G
131 - 138	975.5807	974.5734	974.5284	46	1	K.L IK SEEK .L
139 - 152	1528.9850	1527.9777	1527.8297	97	0	K.L AAV LDVYEAHL SK.S
182 - 186	641.3212	640.3139	640.3254	-18	0	K.A YMIK.D Oxidation (M)
182 - 188	912.5058	911.4985	911.4535	49	1	K.A YMIKDR.K Oxidation (M)

Spot No.: **152**

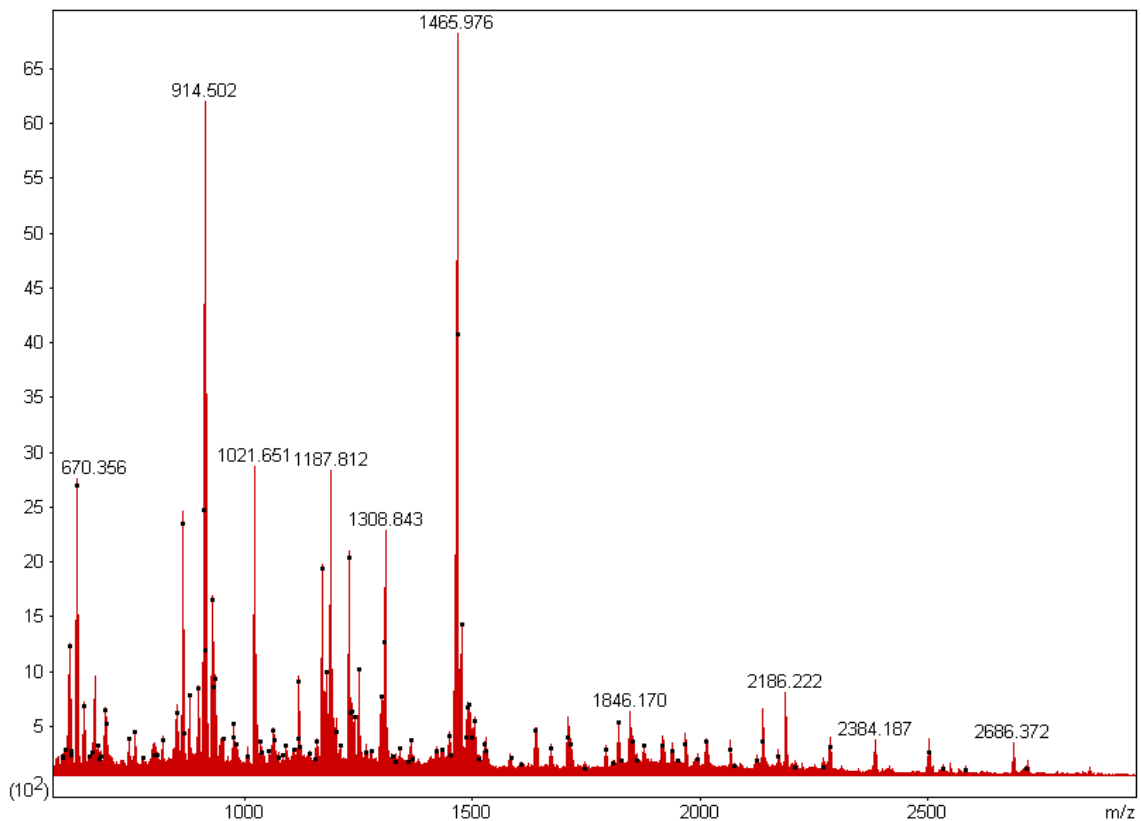
Mascot score: **171** Sequence coverage %: **39**

NCBI accession No.: **gi| 30959098**

Matched peptides No.: **25** Total peptides No.: **108**

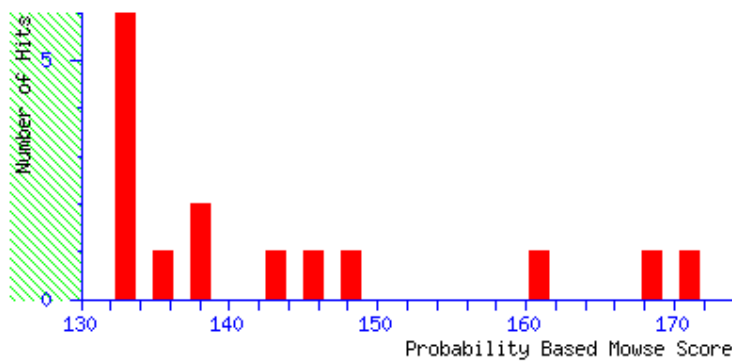
Calculated Mr: **49918** Calculated pI: **6.12**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  SVGFKAGVKE  YKLTYYTPEY  ETKDTDILAA  FRVTPQPGVP  PEEAGAAVAA
51 ESSTGTWTTV  WTDGLTSLDR  YKGRCYHIEP  VAGEENQYIA  YVAYPLDLFE
101 EGXVXXMFXX  IVGNVFGFKA  LAALRLEDLR  IPPAYTKTFQ  GPPHGIQVER
151 DKLNKYGRPL  LGCTIKPKLG  LSAKNYGRAV  YECLRGGLDF  TKDDENVNSQ
201 PFMRWRDRFL  FCAEALYKAQ  TETGEIKGHY  LNATAGTCEE  MIKRAVFARE
251 LGVPIVMHDY  LTGGFTANTS  LAHYCRDNGL  LLHIHRAMHA  VIDRQKNHGM
301 HRVVLAKALR  LSGGDHIHAG  TVVGKLEGDR  ESTLGFVDLL  RDDYIEKDRS
351 RGIFFTQDWV  SLPGVLPVAS  GGIHVWHMPA  LTEIFGDDSV  LQFGGGTLGH
401 PWGNAPGAVA  NRVALEACVQ  ARNEGRDLAV  EGNEIIREAS  KWSPELAAA

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
24 - 32	1021.6509	1020.6436	1020.5240	117	0	K.DTDILAAFR.V
120 - 125	614.4258	613.4186	613.3911	45	0	K.ALAALR.L
120 - 130	1240.8798	1239.8725	1239.7299	115	1	K.ALAALRLEDLR.I
126 - 130	645.3686	644.3614	644.3493	19	0	R.LEDLR.I
138 - 150	1465.9758	1464.9685	1464.7474	151	0	K.TFQGGPPHGIQVER.D
138 - 152	1709.0891	1708.0818	1707.8693	124	1	K.TFQGGPPHGIQVERDK.L
179 - 185	910.5267	909.5195	909.4378	90	0	R.AVYECLR.G
186 - 204	2170.2273	2169.2200	2168.9797	111	1	R.GGLDFTKDDENVNSQP PFMR.W
186 - 204	2186.2217	2185.2144	2184.9746	110	1	R.GGLDFTKDDENVNSQP PFMR.W Oxidation (M)
205 - 208	632.3520	631.3447	631.3190	41	1	R.WRDR.F
219 - 227	976.4622	975.4549	975.4873	-33	0	K.AQTETGEIK.G
228 - 244	1967.1442	1966.1369	1965.9037	119	1	K.GHYLNATAGTCE EMIKR.A Oxidation (M)
277 - 286	1187.8122	1186.8049	1186.6571	125	0	R.DNGLLLHHR.A
287 - 294	912.5449	911.5376	911.4647	80	0	R.AMHAVIDR.Q
287 - 294	928.5407	927.5334	927.4596	80	0	R.AMHAVIDR.Q Oxidation (M)
295 - 303	1170.7653	1169.7580	1169.5512	177	1	R.QKNHG MFHFR.V Oxidation (M)
297 - 303	898.5056	897.4984	897.4028	107	0	K.NHG MFHFR.V
297 - 303	914.5017	913.4945	913.3977	106	0	K.NHG MFHFR.V Oxidation (M)
311 - 325	1447.9468	1446.9395	1446.7579	126	0	R.LSGGDHIHAGTVVGK.L
326 - 341	1820.1888	1819.1815	1818.9476	129	1	K.LEGDRESTLGFVDLLR.D
331 - 341	1249.8378	1248.8305	1248.6714	127	0	R.ESLGFVDLLR.D
331 - 347	2013.2321	2012.2248	2012.0102	107	1	R.ESLGFVDLLR DDYIEK.D
342 - 349	1053.6126	1052.6053	1052.4774	122	1	R.DDYIEKDR.S
413 - 422	1116.7105	1115.7032	1115.5757	114	0	R.VALEACV QAR.N
427 - 437	1228.8208	1227.8135	1227.6459	137	0	R.DLAVEGNEIIR.E

Spot No.: **153**

Mascot score: **101**

Sequence coverage %: **45**

NCBI accession No.: **gi| 15240599**

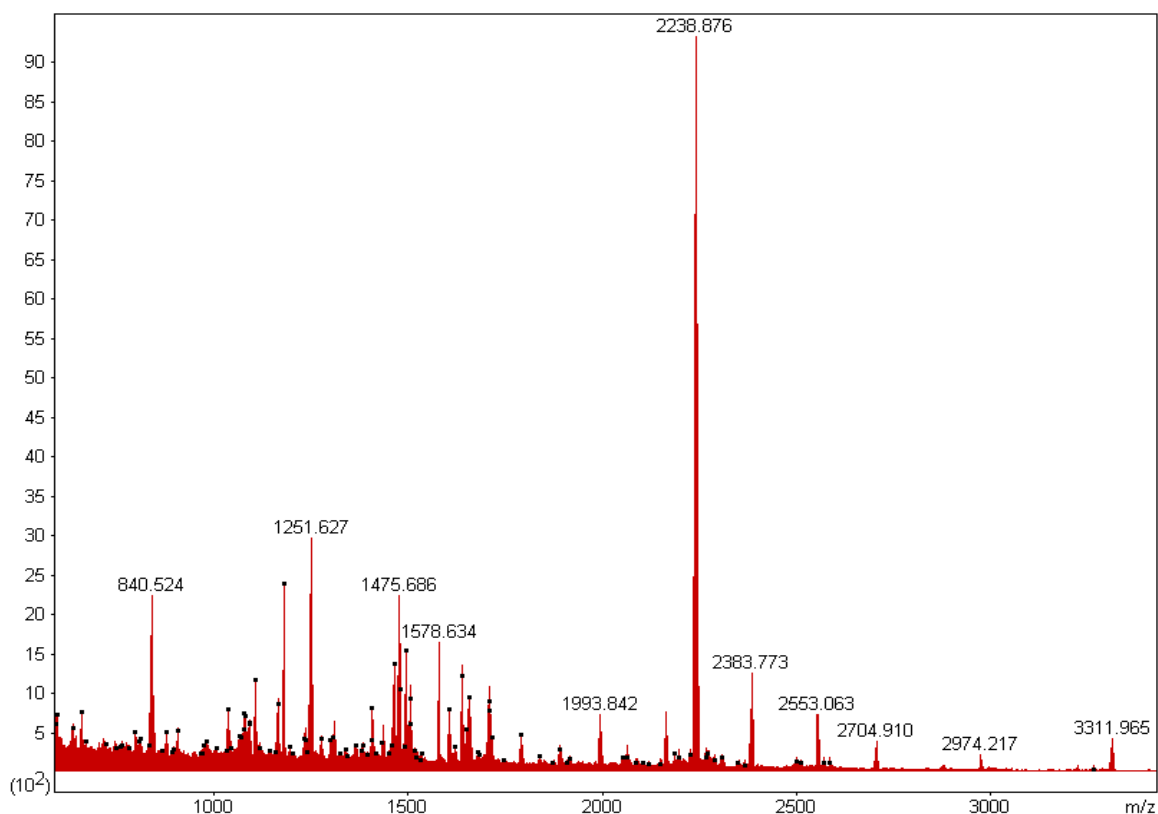
Matched peptides No.: **13**

Total peptides No.: **57**

Calculated Mr: **35262**

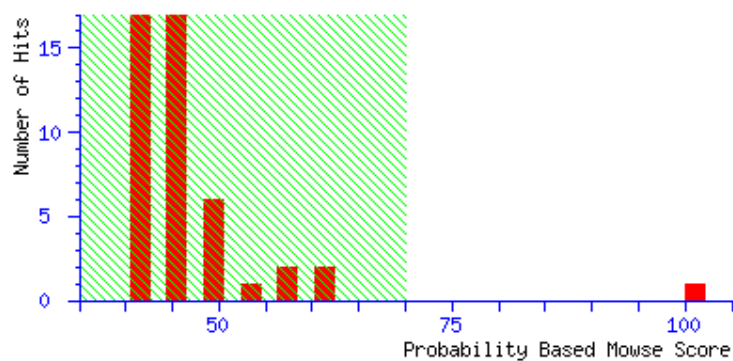
Calculated pI: **5.08**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MGQDRGFGFP TQRLCSLSSL ALSHLGKQDL NLVSKTCGDT TDMFSTRGSY
51 QVSTQVSQSY FDGYCGWVHG SSSLQOQFLP PQNQCMKQVP LQVDGWISKA
101 EEQCSQKRFL VFDQSGDQTT LLLASDIRKS FETLKQHACP DMKEELQRSN
151 KDLFVCHGMQ GNSEPD LKED SEELNALLYS EDESGYCSEE DEVTSADHSP
201 SIVVSGREDQ KTF LGSYGQP LNAKRRKILE TSNESMRDAE SSCGSCDNTR
251 ISFLKRSKLS SNKIGEEKIF ETVSLLRSVV PGEELVDPIL VIDRAIDYLK
301 SLKMEAKNRE A

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 13	1365.5944	1364.5871	1364.6586	-52	1	M.GQDRGFGFPTQR.L
14 - 35	2383.7732	2382.7659	2382.2941	198	1	R.LCSLSSLALSHLGKQDLNLVSK.T
36 - 47	1407.6909	1406.6836	1406.5443	99	0	K.TCGD TDMFSTR.G Oxidation (M)
109 - 128	2238.8762	2237.8689	2238.1532	-127	0	R.FLVFDQSGDQT TLLASDIR.K
109 - 129	2366.9865	2365.9792	2366.2482	-114	1	R.FLVFDQSGDQT TLLASDIRK.S
130 - 143	1707.7195	1706.7122	1706.7756	-37	1	K.SFETLKQHACPMK.E Oxidation (M)
136 - 148	1657.7221	1656.7148	1656.7348	-12	1	K.QHACPMKEELQR.S Oxidation (M)
227 - 237	1307.6347	1306.6274	1306.6551	-21	1	R.KILETSNESMR.D
227 - 237	1323.6453	1322.6380	1322.6500	-9	1	R.KILETSNESMR.D Oxidation (M)
228 - 237	1179.5737	1178.5664	1178.5601	5	0	K.ILETSNESMR.D
238 - 250	1458.6735	1457.6662	1457.5147	104	0	R.DAESSCGSCDNTR.I
269 - 277	1077.5523	1076.5450	1076.6230	-72	0	K.IFETVSLLR.S
278 - 300	2553.0626	2552.0553	2552.4101	-139	1	R.SVVPGEELVDPILVIDRAIDYLK.S

Spot No.: **154**

Mascot score: **127** Sequence coverage %: **33**

NCBI accession No.: **gi| 26450878**

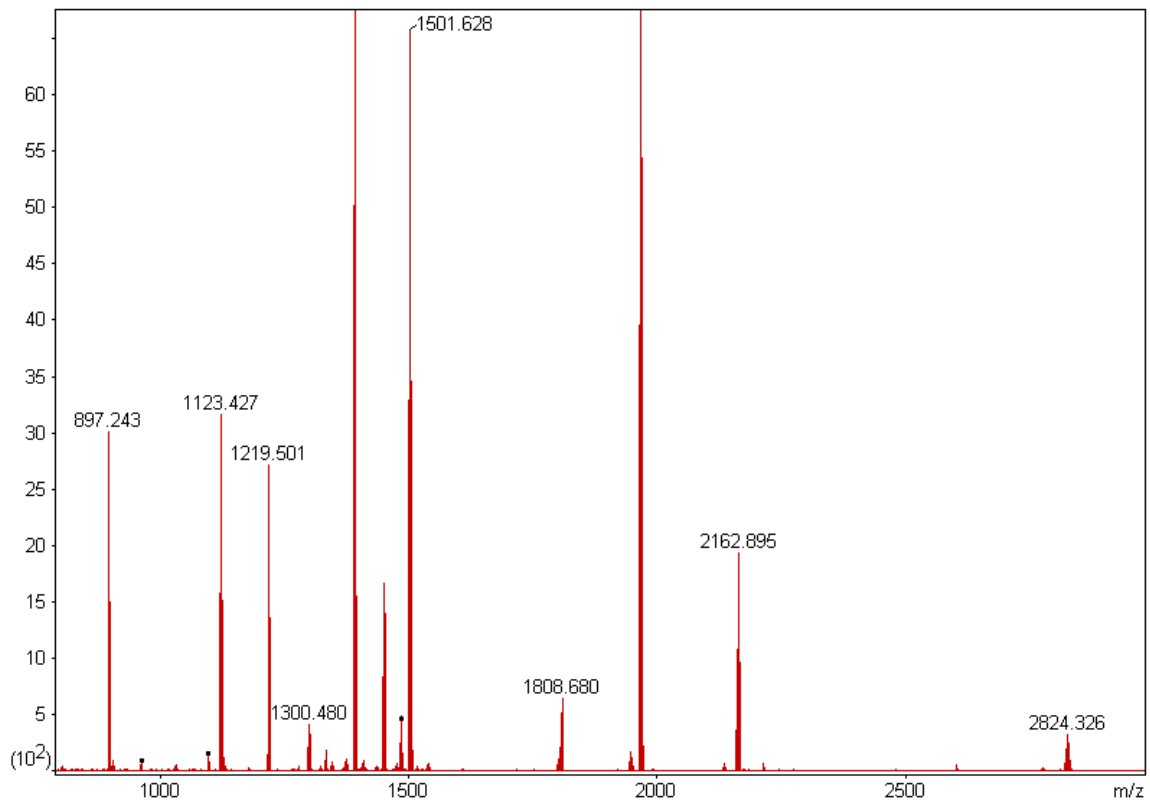
Matched peptides No.: **10**

Total peptides No.: **14**

Calculated Mr: **34325**

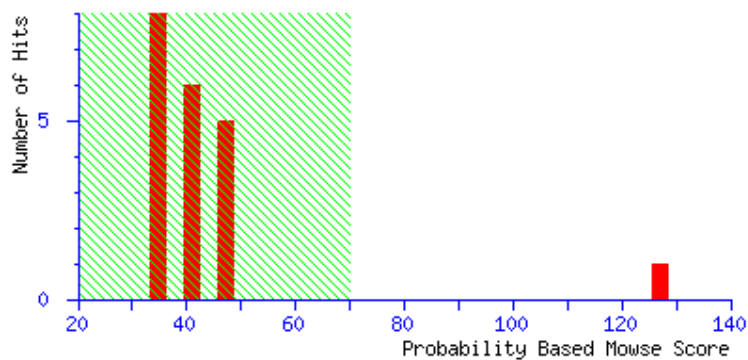
Calculated pI: **5.09**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MTSSNITPRA MATQOLENAD QLIDSVETFI LDCDGVIVKG DKLIEGVPET
51 LDMLRAKGKR LVFVTNNSTK SRKQYGKKFE TLGLNVNEEE IFASSFAAAA
101 YLQSINFPKD KKVYVIGEEG ILKELELAGF QYLGPPDDGK RQIELKPGFL
151 MEHDHDVGAV VVGFDRYFNY YKIQYGTLCI RENPGCLFIA TNRDAVTHLT
201 DAQEWAGGGS MVGALVGSTQ REPLVVGKPS TFMMDYLADK FGIQKSQICM
251 VGDRLDTDIL FGQNGGCKTL LVLSGVTSIS MLESPENKIQ PDFYTSKISD
301 FLSPKAATV

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
43 - 55	1485.6061	1484.5988	1484.7908	-129	0 K.LIEGVPETLDMLR.A
43 - 55	1501.6284	1500.6211	1500.7858	-110	0 K.LIEGVPETLDMLR.A Oxidation (M)
113 - 123	1219.5011	1218.4938	1218.6860	-158	0 K.VYVIGEEGILK.E
124 - 140	1808.6804	1807.6731	1807.8628	-105	0 K.ELELAGFQYLGPPDDGK.R
124 - 141	1964.8144	1963.8071	1963.9639	-80	1 K.ELELAGFQYLGPPDDGKR.Q
142 - 166	2824.3256	2823.3183	2823.4014	-29	0 R.QIELKPGFLMEHDHDVGAVVVGFD.R.Y Oxidation (M)
167 - 172	897.2426	896.2354	896.4068	-191	0 R.YFNYYK.I
173 - 181	1123.4275	1122.4202	1122.5856	-147	0 K.IQYGTLCIR.E
182 - 193	1391.5129	1390.5056	1390.6663	-116	0 R.ENPGCLFIATNR.D
289 - 297	1098.3473	1097.3400	1097.5393	-182	0 K.IQPDFYTSK.I

Spot No.: **155**

Mascot score: **90** Sequence coverage %: **35**

NCBI accession No.: **gi| 225437683**

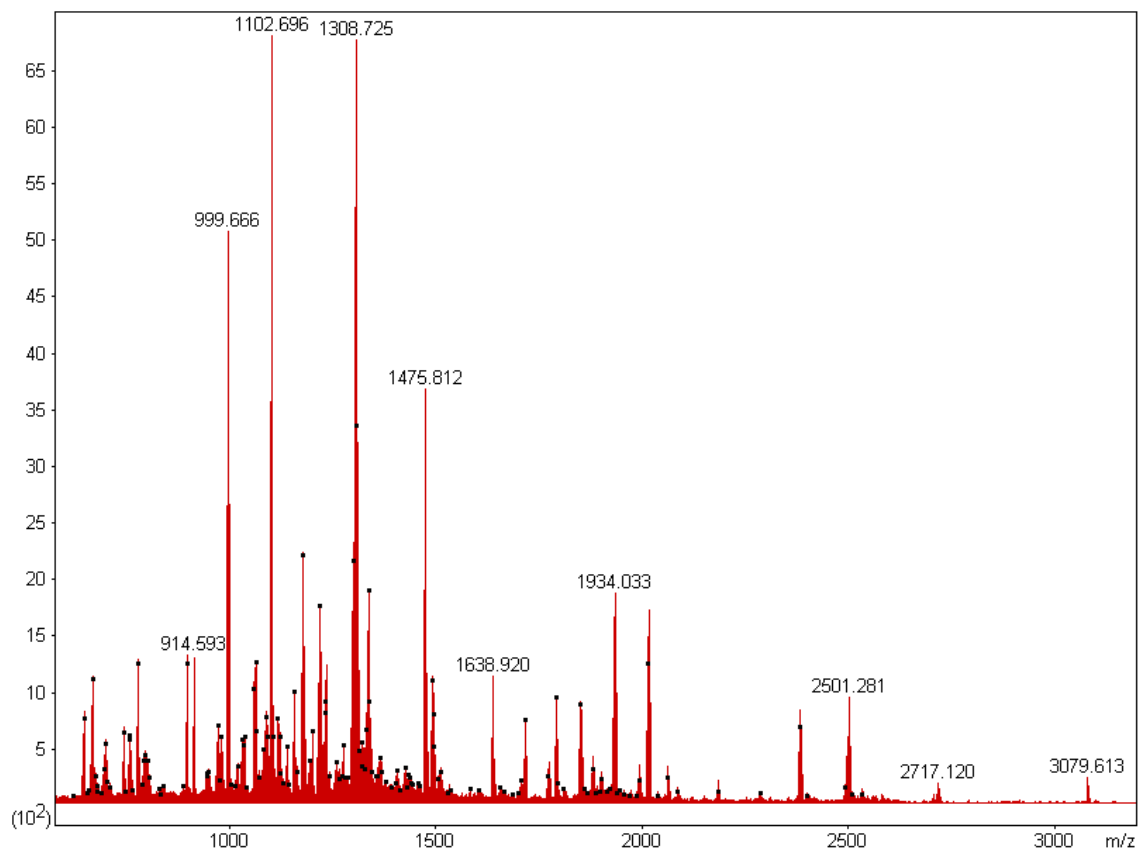
Matched peptides No.: **20**

Total peptides No.: **109**

Calculated Mr: **46872**

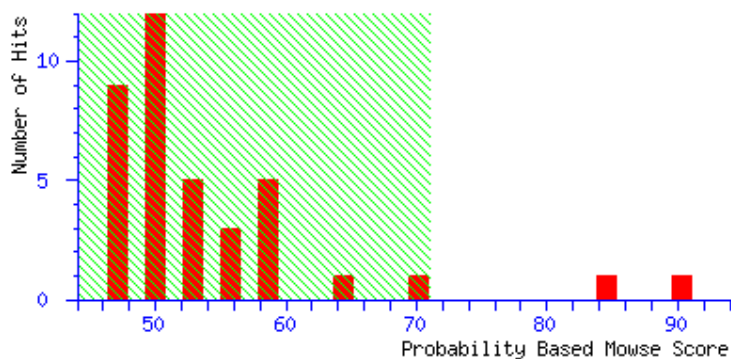
Calculated pI: **8.44**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Red**

1 MASVSIAPAS GLREPNQNTV GVDRLPDEM DMKIRDDKEM EDTVVDGNMT
51 ETGHIIIVTTI GGKNGQPKQT ISYMAERVVG HGSFGVVFQA **KCLETGETVA**
101 IKKVLQDKRY KNRELQTMRL LDHPNVVSLK HCFFSTTEKE ELYLNLVLEY
151 VPETVHRVIK HYNKMNQRMP MIYVKLYTYQ ICRALAYIHG GIGVCHRDIK
201 PQNLLVNPHT HQLKLCDFGS AKVLVKGELN ISYICSRYYR APELIFGATE
251 YTTAIDIWSA GCVLAELLG QPLFPGESGV DQLVEIIKVL **GTPTREEIKC**
301 MNPNYTEFKF PQIKAHPWHK IFHKRMPPEA **VDLVSRLLOQY** SPNLRSTALE
351 ALIHPFFDEL REPNTRLPNG RFLPPLFNFK PHELK**GVPVD MLVKLIPEHA**
401 RKQCAFLGL

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 13	1259.7054	1258.6981	1258.6703	22	0	-.MASVSIAPASGLR.E
1 - 13	1275.7016	1274.6943	1274.6653	23	0	-.MASVSIAPASGLR.E Oxidation (M)
14 - 24	1157.6387	1156.6314	1156.5473	73	0	R.EPQNGTVGVDR.L
25 - 33	1092.5663	1091.5590	1091.4627	88	0	R.LPDEMNDMK.I
25 - 33	1124.6722	1123.6649	1123.4525	189	0	R.LPDEMNDMK.I 2 Oxidation (M)
64 - 77	1638.9200	1637.9127	1637.7831	79	1	K.NGQPKQTISYMAER.V Oxidation (M)
92 - 102	1220.7883	1219.7810	1219.6118	139	0	K.CLETGETVAIK.K
104 - 109	758.5155	757.5083	757.4446	84	1	K.VLQDKR.Y
114 - 119	793.4953	792.4881	792.3800	136	0	R.ELQTMRL.L Oxidation (M)
120 - 130	1234.6665	1233.6592	1233.7081	-40	0	R.LLDHPNVVSLK.H
161 - 168	1090.5683	1089.5610	1089.5138	43	1	K.HYNKMNQR.M
165 - 175	1426.7696	1425.7623	1425.6931	49	1	K.MNQRMPMIYVK.L Oxidation (M)
165 - 175	1442.7402	1441.7329	1441.6880	31	1	K.MNQRMPMIYVK.L 2 Oxidation (M)
165 - 175	1458.7633	1457.7560	1457.6829	50	1	K.MNQRMPMIYVK.L 3 Oxidation (M)
169 - 175	897.4932	896.4859	896.4500	40	0	R.MPMIYVK.L Oxidation (M)
289 - 299	1242.6827	1241.6754	1241.6979	-18	1	K.VLGTPTREEIK.C
315 - 324	1300.5975	1299.5902	1299.6989	-84	1	K.AHPWHKIFHK.R
325 - 336	1369.7058	1368.6985	1368.7184	-14	1	K.RMPPEAVDLVSR.L
386 - 394	973.5891	972.5818	972.5314	52	0	K.GVPVDMLVK.L Oxidation (M)
386 - 401	1773.8973	1772.8900	1772.9971	-60	1	K.GVPVDMLVKLIPEHAR.K

Spot No.: **156**

Mascot score: **94** Sequence coverage %: **17**

NCBI accession No.: **gi| 159485986**

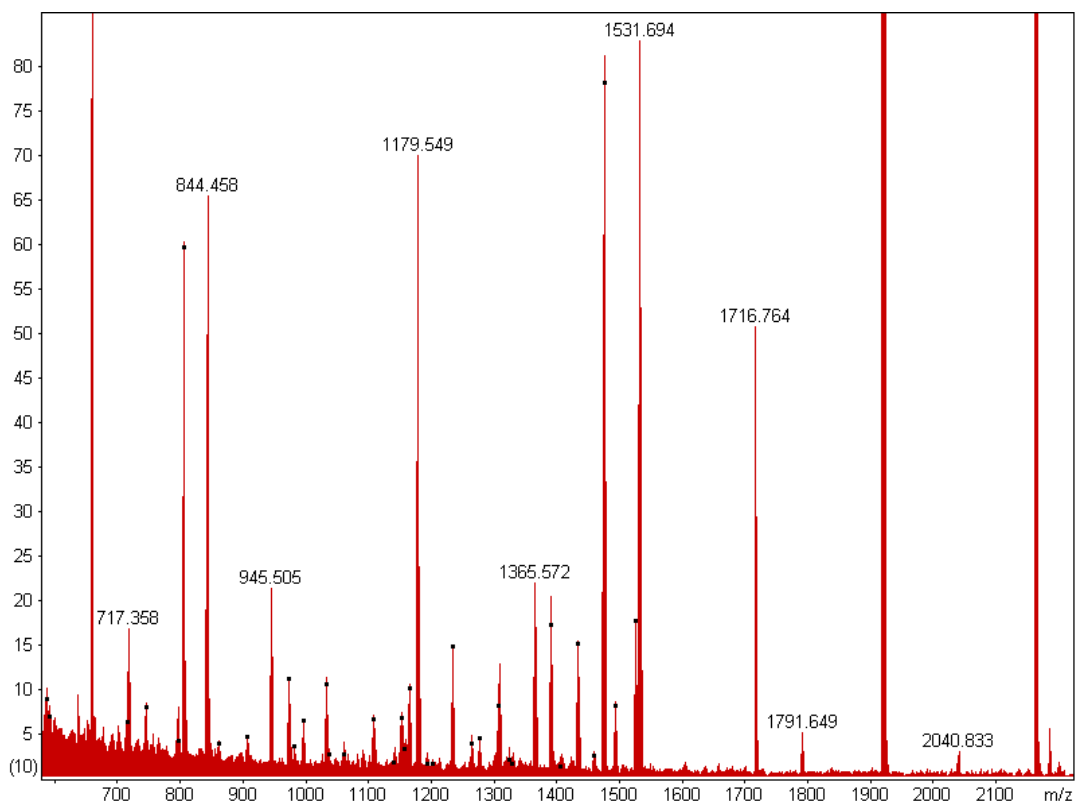
Matched peptides No.: **10**

Total peptides No.: **38**

Calculated Mr: **48240**

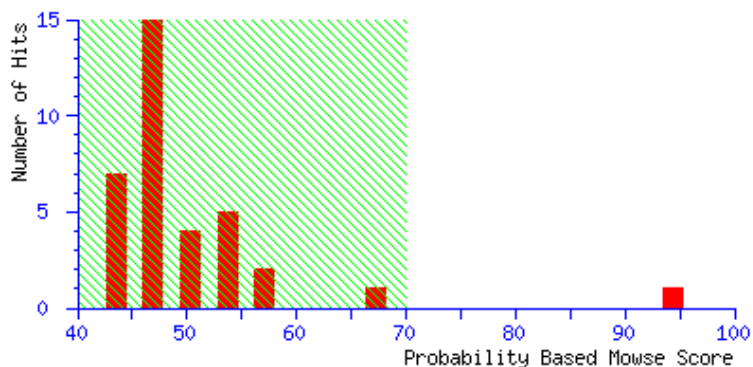
Calculated pI: **9.58**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MPKGYGPQRL** VSFTEAQASG GSSISTLGSP GSAVNHSSRM SQQOPLERVI
51 LGELSPEKKP LPAAAAALRA IERAHRAARA **ATRSARQQKD** GVVASPAQFP
101 VLHDGLDLFR ALSGRWVPGP WGGPDEDQNM DQPSAGGSGS GSPRAAAAAA
151 DVAAVADTAG QAAAAGAGTG QATAMNDGVT QTSR**QNTEDG** **SGAEARRGTV**
201 SASGGASKRA SGTGAGSKAT **EMSGLASVEE** **APGAQEVDRA** AAAAAAEEAQAA
251 AAEEAEEAADA KAAAAAQAAA **AAKSKAVAVA** **AKAAEAEEAAA** AAAAAAETAAA
301 AEKARLERVT MPDSSAR**VTG** **MPGGDGLSEW** **LAARLRPAIP** KPKIPKAPAT
351 TAFLAAAAAAA ASTGVTTDST VQAPANAPAA SLRPCGPGAS ALQAAAA**AGV**
401 **QER**FLPAVAP ASAAKPSLHI AAPRGREALL ARGPGVGLNM VAGTGTTWSG
451 GYGYGSSSFG AGSYGGSGYG GRAGARPTGR MGSADSULA YGREKGGV

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence	
1 - 9	1033.4805	1032.4732	1032.5175	-43	1	-.MPKGYGPQR.L	
4 - 9	677.3046	676.2974	676.3293	-47	0	K.GYGPQR.L	
77 - 83	716.3572	715.3499	715.4089	-82	1	R.AARAATR.S	
84 - 89	717.3576	716.3503	716.3929	-59	1	R.SARQK.D	
185 - 196	1234.5882	1233.5809	1233.5222	48	0	R.QNTEDGSGAEAR.R	
185 - 197	1390.6256	1389.6183	1389.6233	-4	1	R.QNTEDGSGAEARR.G	
219 - 239	2163.0287	2162.0214	2161.9797	19	0	K.ATEMSGLASVEEAPGAQEVDRA	Oxidation (M)
274 - 282	844.4575	843.4502	843.5178	-80	1	K.SKAVAVAAK.A	
318 - 334	1716.7641	1715.7568	1715.8301	-43	0	R.VTGMPGGDGLSEWLAAR.L	
398 - 403	659.3703	658.3630	658.3398	35	0	R.AGVQER.F	

Spot No.: **157**

Mascot score: **98**

Sequence coverage %: **49**

NCBI accession No.: **gi| 312281705**

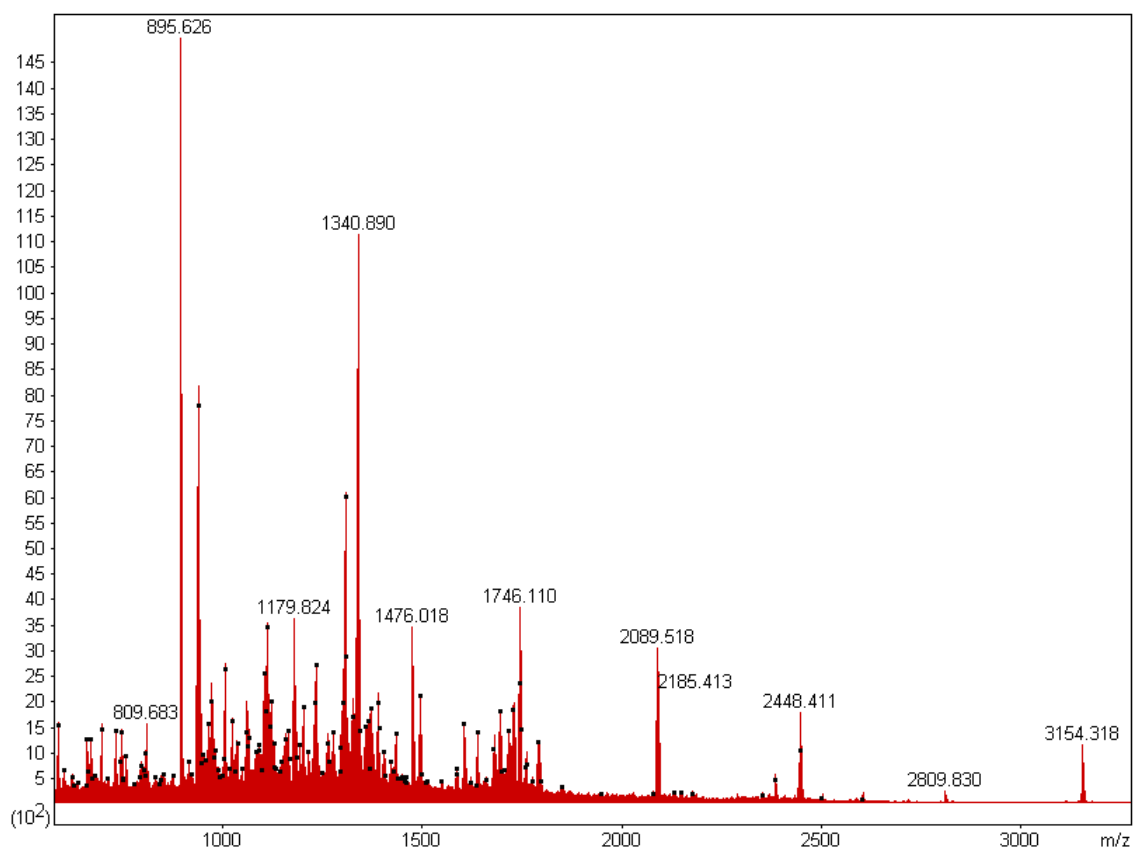
Matched peptides No.: **25**

Total peptides No.: **150**

Calculated Mr: **48202**

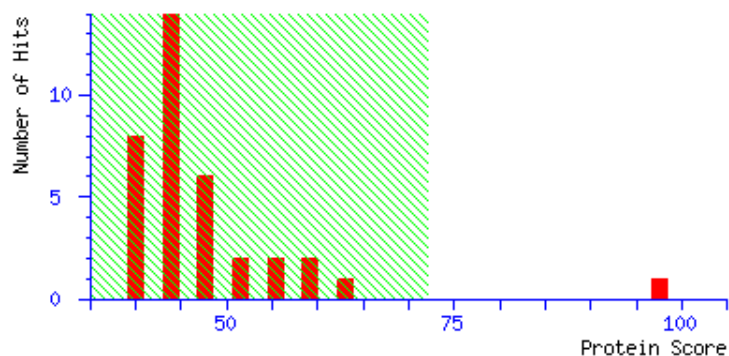
Calculated pI: **6.08**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAAAVSTVGA INRAPLSLNG SGAGAASVPA TTFLGKKVVT TSRFAQSNKK
51 SSGSFKVVAV KEDKQTDGDR WKGLAYDMSD DQQDITRGKG LVDSVFAQPM
101 GTGTHHAVLS SYEYISQGLR QYNLDNMDG FYIAPAFMDK LVVHITKNFL
151 TLPNIKVPLI LGIWGGKQG KSFQCELVMA KMGINPIMMS AGELESGNAG
201 EPAKLIRQRY REAADMIKKG KMCCLFINDL DAGAGRMGGI TQYTVNNQMV
251 NATLMNIADN PTNVQLPGMY NKEDNARVPI IVTGNDFSTL YAPLIRDGRM
301 EKFYWAPTRE DRIGVCKGIF RTDKINDEDI VTLVDQFPQG SIDFFGALRA
351 RVYDDEVRRK VEGLGVEKIG KRLVNSREGP PVFEQPEMIL EKLMEYGNML
401 VMEQENVKRV QLADQYLNEA ALGDANADAI DRGIFYG

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
65 - 72	1005.6833	1004.6760	1004.4676	208	1	K.QTDGDRWK.G
73 - 87	1744.0665	1743.0592	1742.7417	182	0	K.GLAYDMSDDQQDITR.G Oxidation (M)
121 - 140	2384.3450	2383.3377	2383.0323	128	0	R.QYNLDNMDGQFYIAPAFMDK.L
141 - 147	809.6827	808.6755	808.5171	196	0	K.LVVHITK.N
148 - 156	1059.7919	1058.7846	1058.6124	163	0	K.NFLTLPNIK.V
182 - 204	2352.4496	2351.4423	2351.0443	169	0	K.MGINPIMMSAGELESGNAGEPAK.L 3 Oxidation (M)
210 - 218	1096.7576	1095.7503	1095.5382	194	1	R.YREADMIC.K
210 - 218	1112.7508	1111.7435	1111.5332	189	1	R.YREADMIC.K Oxidation (M)
212 - 218	793.5775	792.5702	792.3687	254	0	R.EADMIC.K Oxidation (M)
222 - 236	1729.0484	1728.0411	1727.7430	173	0	K.MCCLFINDLDAGAGR.M Oxidation (M)
278 - 296	2089.5182	2088.5109	2088.1619	167	0	R.VPIIVTGNDFSTLYAPLIR.D
297 - 302	751.5327	750.5254	750.3330	256	1	R.DGRMEK.F Oxidation (M)
300 - 309	1344.8954	1343.8881	1343.6332	190	1	R.MEKFYWAPTR.E Oxidation (M)
303 - 309	940.6795	939.6722	939.4603	226	0	K.FYWAPTR.E
303 - 312	1340.8900	1339.8827	1339.6309	188	1	K.FYWAPTREDR.I
322 - 349	3154.3180	3153.3107	3152.5666	236	1	R.TDKINDEDIVTLVDQFPQGSIDFFGALR.A
325 - 349	2809.8298	2808.8225	2808.3970	152	0	K.INDEDIVTLVDQFPQGSIDFFGALR.A
350 - 358	1122.7735	1121.7662	1121.5465	196	1	R.ARVYDDEV.R
352 - 358	895.6260	894.6187	894.4083	235	0	R.VYDDEV.R
352 - 359	1023.7215	1022.7142	1022.5033	206	1	R.VYDDEV.RK.F
359 - 368	1105.8171	1104.8098	1104.6179	174	1	R.KFVEGLGVEK.I
360 - 368	977.7059	976.6986	976.5229	180	0	K.FVEGLGVEK.I
372 - 377	744.5939	743.5867	743.4402	197	1	K.RLVNSR.E
409 - 432	2602.7464	2601.7391	2601.2783	177	1	K.RVQLADQYLNEAALGDANADAIDR.G
410 - 432	2446.5957	2445.5884	2445.1772	168	0	R.VQLADQYLNEAALGDANADAIDR.G

Spot No.: **158**

Mascot score: **82**

Sequence coverage %: **54**

NCBI accession No.: **gi| 223515525**

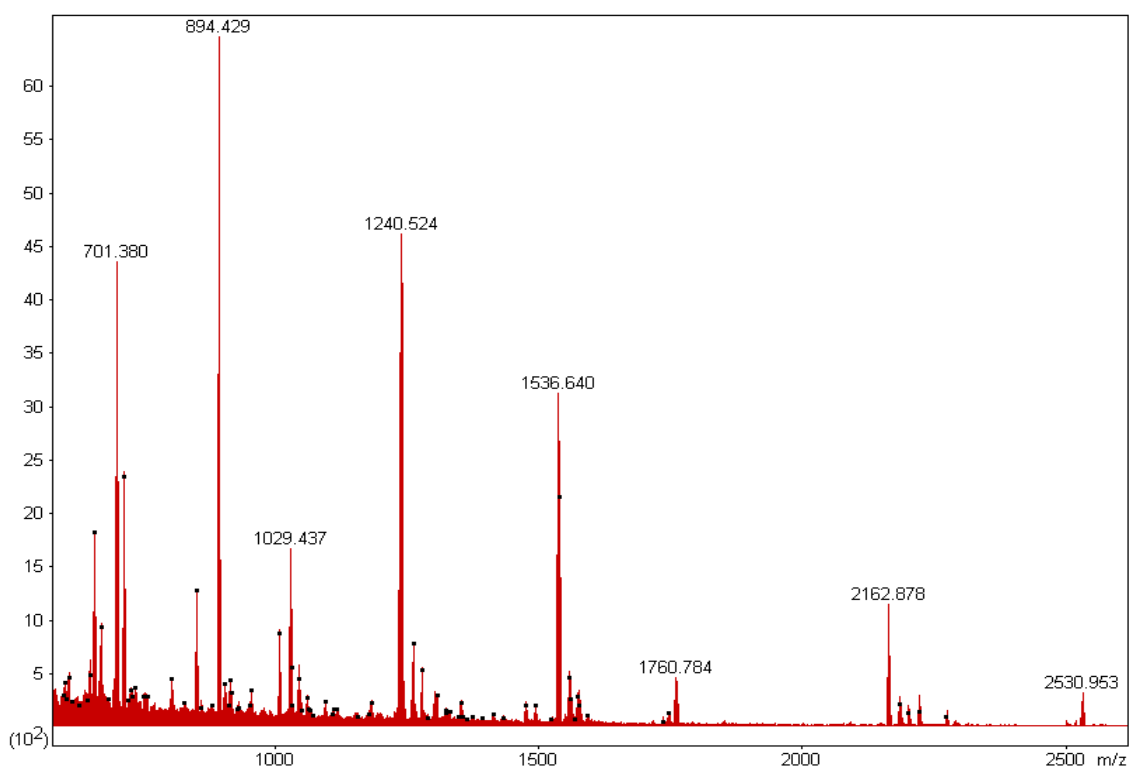
Matched peptides No.: **9**

Total peptides No.: **55**

Calculated Mr: **17518**

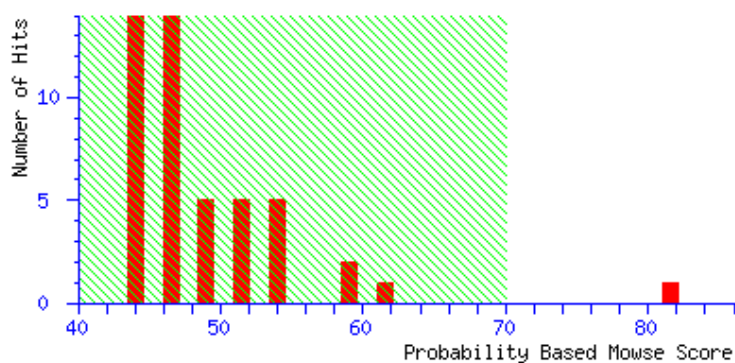
Calculated pI: **10.83**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 AIVVRR**QAEV LAADGDHVR**I **QLDGRHAR**LR ETLVAELR**QR GA**AE**QLHDA**
51 **ARLRQEQHPH** HHHLDFV**FELD RIGPRQPHRA LHP**RG**AEVQR AHAF**EF**GDRG**
101 **RRVAGPGEAG IPGVR**HYGND HAYWTGCQAA TVWPFFSVGL KRHSR**SAASA**
151 **AWSRIA**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
6 - 19	1536.6396	1535.6323	1535.7804	-96	1	R.RQAEVLAADGDHVR.I
20 - 25	701.3802	700.3729	700.3868	-20	0	R.IQLDGR.H
20 - 28	1065.4357	1064.4284	1064.5839	-146	1	R.IQLDGRHAR.L
39 - 52	1493.6025	1492.5952	1492.7495	-103	1	R.QRGAAEQLHDAAR.L
76 - 84	1111.4633	1110.4560	1110.6159	-144	1	R.QPHRALHPR.G
85 - 90	659.3662	658.3589	658.3398	29	0	R.GAEVQR.A
91 - 101	1262.5222	1261.5149	1261.5952	-64	1	R.AHAFEFGDRGR.R
103 - 115	1179.4846	1178.4773	1178.6408	-139	0	R.VAGPGEAGIPGVR.H
146 - 154	906.4189	905.4116	905.4355	-26	0	R.SAASAWSR.I

Spot No.: **159**

Mascot score: **96** Sequence coverage %: **27**

NCBI accession No.: **gi| 166406194**

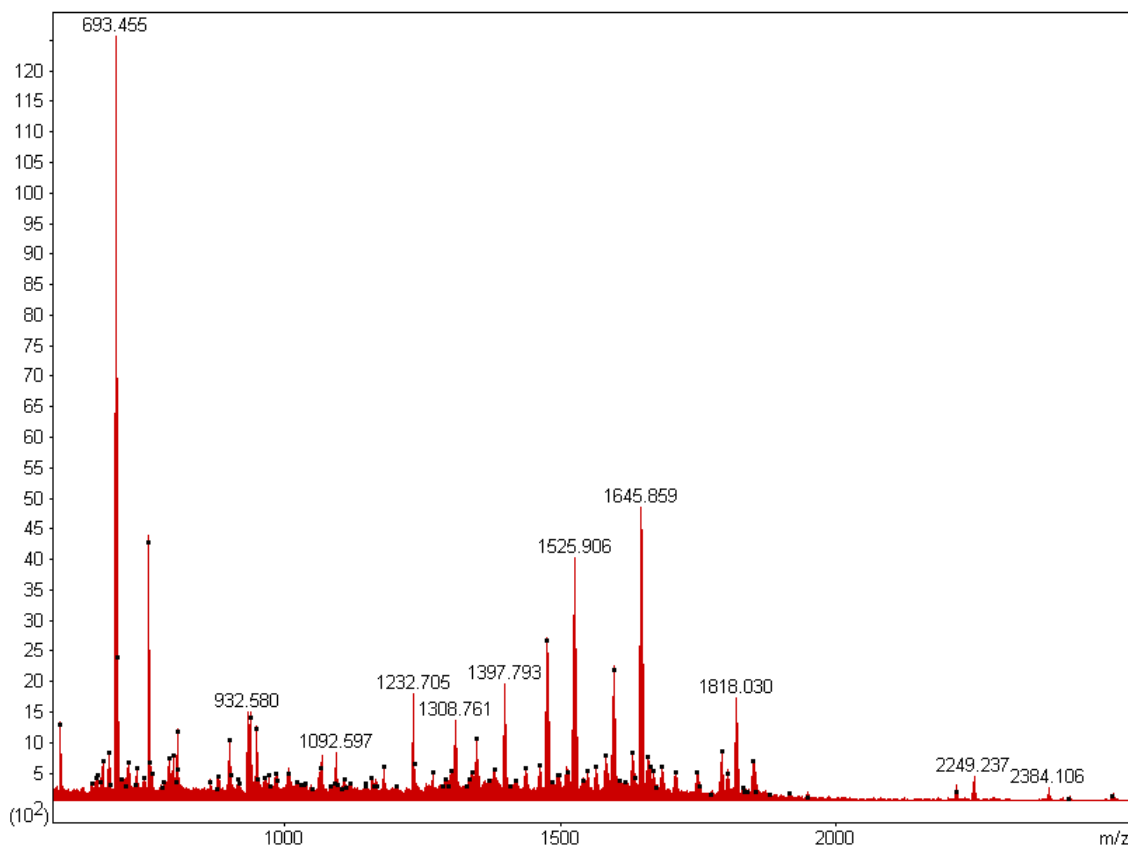
Matched peptides No.: **15**

Total peptides No.: **119**

Calculated Mr: **47715**

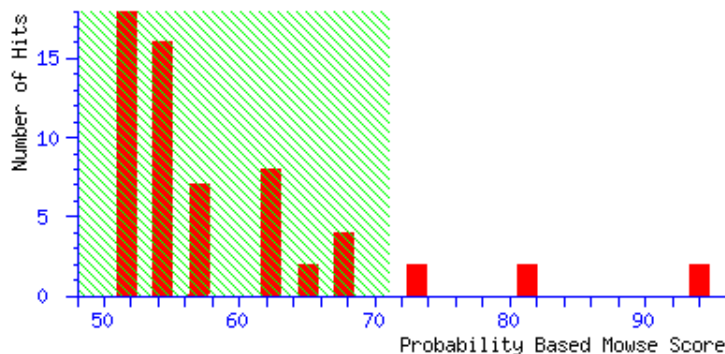
Calculated pI: **5.84**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAQILAASPT CQMRL**TKPSS** **IASSK**LWNSV VLKQKEQSSS KVRSEFKVMAL
51 QSDNSTINRV **ESLLNLDTKP** **FTDR**IIAEYI WIGGSGIDLR SKSR**TLEKPV**
101 **EDPSEL**PKWN YDGSSTGQAP GEDSEVILYP QAIFRDPFRG GNMILVICDT
151 YTPAGEPIPT NKRRA**AAEIF** **SNKKV**NEEIP WFGIEQEYTL LQPNVNWPLG
201 WPVGAYPGPQ GPYYCGVGAE KSWGR**DISDA** **HYK**ACLYAGI NISGTNGEVM
251 PGQWEFQVGP SVGIEAGDHV WCAR**YLLER**I TEQAGVVLTL DPKPIEGDWN
301 GAGCHTNYST KSMREDGGFE VIKK**AILNLS** **LRHMEHISAY** **GEGNERR**LG
351 **KHETASIDQF** **SWG**VANRGCS IRVGR**DETEK** **GKGYLED**RRP ASNMDPYIVT
401 SLLAETLLW EPTLEAEALA AOKLSLKV

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
15 - 25	1118.6023	1117.5950	1117.6343	-35	0	R.LTKPSS IASSK .L
60 - 74	1748.0518	1747.0445	1746.9152	74	0	R.VESLLNLDTKP FTDR .I
95 - 108	1581.8891	1580.8818	1580.8297	33	0	R.TLEK PVEDPSEL PK.W
166 - 173	879.4962	878.4889	878.4498	45	0	R. AAEIF SNK.K
226 - 233	948.5132	947.5059	947.4348	75	0	R. DISDA HYK.A
275 - 279	693.4549	692.4477	692.3857	89	0	R. YLLER .I
325 - 332	899.6318	898.6245	898.5600	72	0	K. AILNLS L.R.H
333 - 346	1629.8539	1628.8466	1628.7001	90	0	R. HMEHISAY GEGNER.R
333 - 346	1645.8592	1644.8519	1644.6950	95	0	R. HMEHISAY GEGNER.R Oxidation (M)
333 - 347	1801.9793	1800.9720	1800.7961	98	1	R. HMEHISAY GEGNER.L Oxidation (M)
348 - 367	2217.2330	2216.2257	2216.0974	58	1	R.LTG KHETASIDQF SWG VANR .G
352 - 367	1818.0300	1817.0227	1816.8493	95	0	K. HETASIDQF SWG VANR .G
373 - 379	804.4766	803.4693	803.4137	69	1	R.VGR DETEK .K
381 - 388	937.5547	936.5474	936.4665	86	1	K. GKGYLED R.R
383 - 388	752.4234	751.4162	751.3501	88	0	K. GYLED R.R

Spot No.: **160**

Mascot score: **120** Sequence coverage %: **50**

NCBI accession No.: **gi| 312281705**

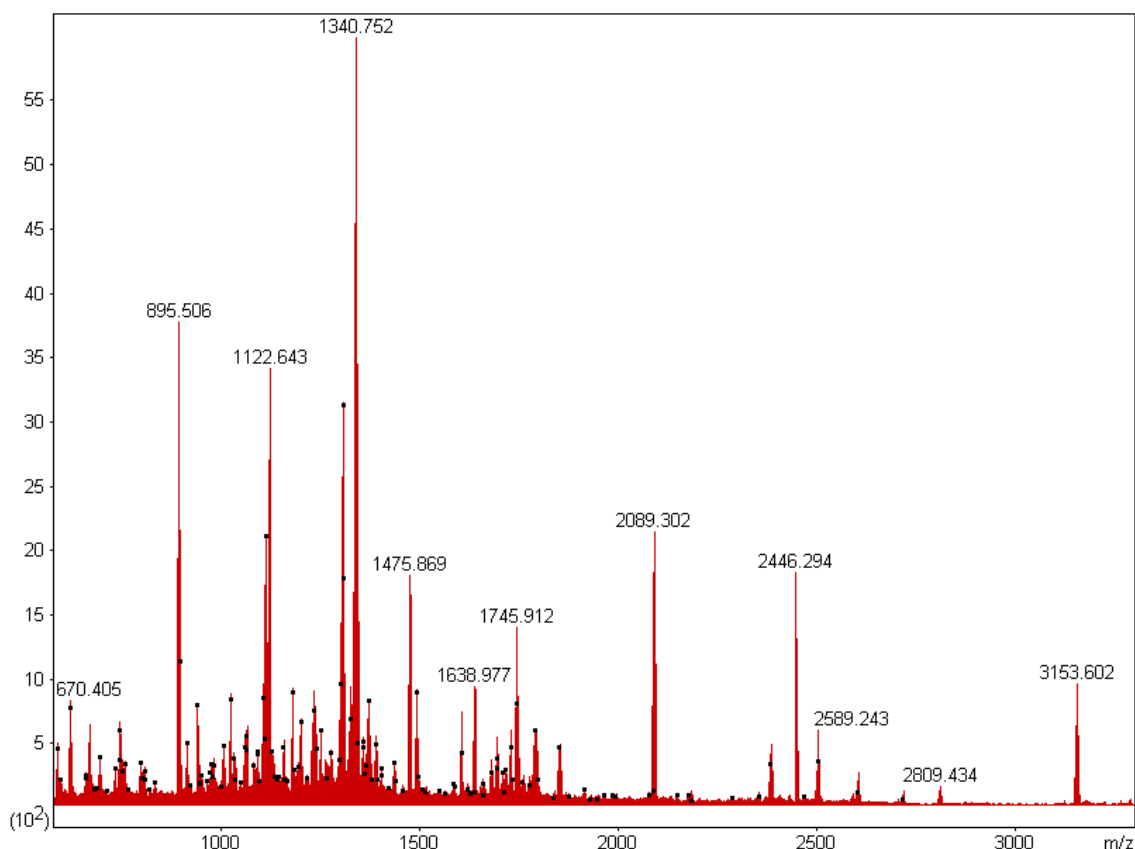
Matched peptides No.: **27**

Total peptides No.: **147**

Calculated Mr: **48202**

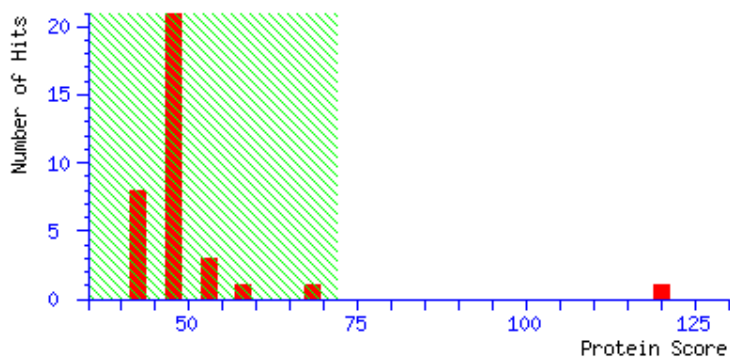
Calculated pI: **6.08**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAAAVSTVGA INRAPLSLNG SGAGAASVPA TTFLGKKVVT TSRFAQSNKK
 51 **SSGSFKVVAV KEDKQTDGDR WKGLAYDMSD DQQDITRGKG LVDSVFAQPM**
 101 GTGTHHAVLS SYEYISQGLR **QYNLDNMDG FYIAPAFMDK LVVHITKNFL**
 151 TLPNIKVPLI LGIWGGKGGQ KSFQCELVMA **KMGINPIMMS AGELESGNAG**
 201 **EPAKLIRQRY REAADMIKKG KCCLFINDL DAGAGRMGGT TQYTVNNQMV**
 251 NATLMNIADN PTNVQLPGMY NKEDNARVPI **IVTGNDFSTL YAPLIRDGRM**
 301 **EKFYWAPTRE DRIGVCKGIF RTDKINDEDI VTLVDQFPQG SIDFFGALRA**
 351 **RVYDDEVRKF VEGGLGVEKIG KRLVNSREGP PVFEQPEMTL EKLMEYGNML**
 401 **VMEQENVKRV QLADQYLNEA ALGDANADAI DRGTFYFG**

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
51 - 61	1108.5867	1107.5794	1107.6288	-45	1 K.SSGSFKVVAVK.E
65 - 72	1005.5475	1004.5402	1004.4676	72	1 K.QTDGDRWK.G
73 - 87	1743.8751	1742.8678	1742.7417	72	0 K.GLAYDMSDDQQDITR.G Oxidation (M)
121 - 140	2384.0544	2383.0471	2383.0323	6	0 R.QYNLDNMDGFYIAPAFMDK.L
141 - 147	809.5610	808.5538	808.5171	45	0 K.LVVHITK.N
182 - 204	2352.1759	2351.1686	2351.0443	53	0 K.MGINPIMMSAGELESGNAGEPAK.L 3 Oxidation (M)
208 - 211	622.3981	621.3908	621.3347	90	1 R.QRYR.E
210 - 218	1112.6107	1111.6034	1111.5332	63	1 R.YREADMIC.K Oxidation (M)
222 - 236	1712.8980	1711.8907	1711.7480	83	0 K.MCCLFINDLDAGAGR.M
222 - 236	1728.8831	1727.8758	1727.7430	77	0 K.MCCLFINDLDAGAGR.M Oxidation (M)
278 - 296	2089.3015	2088.2942	2088.1619	63	0 R.VPIIVTGNDFSTLYAPLIR.D
278 - 296	2089.7555	2088.7482	2088.1619	281	0 R.VPIIVTGNDFSTLYAPLIR.D
297 - 302	751.4040	750.3967	750.3330	85	1 R.DGRMEK.F Oxidation (M)
300 - 309	1344.7363	1343.7290	1343.6332	71	1 R.MEKFYWAPTR.E Oxidation (M)
303 - 309	940.5599	939.5526	939.4603	98	0 K.FYWAPTR.E
303 - 312	1340.7522	1339.7449	1339.6309	85	1 K.FYWAPTREDR.I
322 - 349	3153.6023	3152.5950	3152.5666	9	1 R.TDKINDEDIVTLVDQFPQSIDFFGALR.A
325 - 349	2809.4342	2808.4269	2808.3970	11	0 K.INDEDIVTLVDQFPQSIDFFGALR.A
350 - 358	1122.6428	1121.6355	1121.5465	79	1 R.ARVDDEVR.K
352 - 358	895.5063	894.4990	894.4083	101	0 R.VYDDEVR.K
352 - 359	1023.5947	1022.5874	1022.5033	82	1 R.VYDDEVRK.F
359 - 368	1105.6777	1104.6704	1104.6179	48	1 R.KFVEGLGVEK.I
360 - 368	977.5640	976.5567	976.5229	35	0 K.FVEGLGVEK.I
372 - 377	744.5007	743.4934	743.4402	72	1 K.RLVNSR.E
373 - 377	588.4139	587.4066	587.3391	115	0 R.LVNSR.E
409 - 432	2602.3869	2601.3796	2601.2783	39	1 K.RVQLADQYLNEAALGDANADAIDR.G
410 - 432	2446.2937	2445.2864	2445.1772	45	0 R.VQLADQYLNEAALGDANADAIDR.G

Spot No.: **161**

Mascot score: **84** Sequence coverage %: **15**

NCBI accession No.: **gi| 116060520**

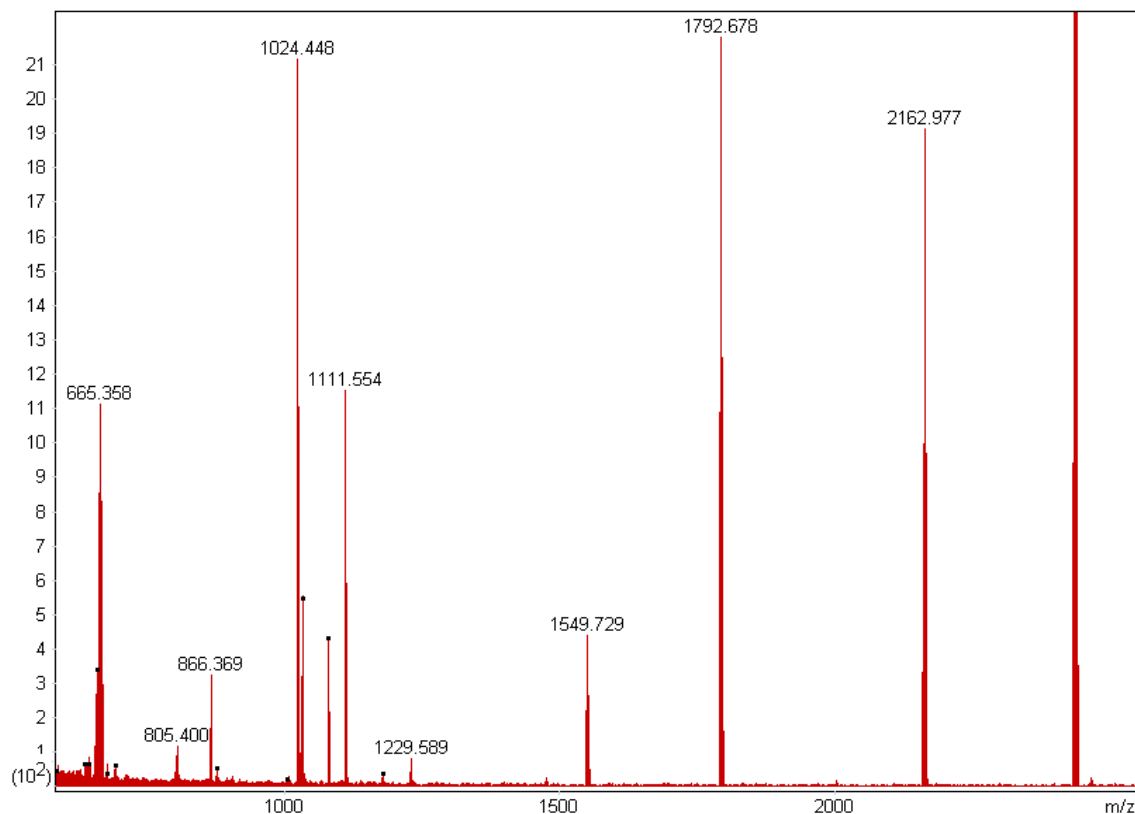
Matched peptides No.: **7**

Total peptides No.: **21**

Calculated Mr: **30727**

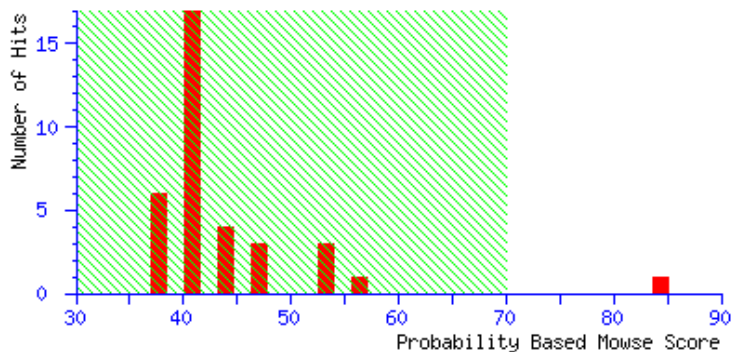
Calculated pI: **5.06**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAASASSLAL SSFNPKSLPF GVSRLPASVSL LSPSLSFKLN SDSVSFSIAA
51 KWNTPASRFV RNVAITSEFE VEEDGFADVA PPKE**EQSF SAD** LKLFVGNLPP
101 NVDSAQLAQL FESAGNVEMV EVIYDKITGR SRGFGFVTMS SVSEVEAAAQ
151 QFNGYELDGR PLR**VNAGPPP** **PKREDFSRG** PRSSFSSSGS GYGGGGSSGA
201 GSGNRVYVGN LSWGVDDMAL ESLFSEQGKV VEAR**VIYDRD** **SGRSKGF**GFV
251 TYDSSQEVQN AIKSLDGADL DGRQIR**VSEA** **EARPPRRQY**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
84 - 92	1024.4478	1023.4405	1023.4873	-46	0	K.EQSF SADLK.L
164 - 172	876.4655	875.4582	875.4865	-32	0	R.VNAGPPPK.R
164 - 173	1032.5032	1031.4959	1031.5876	-89	1	R.VNAGPPPKR.E
173 - 179	866.3694	865.3622	865.4042	-49	1	K.REDFSR.G
235 - 239	665.3575	664.3502	664.3544	-6	0	R.VIYDR.D
235 - 243	1080.5080	1079.5007	1079.5360	-33	1	R.VIYDRD SGR.S
277 - 286	1111.5543	1110.5470	1110.5781	-28	0	R.VSEAEARPPR.R

Spot No.: **162**

Mascot score: **93** Sequence coverage %: **33**

NCBI accession No.: **gi| 15240578**

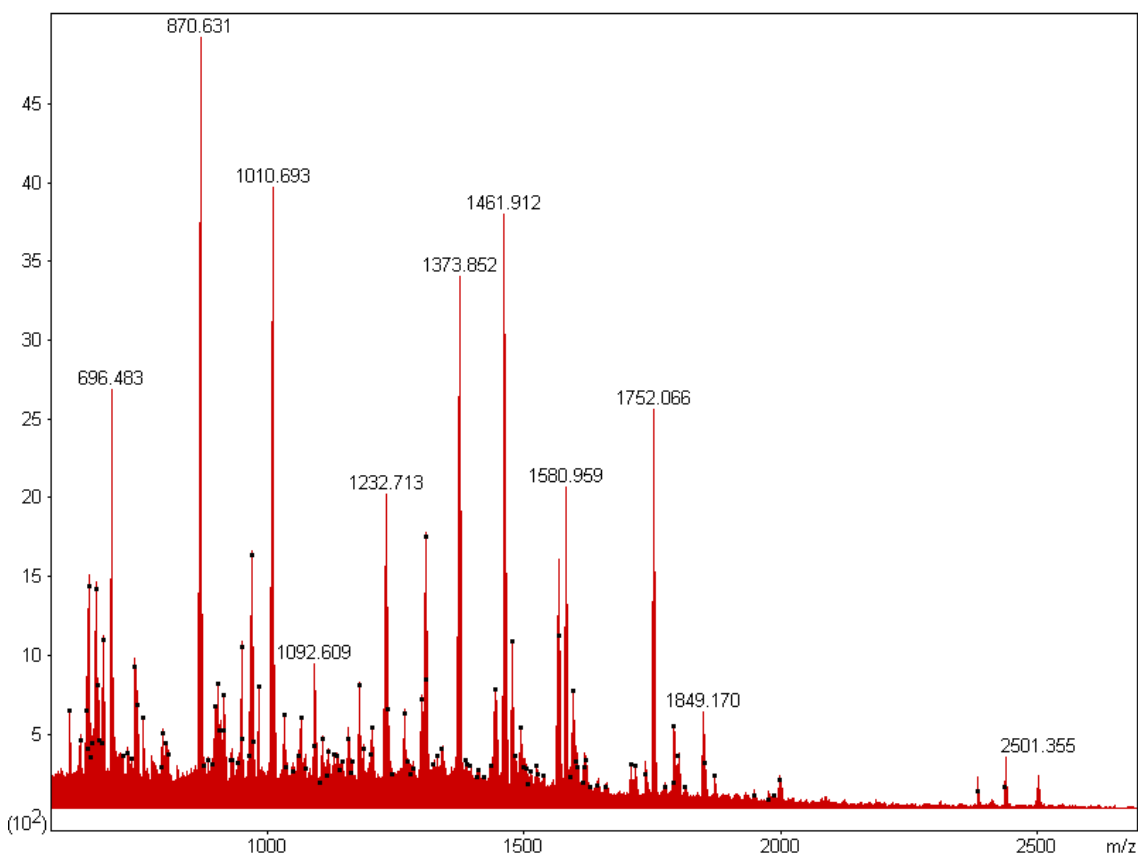
Matched peptides No.: **26**

Total peptides No.: **129**

Calculated Mr: **77064**

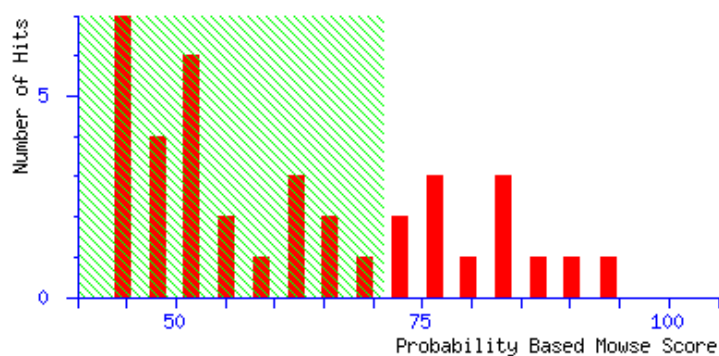
Calculated pI: **5.17**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASSAAQIHI LGGIGFPTSS SSSSTKNLDN KTNSIPRSVF FGNRTSPFTT
51 PTSAFRLMGR RNMNASRYTV GPVRVVNEKV VGIDLGTTNS AVAAAMEGGKP
101 TIVTNAEGQR TTPSVVAYTK SKDRLVGVQIA KRQAVVNPEN TFFSVKRF IG
151 RRMNEVAEES KQVSYRVIKD ENGNVKLDCP AIGKQFAAEE ISAQVLRKLV
201 DDASRFLNDK VTKAVITVPA YFNDSQRTAT KDAGR IAGLE VLRIINEPTA
251 ASLAYGFERK SNETILVFDL GGGTFDVSVL EVGDGVFEVL STSGDTHLGG
301 DDFDKR VVDW LASTFKDEG IDLLKDKQAL QRLTEAAEKA KIELSSLTQT
351 NMSLPFITAT ADGPKHIETT LTRGKFEELC SDLLDRVR TP VENSLRDAKL
401 SFKDIDEVIL VGGSTRIPAV QDLVRKLTGK EPNVSVNPDE VVALGAAVQA
451 GVLSGDVSDI VLLDVTPLSL GLETLGGVMT KIIPRNTTLP TSK SEVFSTA
501 ADGQTSVEIN VLQGEREFVR DNKSIGSFRL DGIPPAPRGV PQIEVKFDID
551 ANGILSVSAS DKGTGKKQDI TITGASTLPK DEVD TMVQEA ERFAKEDKEK
601 RDAIDTKNQA DSVVYQTEKQ LKELGEKIPG PVKEKVEAKL QELKEK IASG
651 STQEIKDTMA ALNQEVMQIG QSLYNQPQPG GADSPPGGEA SSSSDTSSSA
701 KGGDNGGDVI DADFTDSN

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
125 - 131	728.4366	727.4293	727.4592	-41	0	R.LVGQIAK.R
133 - 147	1736.0425	1735.0352	1734.9053	75	1	R.QAVVNPENTFFSVKR.F
148 - 152	648.4318	647.4245	647.3867	58	1	R.FIGRR.M
153 - 161	1036.5963	1035.5890	1035.4542	130	0	R.MNEVAEESK.Q
162 - 166	652.4084	651.4011	651.3340	103	0	K.QVSYR.V
167 - 176	1115.6327	1114.6254	1114.5982	24	1	R.VIKDENGNVK.L
170 - 184	1629.8887	1628.8814	1628.7828	61	1	K.DENGNVKLDCPAIGK.Q
185 - 197	1461.9123	1460.9050	1460.7623	98	0	K.QFAAEEISAQVLR.K
185 - 198	1589.9552	1588.9479	1588.8573	57	1	K.QFAAEEISAQVLRK.L
198 - 205	903.5664	902.5591	902.4821	85	1	R.KLVDDASR.F
214 - 227	1580.9592	1579.9519	1579.7995	97	0	K.AVITVPAYFNDSQR.T
236 - 243	870.6306	869.6233	869.5334	103	0	R.IAGLEVLR.I
244 - 259	1752.0660	1751.0587	1750.8890	97	0	R.IINEPTAASLAYGFER.K
307 - 316	1165.6594	1164.6521	1164.6179	29	0	R.VVDWLASTFK.K
318 - 327	1145.6543	1144.6470	1144.5975	43	1	K.DEGIDLLKDK.Q
328 - 332	615.4082	614.4009	614.3500	83	0	K.QALQR.L
366 - 373	970.6167	969.6094	969.5243	88	0	K.HIETTLTR.G
389 - 396	915.5648	914.5575	914.4821	82	0	R.TPVENSLR.D
400 - 416	1849.1702	1848.1629	1847.9993	89	1	K.LSFKDIDEVILVGGSTR.I
404 - 416	1373.8522	1372.8449	1372.7198	91	0	K.DIDEVILVGGSTR.I
417 - 425	1010.6926	1009.6853	1009.5920	92	0	R.IPAVQDLVR.K
494 - 516	2437.3228	2436.3155	2436.1769	57	0	K.SEVFSTAADGQTSVEINVLQGER.E
517 - 523	907.5413	906.5340	906.4559	86	1	R.EFVRDNK.S
524 - 529	666.4117	665.4045	665.3497	82	0	K.SIGSFR.L
581 - 592	1421.7814	1420.7741	1420.6140	113	0	K.DEVDTMVQEAER.F
647 - 656	1033.6062	1032.5989	1032.5451	52	0	K.IASGSTQEIK.D

Spot No.: **163**

Mascot score: **110** Sequence coverage %: **31**

NCBI accession No.: **gi| 116059538**

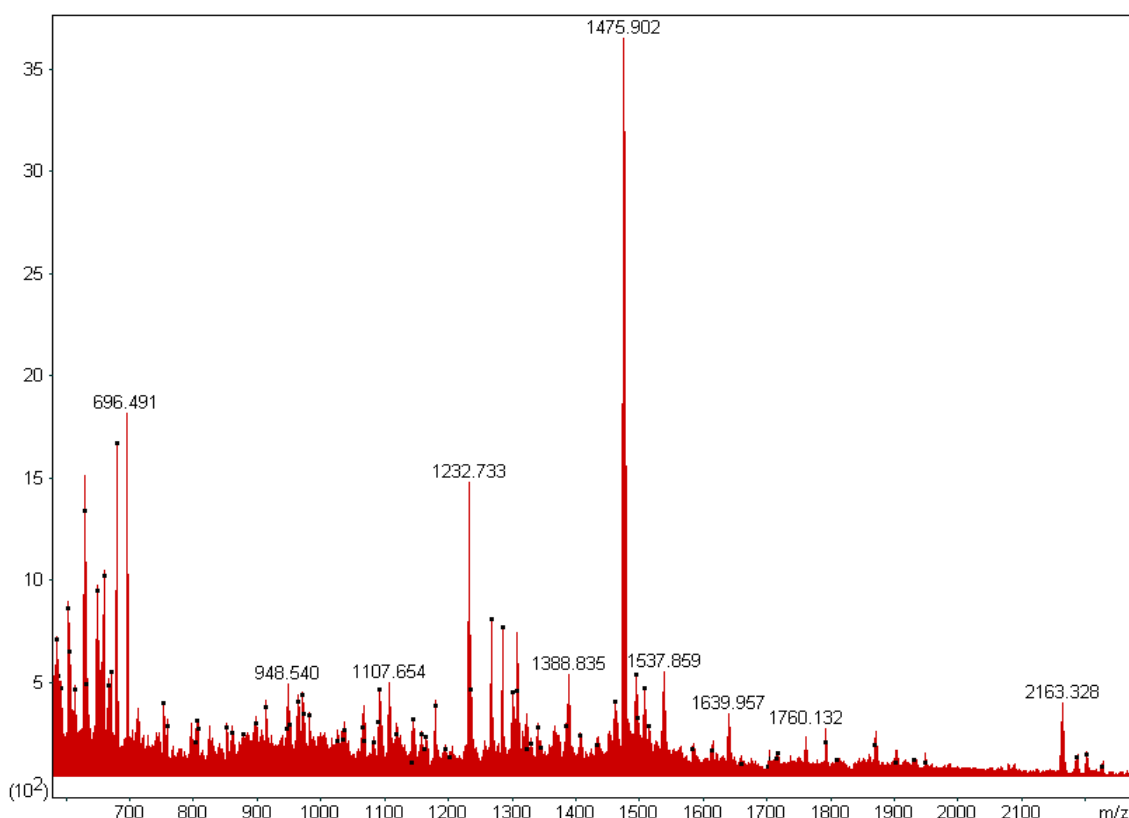
Matched peptides No.: **23**

Total peptides No.: **87**

Calculated Mr: **62851**

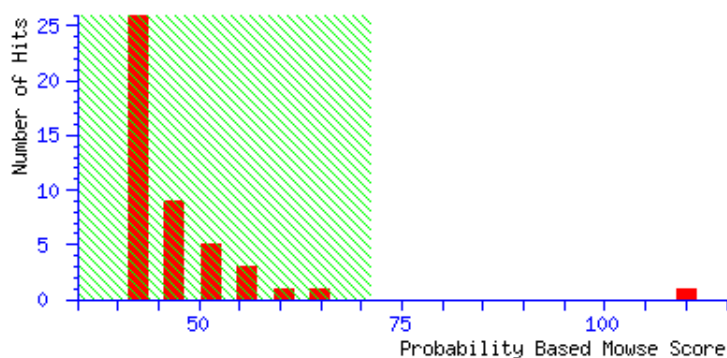
Calculated pI: **6.32**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MRHDEELRAR FPDAAALDDST MVDDVSIALV RAAIK**ATTSG** RGTVACAARR
51 LETDADRALA AADEKDSARS **SISADGSVSR** EAHELAMLTA AIARSGIRTK
101 GDVSYRIVCA SADSRTLAQ SSTAIEQCSM TVRDANCCVD VAGWTLCCFFT
151 ATGWEGEGEN DLEAALQDAL DADK**VFNQLG** KRTRTVVHRR SRL**KHEGSPT**
201 TSNGDGASRV **ALRR**MNSAEA GESSELEDD SFNGSRERET **SSVERV**GSPS
251 LDDCTNIVSD ING**RELNIGE** **KVSSGSFGAL** **YRGTYSTRSD** **DGTLNRRVVA**
301 LKYLKSVDNG**** **GNF**DARRDF **QEV**RILRKIN HENVIGYVGS VIEGQDLCI
351 TEFAGNGNLI DYMAAKNRPF GTREVAR**ITL** **GIARGMNF** **IH** **EGLKMMHR**DL
401 KASNVLLDDS LTPK**ICDFGL** **ARVM**AKNPGQ MTAETGTYRW MAPEVIGHMQ
451 YDYSADVVSF AILFWELTG GQVPFAELNP LQAAVAVVQR **GMRPEIPRNC**
501 DPYLVEIMRK CWKTAPSARP TFRVLVAMFE AYLDVLPERE **QAE**EKKQRPF
551 SKFFRWKQKK KSCN

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
3 - 10	1025.5611	1024.5538	1024.5050	48	1	R.HDEELRAR.F
36 - 41	592.2698	591.2625	591.2976	-59	0	K.ATTSGR.G
70 - 80	1065.6386	1064.6313	1064.5098	114	0	R.SSISADGSVSR.E
101 - 106	696.4911	695.4839	695.3239	130	0	K.GDVSYR.I
175 - 181	805.4892	804.4820	804.4494	41	0	K.VFNQLGK.R
193 - 209	1713.9145	1712.9072	1712.8078	58	1	R.LKHEGSPTTSNGDGASR.V
210 - 214	614.2993	613.2921	613.4024	-180	1	R.VALRR.M
237 - 245	1092.6358	1091.6285	1091.5207	99	1	R.ERETSSVER.V
239 - 245	807.5043	806.4970	806.3770	149	0	R.ETSSVER.V
265 - 271	802.4881	801.4808	801.4232	72	0	R.ELNIGEK.V
272 - 288	1809.0076	1808.0003	1807.8853	64	1	K.VSSGSFGALYRGTYSTR.S
289 - 296	877.3896	876.3823	876.3937	-13	0	R.SDDGTLNR.R
289 - 297	1033.6057	1032.5984	1032.4948	100	1	R.SDDGTLNRR.V
306 - 317	1307.7960	1306.7887	1306.6014	143	1	K.SVDNGGNFEDARR.D
318 - 327	1322.7669	1321.7596	1321.7143	34	1	R.DFFQEVRIILR.K
378 - 394	1870.0325	1869.0252	1869.0294	-2	1	R.ITLGIARGMNFIEGLK.M
385 - 394	1145.6779	1144.6706	1144.5699	88	0	R.GMNFIEGLK.M
385 - 398	1717.0239	1716.0166	1715.8058	123	1	R.GMNFIEGLKMMHR.D Oxidation (M)
395 - 398	606.1959	605.1886	605.2414	-87	0	K.MMHR.D 2 Oxidation (M)
415 - 422	951.5641	950.5568	950.4644	97	0	K.ICDFGLAR.V
491 - 498	971.6181	970.6108	970.5018	112	0	R.GMRPEIPR.N Oxidation (M)
499 - 510	1537.8591	1536.8518	1536.7428	71	1	R.NCDPYLVEIMRK.C
540 - 546	861.3691	860.3618	860.4239	-72	1	R.EQAEKK.Q

Spot No.: **164**

Mascot score: **181** Sequence coverage %: **58**

NCBI accession No.: **gi| 26450878**

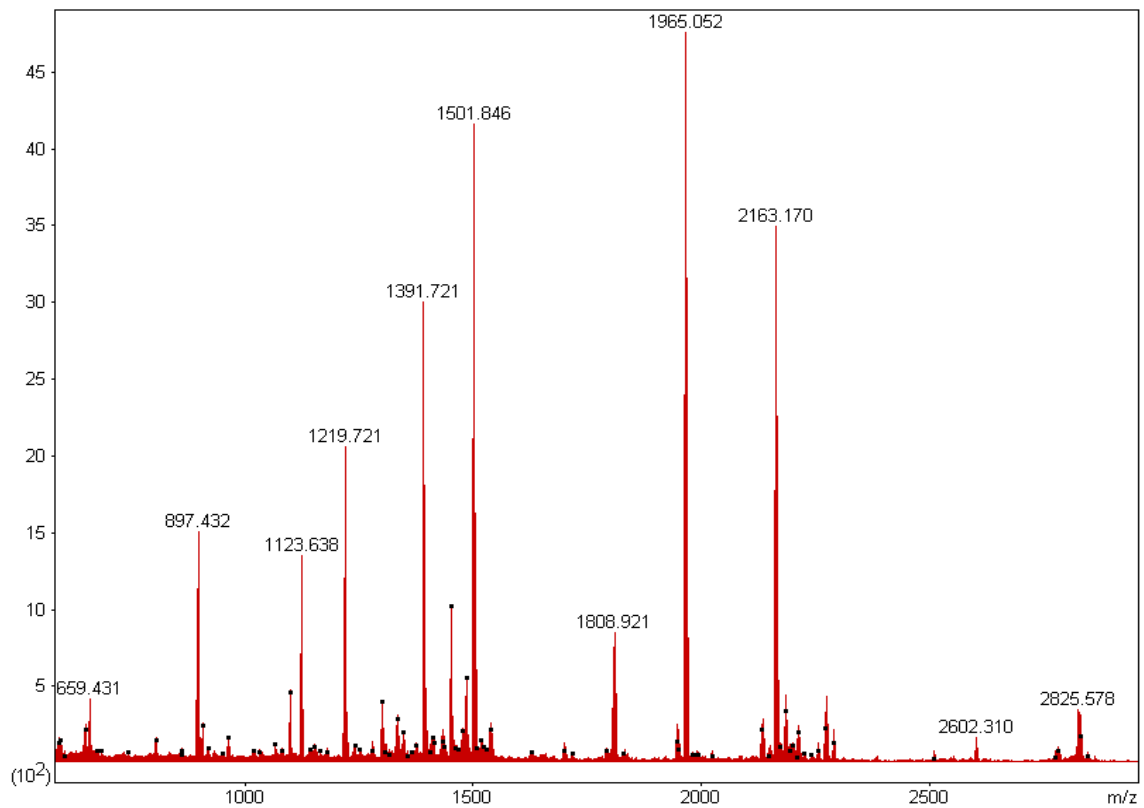
Matched peptides No.: **18**

Total peptides No.: **62**

Calculated Mr: **34325**

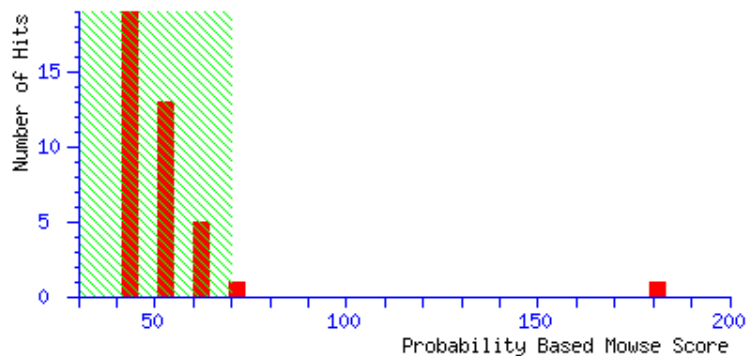
Calculated pI: **5.09**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MTSSNITPRA MATQOLENAD QLIDSVETFI LDCDGVWIKG DKLIEGVPET
51 LDMLRAKGR LVFVTNNSTK SRKQYGKKFE TLGLNVNEEE IFASSFAAAA
101 YLQSINFPKD KKVYVIGEEG ILKELELAGF QYLGGPDDGK RQIELKPGFL
151 MEHDHDVGAV VVGFDRYFNY YKIQYGTLCI RENPGCLFIA TNRDAVTHLT
201 DAQEWAGGGS MVGALVGSTQ REPLVVGKPS TFMMDYLADK FGIQKSQICM
251 VGDRDLTDIL FGQNGGCKTL LVLSGVTSSIS MLESPENKIQ PDFYTSKISD
301 FLSPKAATV

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
43 - 55	1485.8210	1484.8137	1484.7908	15	0 K.LIEGVPETLDMLR.A
43 - 55	1501.8456	1500.8383	1500.7858	35	0 K.LIEGVPETLDMLR.A Oxidation (M)
60 - 70	1278.7359	1277.7286	1277.7092	15	1 K.RLVFVTNNSTK.S
61 - 72	1365.7049	1364.6976	1364.7412	-32	1 R.LVFVTNNSTKR.K
112 - 123	1347.7600	1346.7527	1346.7809	-21	1 K.KVYVIGEEGILK.E
113 - 123	1219.7212	1218.7139	1218.6860	23	0 K.VYVIGEEGILK.E
124 - 140	1808.9207	1807.9134	1807.8628	28	0 K.ELELAGFQYLGPPDDGK.R
124 - 141	1965.0520	1964.0447	1963.9639	41	1 K.ELELAGFQYLGPPDDGKR.Q
167 - 172	897.4318	896.4245	896.4068	20	0 R.YFNYYK.I
173 - 181	1123.6379	1122.6306	1122.5856	40	0 K.IQYGTLCIR.E
182 - 193	1391.7209	1390.7136	1390.6663	34	0 R.ENPGCLFIATNR.D
194 - 221	2830.5316	2829.5243	2829.3352	67	0 R.DAVTHLTDAGEWAGGSMVGALVGSTQR.E Oxidation (M)
222 - 240	2173.1747	2172.1674	2172.0483	55	0 R.EPLVVGKPSFMMDYLADK.F 2 Oxidation (M)
241 - 245	592.3954	591.3881	591.3380	85	0 K.FGIQK.S
246 - 254	1081.5228	1080.5155	1080.4692	43	0 K.SQICMVGDR.L Oxidation (M)
269 - 288	2134.1979	2133.1906	2133.1239	31	0 K.TLLVLSGVTSSISMLESPENK.I Oxidation (M)
289 - 297	1098.5612	1097.5539	1097.5393	13	0 K.IQPDFYTSK.I
298 - 305	906.5189	905.5116	905.4858	28	0 K.ISDFLSPK.A

Spot No.: **165**

Mascot score: **109** Sequence coverage %: **58**

NCBI accession No.: **gi| 7525040**

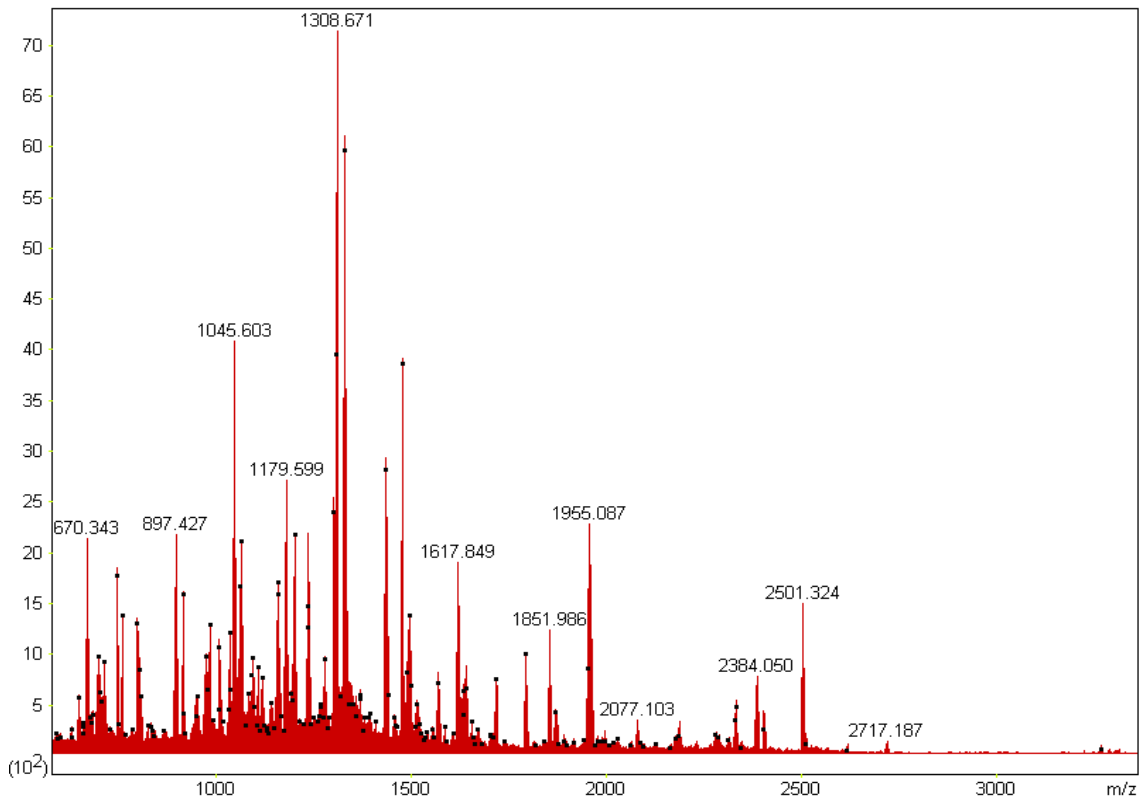
Matched peptides No.: **26**

Total peptides No.: **178**

Calculated Mr: **53957**

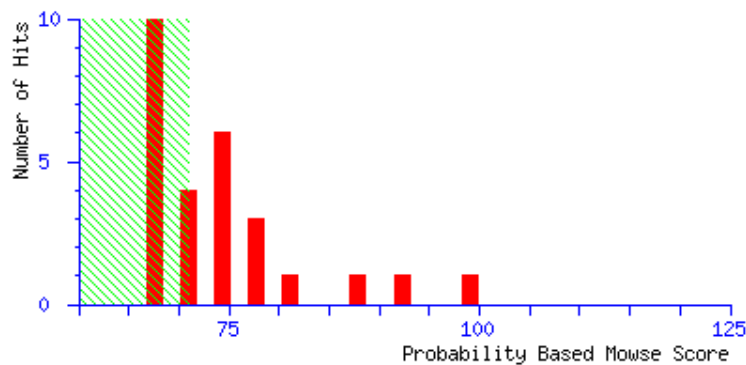
Calculated pI: **5.38**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MRTNPTTNSP EVSIREKKNL GRIAQIIGPV LDVAFPPGKM **PNIYNALVVK**
51 GRDTLGQEIIN VTCEVQQLLG NNRVRAVAMS ATEGLKRGMD VVDMGNPLSV
101 PVGGATLGRIF FNVLGEPVDN LGPVDTRTTS PIHKSAPAFI ELDTKLSIFE
151 TGIKVVDLLA PYRRGGKIGL FGGAGVGKTV LIMELINNIA KAHGGVSVFG
201 GVGERTREGN DLYMEMKESG VINEQNLAES KVALVYGQMN EPPGARMRVG
251 LTAL TMAEYF RDVNEQDVLL FIDNIFRFVQ AGSEVSALLG RMPSAVGYQP
301 TLSTEMGTLQ ERITSTKKGS ITSIQAVYVP ADDLTDPAFA TTF AHLDATT
351 VLSRGLAAKG IYPAVDPLDS TSTMLQPRIV GEEHYETAQQ VKQTLQR.YKE
401 LQDIIAILGL DELSEEDRLT VARARKIERF LSQPFVFAEV FTGSPGKYVG
451 LAETIRGFNL ILSGEFDSLP EQAFYLVGNI DEATAKATNL EMESKLLK

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 15	1702.8993	1701.8920	1701.8468	27	1 -.MRTNPTTNSPEVSIR.E
18 - 22	587.3671	586.3598	586.3551	8	1 K.KNLGR.I
40 - 50	1277.6726	1276.6653	1276.6849	-15	0 K.MPNIYNALVVK.G Oxidation (M)
51 - 73	2614.3503	2613.3430	2613.2929	19	1 K.GRDTLGQEIINVTCEVQQLGNRR.V
53 - 73	2401.2487	2400.2414	2400.1703	30	0 R.DTLGQEIINVTCEVQQLGNRR.V
76 - 87	1249.6223	1248.6150	1248.6496	-28	1 R.AVAMSATEGLKR.G Oxidation (M)
87 - 109	2330.2193	2329.2120	2329.1519	26	1 K.RGMDVVDMGNPLSVPVGGATLGR.I 2 Oxidation (M)
88 - 109	2174.1402	2173.1329	2173.0508	38	0 R.GMDVVDMGNPLSVPVGGATLGR.I 2 Oxidation (M)
110 - 127	1955.0870	1954.0797	1954.0160	33	0 R.IFNVLGEPVDNLGPVDTR.T
128 - 134	783.4099	782.4026	782.4286	-33	0 R.TTSPHK.S
146 - 154	1007.5456	1006.5383	1006.5699	-31	0 K.LSIFETGK.V
155 - 163	1045.6027	1044.5954	1044.5968	-1	0 K.VVDLLAPYR.R
155 - 164	1201.6779	1200.6706	1200.6979	-23	1 K.VVDLLAPYRR.G
168 - 178	975.5296	974.5223	974.5549	-33	0 K.IGLFGGAGVGK.T
192 - 205	1328.6974	1327.6901	1327.6633	20	0 K.AHGGVSVFVGGER.T
206 - 217	1518.7435	1517.7362	1517.6490	57	1 R.TREGNDLYMEMK.E 2 Oxidation (M)
232 - 246	1617.8494	1616.8421	1616.7981	27	0 K.VALVYGQMNPEPPGAR.M Oxidation (M)
249 - 261	1487.7927	1486.7854	1486.7490	25	0 R.VGLTAL TMAEYFR.D Oxidation (M)
262 - 277	1950.0415	1949.0342	1948.9894	23	0 R.DVNEQDVLLFIDNIFR.F
278 - 291	1433.7987	1432.7914	1432.7674	17	0 R.FVQAGSEVSALLGR.M
292 - 312	2328.1795	2327.1722	2327.0773	41	0 R.MPSAVGYQPTLSTEMGTLQER.I 2 Oxidation (M)
355 - 378	2501.3239	2500.3166	2500.2995	7	1 R.GLAARKIYPAVDPLDSTSTMLQPR.I
360 - 378	2061.1146	2060.1073	2060.0248	40	0 K.GIYPAVDPLDSTSTMLQPR.I
360 - 378	2077.1026	2076.0953	2076.0198	36	0 K.GIYPAVDPLDSTSTMLQPR.I Oxidation (M)
379 - 392	1630.8577	1629.8504	1629.7998	31	0 R.IVGEHYETAQQVK.Q
393 - 397	645.3808	644.3735	644.3606	20	0 K.QLQR.Y

Spot No.: **166**

Mascot score: **128** Sequence coverage %: **32**

NCBI accession No.: **gi| 21537360**

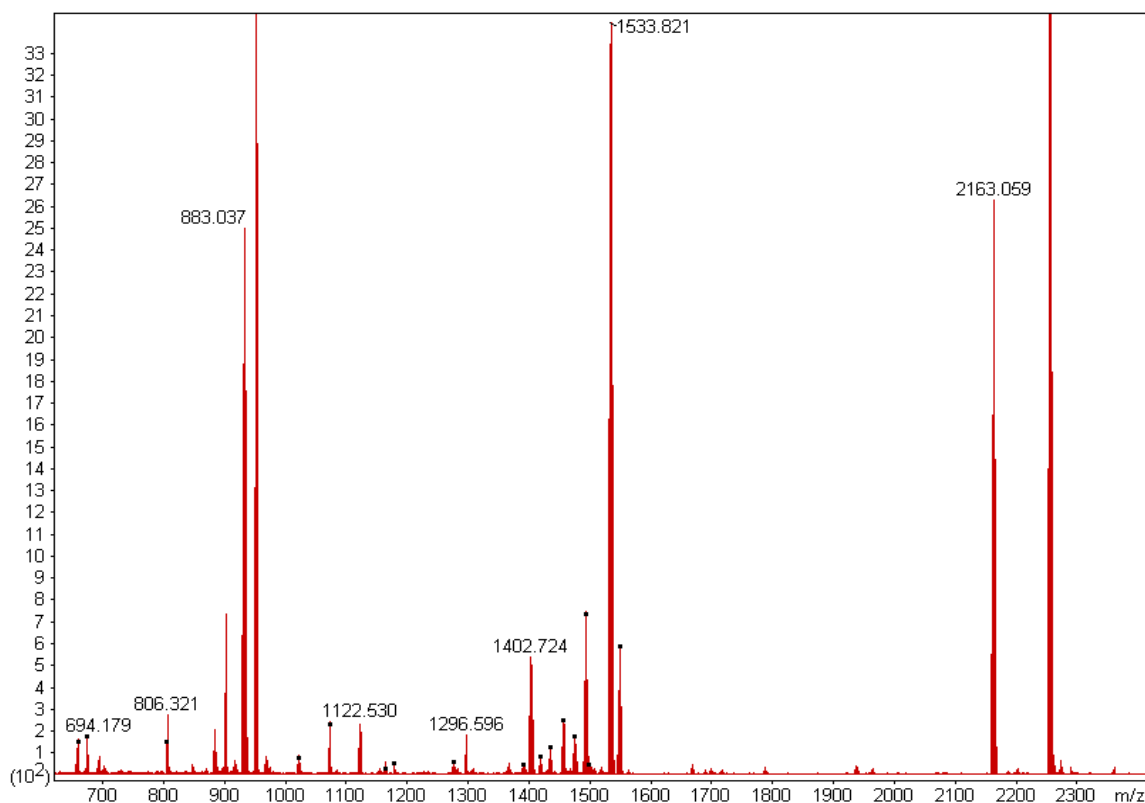
Matched peptides No.: **14**

Total peptides No.: **27**

Calculated Mr: **39459**

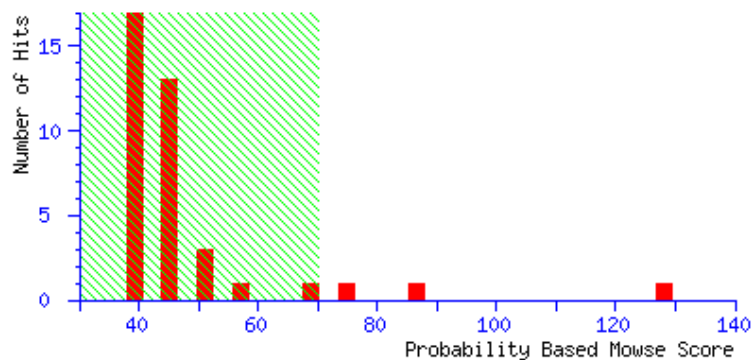
Calculated pI: **6.97**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVRIIPMAAS SIRPSLACFS DSPR**FPISLL SRNLSRTLHV** PQSQLFGLTS
51 HKLLRRSVNC LGVAESGKAA QSTTQDDLLT WVKNDK**RML HVVYRV**GDMD
101 RTIK**FYTECL GMKLLRKRDI** PEEKYTNAFL GYGPEDSHFV IELTYNYGVD
151 KYDIGAGFGH FGIAVDDVAK TVELVKAKGG **KVSREPGPVK** GGK**TVIAFIE**
201 **DPDGYKFELL ERGPTPEPLC** QVMLR**VGDL** **RAIKFYEKAF GMELLTRDN**
251 **PEYKYTIAMM GYGPEDKFPV** LELTYNYGVT EYDKGNAYAQ ISIGTDDVYK
301 TAEAIKLFGG KITREPGPLP GISTK**ITACL** **DPDGWKS**VFV **DNIDFLKELE**
351

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
25 - 36	1402.7240	1401.7167	1401.8092	-66	1 R.FPISLLSRNLSR.T
88 - 95	1073.4019	1072.3946	1072.5964	-188	1 R.RMLHVYR.V
89 - 95	917.4062	916.3990	916.4953	-105	0 R.MLHVYR.V
89 - 95	933.3959	932.3887	932.4902	-109	0 R.MLHVYR.V Oxidation (M)
105 - 113	1164.4500	1163.4427	1163.4991	-48	0 K.FYTECLGMK.L Oxidation (M)
182 - 190	968.4315	967.4242	967.5451	-125	1 K.VSREPGPVK.G
194 - 212	2255.1875	2254.1802	2254.1521	12	1 K.TVIAFIEDPDGYKFELLER.G
207 - 212	806.3209	805.3136	805.4334	-149	0 K.FELLER.G
226 - 231	674.2248	673.2176	673.3395	-181	0 R.VGDLDR.A
239 - 246	952.4013	951.3940	951.4848	-95	0 K.AFGMELLR.T Oxidation (M)
247 - 254	1022.4218	1021.4145	1021.4828	-67	1 R.TRDNPEYK.Y
255 - 267	1475.7058	1474.6985	1474.6472	35	0 K.YTIAMMGYGPEDK.F
326 - 336	1275.5213	1274.5140	1274.5965	-65	0 K.ITACLDPDGWK.S
337 - 347	1296.5965	1295.5892	1295.6762	-67	0 K.SVFVDNIDFLK.E

Spot No.: **167**

Mascot score: **168** Sequence coverage %: **46**

NCBI accession No.: **gi| 15239061**

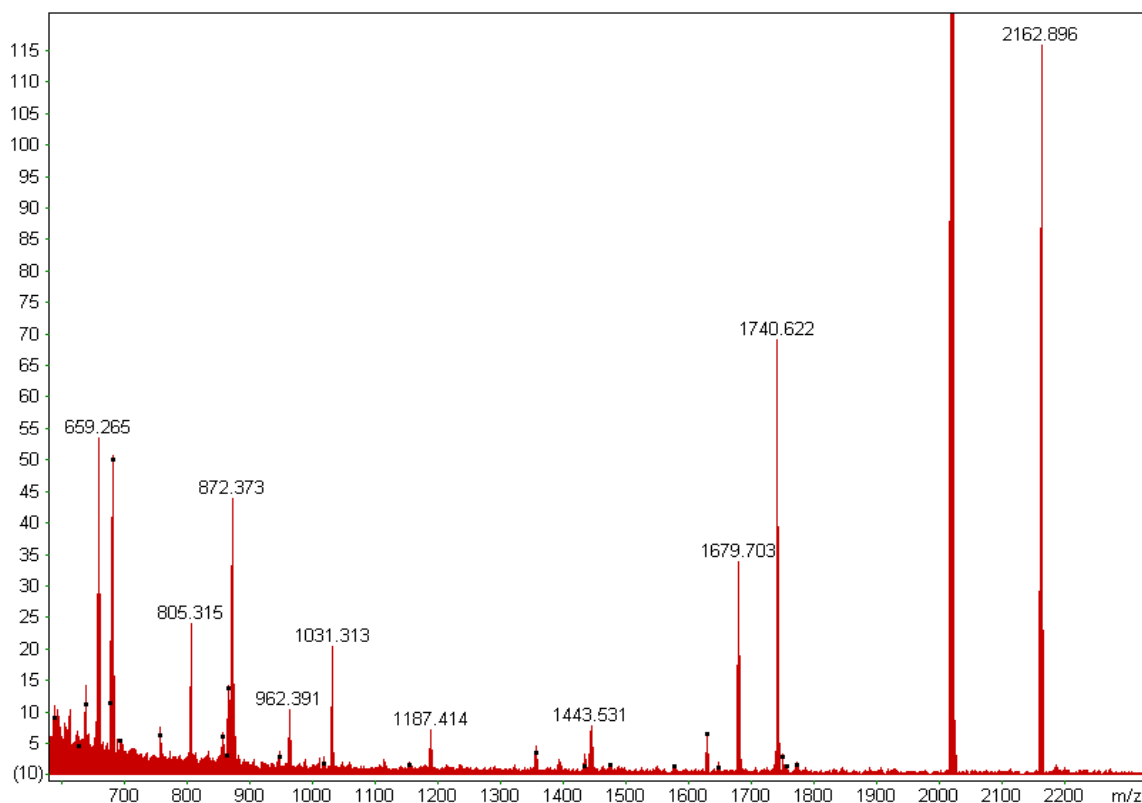
Matched peptides No.: **15**

Total peptides No.: **33**

Calculated Mr: **30685**

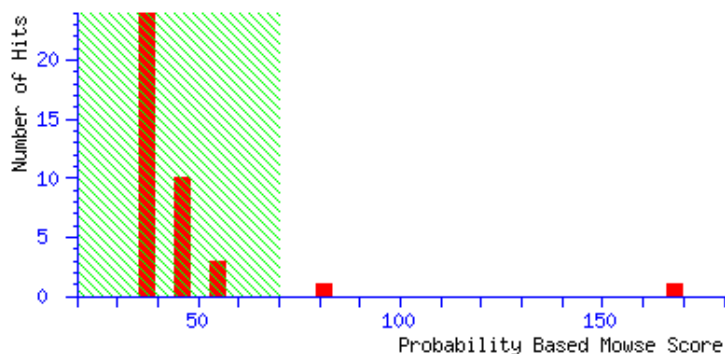
Calculated pI: **4.99**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.
Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MFR**NQYD****TDV** **TTWSPTGR****LF** **QVEYAMEAVK** **QGSAAIGLR****S** RSHVVLACVN
51 KAQSELSSHQ RKIF**KVDDHI** **GVAIAGLTAD** **GRVLSRYMRS** **ESINHSFTYE**
101 **SPLPVGR****LVV** HLAD**KAQVCT** **QRSWKR****PYGV** GLLVGG**LD****ES** GAHLYY**NCPS**
151 GNYFEYQAF**A** IGSRSQA**AKT** **YLERRFESFG** **DSSREDLIK****D** **AILAVRET****LQ**
201 **GETLK****SSLCT** VAILGVDE**PF** HFLDQEA**IQK** VIDTFEK**VPE** EEEGE**GEAGE**
251 GEAEAAEA**AP** AER**GGGVAGD** **QDVAPMEM**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
4 - 18	1740.6225	1739.6152	1739.7751	-92	0	R.NQYD TDVTTWSPTGR .L
19 - 30	1443.5313	1442.5240	1442.7115	-130	0	R.LF QVEYAMEAVK .Q Oxidation (M)
31 - 39	872.3729	871.3657	871.4875	-140	0	K.QGSAAIG LR .S
66 - 82	1679.7027	1678.6954	1678.8639	-100	0	K.VDDHIG VAIAGLTADGR .V
90 - 107	2019.8128	2018.8055	2018.9698	-81	0	R.SESINHSFT YESPLVGR .L
116 - 122	862.3057	861.2984	861.4127	-133	0	K.A QVCTQR .S
170 - 174	681.2474	680.2401	680.3493	-161	0	K.TYLER. R
175 - 184	1187.4136	1186.4063	1186.5367	-110	1	R.RFESFGD SSR .E
176 - 184	1031.3127	1030.3054	1030.4356	-126	0	R.FESFGD SSR .E
176 - 189	1629.5785	1628.5712	1628.7682	-121	1	R.FESFGD SSREDLIK .D
185 - 196	1355.6527	1354.6454	1354.7820	-101	1	R.EDLIK DAILAVR .E
190 - 196	757.2913	756.2840	756.4494	-219	0	K.DAILAVR. E
190 - 205	1756.5701	1755.5628	1755.9730	-234	1	K.DAILAVRET LQGETLK .S
197 - 205	1018.4001	1017.3928	1017.5342	-139	0	R.ET LQGETLK .S
264 - 278	1433.5762	1432.5689	1432.5963	-19	0	R.GGGVAG DQDVAPMEM .-

Spot No.: **168**

Mascot score: **96** Sequence coverage %: **33**

NCBI accession No.: **gi| 15220151**

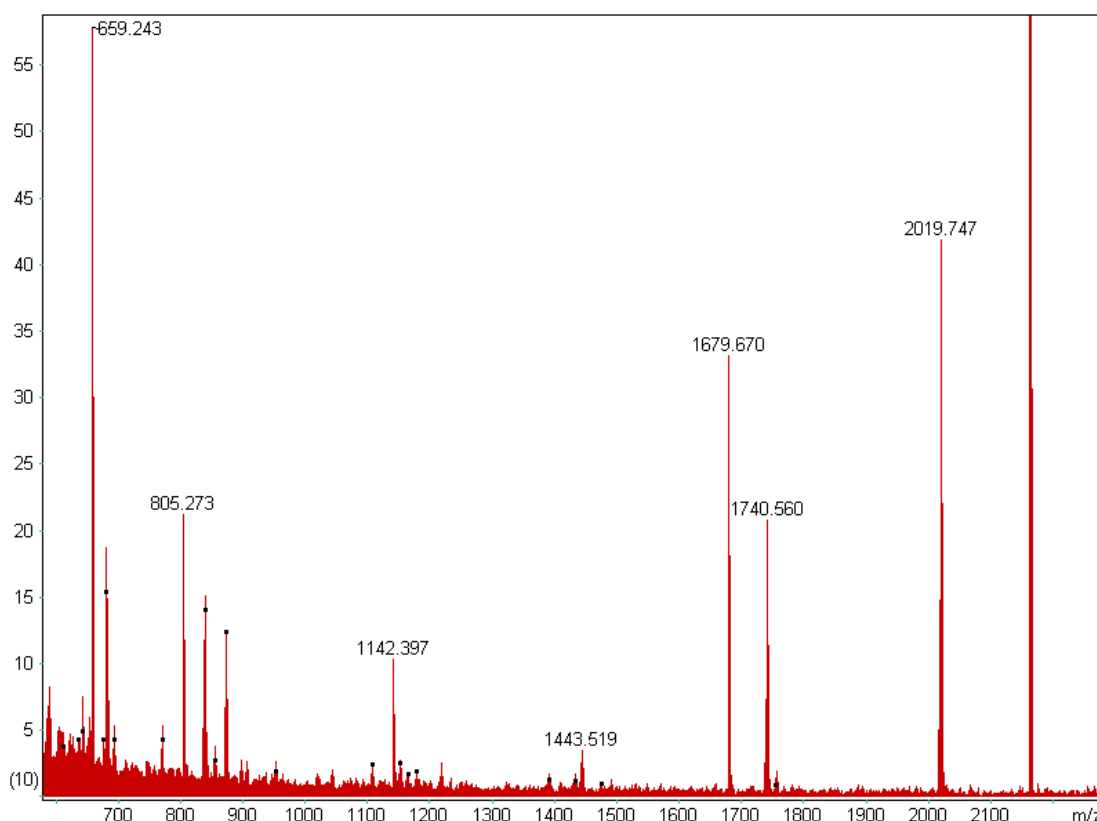
Matched peptides No.: **8**

Total peptides No.: **29**

Calculated Mr: **30619**

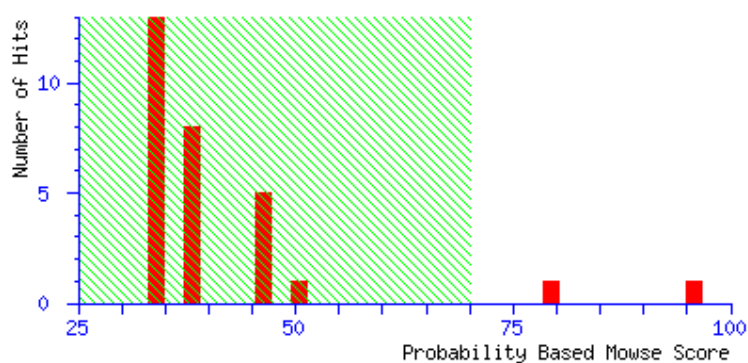
Calculated pI: **4.97**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MFR**NQYD**TDV **TTWSPTGR**LF **QVEYAMEAVK** **QGSAAI**GLRS RSHVVLACVN
51 **KAQSEL**SSHQ RKIFKV**DDHI** **GVAIAG**L**TAD** **GRVLSRYMRS** **ESINHS**F**TYE**
101 **SPLPVGR**LVV H**LADKAQ**VCT QRSWKR**PYGV** GLLV**GGLDES** GAHLY**NCPS**
151 GNYFEY**QAFA** IGSRS**QAAKT** **YLERK**F**FESFQ** ESSK**EDLIK**D **DAI**RE**T**LQ
201 GETLK**SSLCT** VSVL**GVDEPF** HFLD**QESIQK** VIDT**FEKVPE** EEED**AGEGEA**
251 EPEA**APGAAG** TGE**QGGSGDQ** DVAP**MEI**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
4 - 18	1740.5595	1739.5522	1739.7751	-128	0	R.NQYD TDVTTWSPTGR .L
19 - 30	1443.5189	1442.5116	1442.7115	-139	0	R.LF QVEYAMEAVK .Q Oxidation (M)
31 - 39	872.3471	871.3398	871.4875	-169	0	K. QGSAAI GLR.S
52 - 61	1142.3970	1141.3897	1141.5476	-138	0	K. AQSEL SSHQR.K
66 - 82	1679.6700	1678.6627	1678.8639	-120	0	K.V DDHIGVAIAG L TADGR .V
90 - 107	2019.7471	2018.7398	2018.9698	-114	0	R.S ESINHS F TYESPLVGR .L
170 - 174	681.2157	680.2084	680.3493	-207	0	K. TYLER .K
190 - 196	805.2726	804.2654	804.4164	-188	0	K. DAI MAIR.E Oxidation (M)

Spot No.: **169**

Mascot score: **94**

Sequence coverage %: **15**

NCBI accession No.: **gi| 225461150**

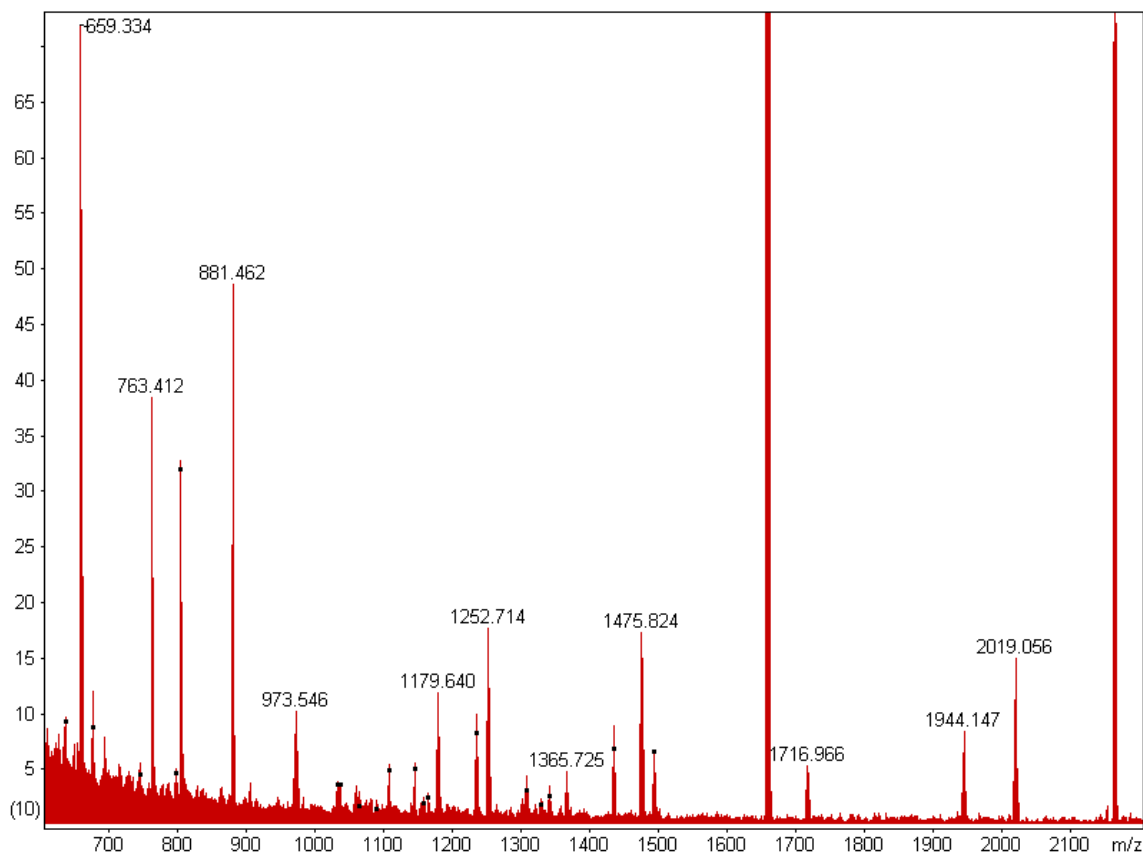
Matched peptides No.: **12**

Total peptides No.: **33**

Calculated Mr: **86688**

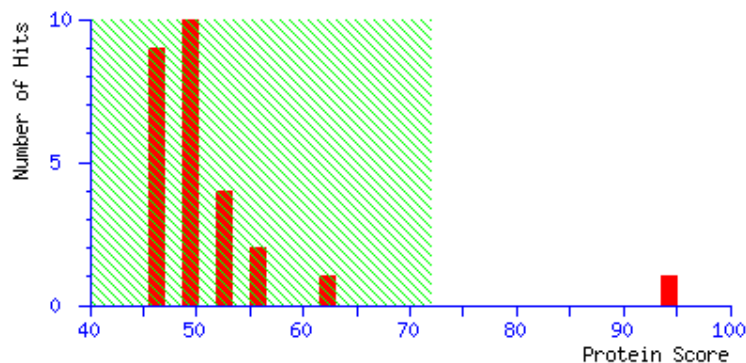
Calculated pI: **6.66**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MVGPANSGRT RQAFSVVNGG QENGGPPSSA GSECGGIEFT KEDVEALLNE
51 KMKGKNKFNL KEKCDQMMDY IRKLRLCIKW FQELEGSYLL EQEKLRLNMLD
101 CAERKCNELE VLMKNKEEL NSIIMELRKN CASLHEKLTK ESEKLAAMD
151 SLTREKEARL AAERLQTSLT DELGKAQREH LSASQKITSL NDMYKRLQEY
201 NTSLQQYNSK LQTELPTVNE ALKRVEKEKA AVVENLSTLR GHYNALQDQF
251 TLTRASQDEA MKQREALVND VVCLRGELQQ ARDDRDRYLS QVEVLTTEVV
301 KYKECTGKSF AELENLSLKS NELEARCLSQ SDQIKALQDK LGAAEKKLQV
351 SDLSAMETRT EYEEQKKLIH DLQNRLADAE IKIIEGEKLR KKLHNTILEL
401 KGNIRVFCRV RPLLADDSAA EAKVISYPTS TEFFGRGIDL MQSGQKHSFT
451 FDKVFMPDAP QQEVFVEISQ LVQSALDGYK VCIFAYGQTG SGKTHMTMGR
501 PGNPEQGLI PRSLEQIFET RQSLKSQGWK YEMQVSMLEI YNETIRDLLS
551 TNRSCSDVSR TENGVAGKQY AIKHDGNGNT HVSDLTVVVDV RSTREVSFLL
601 DQAAQSRSVG KTQMNEQSSR SHFVFTLRIS GVNESTEQQV QGVNLNIDLA
651 GSERLSKSGS TGDRLKETQA INKSLSSLSL VIFALAKKED HVPFRNSKLT
701 YLLQPCLGGD SKTLMFVNIS PDPSSSLGESL CSLRFAARVN ACEIGIPRQ
751 TNMRPSDSRL SYG

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
1 - 11	1145.5746	1144.5673	1144.5771	-9	1 -.MVGPANSGRTR.Q
42 - 53	1434.8466	1433.8393	1433.7072	92	1 K.EDVEALLNEKMK.G Oxidation (M)
56 - 61	763.4122	762.4049	762.4388	-44	1 K.NKFNLK.E
117 - 128	1475.8236	1474.8163	1474.7337	56	0 K.EEELNSIIMELR.K
146 - 156	1234.6996	1233.6923	1233.6387	43	1 K.LAAMD SL TREK.E
255 - 264	1179.6400	1178.6327	1178.5350	83	1 R.ASQDEAMKQR.E Oxidation (M)
347 - 359	1493.8309	1492.8236	1492.7555	46	1 K.KLQVSDLSAMETR.T Oxidation (M)
348 - 359	1365.7246	1364.7173	1364.6606	42	0 K.LQVSDLSAMETR.T Oxidation (M)
447 - 453	881.4618	880.4545	880.4079	53	0 K.HSFTFDK.V
508 - 521	1658.9956	1657.9883	1657.9151	44	1 K.GLIPRSLEQIFETR.Q
531 - 546	2019.0557	2018.0484	2017.9489	49	0 K.YEMQVSMLEIYNETIR.D
749 - 754	805.4046	804.3973	804.4024	-6	1 R.RQTNMR.P

Spot No.: **170**

Mascot score: **84** Sequence coverage %: **21**

NCBI accession No.: **gi| 15240013**

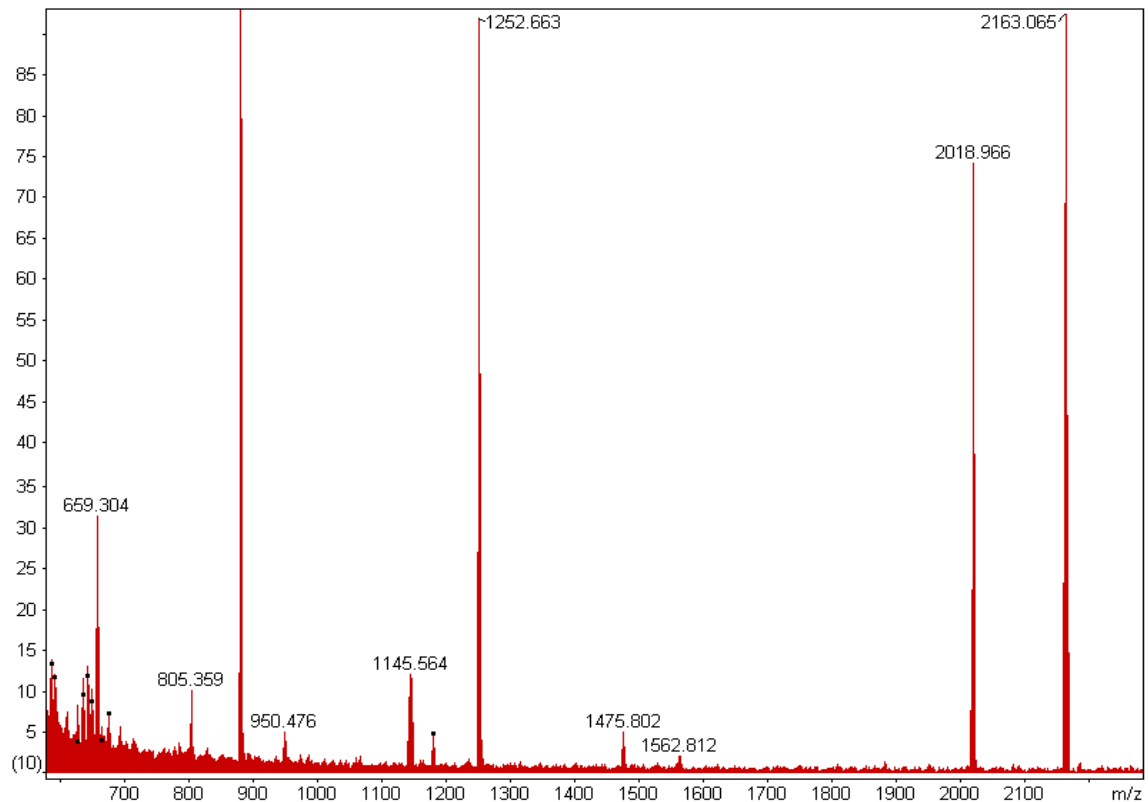
Matched peptides No.: **6**

Total peptides No.: **10**

Calculated Mr: **35349**

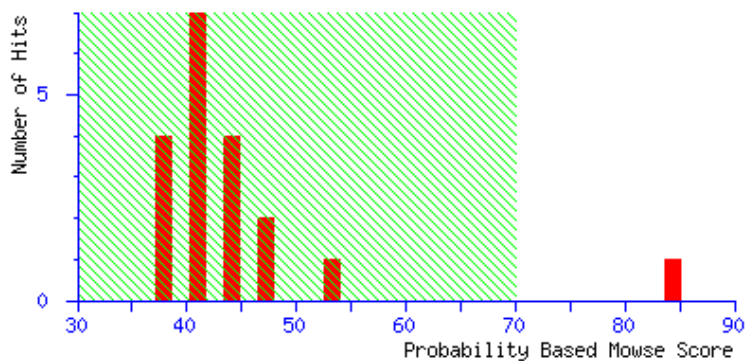
Calculated pI: **5.55**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MAASLQSTAT FLQSAKIATA PSRGSSHLRS TQAVGKSFGL ETSSARLTCS
51 FQSDFKDFTG KCSDAVKIAG FALATSALVV SGASAEGAPK **RLTYDEIQSK**
101 TYMEVKGTGT ANQCPTIDGG SETFSFKPGK YAGKKFCFEP TSFTVKADSV
151 SK**NAPPEFQN** **TKLM**TRLTYT LDEIEGPFV ASDGSVNFKE **EDGIDYAAVT**
201 **VQLP**GGERP **FLFTVK**QLDA SGKPDSFTGK **FLVPSYR**GSS FLDPKGRGGS
251 **TGYD**NAVALP **AGGR**GDEEEL VKENVKNTAA SVGEITLKVT KSKPETGEVI
301 GVFE**SLQ**PSD TDLGAKV**PKD** VKIQGVWY**Q** LE

Matched peptides information:

Start	End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
91	100	1252.6627	1251.6554	1251.6459	8	1	K.RLTYDEIQSK.T
153	162	1145.5645	1144.5572	1144.5513	5	0	K.NAPPEFQNTK.L
190	208	2018.9656	2017.9583	2017.9593	-0	0	K.EEDGIDYAAVTVQLPGER.V
209	216	950.4765	949.4692	949.5637	-99	0	R.VPFLTVK.Q
231	237	881.4463	880.4390	880.4807	-47	0	K.FLVPSYR.G
248	264	1562.8119	1561.8046	1561.7485	36	0	R.GGSTGYDNAVALPAGGR.G

Spot No.: 171

Mascot score: 119 Sequence coverage %: 29

NCBI accession No.: gi| 49359169

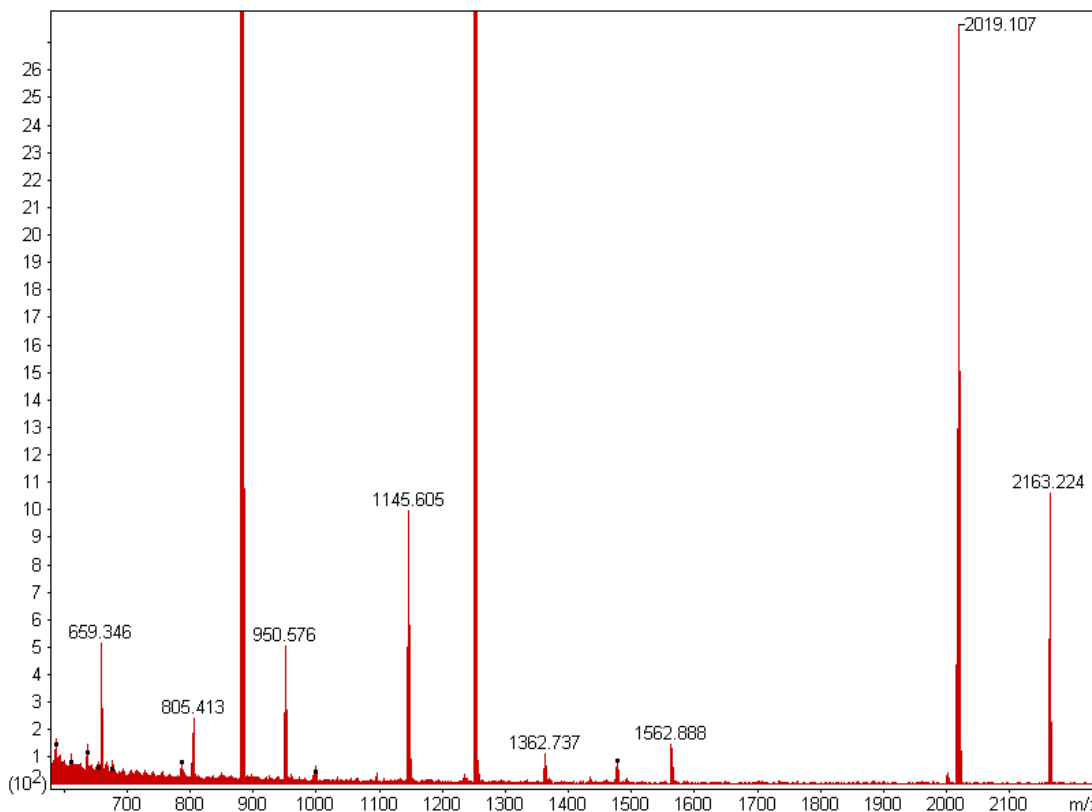
Matched peptides No.: 9

Total peptides No.: 18

Calculated Mr: 37078

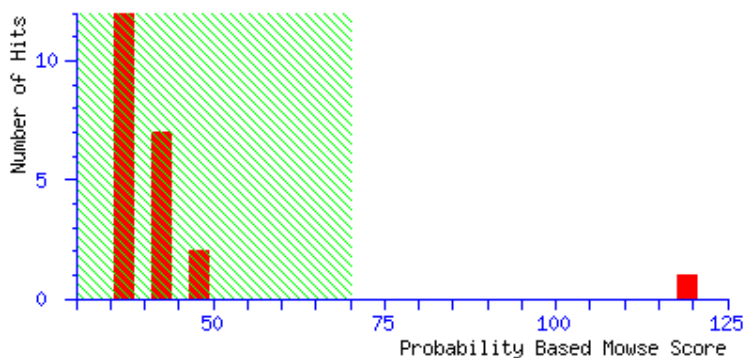
Calculated pI: 6.78

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MGRKKLELSE RHSVAMAASL QSAATFFQSA KISTAPSRGS AHLRSAQTVG
51 KSFGLLETSSA RLTCYQSDI KDFAGKCSDA VKIAGFALAT SALVVSGASA
101 EGAPKRLTYD EIQSKTYMEV KGTGTANQCP TIDGGSETFS FKPGKYAGKK
151 FCFEPTSFTV KAESVSKNAP PEFQNTKLMT RLCTCLDEIE GPFEVSSDGS
201 VNFKEEDGID YAAVTVQLPG GERVPFLFTV KQLDASGKPD NFTGKFLVPS
251 YRGPSFLDPK GRGGSTGYDN AVALPAGGRG DEEELSKENV KNTAASVGEI
301 TLKVTKSKPE TGEVIGVFQS LQPSDIDLGA KVPKDVKIQG VWYGOLE

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
106 - 115	1252.7434	1251.7361	1251.6459	72	1	K.RLTYDEIQSK.T
116 - 121	786.3347	785.3274	785.3629	-45	0	K.TYMEVK.G Oxidation (M)
151 - 161	1362.7367	1361.7294	1361.6326	71	0	K.FCFEPTSFTVK.A
168 - 177	1145.6049	1144.5976	1144.5513	40	0	K.NAPPEFQNTK.L
205 - 223	2019.1073	2018.1000	2017.9593	70	0	K.EEDGIDYAAVTVQLPGGER.V
224 - 231	950.5762	949.5689	949.5637	5	0	R.VPFLFTVK.Q
232 - 245	1477.8415	1476.8342	1476.7209	77	0	K.QLDASGKPDNFTGK.F
246 - 252	881.5084	880.5011	880.4807	23	0	K.FLVPSYR.G
263 - 279	1562.8884	1561.8811	1561.7485	85	0	R.GGSTGYDNAVALPAGGR.G

Spot No.: 172

Mascot score: 84 Sequence coverage %: 21

NCBI accession No.: gi| 18408627

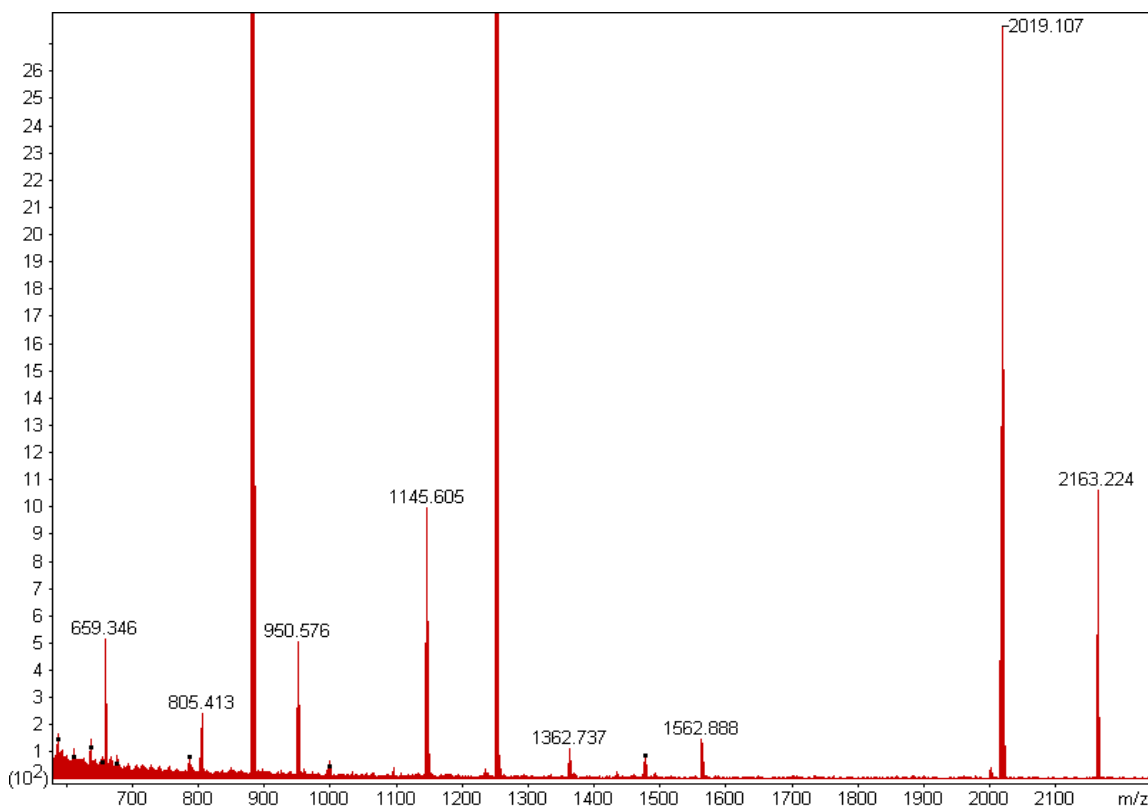
Matched peptides No.: 9

Total peptides No.: 22

Calculated Mr: 34680

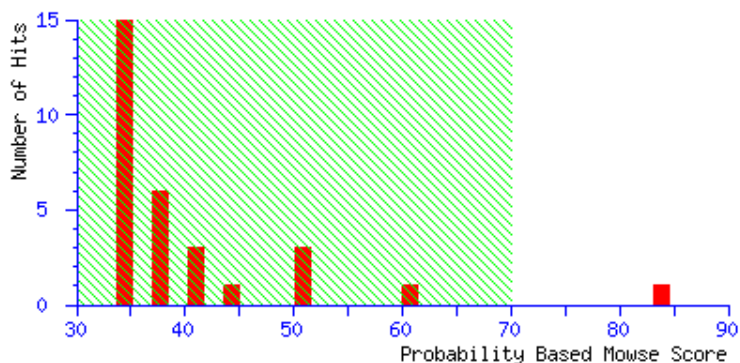
Calculated pI: 8.31

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MATVKISLSL ASLSPSSSSS SIQSKLSPSF IPNAAPAKAV KLRFMNGKSLR
51 AKPMVYRSSR SVGVTCASASS SLTTLPSALL FDCDGVLDVT EKDGHR**ISFN**
101 **DTFKER**DLNV TWDVDLYGEL LKIGGGKERM **TAYFNK**VGWPEKAPK**DEAER**
151 **KEFIAGLHKQ** **KTELFMVLIE** **KLLPLRPGV** **AKLVDQALTN** GVKVAVCSTS
201 NEK**AVSAIVS** **CLLGP**ERAEK IKIFAGDVVP **KKKPDPAIYN** LAAETLGVDP
251 SKCVVVEDSA IGLAAAKAAG MTCIVTKSGY TADEFENAD AVFDCIGDPP
301 EERFDLAFCG SLLRKQFVS

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
97 - 104	971.3330	970.3258	970.4760	-155	0	R.ISFN DTFK .E
97 - 106	1256.4828	1255.4755	1255.6197	-115	1	R.ISFN DTFKER .D
130 - 136	890.2513	889.2440	889.4004	-176	0	R.M TAYFNK .V Oxidation (M)
146 - 151	747.2303	746.2231	746.3559	-178	1	K. DEAER .E
160 - 171	1494.6317	1493.6244	1493.8163	-128	1	K. QKTELFMVLIEK .K Oxidation (M)
162 - 171	1238.4981	1237.4908	1237.6628	-139	0	K. TELFMVLIEK .K Oxidation (M)
173 - 182	1063.5609	1062.5536	1062.6913	-130	0	K. LLPLRPGVAK .L
204 - 217	1471.6254	1470.6181	1470.7864	-114	0	K. AVSAIVSCLLGP .A
223 - 231	945.3912	944.3839	944.5331	-158	0	K. IFAGDVVPK .K

Spot No.: **173**

Mascot score: **84**

Sequence coverage %: **24**

NCBI accession No.: **gi| 312282781**

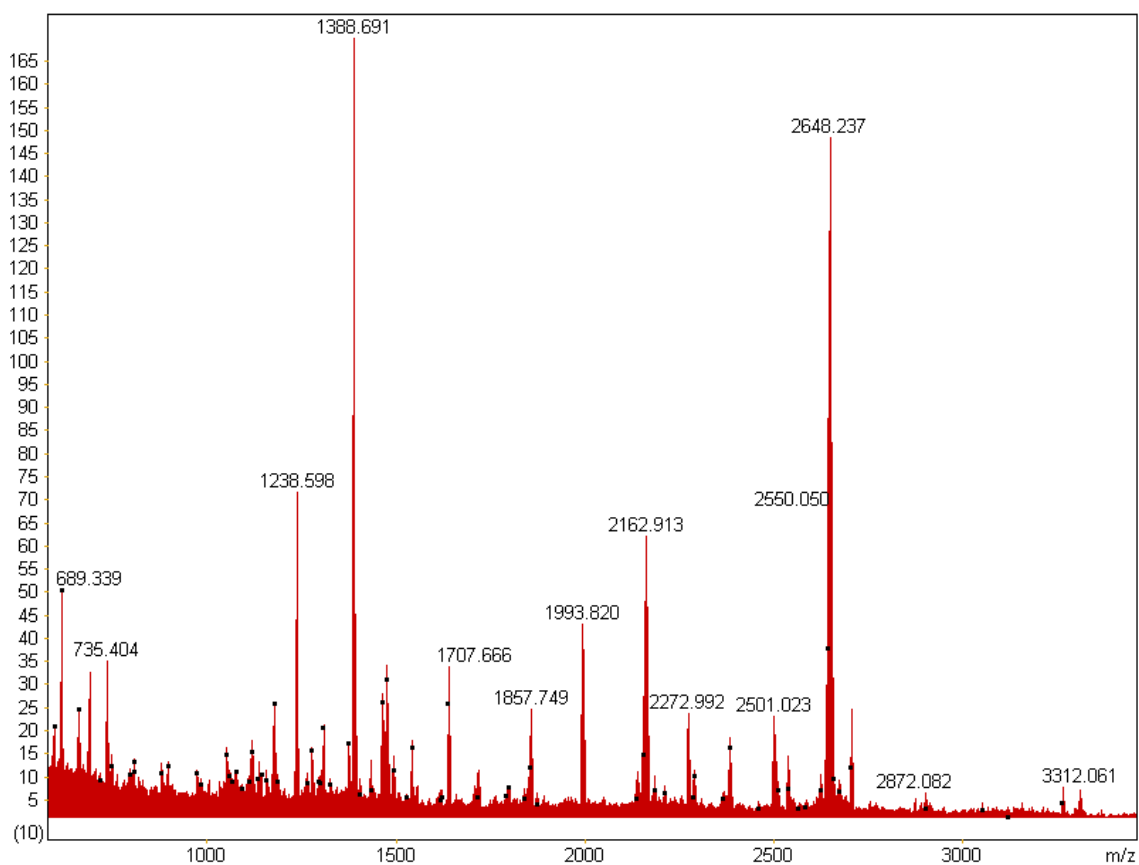
Matched peptides No.: **10**

Total peptides No.: **23**

Calculated Mr: **27997**

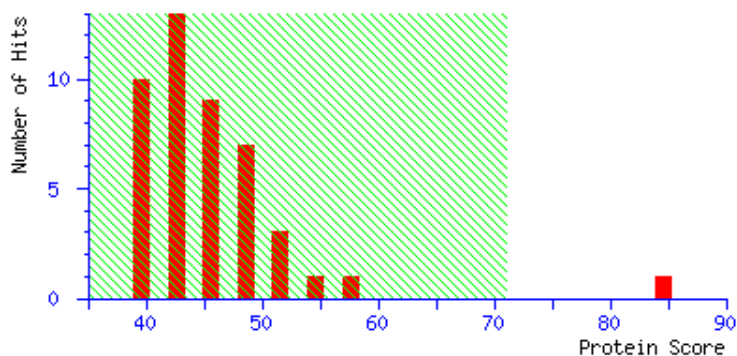
Calculated pI: **6.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MASRALSSFT TKPAPSPKPH GVSSASSPAF SIGFSRKTSG RAMVVAAAPV
51 DTNNMPMTGV VFQPFEEVKK ADLAIPIKSH VSLARQGYAD ATEAAINEQI
101 NVEYNVSYVY HSMYAYFDRD NVALKGLAKF FKESSEEERG HA EKFM EYQN
151 KRGGRVKLHP IVSPISEFEH AEKGDALYAM ELALSLEKLT NEKLLNVHSV
201 ATENNDPQLA DVFETEFLGE QIEAIKKISD FITQLRMVGK GHGVWHFDQS
251 LLN

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
79 - 85	769.5782	768.5709	768.4242	191	0	K.SHVSLAR.Q
120 - 125	659.5341	658.5268	658.3650	246	0	R.DNVALK.G
130 - 139	1287.6679	1286.6606	1286.5779	64	1	K.FFKESSEEER.G
140 - 151	1497.7578	1496.7505	1496.6718	53	1	R.GHA EKFM EYQNK.R Oxidation (M)
145 - 151	959.5492	958.5419	958.4218	125	0	K.FMEYQNK.R
145 - 151	975.5365	974.5292	974.4167	115	0	K.FMEYQNK.R Oxidation (M)
145 - 152	1115.6351	1114.6278	1114.5229	94	1	K.FMEYQNK.R.G
145 - 152	1131.5949	1130.5876	1130.5179	62	1	K.FMEYQNK.R.G Oxidation (M)
158 - 173	1833.0210	1832.0137	1831.9468	37	0	K.LHP IVSPISEFEHAEK.G
228 - 236	1092.7344	1091.7271	1091.5975	119	0	K.ISDFITQLR.M

Spot No.: **174**

Mascot score: **100** Sequence coverage %: **21**

NCBI accession No.: **gi| 18408627**

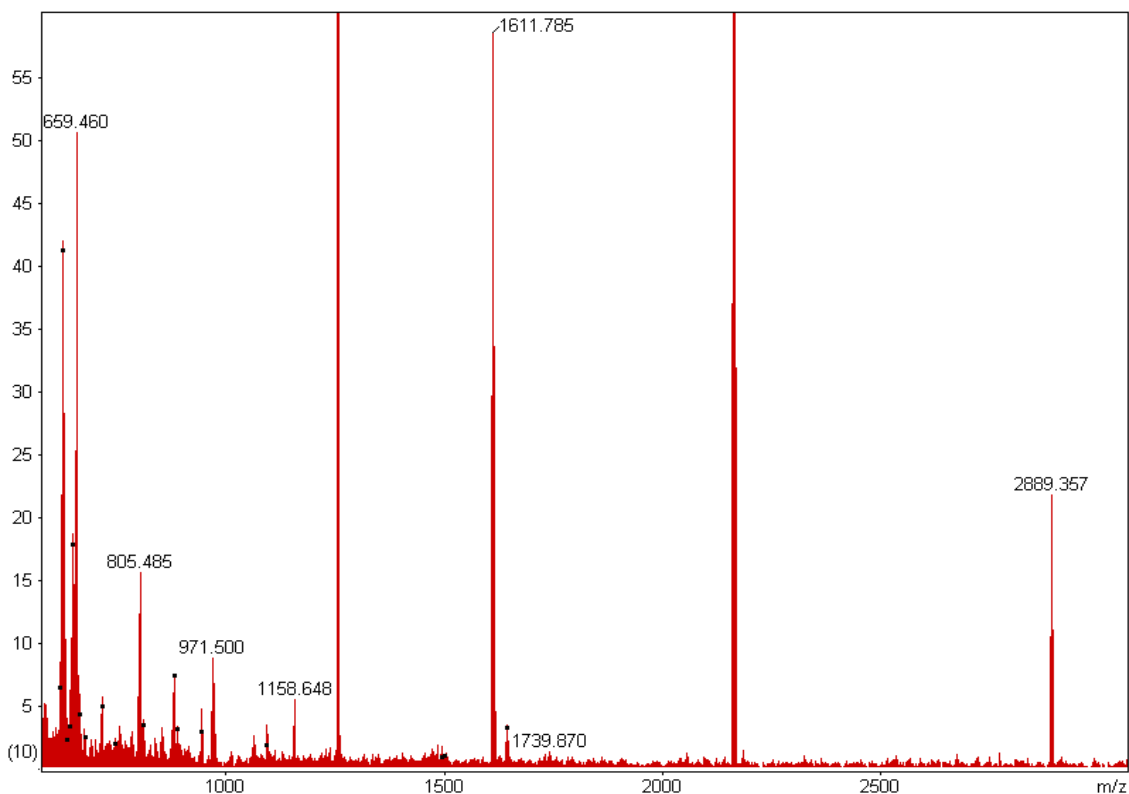
Matched peptides No.: **9**

Total peptides No.: **19**

Calculated Mr: **34680**

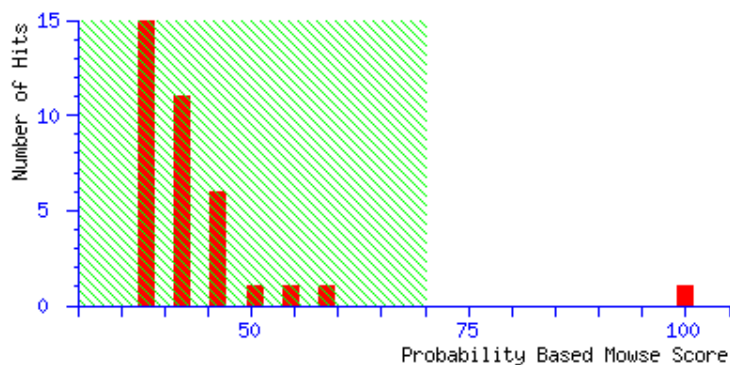
Calculated pI: **8.31**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MATVKISLSL ASLSPSSSSS SIQSKLSPSF IPNAAPAKAV KLRFNGKSLR
51 AKPMVYRSSR SVGVTCSSASS SLTTLPSALL FDCDGVLDVT EKDGHR**ISFN**
101 **DTFKER**DLNV TWDVDLYGEL LK**IGGGKERM** **TAYFNK**VGWP EKAPKDEAER
151 KEFIAGLHK**Q** **KTELFMVLIE** **KKLLPLRPGV** AKLVDQALTN GVK**VAVCSTS**
201 **NEKA**VSAIVS CLLGPERAEK IK**IFAGDVVP** **KKKPDPAIYN** LAAETLGVDP
251 SK**CVVVEDSA** **IGLAAAK**AAG MTCIVTKSGY TADEDFENAD AVFDCIGDPP
301 EERFDLAFCG SLLRKQFVS

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
97 - 104	971.5005	970.4932	970.4760	18	0	R. ISFNDTFK.E
97 - 106	1256.6203	1255.6130	1255.6197	-5	1	R. ISFNDTFKER.D
123 - 129	716.4403	715.4330	715.3977	49	1	K. IGGGKER.M
130 - 136	890.4219	889.4146	889.4004	16	0	R. MTAYFNK.V Oxidation (M)
160 - 171	1494.8055	1493.7982	1493.8163	-12	1	K. QKTELFMVLIEK.K Oxidation (M)
162 - 171	1238.6130	1237.6057	1237.6628	-46	0	K. TELFMVLIEK.K Oxidation (M)
194 - 203	1094.5573	1093.5500	1093.5074	39	0	K. VAVCSTSNEK.A
223 - 231	945.5579	944.5506	944.5331	18	0	K. IFAGDVVPK.K
253 - 267	1502.7375	1501.7302	1501.7810	-34	0	K. CVVVEDSAIGLAAAK.A

Spot No.: **175**

Mascot score: **85**

Sequence coverage %: **36**

NCBI accession No.: **gi| 15222972**

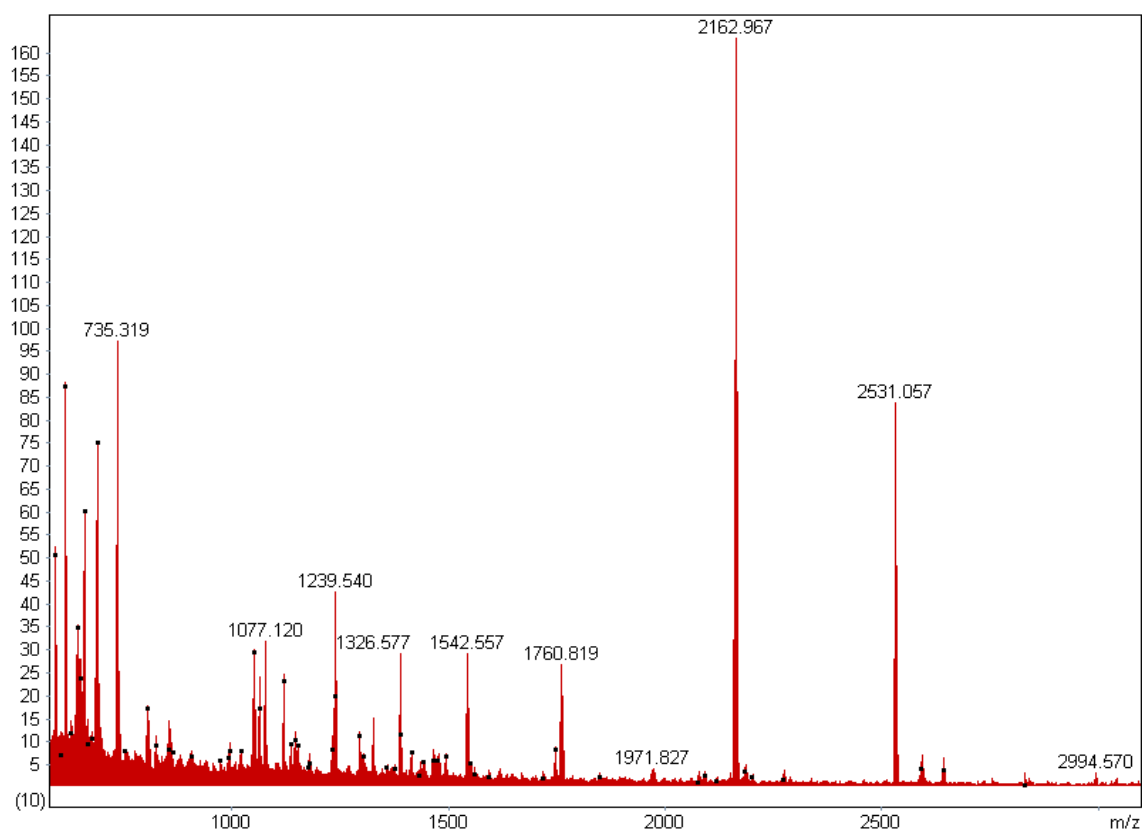
Matched peptides No.: **8**

Total peptides No.: **42**

Calculated Mr: **34442**

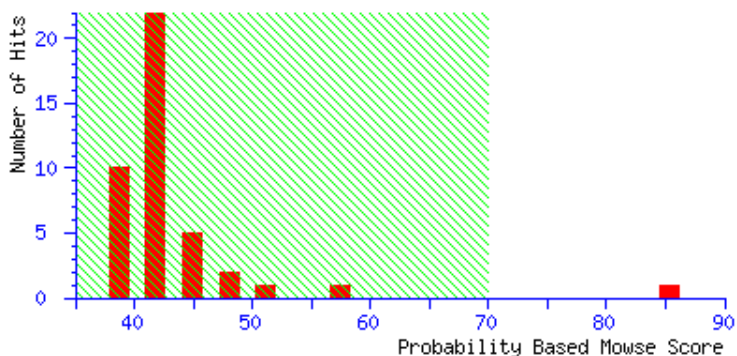
Calculated pI: **5.93**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MALVVICGQP CSGKSIAAVT LAETLKESET KQSVRIIDEA SFHLDRNQNY
51 ANMPAEKNLR GKLRSDVDRS **VSTGEIVVD SLNSIKGYRY** ELWCIAARAAG
101 IRYCVVYCDV DEAHCRQWNK ERSDRGEDGY DDGIFEDLVR **RFEKPERRNR**
151 WDSPLFELYP SREVIDKSSP VILEAVTYLT KTVDSKTQDV RILQPSIATQ
201 AARFSEANSL YELDRATQEI INAIVEQQLS GAAISR**VTLG NELPPIEICR**
251 PIGLPELRR RRTFVK**LMGQ SSSLGPPLPT DADSAKRRFV** DYLNREFGGN
301 NA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 14	1388.6576	1387.6503	1387.6952	-32	0	M.ALVVICGQPCSGK.S
27 - 35	1063.3355	1062.3282	1062.5305	-190	1	K.ESETKQSVR.I
36 - 57	2592.2308	2591.2235	2591.2074	6	1	R.IIDEASFHLDRNQNYANMPAEK.N Oxidation (M)
47 - 57	1295.6112	1294.6039	1294.5612	33	0	R.NQNYANMPAEK.N Oxidation (M)
70 - 86	1760.8193	1759.8120	1759.9567	-82	0	R.SVSTGEIVIVDSLNSIK.G
142 - 147	805.3438	804.3365	804.4130	-95	0	R.FEKPER.R
237 - 259	2642.1420	2641.1347	2641.4737	-128	1	R.VTLGNELPPIEICRPIGLPELRR.L
267 - 286	1971.8268	1970.8195	1970.9619	-72	0	K.LMGQSSSLGPPLPTDADSAK.R

Spot No.: 176

Mascot score: 83

Sequence coverage %: 19

NCBI accession No.: gi| 147795173

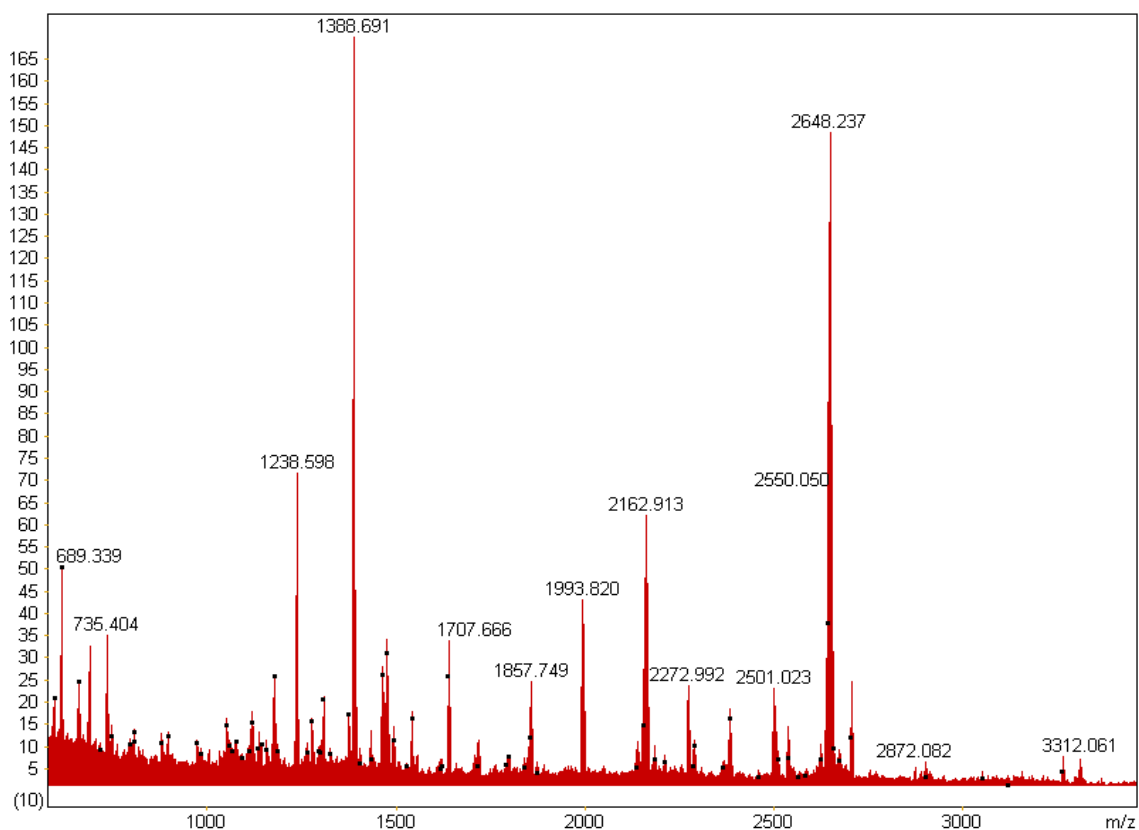
Matched peptides No.: 19

Total peptides No.: 61

Calculated Mr: 112287

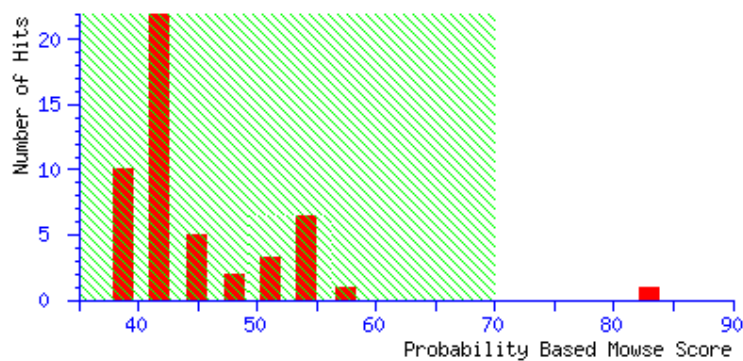
Calculated pI: 8.88

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSGSGGFAVS RTPSGDR**FYN** **SPAMRRHQQL** LLQQQQQVEQ **RRHQQQKQLR**
51 SEPAAEAEAR TSDDDSTLSK PSVCSASPPR PAANMTNIDR LVESVTPVVP
101 AQYTSEASIR GWRTREIDHN PFFFLGDLWE SFKEWSVYGV GVPLLLNGSD
151 SVKQYVVPFL SGIQLYIDPR KPLSWLRRPG EESDAESSRE TSSAGSSDCE
201 AERRAKGVAD GAWSQHNPMM LNSQRMSRLS **LREKSHMSSS** **SDEAEAKVRH**
251 **SFMVRVVGRF** MVLTHCQRFI TCLWLASIVE XISLQCLILF QVGRKALGVS
301 FGMKVLINPK CLWLQIFSS PTKQRGLILC VVVQPSDLSI FVSSSVKTVP
351 TKGRKK**DGCG** **FSLAQFCYAR** **TLPTGNLNSR** FKGIWGLTVL IRLPLSVWLY
401 **IEGNNNFYIR** NRYSAFSRIH NRDERLRVGF CRSEITLSKL IRMGVRARNG
451 NDRFR**TIWTP** **EMDRYFIDLM** **LEQVNKGNRI** DDHLFSKRAW KQMTALFNAK
501 FNFQYEKDV L KNRHKTLRNL YKAIKNLLCQ RGFSWDEQRQ MVTADNNVWD
551 EYIKGHPDAR SYRIKTIPYY NDLCFIYRNA **TPEQKGMHFG** **HDGNLDNSIS**
601 **GSKMSGISPV** TSVDDGEPTD IIHESHS GG NKIVTATQPM SLGEVAVEAL
651 HDIMINEEYD ISLSKETVDE KPQAPPGETG PSMHRTRTY WQPPMDR**YFI**
701 **DLMLDQVQKG** **NQVDGVFRKQ** **AWMEMIASFN** **AKFGFKYDMD** VLKRNFRKTLR
751 RQYNVIRSL DLNGFIWDDT RQMVTADDCV WQDYIKHTN ARQYMTRPVP
801 YYQDLCVICR ELSIDGRDTD LGYDEPDDIP EVKFQGV LKI SESPAA SFSS
851 EEQLGELKES SHSGLRRNKR QLENPSNSAT PKRIRK**KDGN** **MASALREMT**
901 AVSSISEKNK DDENSGSISI ESVIEAVQAL PDMDEELVLD ACDFLEDEKK
951 AKTFLALDVK LRKK**WLIRKL** RPQQL

Matched peptides information:

1 MSGSGGFAVS RTPSGDR**FYN** **SPAMRRHQQL** LLQQQQQVEQ **RRHQQQKQLR**
51 SEPAAEAEAR TSDDDSTLSK PSVCSASPPR PAANMTNIDR LVESVTPVVP
101 AQYTSEASIR GWRTREIDHN PFFFLGDLWE SFKEWSVYGV GVPLLLNGSD
151 SVKQYVVPFL SGIQLYIDPR KPLSWLRRPG EESDAESSRE TSSAGSSDCE
201 AERRAKGVAD GAWSQHNPMM LNSQRMSRLS **LREKSHMSSS** **SDEAEAKVRH**
251 **SFMVRVVGRF** MVLTHCQRFI TCLWLASIVE XISLQCLILF QVGRKALGVS
301 FGMKVLINPK CLWLQIFSS PTKQRGLILC VVVQPSDLSI FVSSSVKTVP
351 TKGRKK**DGCG** **FSLAQFCYAR** **TLPTGNLNSR** FKGIWGLTVL IRLPLSVWLY
401 **IEGNNNFYIR** NRYSAFSRIH NRDERLRVGF CRSEITLSKL IRMGVRARNG
451 NDRFR**TIWTP** **EMDRYFIDLM** **LEQVNKGNRI** DDHLFSKRAW KQMTALFNAK
501 FNFQYEKDV L KNRHKTLRNL YKAIKNLLCQ RGFSWDEQRQ MVTADNNVWD
551 EYIKGHPDAR SYRIKTIPYY NDLCFIYRNA **TPEQKGMHFG** **HDGNLDNSIS**
601 **GSKMSGISPV** TSVDDGEPTD IIHESHS GG NKIVTATQPM SLGEVAVEAL
651 HDIMINEEYD ISLSKETVDE KPQAPPGETG PSMHRTRTY WQPPMDR**YFI**
701 **DLMLDQVQKG** **NQVDGVFRKQ** **AWMEMIASFN** **AKFGFKYDMD** VLKRNFRKTLR
751 RQYNVIRSL DLNGFIWDDT RQMVTADDCV WQDYIKHTN ARQYMTRPVP
801 YYQDLCVICR ELSIDGRDTD LGYDEPDDIP EVKFQGV LKI SESPAA SFSS
851 EEQLGELKES SHSGLRRNKR QLENPSNSAT PKRIRK**KDGN** **MASALREMT**
901 AVSSISEKNK DDENSGSISI ESVIEAVQAL PDMDEELVLD ACDFLEDEKK
951 AKTFLALDVK LRKK**WLIRKL** RPQQL

Spot No.: 177

Mascot score: 82

Sequence coverage %: 25

NCBI accession No.: gi| 226523893

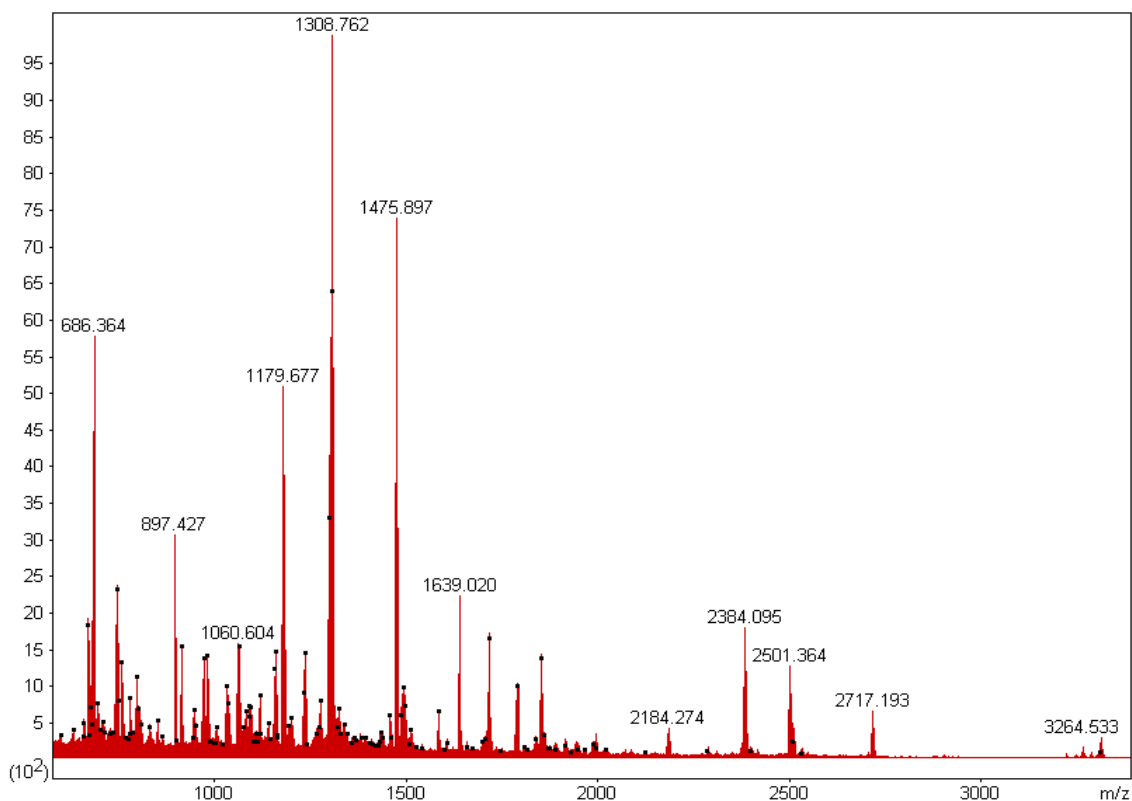
Matched peptides No.: 31

Total peptides No.: 128

Calculated Mr: 129198

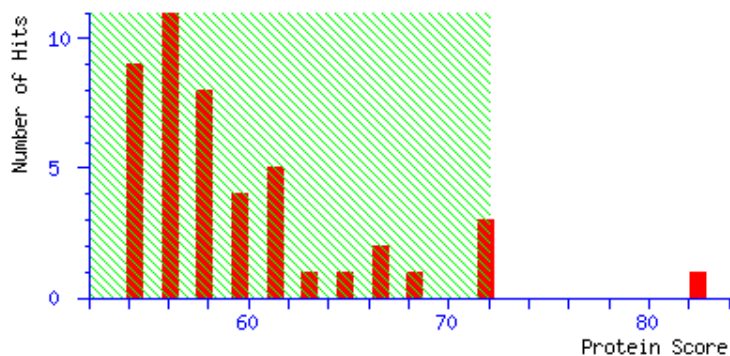
Calculated pI: 9.62

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MVLTTNNQGV AALASRMTKP AVIVAPRSNT TRLEDFEIQR KLGKGSFGVV
51 YAVTRRRDPT ERKRTYVMKQ ISMGPSRRDQ EEAINECRVL AKLNHAHVVR
101 YHESFVASGN RLCIVMEYAP KGTVHSLVQG AKPKALSEDV VWRLLTQSAL
151 GLHHIHGLKI LHRDIKAENI FLDKDGNAKI GDLGVAKVMT HAVDFAKTLV
201 GTPYYLSPDL CENKPYNHKS DVWSLGCVVY EMMTGSHPFN AQNQGALFVK
251 ILKGKYPPVR DASFSADLKE LMDRCLTVNQ TRRPDTAGIL RSRAARAKAN
301 ALGLQLPSDV PPPSNPREAF AAAARPVTDQ PPKPDQATQ LAARQORRAA
351 TAVGSSRADR AAARGGPNGG P'TETALQAVE RIASARGADR VGRRVGHVPGD
401 FVRVRLGEIS GLPVGYGGAG GLAYAAARMA DASAAARRPS TATHDRTAGR
451 SAAVIAGIAA AAAGGGVRGV AAAESELLRRI RAESARTAAR ADDAARHRAV
501 AVDAARDAED EASRRRKEAG DAMRAARERR REREEERQK VLAERRRARV
551 EAAAIAAEES RAKLAAAKAE LVNQRRRQS GRVNTGGYDG NGPETAGKRL
601 ETDRTPPSFP LRKTALPPSP LQGLAAATGA APAGAAPRRA PSSRKPTAAN
651 PGTVAAPARPA SAMPVTAPVT VLVGSRVGEV STSRPKSAE RREAARVADA
701 DLVAALPESP GADGVRTRDV PPTAIHPFDR PDDFDEARAM AELAARHVPP
751 KVNFEGKNRS EQPETPKPAR DDGWDEGVSP SPAAPSRRSR PRTAGGVVDV
801 AKARRDAAEA SRAAVRAAKS PKKSPKSPK ASHPSSRPAS AFIRRTGDIF
851 GGARGRARPV TARDVSDSTS SESSSSKMPH PAVSSYAEAH ERRTRAPHPS
901 PPVQGTAAA IGVARLAVLA VDHFVASAGE GNDGSLGSLG AGSGSSISSE
951 EISRAAAEA AAARAAASVA SEGRAEPASS SSGTSSSSSR DGVEGDKENR
1001 DGGVPAFVFG DATGDASGDD DDDYSPSAF EDSGNLRAAA GSPDPAGAV
1051 ARALRATVRA LESVLGSPHP SINS DAGLKP FVDDEEESSE SGSEPGTNPS
1101 TPRSEYSDA ARHSECSDSE ERFVRAHGAS RAERVEELVS EMTATEDAAV
1151 ALVGAESFGL LYDFLARSE AAQDGRLHEK PGTPEKVRQL SERVFDIVPR
1201 EKAEAVALAH RYAYLVERLE AV

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
58 - 63	745.3946	744.3873	744.3766	14	1	R.DPT ERK .R
64 - 69	797.3515	796.3442	796.4265	-103	1	K. RTYVMK .Q
65 - 69	657.2327	656.2254	656.3203	-145	0	R. TYVMK .Q Oxidation (M)
65 - 77	1497.9091	1496.9018	1496.7479	103	1	R. TYVMKQISMGPSR .R
65 - 77	1513.8842	1512.8769	1512.7429	89	1	R. TYVMKQISMGPSR .R Oxidation (M)
79 - 92	1674.8790	1673.8717	1673.8042	40	1	R. DQEEAINECRVLAK .L
93 - 100	945.5112	944.5039	944.5304	-28	0	K. LNHAHVVR .Y
135 - 143	1074.5824	1073.5751	1073.5506	23	0	K. ALSEDVVWR .L
167 - 179	1434.8666	1433.8593	1433.7150	101	1	K. AENIFLDKDGNAK .I
188 - 197	1118.5784	1117.5711	1117.5590	11	0	K. VMTHAVDPAK .T
256 - 260	631.2763	630.2690	630.3489	-127	0	K. YPPVR .D
270 - 274	679.3334	678.3261	678.3007	38	0	K. ELMDR .C Oxidation (M)
283 - 293	1241.6548	1240.6475	1240.7000	-42	1	R. RPDTAGILRSR .A
361 - 381	2023.0821	2022.0748	2022.0242	25	1	R. AAARGGPNGGPTETALQAV ER .I
469 - 479	1158.6695	1157.6622	1157.6153	41	1	R. GVAAAESELRR .I
480 - 486	802.4276	801.4204	801.4457	-32	1	R. IRAESAR .T
497 - 506	1065.5644	1064.5571	1064.5839	-25	1	R. HRAVAVDAAR .D
518 - 524	749.3433	748.3360	748.3174	25	0	K. EAGDAMR .A
579 - 598	1965.0928	1964.0855	1963.8984	95	1	R. QSGRVNTGGYDGNGPETAGK .R
605 - 612	914.5542	913.5469	913.5022	49	0	R. TPPSFPLR .K
739 - 746	832.4666	831.4594	831.4272	39	0	R. AMAELAAR .H
739 - 751	1406.7897	1405.7824	1405.7500	23	1	R. AMAELAARHVPPK .V Oxidation (M)
789 - 802	1412.7661	1411.7588	1411.7896	-22	1	R. SRPRTAGGVVDVAK .A
813 - 819	686.3641	685.3568	685.4235	-97	1	R. AAVRAAK .S
878 - 893	1838.1080	1837.1007	1836.8689	126	1	K. MPHPAVSSYAEAHERR .T
965 - 990	2384.0954	2383.0881	2383.0847	1	1	R. AAASVASEGRAEPASSSGTSSSSSR .D
1038 - 1052	1307.7834	1306.7761	1306.6629	87	0	R. AAAGSPDPAGAVAR .A
1113 - 1122	1235.6618	1234.6545	1234.4520	164	0	R. HSECSDSEER .F
1168 - 1176	989.5283	988.5210	988.4686	53	1	R. RSEAAQDGR .L
1189 - 1200	1458.8390	1457.8317	1457.7991	22	1	R. QLSERVFDIVPR .E
1201 - 1211	1194.6639	1193.6566	1193.6516	4	1	R. EKAEAVALAH .Y

Spot No.: **178**

Mascot score: **92**

Sequence coverage %: **28**

NCBI accession No.: **gi| 312282781**

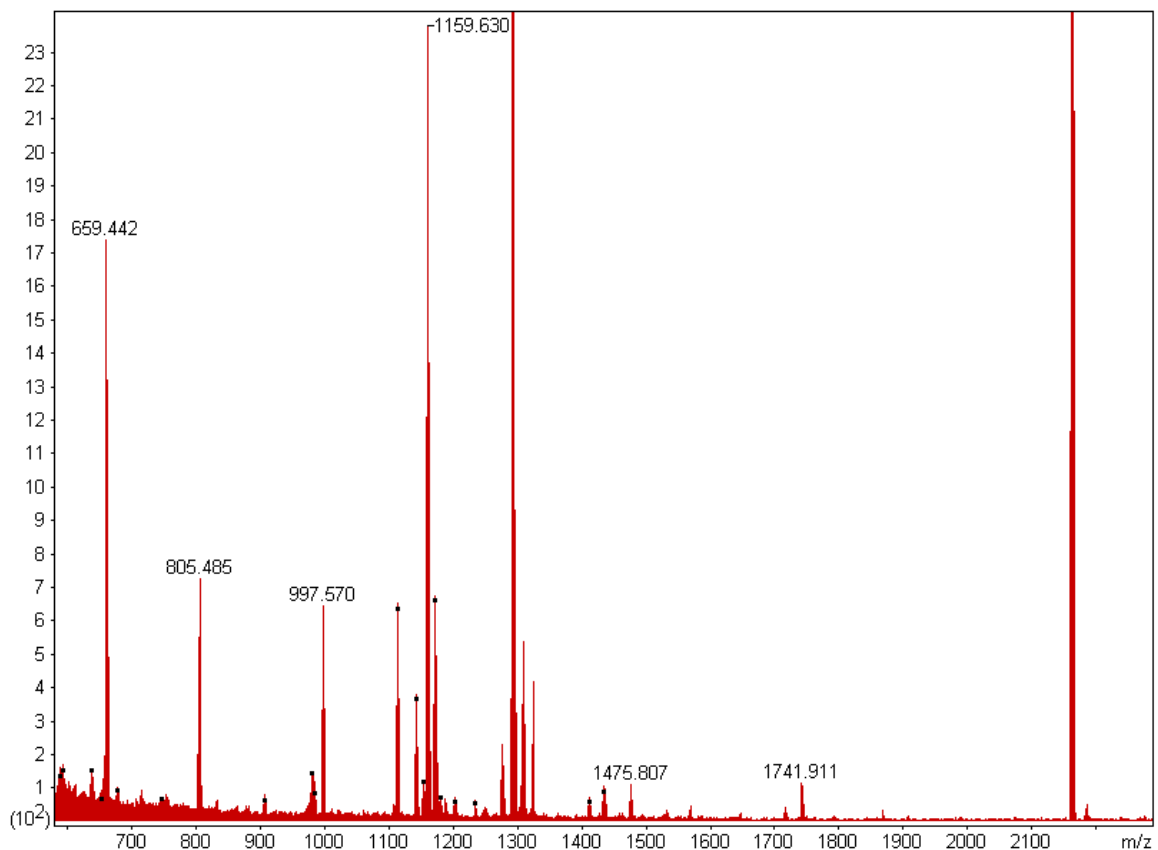
Matched peptides No.: **9**

Total peptides No.: **28**

Calculated Mr: **27997**

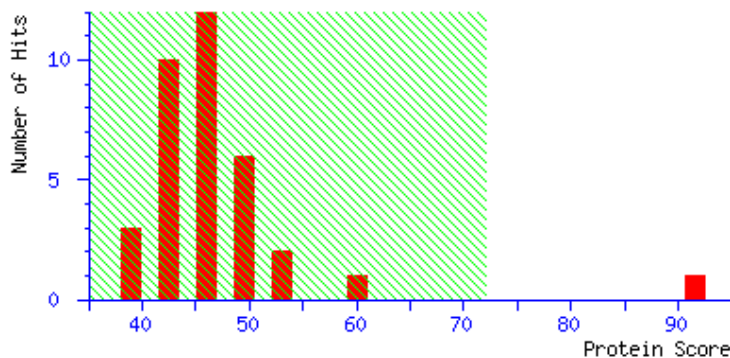
Calculated pI: **6.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```
1 MASRALSSFT TKPAPSPKPH GVSSASSPAF SIGFSRKTSG RAMVVAAPV
51 DTNNMPMTGV VFQPFEEVKK ADLAIPIKSH VSLARQGYAD ATEAAINEQI
101 NVEYNVSYVY HSMYAYFDRD NVALKGLAKF FKESSEEERG HAEKFMEYQN
151 KRGGRVKLHP IVSPISEFEH AEKGDALYAM ELALSLEKLT NEKLLNVHSV
201 ATENNDPQLA DFBVETEFLEGE QIEAIKKISD FITQLRMVGK GHGVWHFDQS
251 LLN
```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
79 - 85	769.3198	768.3125	768.4242	-145	0 K.SHVSLAR.Q
120 - 125	659.2740	658.2668	658.3650	-149	0 R.DNVALK.G
130 - 139	1287.4622	1286.4549	1286.5779	-96	1 K.FFKESSEEER.G
133 - 139	865.2333	864.2260	864.3461	-139	0 K.ESSEEER.G
145 - 151	975.2854	974.2781	974.4167	-142	0 K.FMEYQNK.R Oxidation (M)
156 - 173	2059.9988	2058.9915	2059.1102	-58	1 R.VKLHPIVSPISFEFEHAEK.G
158 - 173	1832.8250	1831.8177	1831.9468	-70	0 K.LHPIVSPISFEFEHAEK.G
174 - 188	1639.6794	1638.6721	1638.8174	-89	0 K.GDALYAMELALSLEK.L Oxidation (M)
228 - 236	1092.4888	1091.4815	1091.5975	-106	0 K.ISDFITQLR.M

Spot No.: **179**

Mascot score: **89**

Sequence coverage %: **28**

NCBI accession No.: **gi| 88175069**

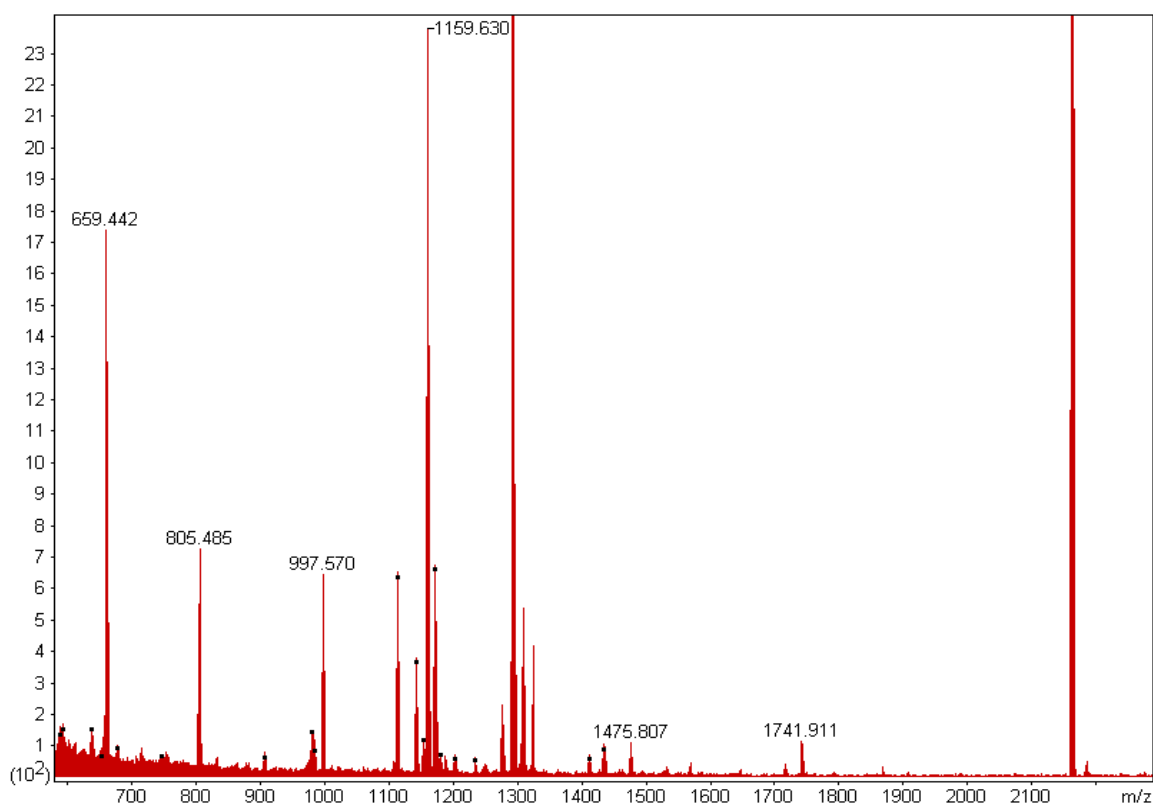
Matched peptides No.: **7**

Total peptides No.: **18**

Calculated Mr: **24790**

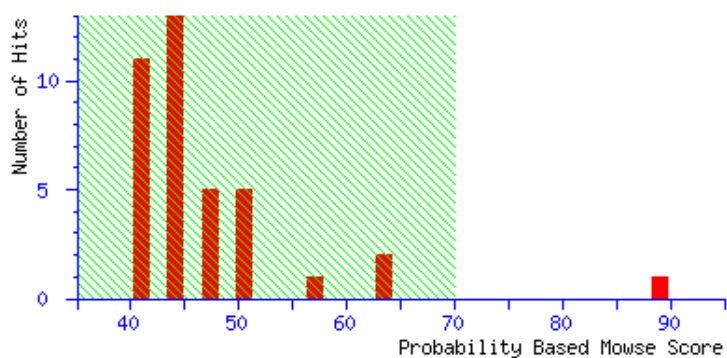
Calculated pI: **5.16**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 GASGIGEATA RELVKNGARV VLADVQDDLQ RALATDLGAD AASYTRCDVT
51 DEAQVAAAVD LAVARHGKLD TIFMNAGVVG SLAR**SPLGAL DLDDFDRVMA**
101 VNTR**GVMAGV KHAAR**VVMVPR RSGSIICTAS IAGVLGMITP HPYSVSKSAV
151 VGLVR**AVAGE VARGV**RVNA ISPNYIPTPL VMR**ILEEWYP ERSAD**EHRLI
201 **VERDINEMEG** VWLEPEDIAR **AAVYLASDES KYVM**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
85 - 97	1433.7808	1432.7735	1432.6834	63	0	R.SPLGALDLDDFDR.V
105 - 111	677.3683	676.3611	676.3578	5	0	R.GVMAGVK.H Oxidation (M)
105 - 115	1112.6299	1111.6226	1111.5920	28	1	R.GVMAGVKHAAR.V Oxidation (M)
156 - 167	1171.6330	1170.6257	1170.6469	-18	1	R.AVAGEVARGVR.V
184 - 192	1234.6948	1233.6875	1233.6030	69	0	R.ILEEWYPER.S
193 - 203	1324.7269	1323.7196	1323.6895	23	1	R.SADHRLIVER.D
221 - 231	1153.6329	1152.6256	1152.5662	52	0	R.AAVYLASDESK.Y

Spot No.: **180**

Mascot score: **84**

Sequence coverage %: **29**

NCBI accession No.: **gi| 183206803**

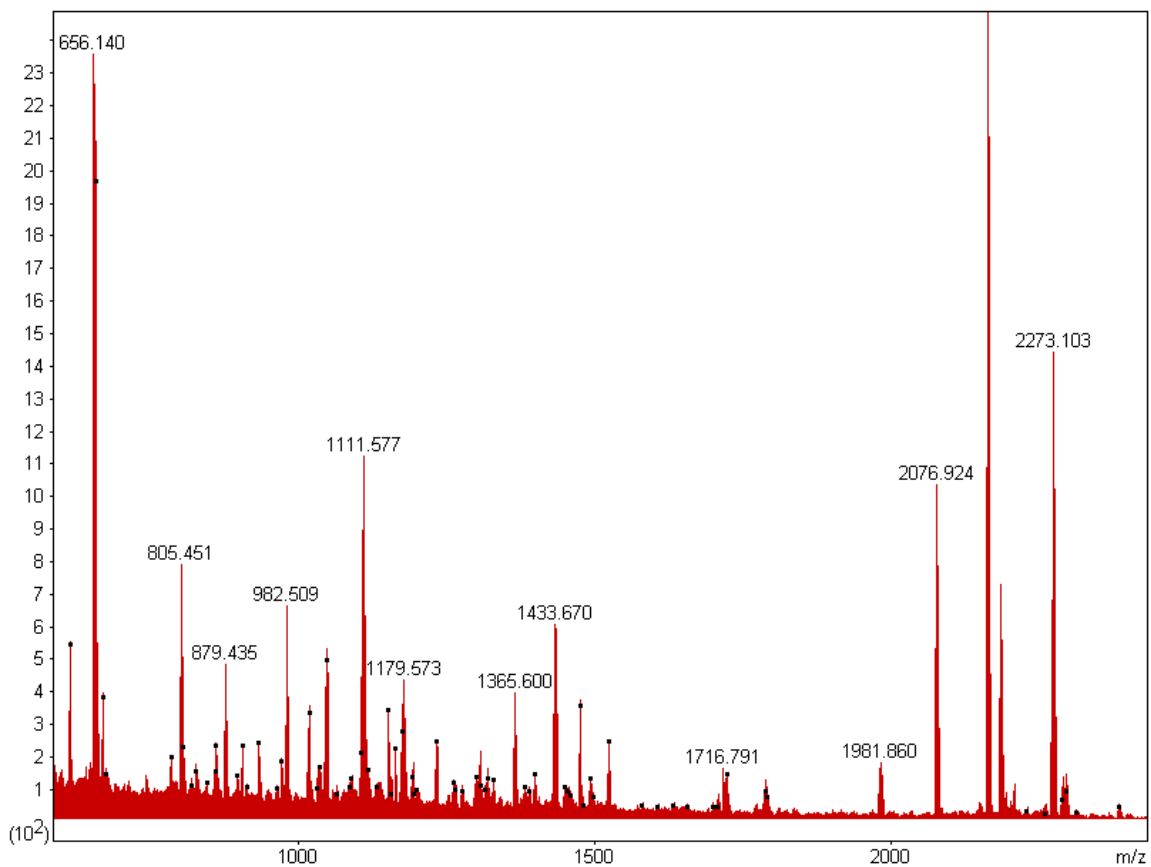
Matched peptides No.: **16**

Total peptides No.: **91**

Calculated Mr: **54896**

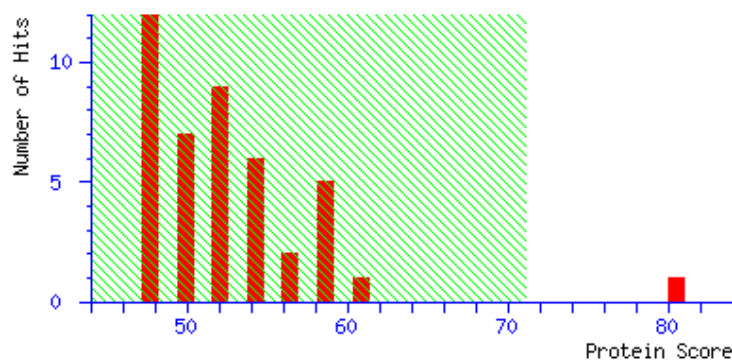
Calculated pI: **6.27**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MHSSL**SFAAV **CRPEAV**GPRT **LSNGR**GSSVI **ADSSAIL**SIR LTRAMQP**DVC**
 51 RNLKLR**RTQV** **RSDAAPS**AVG SHTGE**FDTKA** **FRRTL**TRKEN YNRK**GFGHKE**
 101 **ETLEAM**DKEY TSDII**KT**LKE NNNEY**TW**GNV TVK**LAES**FGF CWG**VERAV**Q**I**
 151 **AYEAR**KQFPD **QKLWIT**NEIM **HNPTV**N**QRLK** **EMQIE**DIPVM **EEGKK**FDVVN
 201 NDDVVILPAF GAAL**SEM**QIL DEK**GVK**IAD**T** **TCPWV**SKVWN TVEK**HKKES**F
 251 TSVI**HGK**KGH EETVAT**SSFA** GKYI**I**VKDIK EATY**VCD**YIL AGK**L**DG**SSST**
 301 KEE**FLK**KFEK AIS**RGF**DPDC **DLVKV**GIAN**Q** **TTMLK**GETEE **IGK**LLEKT**MM**
 351 **QKYG**VEFINE HFMC**FNT**ICD AT**QER**QDAMY NLV**KEK**LDLI L**VVG**GWN**SSN**
 401 TSH**LQEI**AEQ NGT**PTY**WIDS EK**RIG**PGNRI AYK**LSH**GELV GKEN**WL**PTGP
 451 LKIGITSGAS TPD**KIL**EDTL KVV**FKM**KDEE **ALQ**MV

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
2 - 25	2569.0767	2568.0694	2568.2979	-89	1 M.HSSL SFAAVCRPEAVGPRTLSNGR .G
26 - 40	1475.7141	1474.7068	1474.7991	-63	0 R.GSS VIADSSAILSIR .L
57 - 61	659.4546	658.4474	658.3875	91	1 R. RTQVR .S
100 - 108	1065.5144	1064.5071	1064.4696	35	0 K.E ETLEAMDK .E
147 - 155	1020.4968	1019.4895	1019.5400	-49	0 R. AVQIAYEAR .K
163 - 178	1981.8603	1980.8530	1980.9840	-66	0 K.L WITNEIMHNPTVNQR .L Oxidation (M)
163 - 180	2206.9711	2205.9638	2206.1681	-93	1 K.L WITNEIMHNPTVNQRLK .E
181 - 195	1791.6926	1790.6853	1790.8430	-88	1 K. EMQIEDIPVMEGKK .F Oxidation (M)
227 - 237	1277.6640	1276.6567	1276.6122	35	0 K. IADTTCPWVSK .V
315 - 324	1165.5601	1164.5528	1164.5121	35	0 R. GFD PCDL VK .V
325 - 335	1175.5333	1174.5260	1174.6380	-95	0 K. VGIANQTTMLK .G
336 - 343	862.4543	861.4470	861.4080	45	0 K. GETEEIGK .L
344 - 352	1153.5425	1152.5352	1152.5882	-46	1 K.L L EKT MMQK .Y 2 Oxidation (M)
476 - 485	1193.5664	1192.5591	1192.5468	10	1 K. MKDEEALQMV .-
478 - 485	934.5047	933.4975	933.4113	92	0 K. DEEALQMV .-

Spot No.: **181**

Mascot score: **276** Sequence coverage %: **49**

NCBI accession No.: **gi| 27752799**

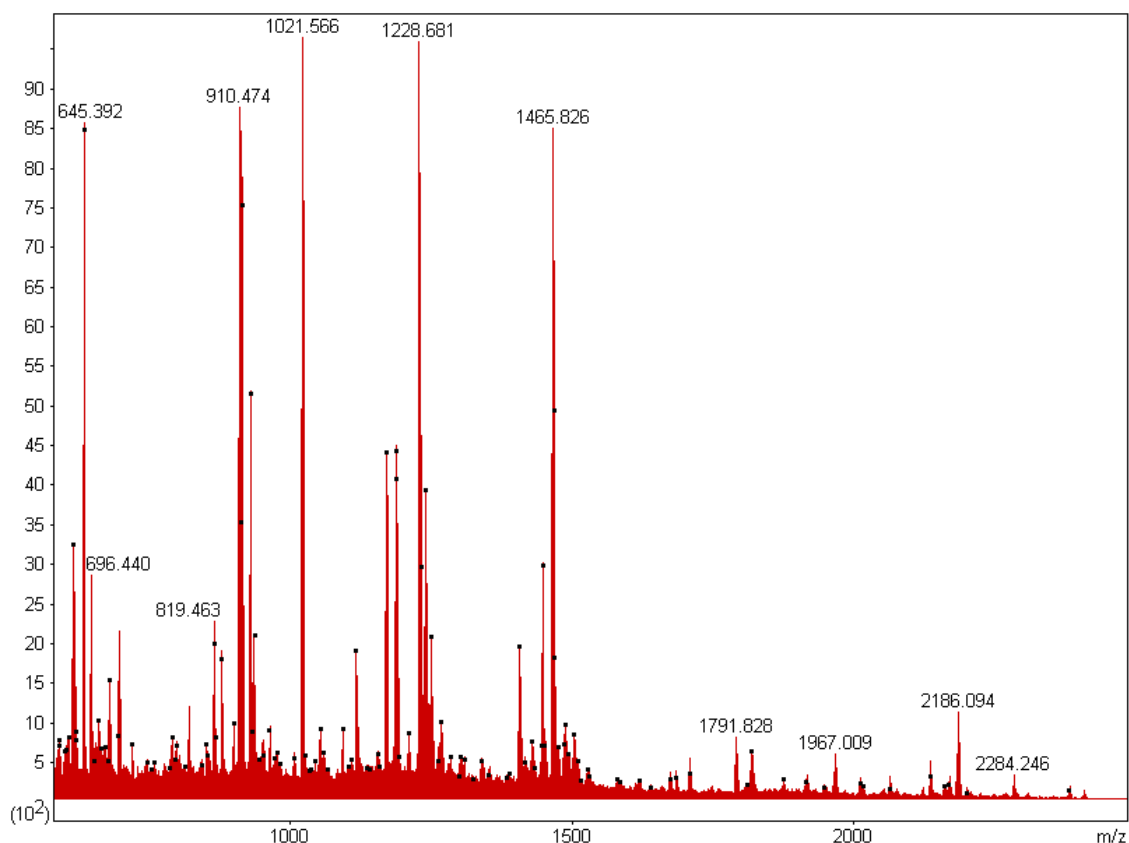
Matched peptides No.: **35**

Total peptides No.: **127**

Calculated Mr: **47920**

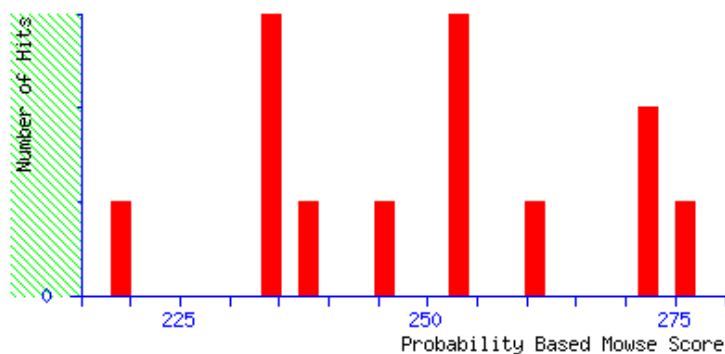
Calculated pI: **6.12**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **KLTYTPEYE** **TKDTDILAAF** **RVTPQGVPP** EEAGA AVAAE SSTGTWTTVW
51 TDGLTSLDRY KGRCYHIEPV PGEETQFIAY VAYPLDLFEE GSVTNMFTSI
101 VGNVFGFKAL **AALRLEDLRI** **PPAYTKTFQG** **PPHGIQVERD** **KLNKYGRPLL**
151 GCTIKPKLGL **SAKNYGRAVY** **ECLRGGLDFT** **KDDENVNSQP** **FMRWRDRFLF**
201 **CAEAIYKSQA** **ETGEIKGHYL** **NATAGTCEEM** **IKRAVFAREL** **GVPIVMHDYL**
251 TGGFTANTSL SHYCRDNGLL **LHIHRAMHAV** **IDRQKNHGMH** **FRVLAKALRL**
301 **SGGDHIHAGT** **VVGKLEGDRE** **STLGFVDLLR** DDYVEKDRSR GIFFTQDWVS
351 LPGVLPVASG GIHVWHMPAL TEIFGDDSVL QFGGGTLGHP WGNAPGAVAN
401 **RVALEACVQA** **RNEGRDLAVE** **GNEIIREACK**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 12	1407.6910	1406.6837	1406.6605	16	0	K.LTYTPEYETK.D
13 - 21	1021.5664	1020.5591	1020.5240	34	0	K.DTDILAAFR.V
109 - 114	614.4297	613.4224	613.3911	51	0	K.ALAALR.L
109 - 119	1240.7712	1239.7639	1239.7299	27	1	K.ALAALRLEDLR.I
115 - 119	645.3922	644.3849	644.3493	55	0	R.LEDLR.I
120 - 126	789.4398	788.4325	788.4432	-14	0	R.IPPAYTK.T
127 - 139	1465.8260	1464.8187	1464.7474	49	0	K.TFQGGPPHGIQVER.D
127 - 141	1708.9505	1707.9432	1707.8693	43	1	K.TFQGGPPHGIQVERDK.L
158 - 163	588.3508	587.3435	587.3642	-35	0	K.LGLSAK.N
168 - 174	910.4742	909.4669	909.4378	32	0	R.AVYECLR.G
175 - 193	2170.0637	2169.0564	2168.9797	35	1	R.GGLDFTKDDENVNSQPQFMR.W
175 - 193	2186.0938	2185.0865	2184.9746	51	1	R.GGLDFTKDDENVNSQPQFMR.W Oxidation (M)
182 - 193	1451.7019	1450.6946	1450.6147	55	0	K.DDENVNSQPQFMR.W
182 - 193	1467.7661	1466.7588	1466.6096	102	0	K.DDENVNSQPQFMR.W Oxidation (M)
194 - 197	632.3617	631.3544	631.3190	56	1	R.WRDR.F
198 - 207	1261.6589	1260.6516	1260.6213	24	0	R.FLFCAEAIYK.S
208 - 216	962.4861	961.4788	961.4716	7	0	K.SQAETGEIK.G
217 - 232	1810.8806	1809.8733	1809.8026	39	0	K.GHYLNATAGTCEEMIK.R Oxidation (M)
217 - 233	1967.0088	1966.0015	1965.9037	50	1	K.GHYLNATAGTCEEMIKR.A Oxidation (M)
266 - 275	1187.6923	1186.6850	1186.6571	24	0	R.DNGLLLHIHR.A
276 - 283	912.4961	911.4888	911.4647	26	0	R.AMHAVIDR.Q
276 - 283	928.4888	927.4815	927.4596	24	0	R.AMHAVIDR.Q Oxidation (M)
284 - 292	1154.5621	1153.5548	1153.5563	-1	1	R.QKNHGMHFR.V
284 - 292	1170.6472	1169.6399	1169.5512	76	1	R.QKNHGMHFR.V Oxidation (M)
286 - 292	898.4459	897.4386	897.4028	40	0	K.NHGMHFR.V
286 - 292	914.4437	913.4364	913.3977	42	0	K.NHGMHFR.V Oxidation (M)
286 - 296	1325.6517	1324.6444	1324.6823	-29	1	K.NHGMHFRVLAK.A Oxidation (M)
300 - 314	1447.8007	1446.7934	1446.7579	25	0	R.LSGGDHIHAGTVVGK.L
300 - 319	2018.0969	2017.0896	2017.0341	28	1	R.LSGGDHIHAGTVVGKLEGDR.E
315 - 319	589.3404	588.3331	588.2867	79	0	K.LEGDR.E
315 - 330	1820.0329	1819.0256	1818.9476	43	1	K.LEGDRESTLGFVDLLR.D
320 - 330	1249.6985	1248.6912	1248.6714	16	0	R.ESTLGFVDLLR.D
402 - 411	1116.6053	1115.5980	1115.5757	20	0	R.VALEACVQAR.N
412 - 426	1684.9266	1683.9193	1683.8540	39	1	R.NEGRDLAVEGNEIIR.E
416 - 426	1228.6809	1227.6736	1227.6459	23	0	R.DLAVEGNEIIR.E

Spot No.: **182**

Mascot score: **94**

Sequence coverage %: **29**

NCBI accession No.: **gi| 3121825**

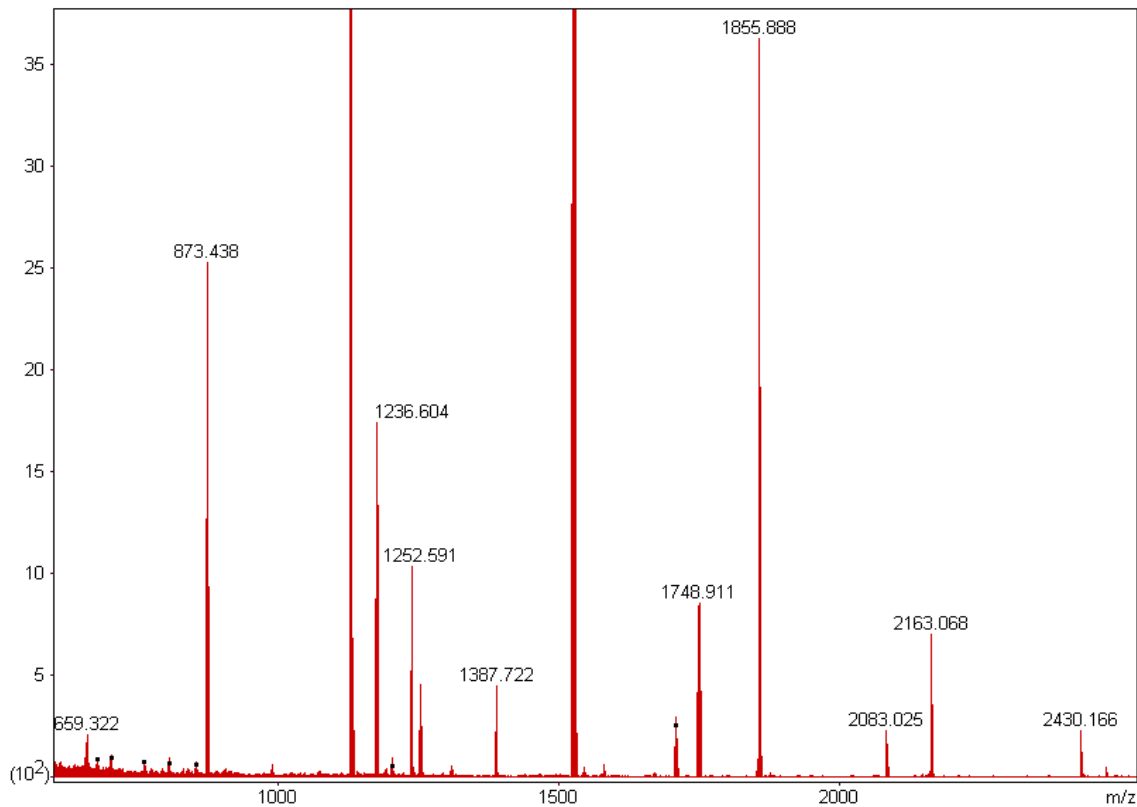
Matched peptides No.: **8**

Total peptides No.: **15**

Calculated Mr: **29049**

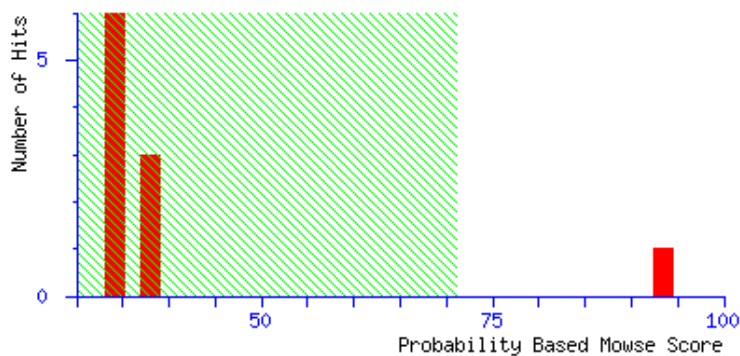
Calculated pI: **7.70**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```
1 MACVASSTTL ISSPSSRVFP AKSSLSSPSV SFLRTLSSPS ASASLRSGFA
51 RRSSLSTSR RSFAVKAQAD DLPLVGNKAP DFEAEAVFDQ EFIKVKLSDY
101 IGKKYVILFF YPLDFTFVCP TEITAFSDRH SEFEKLNTEV LGVSVDSVFS
151 HLAWVQTDRK SGGGLDLYNP LISDVTKSIS KSGVLIHDQ GIALRGLFII
201 DKEGVIQHST INNLGIGRSV DETMRTLQAL QYTGNPDEVC PAGWKPEKES
251 MKPDPKLSKE YFSAI
```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
79 - 94	1855.8522	1854.8449	1854.8676	-12	0	K.APDFEAEAVFDQ EFIK.V
160 - 177	1877.8816	1876.8743	1875.9942	269	1	R.KSGGLDLYNP LISDVTK.S
161 - 177	1748.8496	1747.8423	1747.8992	-33	0	K.SGGGLDLYNP LISDVTK.S
182 - 195	1525.7985	1524.7912	1524.8413	-33	0	K.SFGVLIHDQ GIALR.G
196 - 202	805.3134	804.3061	804.4745	-209	0	R.GLFIIDK E
196 - 218	2495.4287	2494.4214	2493.3703	222	1	R.GLFIID KEGVIQHSTINNLGIGR.S
203 - 218	1707.8212	1706.8139	1706.9064	-54	0	K.EGVIQHSTIN NLGIGR.S
219 - 225	853.2713	852.2640	852.3647	-118	0	R.SV DETMR.T Oxidation (M)

Spot No.: **183**

Mascot score: **94** Sequence coverage %: **29**

NCBI accession No.: **gi| 1498198**

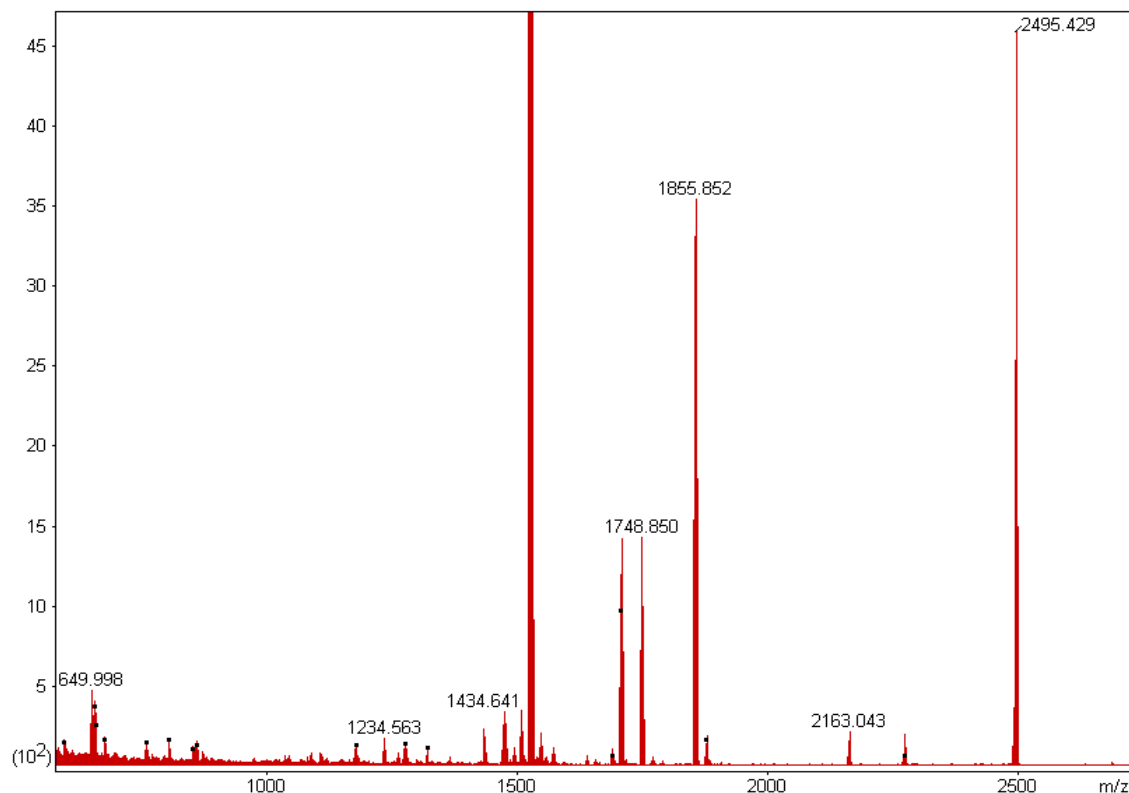
Matched peptides No.: **8**

Total peptides No.: **12**

Calculated Mr: **28966**

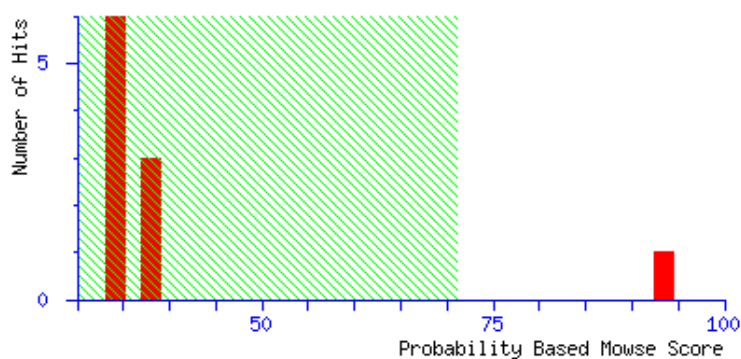
Calculated pI: **8.76**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```
1 MASVASSTTL ISSPSSRVFP AKSSLSSPSV SFLRTLSSPS ASASLRSGFA
51 RRSSLSSTSR RSFAVKAQAD DLPLVGNKAP DFKAEAVFDQ EFIKVKLSDY
101 NGKKYVILFF YPLDFTFVCP TEITAFSDRH SEFEKLNTEV LGVSVDSVFS
151 HLAWVQTDRK SGGLGDLNYP LISDVTKSIS KSGVLIHDQ GIALRGLFII
201 DKEGVIQHST INNLGIGRSV DETMRTLQAL QYTGNPDEVC PAGWKSGEKS
251 MKPDPKLSKE YFSAI
```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
79 - 94	1855.8522	1854.8449	1853.9200	299	1	K.APDFKAEAVFDQEFIK.V
160 - 177	1877.8816	1876.8743	1875.9942	269	1	R.KSGGLGDLNYPLISDVTK.S
161 - 177	1748.8496	1747.8423	1747.8992	-33	0	K.SGGLGDLNYPLISDVTK.S
182 - 195	1525.7985	1524.7912	1524.8413	-33	0	K.SFGVLIHDQGIALR.G
196 - 202	805.3134	804.3061	804.4745	-209	0	R.GLFIIDK.E
196 - 218	2495.4287	2494.4214	2493.3703	222	1	R.GLFIIDKEGVIQHSTINNLGIGR.S
203 - 218	1707.8212	1706.8139	1706.9064	-54	0	K.EGVIQHSTINNLGIGR.S
219 - 225	853.2713	852.2640	852.3647	-118	0	R.SVDETMR.T Oxidation (M)

Spot No.: **184**

Mascot score: **116** Sequence coverage %: **48**

NCBI accession No.: **gi| 15231176**

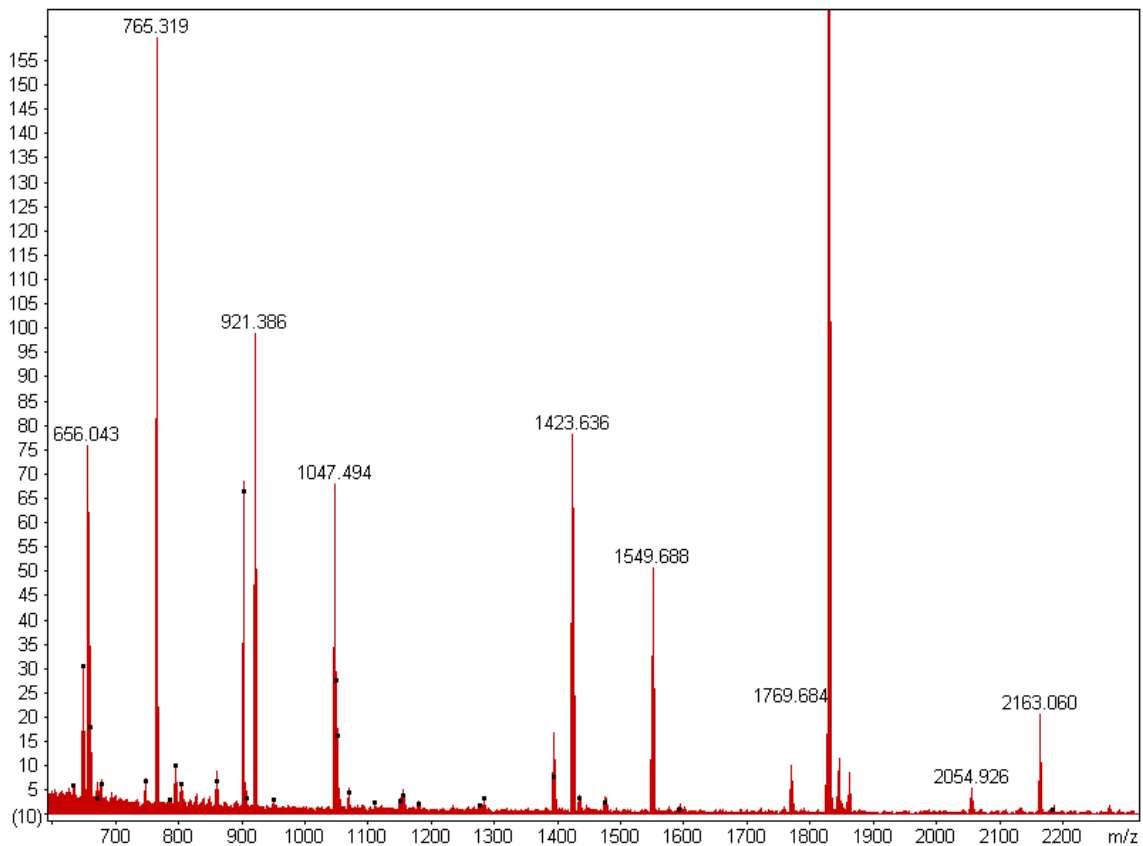
Matched peptides No.: **10**

Total peptides No.: **30**

Calculated Mr: **19574**

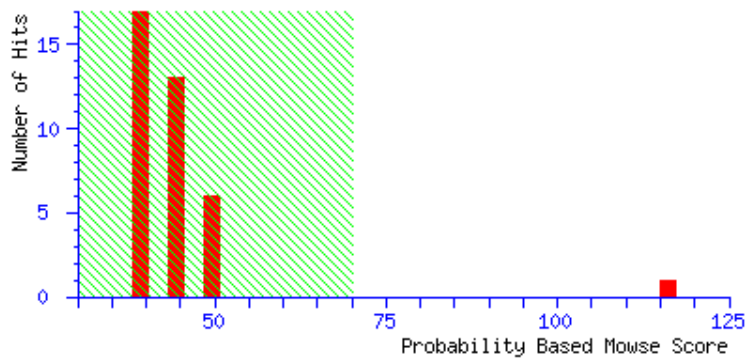
Calculated pI: **5.09**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSGAGKKIAD VAFKAS**TID WDGMAKVLVT DEARREFSNL RRAFDEVNTQ**
51 **LQTKFSQEPE PIDWDYYRKG** IGAGIVDKYK EAYDSIEIPK YVDKVTPEYK
101 PK**FDALLVEL KEAEQKSLKE** SERLEKEIAD VQEIS**KKLST MTADEYFEKH**
151 **PELKKKFDDE IRNDNWGY**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
18 - 26	1052.3842	1051.3769	1051.4644	-83	0 R.TIDWDGMAK.V Oxidation (M)
27 - 34	902.4150	901.4078	901.4869	-88	0 K.VLVTDEAR.R
36 - 41	765.3186	764.3113	764.3817	-92	0 R.EFSNLR.R
36 - 42	921.3857	920.3784	920.4828	-113	1 R.EFSNLR.R.A
42 - 54	1549.6883	1548.6810	1548.7896	-70	1 R.RAFDEVNTQLQTK.F
43 - 54	1393.5747	1392.5674	1392.6885	-87	0 R.AFDEVNTQLQTK.F
55 - 68	1844.7592	1843.7519	1843.8053	-29	0 K.FSQEPEPIDWDYYR.K
103 - 111	1047.4944	1046.4871	1046.6012	-109	0 K.FDALLVELK.E
138 - 154	2054.9262	2053.9189	2053.9666	-23	1 K.LSTMTADEYFEKHPELK.K Oxidation (M)
157 - 162	794.2927	793.2854	793.3606	-95	0 K.FDDEIR.N

Spot No.: **185**

Mascot score: **156** Sequence coverage %: **45**

NCBI accession No.: **gi| 15239282**

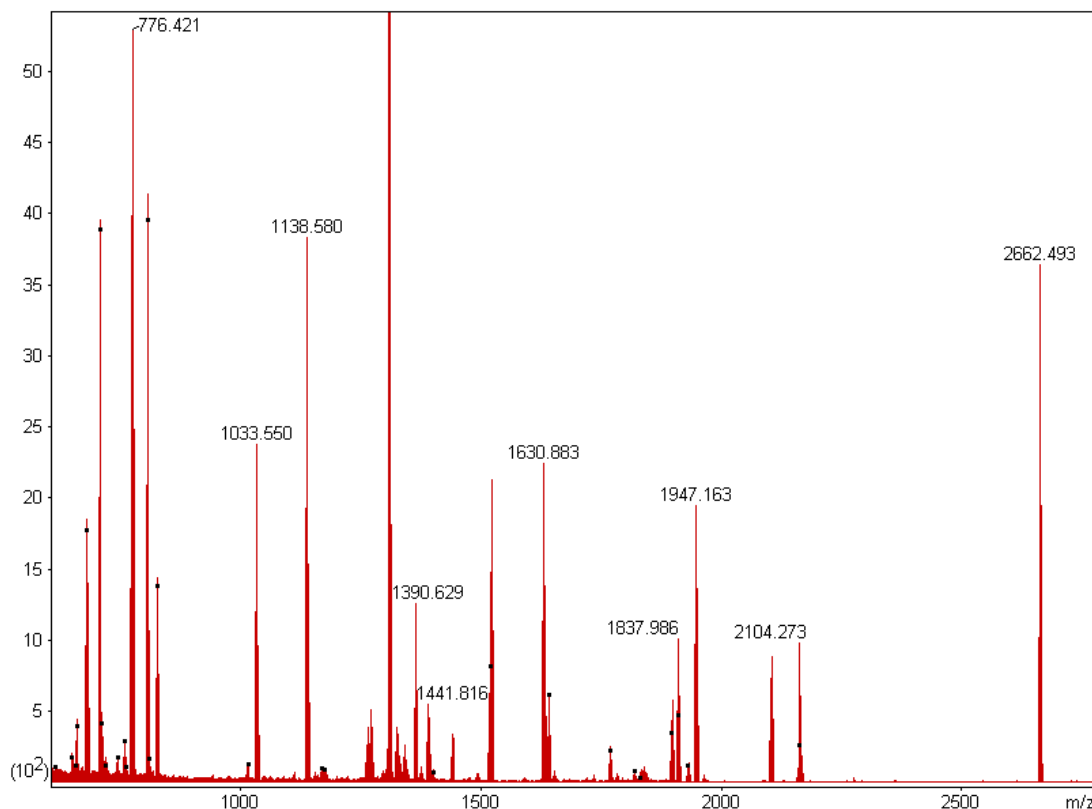
Matched peptides No.: **19**

Total peptides No.: **49**

Calculated Mr: **40643**

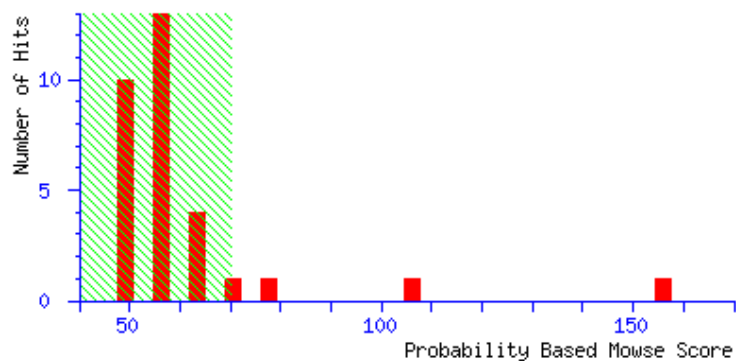
Calculated pI: **8.32**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MAAAISAAVS LPSSK**SSLL TKISSVSPQR IFLKKSTVCY RRVVSVKAQV
51 TTDTEAPPV KVKESKK**QE EGI**VVNKFKP **KNPYTGR**CLL NTKITGDDAP
101 GETWHIVFTT EGEVPYR**EGQ SIG**VIPEGID **KNGKPHKLRL YSIASSAIGD**
151 **FGDSK**TVSLC VKRLVYTNDG GEIVK**GVCSN FL**CDLKP**GDE AKITGPV**GKE
201 **MLMPK**DPNAT IIMLTGTGI APFRSFLW**KM FFE**EHEDYKF NGLAWLFLGV
251 PTSSSLYKE EFEKMKEKNP DNFR**LDFAVS RE**QTNEKGEK **MYIQTRMAEY**
301 **AEELWELLK DNTFV**YMCGL **KGMEK**GIDDI MVSLAA**KDGI DW**LEYKKQLK
351 **RSEQWN**VEVY

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 15	1272.6370	1271.6297	1271.7085	-62	0	M.AAAISAAVSLPSSK.S
69 - 77	1015.5140	1014.5067	1014.5346	-27	0	K.QEEGI VVNK.F
82 - 87	707.3896	706.3823	706.3398	60	0	K.NPYTGR.C
118 - 131	1441.8165	1440.8092	1440.7460	44	0	R.EGQSIG VIPEGIDK.N
132 - 137	680.4021	679.3948	679.3765	27	0	K.NGKPHK.L
140 - 155	1630.8828	1629.8755	1629.7886	53	0	R.LYSIASSAIGDFGDSK.T
176 - 192	1910.0109	1909.0036	1908.8710	69	0	K.GVCSNFLCDLKP GDEAK.I
193 - 205	1400.7542	1399.7469	1399.7567	-7	1	K.ITGPV GKEM LMPK.D
230 - 239	1374.6482	1373.6409	1373.5598	59	0	K.MFFE EHEDYK.F
230 - 239	1390.6288	1389.6215	1389.5547	48	0	K.MFFE EHEDYK.F Oxidation (M)
275 - 281	807.4803	806.4730	806.4286	55	0	R.LDFAVSR.E
291 - 296	811.4411	810.4338	810.4058	35	0	K.MYIQTR.M
291 - 296	827.4341	826.4268	826.4007	32	0	K.MYIQTR.M Oxidation (M)
297 - 309	1640.8870	1639.8797	1639.7803	61	0	R.MAEYAEELWELLK.K Oxidation (M)
297 - 310	1768.9945	1767.9872	1767.8753	63	1	R.MAEYAEELWELLK.D Oxidation (M)
311 - 321	1347.6761	1346.6688	1346.5999	51	0	K.DNTFV YMCGLK.G
338 - 346	1138.5802	1137.5729	1137.5342	34	0	K.DGIDW LEYK.K
338 - 347	1266.6620	1265.6547	1265.6292	20	1	K.DGIDW LEYK.Q
351 - 360	1309.6883	1308.6810	1308.6098	54	1	K.RSEQWN VEVY.-

Spot No.: **186**

Mascot score: **85** Sequence coverage %: **25**

NCBI accession No.: **gi| 84468402**

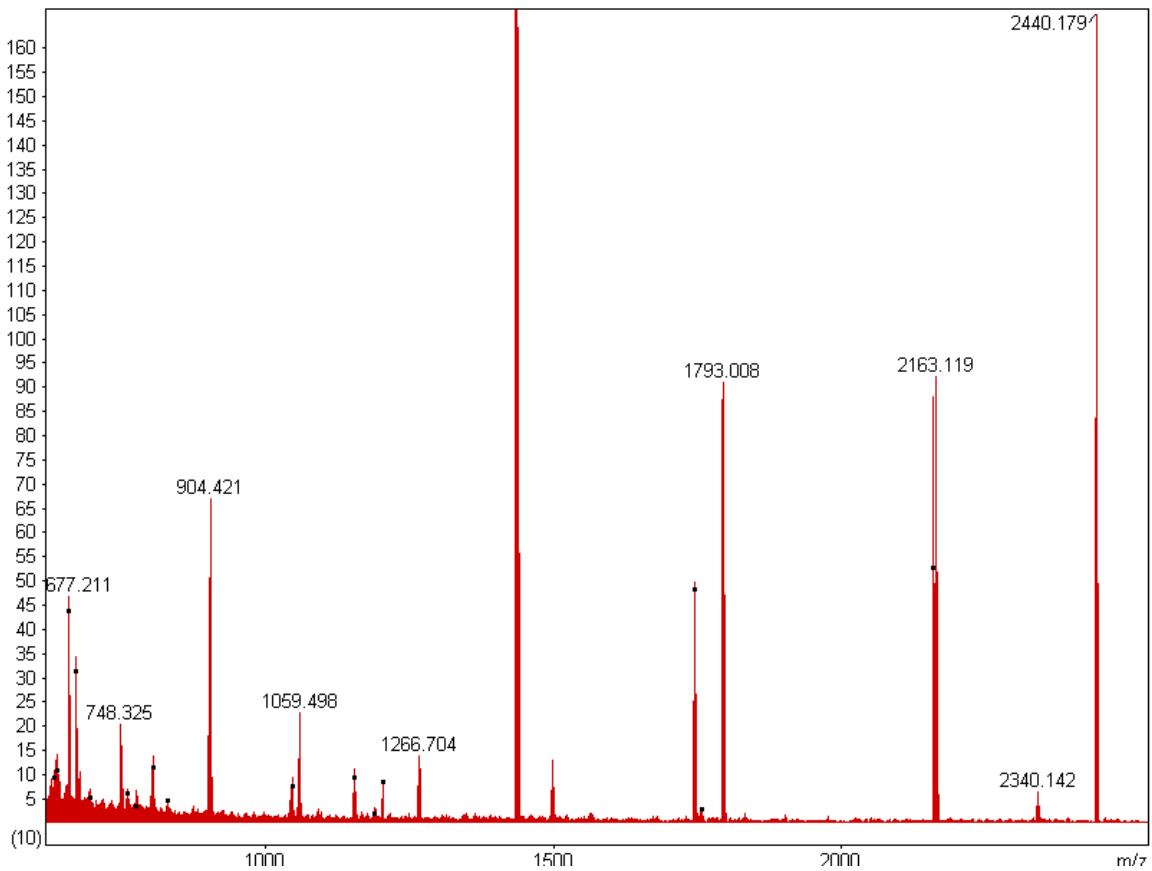
Matched peptides No.: **8**

Total peptides No.: **18**

Calculated Mr: **33553**

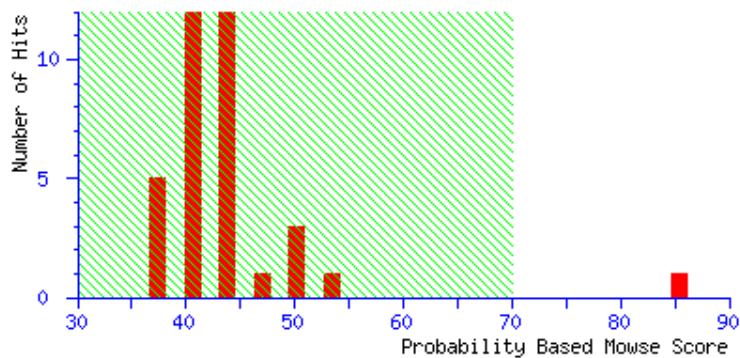
Calculated pI: **4.55**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MEFWGTEVKS GESLKVEPED DKIIHLSAAC LGEVSKDKGG EPVSLYVKID
51 NQKLQLGILS SEKIPQISFD LVFEKEFELS HNWKYGSIFF TGFKMESLLV
101 SDDDEDSDDS IEEDNPNVAA NGKPEVEVKN GAKPGVNEAQ QNKTSDPKKK
151 QKDIENDVSA DDEEDSSETD SDEDSSEDEP VANGQIESSD DEDDSEEDDE
201 DSDDEETPKK TEGGTRKRAE SSKKTPVAVK RAKFATPEKT GSKNGVHVDI
251 PYPKQIVKSG ANNKPPMKQQ TPQSTGDYSC KPCKRSFKTE DALGSHNRAK
301 HSAK

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence	
1 - 15	1743.9520	1742.9447	1742.8185	72	1	-.MEFWGTEVKS GESLK.V Oxidation (M)
23 - 36	1497.6973	1496.6900	1496.8021	-75	0	K.IIHLSAACL GEVSK.D
49 - 53	617.1900	616.1828	616.3180	-219	0	K.IDNQK.L
64 - 75	1435.7105	1434.7032	1434.7759	-51	0	K.IPQISFDLV FEK.E
76 - 84	1189.6505	1188.6432	1188.5564	73	0	K.EFELSHNWK.Y
211 - 217	748.3252	747.3179	747.3875	-93	1	K.TEGGTRK.V
217 - 223	776.2838	775.2765	775.4188	-183	1	K.RVAESSK.K
259 - 268	1059.4975	1058.4902	1058.5179	-26	0	K.SGANNKPPMK.Q Oxidation (M)

Spot No.: **187**

Mascot score: **88** Sequence coverage %: **29**

NCBI accession No.: **gi| 15232645**

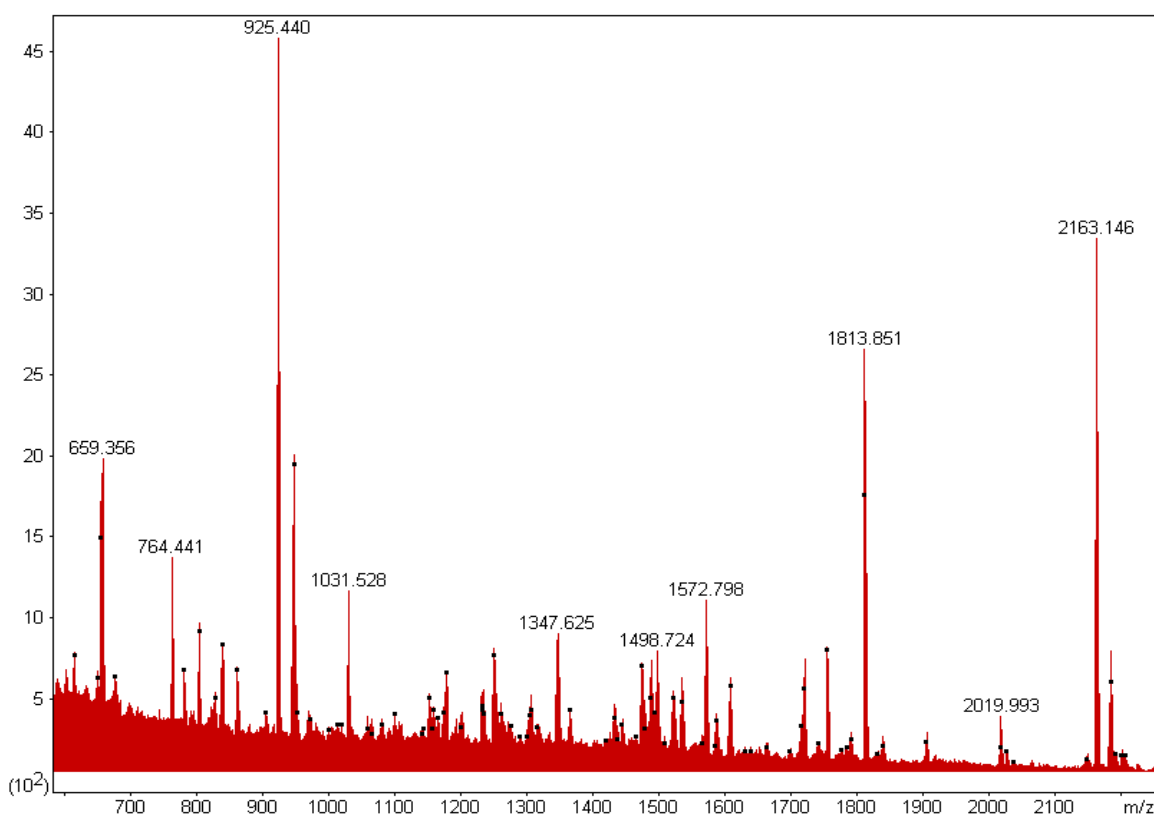
Matched peptides No.: **8**

Total peptides No.: **25**

Calculated Mr: **27743**

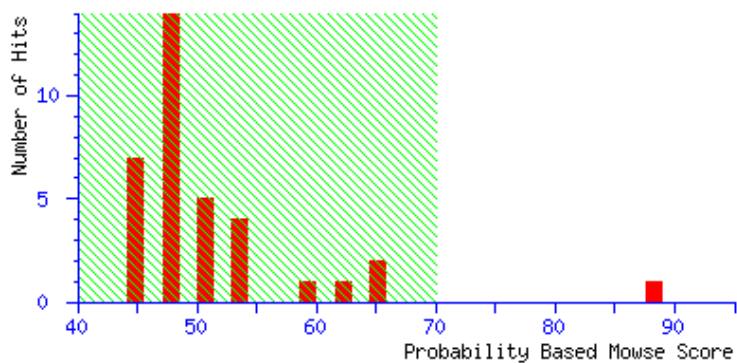
Calculated pI: **7.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSYSRQSMGS GSRSTRGYEF GR**TYVVRPKG** KHQATIVWLH GLGDMGSSSS
51 QLLESLPLPN IKWICPTAPS RPVSLLGGFP CTAWFDVGEI SEDLHDDIEG
101 LDASAAHIAN LLSAEPTDVK VGIGGFSMGA AIALYSTTCY ALGR**YGTGHA**
151 YTINLRATVG LSGWLPWRS LRSKIESSNE VARRAASIPI LLAHGTSDDV
201 VPYRFGEKSA HSLAMAGFRQ TMFKPYEGLG HYTVPKEMDE VVHWLVSRIG
251 LEGSR

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 5	659.3563	658.3490	658.2744	113	0	-.MSYSR.Q Oxidation (M)
1 - 13	1433.7223	1432.7150	1432.6187	67	1	-.MSYSRQSMGSGSR.S
6 - 16	1153.5505	1152.5432	1152.5306	11	1	R.QSMGSGSRSTR.G
23 - 29	862.3890	861.3818	861.5072	-146	0	R.TYVVRPK.G
145 - 156	1365.6462	1364.6389	1364.6837	-33	0	R.YGTGHAYTINLR.A
157 - 172	1755.8688	1754.8615	1754.9580	-55	1	R.ATVGLSGWLPWRSR.S
175 - 184	1160.5210	1159.5137	1159.5945	-70	1	K.IESSNEVARR.A
205 - 219	1608.7953	1607.7880	1607.7878	0	1	R.FGEKSAHSLAMAGFR.Q

Spot No.: **188**

Mascot score: **85** Sequence coverage %: **51**

NCBI accession No.: **gi| 145334185**

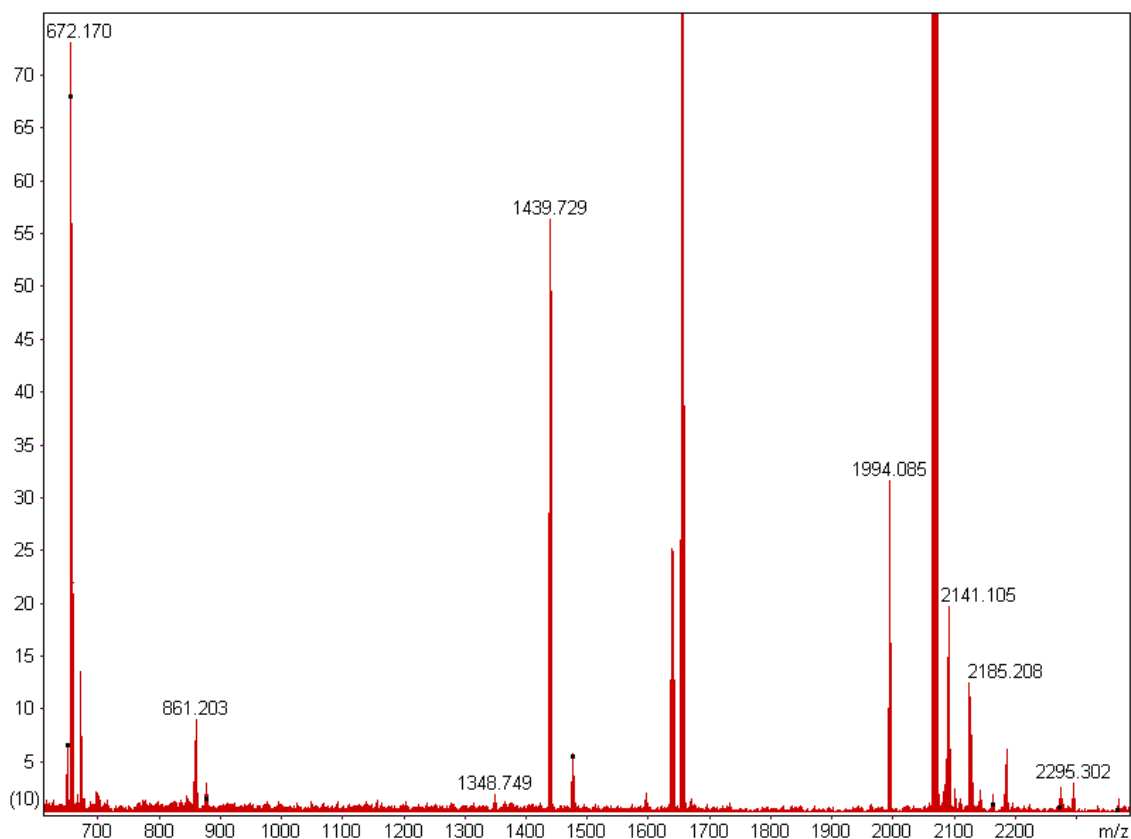
Matched peptides No.: **6**

Total peptides No.: **12**

Calculated Mr: **12734**

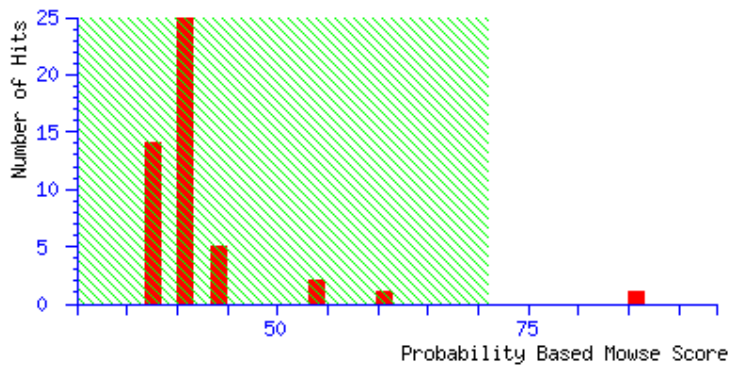
Calculated pI: **7.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 M L T L Q H S S F V S F C P N D N K L R S F A N G V T I M S K R R D F S E K S N E E R P I L R I K V
51 P N T I V A R S A I A V L S L G F I D A G Y S G D W S R I G V I S K E T E E L L K I A A F L V V P L
101 C I F L A L S F S N D S T D

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 18	2125.1147	2124.1074	2123.9769	61	0	-.M L T L Q H S S F V S F C P N D N K . L
1 - 18	2141.1053	2140.0980	2139.9718	59	0	-.M L T L Q H S S F V S F C P N D N K . L Oxidation (M)
2 - 18	1994.0852	1993.0779	1992.9364	71	0	M . L T L Q H S S F V S F C P N D N K . L
19 - 31	1439.7288	1438.7215	1438.7602	-27	1	K . L R S F A N G V T I M S K . R Oxidation (M)
58 - 78	2185.2082	2184.2009	2184.0851	53	0	R . S A I A V L S L G F I D A G Y S G D W S R . I
85 - 91	861.2026	860.1953	860.4491	-295	0	K . E T E E L L K . I

Spot No.: **189**

Mascot score: **89** Sequence coverage %: **32**

NCBI accession No.: **gi| 15223288**

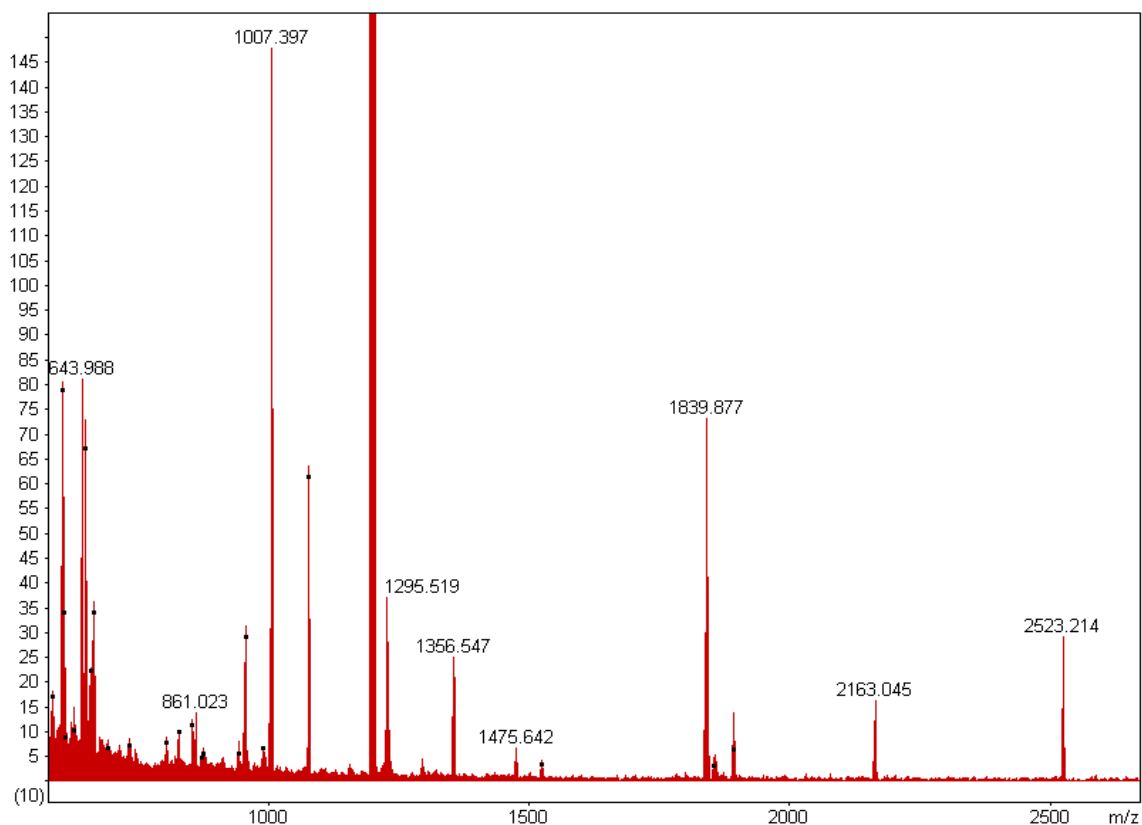
Matched peptides No.: **9**

Total peptides No.: **27**

Calculated Mr: **24640**

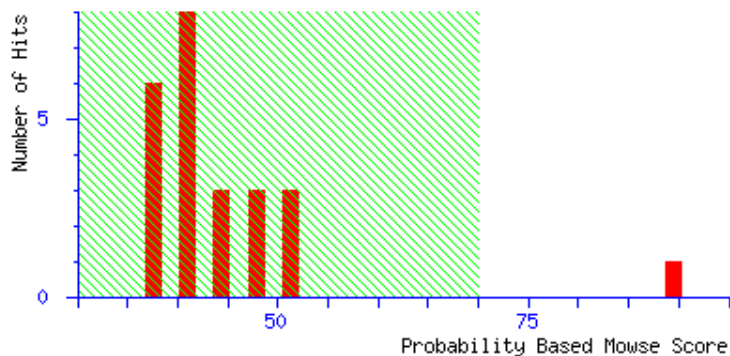
Calculated pI: **5.73**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSEETKDNQR **LQRPAPRLNE** **RILSSLSRRS** VAAHPWHDLE IGPGAPQIFN
51 VVVEITKGSK VKYELDK**KTG** **LIKVDRIILYS** **SVVYPHNYGF** **VPRTL**CECDND
101 PIDVLVIMQE PVLPGCFLRA RAIGLMPMID QGEKDDK**IIA** **VCVDDPEYKH**
151 YTDIK**ELPPH** **RLSEIRRFEE** **DYKKNENKEV** AVNDFLPSES AVEAIQYSMD
201 LYAEYILHTL RR

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
11 - 17	837.3993	836.3920	836.4980	-127	0	R.LQRPAPR.L
22 - 28	775.3361	774.3289	774.4599	-169	0	R.ILSSLSR.R
68 - 73	659.2851	658.2778	658.4377	-243	1	K.KTGLIK.V
77 - 93	2011.0447	2010.0374	2010.0363	1	0	R.ILYSSVVYPHNYGFVPR.T
138 - 149	1421.6363	1420.6290	1420.6908	-43	0	K.IIAVCVDDPEYK.H
156 - 161	748.3218	747.3145	747.4028	-118	0	K.ELPPHR.L
162 - 166	617.2342	616.2269	616.3544	-207	0	R.LSEIR.R
167 - 173	1004.4161	1003.4088	1003.4763	-67	1	R.RFFEDYK.K
168 - 174	976.3845	975.3772	975.4702	-95	1	R.RFFEDYKK.N

Spot No.: **190**

Mascot score: **109** Sequence coverage %: **50**

NCBI accession No.: **gi| 18391006**

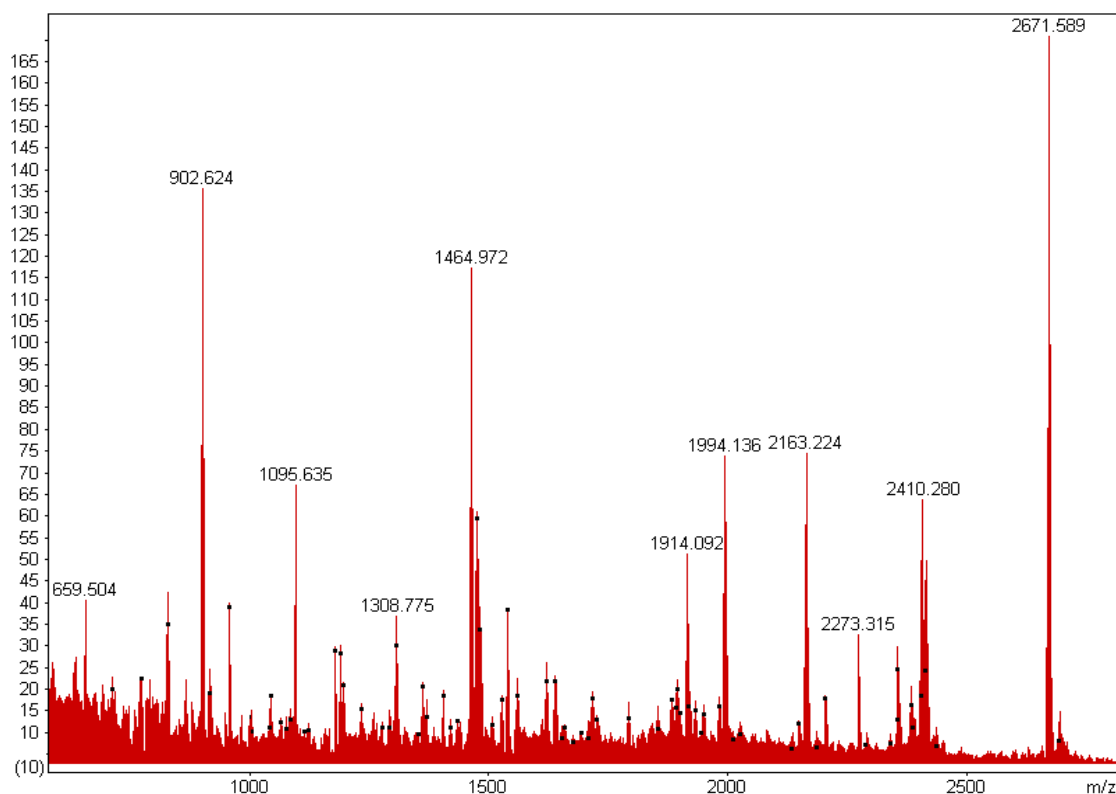
Matched peptides No.: **11**

Total peptides No.: **43**

Calculated Mr: **20049**

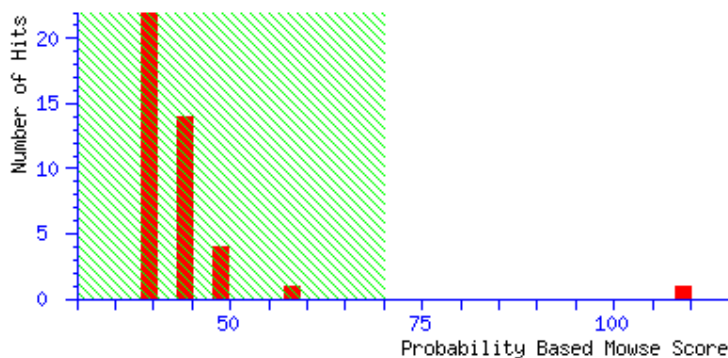
Calculated pI: **5.37**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 11	1232.7433	1231.7360	1231.6594	62	1 - .MGLVTEEVRAK.A
2 - 9	902.6243	901.6170	901.4869	144	0 M.GLVTEEVR.A
10 - 22	1559.8088	1558.8015	1558.6756	81	1 R.AKAEMYGDEICR.E Oxidation (M)
12 - 22	1360.7076	1359.7003	1359.5435	115	0 K.AEMYGDEICR.E Oxidation (M)
31 - 51	2388.3455	2387.3382	2387.2042	56	1 K.EISMPNGLLPLKDIEEVGYDR.E
43 - 51	1095.6352	1094.6279	1094.4880	128	0 K.DIEEVGYDR.E
43 - 59	1994.1357	1993.1284	1992.9793	75	1 K.DIEEVGYDRESGVVWLK.Q
52 - 59	917.5906	916.5834	916.5018	89	0 R.ESGVVWLK.Q
100 - 118	2288.2788	2287.2715	2287.1987	32	0 K.ELLIWVTINEIYTEEPPTK.I
123 - 129	775.5519	774.5447	774.4236	156	0 K.TPTLSR.T
157 - 170	1433.8679	1432.8606	1432.7409	84	1 K.SSEATEAKEVAIK.E

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 11	1232.7433	1231.7360	1231.6594	62	1 - .MGLVTEEVRAK.A
2 - 9	902.6243	901.6170	901.4869	144	0 M.GLVTEEVR.A
10 - 22	1559.8088	1558.8015	1558.6756	81	1 R.AKAEMYGDEICR.E Oxidation (M)
12 - 22	1360.7076	1359.7003	1359.5435	115	0 K.AEMYGDEICR.E Oxidation (M)
31 - 51	2388.3455	2387.3382	2387.2042	56	1 K.EISMPNGLLPLKDIEEVGYDR.E
43 - 51	1095.6352	1094.6279	1094.4880	128	0 K.DIEEVGYDR.E
43 - 59	1994.1357	1993.1284	1992.9793	75	1 K.DIEEVGYDRESGVVWLK.Q
52 - 59	917.5906	916.5834	916.5018	89	0 R.ESGVVWLK.Q
100 - 118	2288.2788	2287.2715	2287.1987	32	0 K.ELLIWVTINEIYTEEPPTK.I
123 - 129	775.5519	774.5447	774.4236	156	0 K.TPTLSR.T
157 - 170	1433.8679	1432.8606	1432.7409	84	1 K.SSEATEAKEVAIK.E

Spot No.: **191**

Mascot score: **81**

Sequence coverage %: **27**

NCBI accession No.: **gi| 312281797**

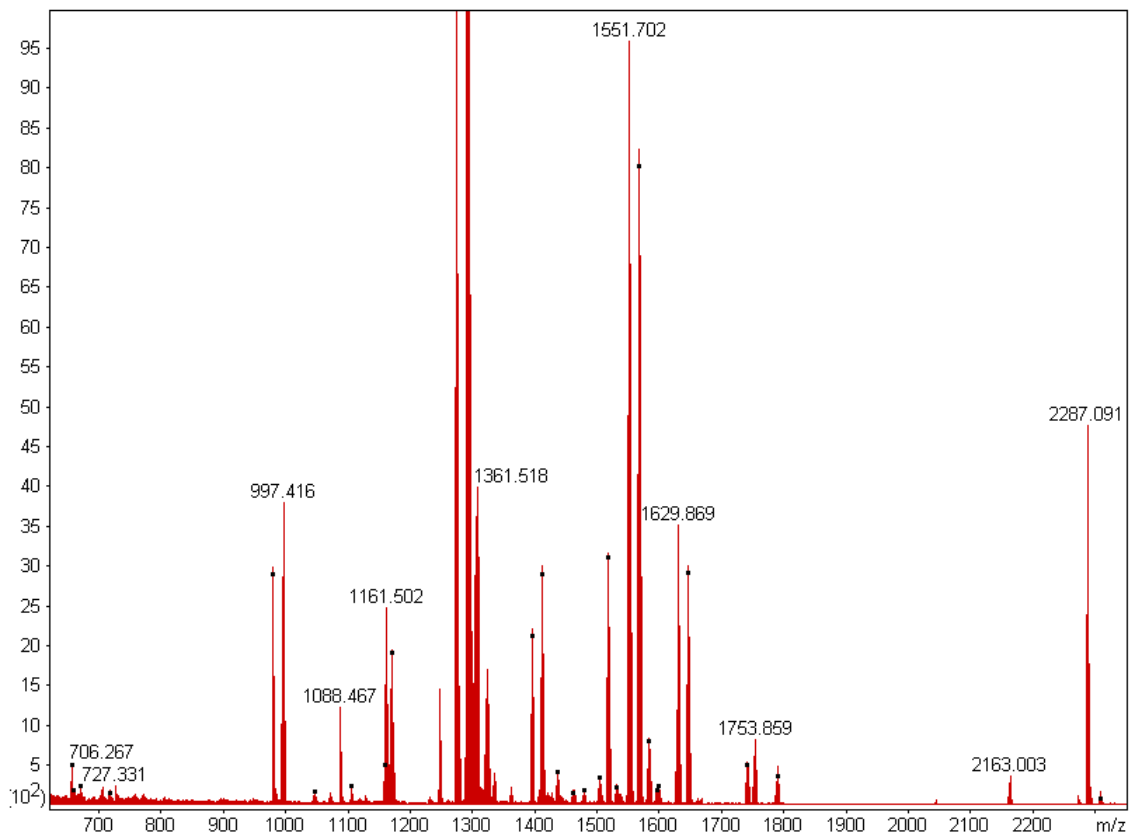
Matched peptides No.: **10**

Total peptides No.: **29**

Calculated Mr: **29391**

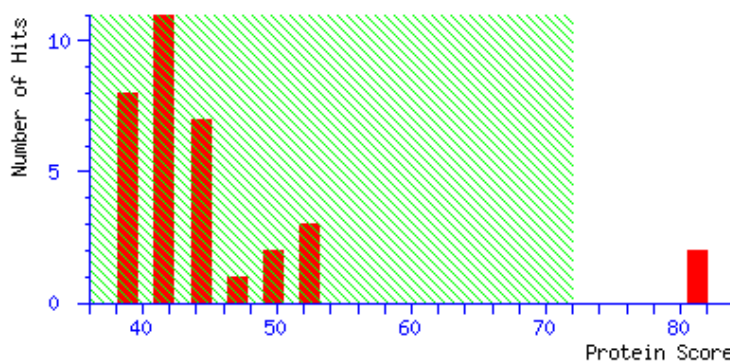
Calculated pI: **8.94**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAAQALVSSS LTSSVQTARQ IFGTKPAVST SRRKSSFVVK ATSTPPVKQG
51 ANRPLWFASS QSLTYLDGSL PGDYGFDPGL LSDPEGTGGF IEPRWLAYGE
101 IINGRFAMLG AAGAIAP EIL GKAGLIPAET ALPWFQTGVI PPAGTYSYWA
151 DNYTLFVLEM ALMGFAEHRR LQDWYNPGSM GKQYFLGLEK GFSGSGEPAY
201 PGGPFFNPLG FGKNEKSMKE LKLKEIKNGR LAMLAILGYF VQGLVTGVGP
251 YQNLLDHLAD FVNNNVLTSL KFH

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
95 - 105	1291.5727	1290.5654	1290.6720	-83	0	R.WLAYGEIINGR.F
106 - 122	1629.8690	1628.8617	1628.8960	-21	0	R.FAMLGAAGAIAP EILGK.A
106 - 122	1645.8903	1644.8830	1644.8909	-5	0	R.FAMLGAAGAIAP EILGK.A Oxidation (M)
170 - 182	1551.7019	1550.6946	1550.7300	-23	1	R.RLQDWYNPGSMGK.Q
170 - 182	1567.7170	1566.7097	1566.7249	-10	1	R.RLQDWYNPGSMGK.Q Oxidation (M)
171 - 182	1395.5834	1394.5761	1394.6289	-38	0	R.LQDWYNPGSMGK.Q
171 - 182	1411.5901	1410.5828	1410.6238	-29	0	R.LQDWYNPGSMGK.Q Oxidation (M)
183 - 190	997.4163	996.4091	996.5280	-119	0	K.QYFLGLEK.G
191 - 213	2287.0913	2286.0840	2286.0746	4	0	K.GFSGSGEPAYPGGPFFNPLGFGK.N
191 - 216	2658.2530	2657.2457	2657.2551	-4	1	K.GFSGSGEPAYPGGPFFNPLGFGKNEK.S

Spot No.: **192**

Mascot score: **94**

Sequence coverage %: **35**

NCBI accession No.: **gi| 312282625**

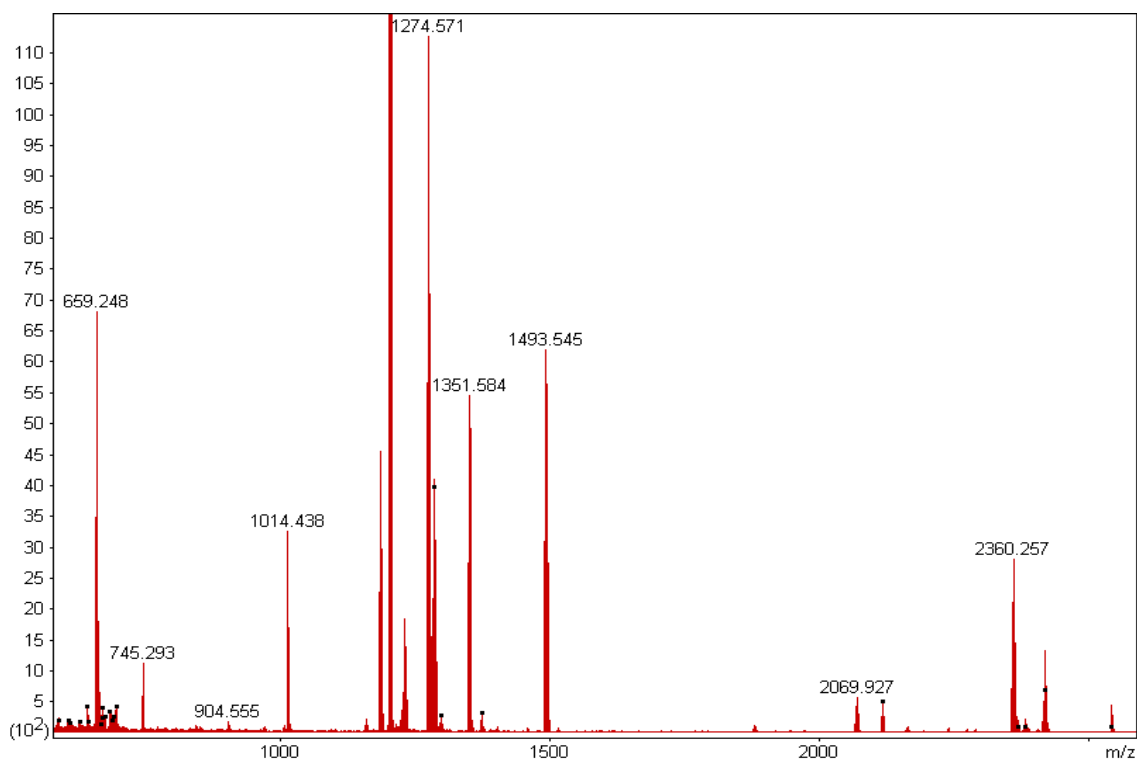
Matched peptides No.: **8**

Total peptides No.: **16**

Calculated Mr: **28229**

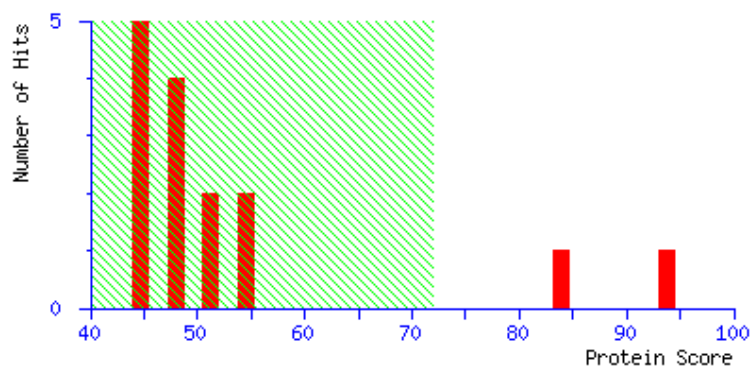
Calculated pI: **6.84**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAYSACFLHQ SALASSAARS SSSSSSQRYV SLSKPVQIVC KAQQPHEDDN
51 SAVSRRLALT LLVGAAAVGS KVSPADAAYG EAANVFGKPK ANTDFTAYSG
101 DGFKVQVPAK WNPSREIEYP GQVLRVEDNF DATSNLNMV TPTDKKSITD
151 YGSPEEFLSQ VNYLLGKQAY FGETASEGGF DANAVATANI LETNVQEVGG
201 KPYYYLSVLT RTADGDEGGK HQLITATVNG GKLYICKAQA GDKRWFKGAN
251 KFVEKAATSF SVA

```

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence	
91 - 104	1493.5451	1492.5378	1492.6470	-73	0	K.ANTDFTAYSGDGFK.V	
111 - 115	659.2482	658.2409	658.3187	-118	0	K.WNPSR.E	
116 - 125	1203.5416	1202.5343	1202.6295	-79	0	R.EIEYPGQVLR.Y	
126 - 146	2418.3031	2417.2958	2417.1057	79	1	R.YEDNFDATSNLNMVMTPTDKK.S	Oxidation (M)
147 - 167	2360.2571	2359.2498	2359.1583	39	0	K.SITDYGSPEEFLSQVNYLLGK.Q	
202 - 211	1274.5708	1273.5635	1273.6707	-84	0	K.PYYYLSVLR.T	
233 - 237	696.2585	695.2512	695.3676	-167	0	K.LYICK.A	
238 - 244	745.2925	744.2853	744.3878	-138	1	K.AQAGDKR.W	

Spot No.: **193**

Mascot score: **81** Sequence coverage %: **37**

NCBI accession No.: **gi| 312282463**

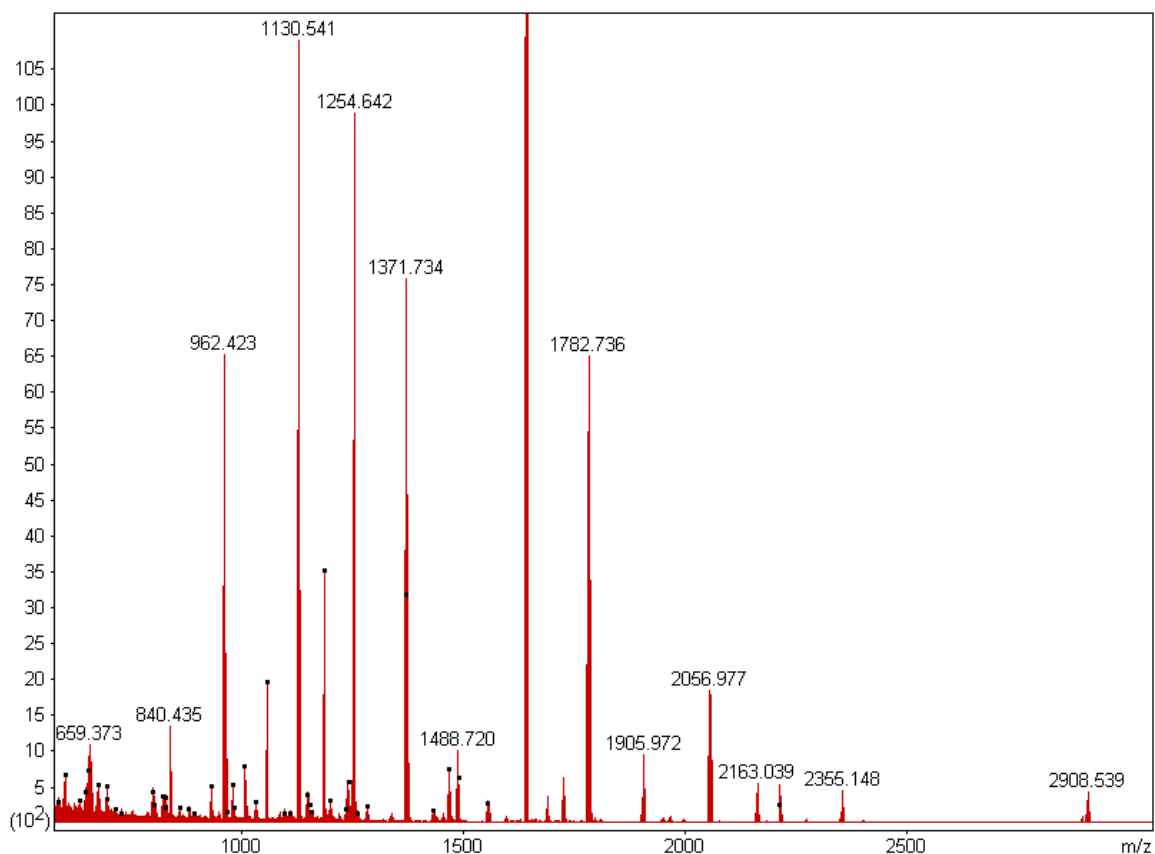
Matched peptides No.: **10**

Total peptides No.: **37**

Calculated Mr: **30515**

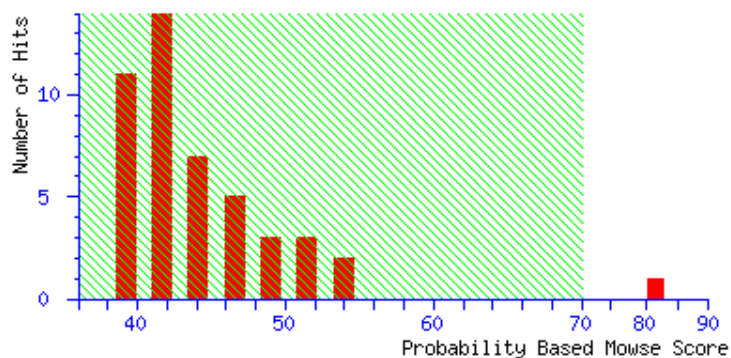
Calculated pI: **7.63**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MATSSTFSSL LPSPPALLSD HRSPPPSIRY SFSPLTTPKS SRLGFTVPEK
51 RNLAANSSLV EVSIGGESDP PPSSSGSGGD DKQIALLLK **LLSVVSGLNR**
101 GLVASVDDLE RAEVAAKELE **TAGGPVDLTD DLDKLQGW** **LLYSSAFSSR**
151 **SLGGSRPGLP TGRLIPVTLG QVFQR**IDVFS KDFDNIAEVE LGAPWPFPPPL
201 EATATLAHKF **ELLGTCKIKI TFEKTTVKTS GMLSQIPPF** **IPRLPDSFRP**
251 SSNPGTGDFE VTYVDDTMRI TR**GDRGELRV** FVIA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
91 - 100	1057.5970	1056.5897	1056.6291	-37	0	K.LLSVVSGLNR.G
118 - 138	2214.1251	2213.1178	2213.1063	5	1	K.ELETAGGPVDLTDLDKLQGW.W
141 - 150	1130.5413	1129.5340	1129.5768	-38	0	R.LLYSSAFSSR.S
151 - 163	1254.6418	1253.6345	1253.6840	-39	0	R.SLGGSRPGLPTGR.L
164 - 175	1370.7345	1369.7272	1369.8082	-59	0	R.LIPVTLGQVFQR.I
210 - 217	967.4446	966.4374	966.4845	-49	0	K.FELGTCK.I
229 - 243	1641.7879	1640.7806	1640.8522	-44	0	K.TSGMLSQIPPFIPR.L
273 - 279	802.3879	801.3806	801.4093	-36	1	R.GDRGELR.V

Spot No.: **194**

Mascot score: **81** Sequence coverage %: **29**

NCBI accession No.: **gi| 148515008**

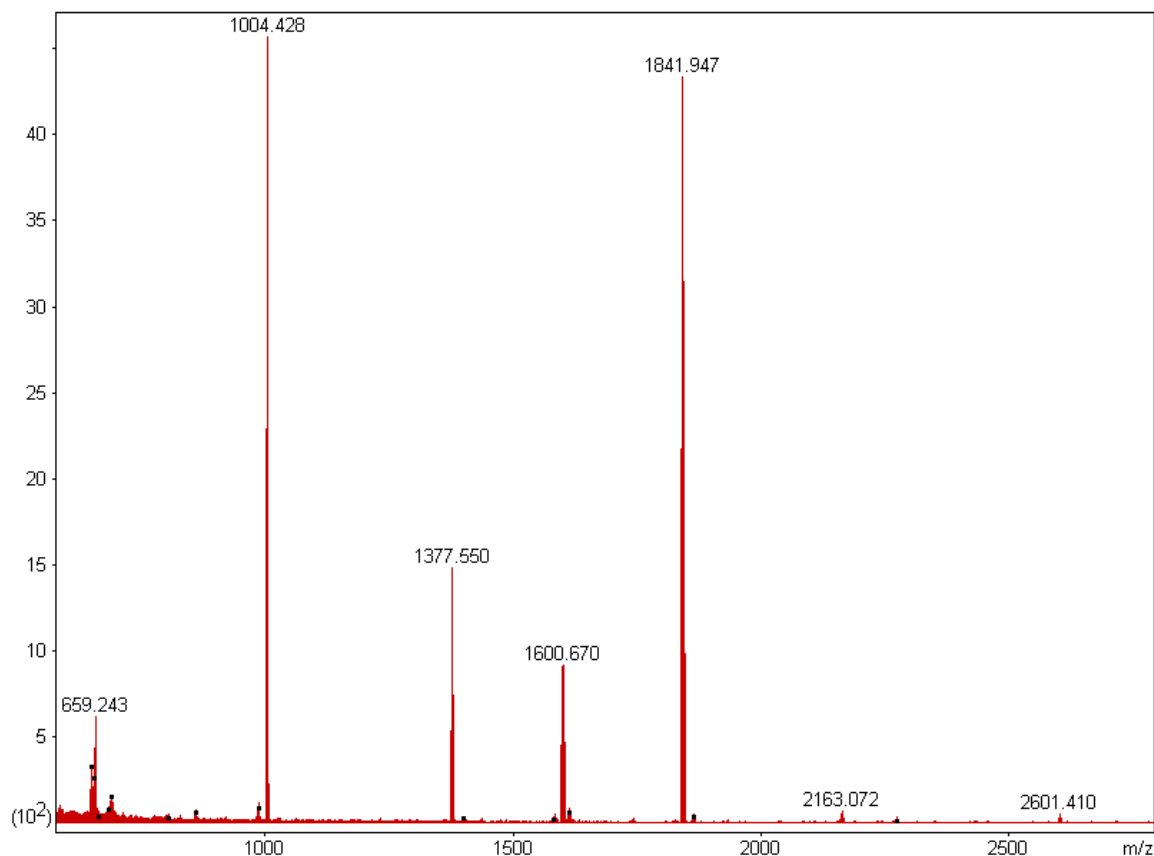
Matched peptides No.: **6**

Total peptides No.: **13**

Calculated Mr: **25544**

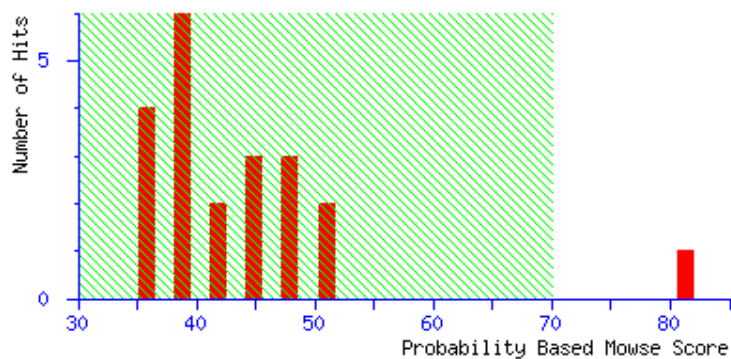
Calculated pI: **8.77**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```
1 MAIRSVATRK TLAGLKETSS RLLGFRGIQT FTLPLDPYDY SALEPAISGE
51 IMQLHHQKHH QTYVTNYNNA LEQLDQAVNK GDASTVVKLQ SAIKFNGGGH
101 VNHSIFWKNL APVNQGGGEP PKGALGG AID THEGSLEGLV KKMNAEGAAL
151 QGSGWVWLGL DKELKKLVVD TTANQDPLVT KGASLVPLVG IDVWEHAYYL
201 QYKNVRPDYL KNVWKVINWK YASEVYEKEC K
```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
109 - 122	1377.5495	1376.5422	1376.7048	-118	0	K.NLAPVNQGGGEPK.G
123 - 141	1841.9469	1840.9396	1840.9683	-16	0	K.GALGG AIDTHEGSLEGLVK.K
167 - 181	1613.7422	1612.7349	1612.8672	-82	0	K.LVVDTTANQDPLVTK.G
204 - 211	1004.4276	1003.4203	1003.5451	-124	0	K.NVRPDYLK.N
216 - 220	659.2430	658.2357	658.3802	-219	0	K.VINWK.Y
221 - 228	988.3469	987.3396	987.4549	-117	0	K.YASEVYEK.E

Spot No.: **195**

Mascot score: **98**

Sequence coverage %: **50**

NCBI accession No.: **gi| 1405561**

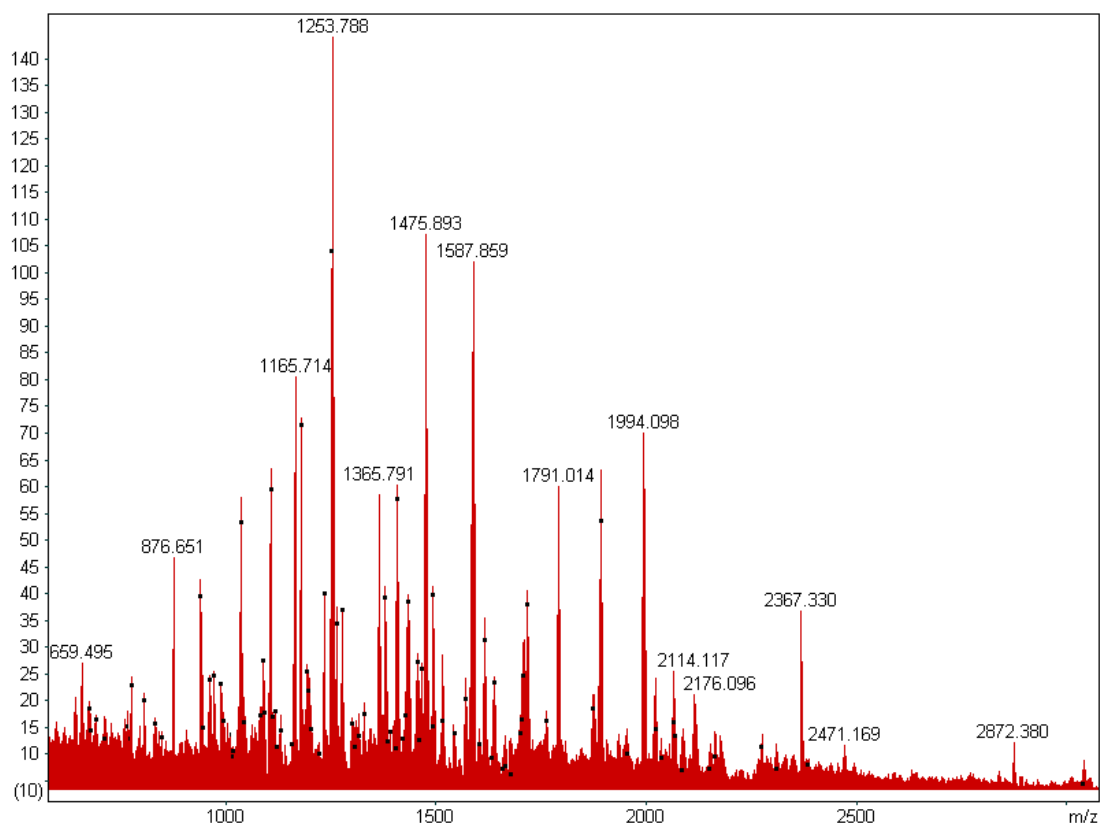
Matched peptides No.: **11**

Total peptides No.: **57**

Calculated Mr: **24147**

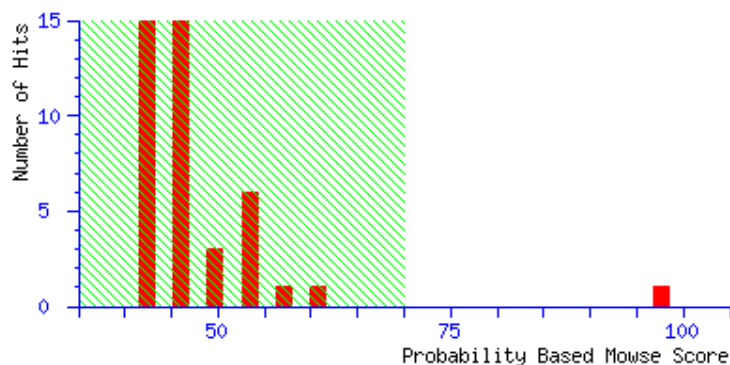
Calculated pI: **9.23**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MARRADEEYD YLFK**VVLIGD** **SGVGKSNLLS** **RFTRNEFCLE** SKSTIGVEFA
51 TR**TLQVEGRT** **VKAQIWDTAG** QERY**YRAITSA** **YYRGAVGALL** VYDVTKPTTF
101 EQVWLKELRD HADSNIVIML IGNKTDLKHS **RAVRTEDAQG** **FMLRKKALSF**
151 **IETSALKATH** **VEKAFQTILC** LRFTGIISKK **SLSSDEPAPS** **VIKEAVKHIV**
201 **VGGSEANTKK** PCCSN

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
15 - 25	1043.6818	1042.6745	1042.6023	69	0	K.VVLIGDSGVGK.S
26 - 34	1093.6895	1092.6822	1092.6040	72	1	K.SNLLSRFTR.N
53 - 62	1130.7152	1129.7079	1129.6455	55	1	R.TLQVEGRTVK.A
74 - 83	1263.7999	1262.7926	1262.6407	120	1	R.YRAITSAYYR.G
76 - 83	944.6407	943.6334	943.4763	167	0	R.AITSAYYR.G
132 - 144	1493.8865	1492.8792	1492.7456	89	1	R.AVRTEDAQGFMLR.K
146 - 157	1307.8139	1306.8066	1306.7496	44	1	K.KALSFETSALK.A
147 - 157	1179.7340	1178.7267	1178.6547	61	0	K.ALSFIETSALK.A
158 - 172	1763.9593	1762.9520	1762.9400	7	1	K.ATNVEKAFQTILCLR.F
181 - 193	1329.8098	1328.8025	1328.6823	90	0	K.SLSSDEPAPSVIK.E
194 - 209	1638.9738	1637.9665	1637.8737	57	1	K.EAVKHIVVGGSEANTK.K

Spot No.: **196**

Mascot score: **89** Sequence coverage %: **39**

NCBI accession No.: **gi| 148515008**

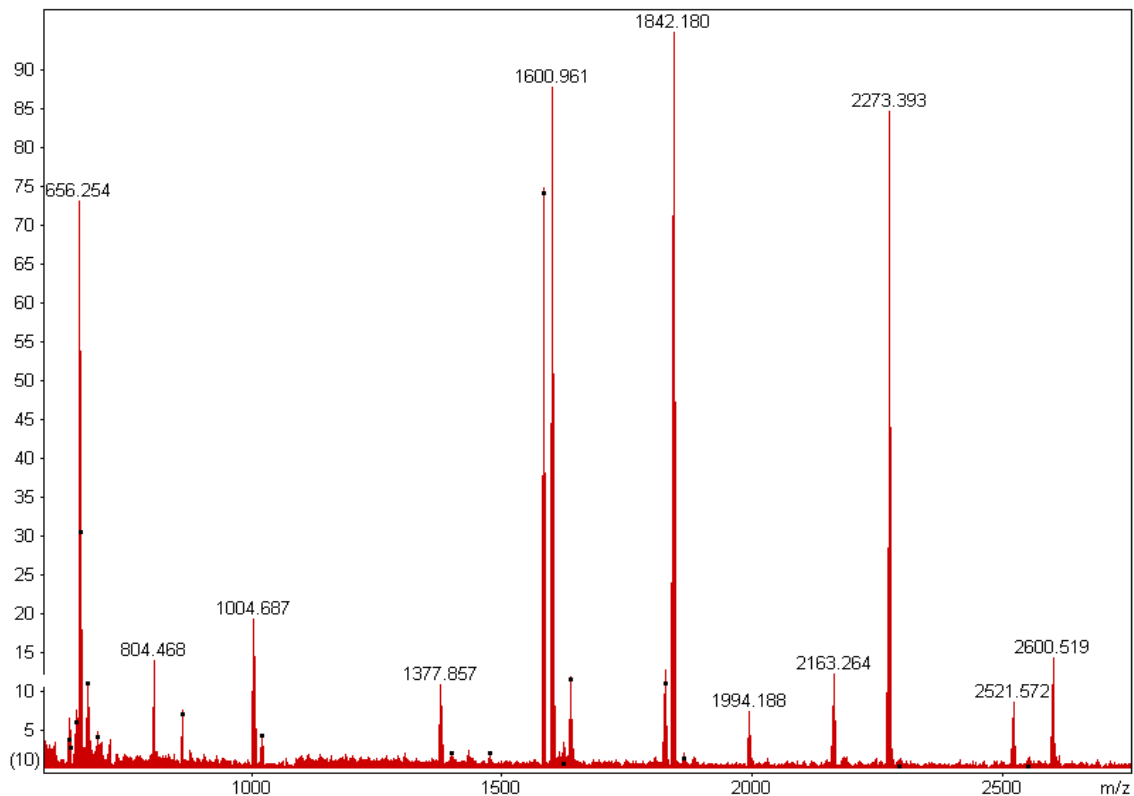
Matched peptides No.: **7**

Total peptides No.: **12**

Calculated Mr: **25544**

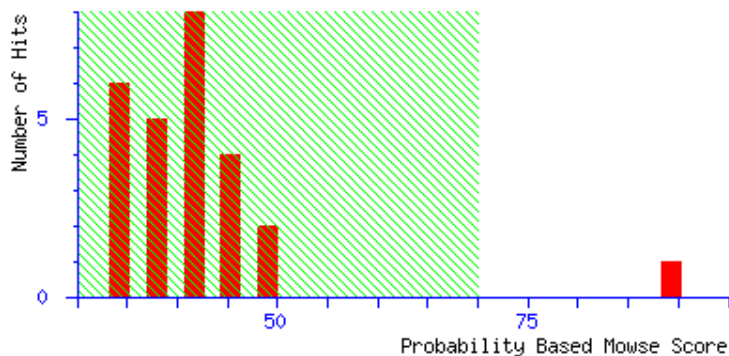
Calculated pI: **8.77**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MAIRSVATR**K TLAGLKETSS RLLGFRGIQT FTLPLDPYDY SALEPAISGE
51 **IMQLHHQKHH QTYVTNYNNA LEQLDQAVNK** GDASTVVVKLQ **SAIK**FNNGGGH
101 **VNHSIFWKNL APVNQGGGEP PKGALGGAI**D **THFGSLEGLV** **KKMNAEGAAL**
151 **QSGGWVWLGL DKELKKLVVD TTANQDPLVT KGASLVPLVG** **IDVWEHAYYL**
201 **QYK**NVRPDYL **KNVWKVINWK YASEVYEKEC** K

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 9	1004.6874	1003.6801	1003.5597	120	1	-. MAIRSVATR .K
1 - 9	1020.6133	1019.6060	1019.5546	50	1	-. MAIRSVATR .K Oxidation (M)
59 - 80	2600.5194	2599.5121	2599.2415	104	0	K. HHQTYVTNYNNALEQLDQAVNK .G
89 - 94	659.4775	658.4703	658.4014	105	0	K. LQSAIK .F
109 - 122	1377.8566	1376.8493	1376.7048	105	0	K. NLAPVNQGGGEPK .G
123 - 141	1842.1803	1841.1730	1840.9683	111	0	K. GALGGAI D THFGSLEGLV K.K
182 - 203	2521.5723	2520.5650	2520.3053	103	0	K. GASLVPLVGIDVWEHAYYLQYK .H

Spot No.: **197**

Mascot score: **88** Sequence coverage %: **42**

NCBI accession No.: **gi| 2792230**

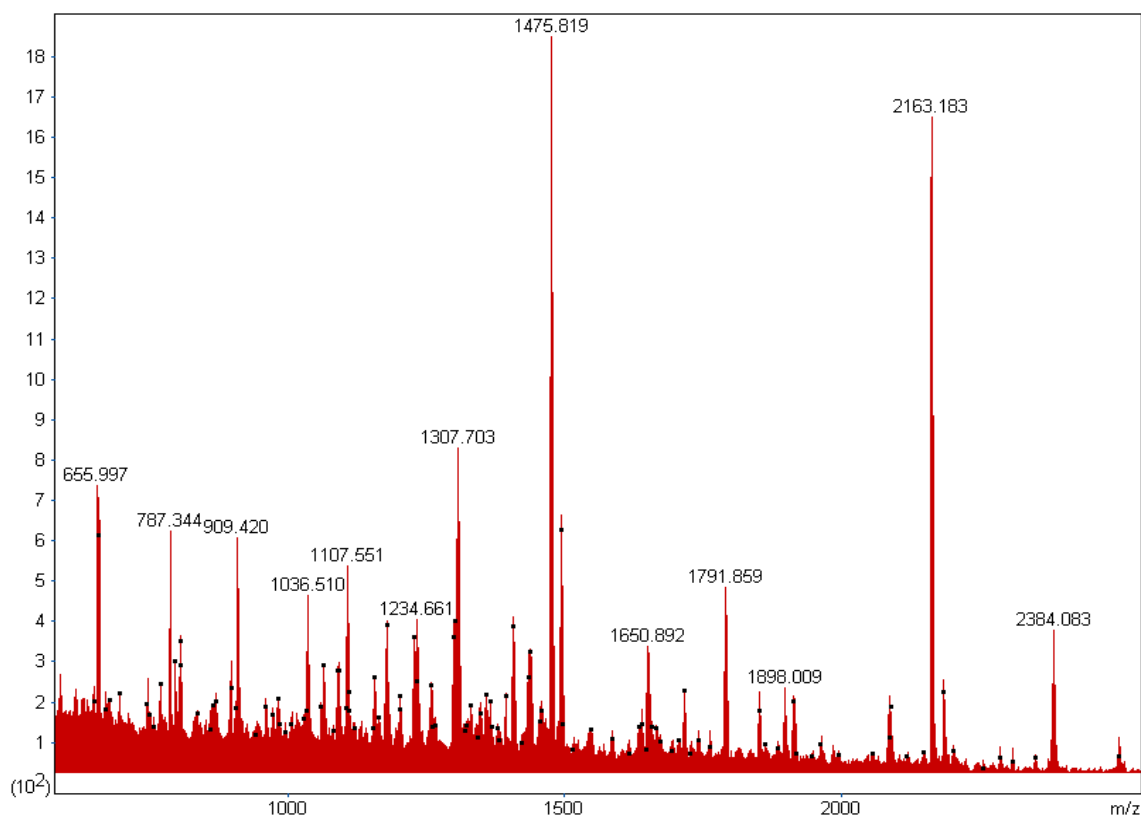
Matched peptides No.: **8**

Total peptides No.: **38**

Calculated Mr: **19967**

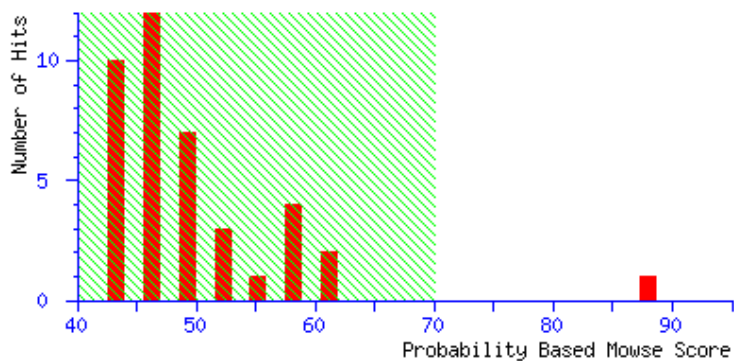
Calculated pI: **7.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **GGWGKTTLAA NVYRNEREK**F ECHAWVSISQ TYSIKDVLK**C LSLELDLKKE**
51 IQGNIGDMDS ATLQNELYK**F LMDQKYLIVL** DDVWVPETVN DLFSIFVSNL
101 KGSRLVTTR **IDGVAHLAFP DKRITLEPLS** **EKKSWELFCK** TAFPRDKNHE
151 RPTK**LTVLAQ QIVSKCEGFP LAL**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
1 - 14	1493.7956	1492.7883	1492.7787	6	1 -.GGWGKTTLAANVYR.N
6 - 17	1407.7434	1406.7361	1406.7266	7	1 K.TTLAANVYRNER.E
40 - 48	1090.5271	1089.5198	1089.5740	-50	0 K.CLSLELDLK.K
70 - 75	797.2867	796.2794	796.3789	-125	0 K.FLMDQK.Y Oxidation (M)
111 - 123	1438.7456	1437.7383	1437.7728	-24	1 R.IDGVAHLAFDPKR.I
124 - 133	1157.5816	1156.5743	1156.6703	-83	1 R.ITLEPLSEKK.S
155 - 173	2087.0935	2086.0862	2086.1496	-30	1 K.LTVLAQQIVSKCEGFP.L.-
166 - 173	906.3922	905.3849	905.4317	-52	0 K.CEGFP.L.-

Spot No.: **198**

Mascot score: **82** Sequence coverage %: **15**

NCBI accession No.: **gi| 21592994**

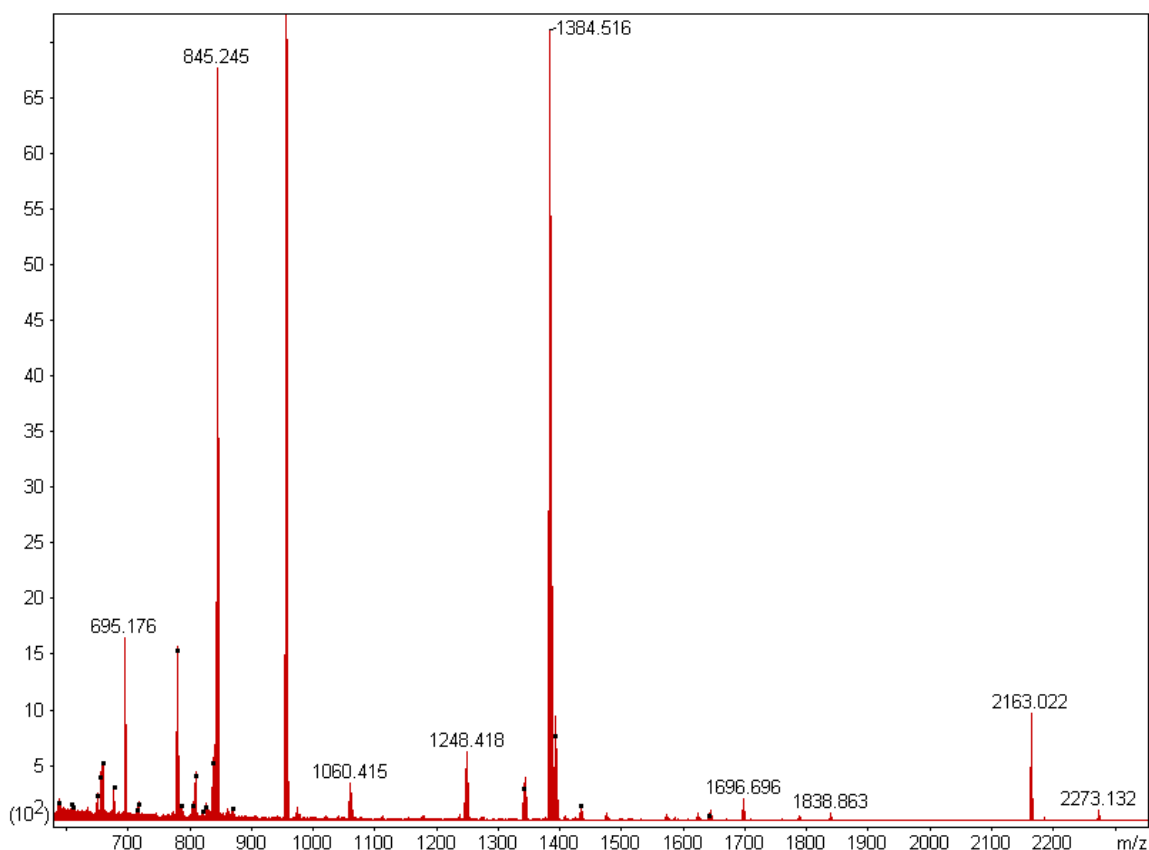
Matched peptides No.: **8**

Total peptides No.: **15**

Calculated Mr: **34061**

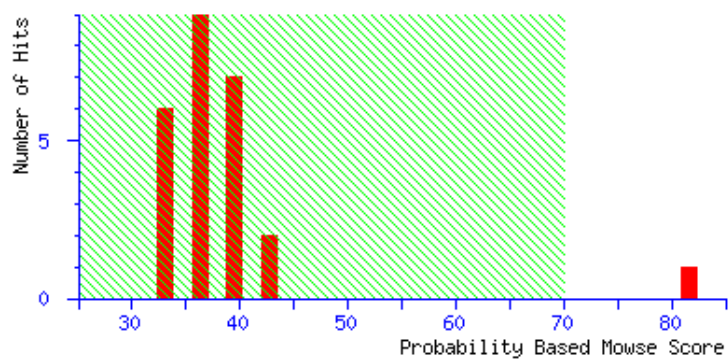
Calculated pI: **9.04**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAATAISSLS FPALGQSDKI SNFASSRPLA SAIRICTKFS RLSLNSRSTS
51 KSLIHCMNSV TADVPPVSET KSKFLKAYKR PIPSIYNTVL QELIVQQHLM
101 RYKKTIRYDP VFALGFVTYV DQLMEGYPSD QDRDAIFKAY IEALNEDPKQ
151 YRIDAQKMEE WARSQTSASL VDFSSKEGDI EAVLKDIAGR AGSKEGFSYS
201 RFFAVGLFRL LELASATDPT VLDKLCASLN INKKSVDRL DVYRNLLSKL
251 VQANELLKEY VEREKKKQEE RAQSQKANET ISKCLGDTLY NPSFLVERKS
301

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
153 - 163	1392.5012	1391.4939	1391.6503	-112	1	R.IDAQKMEEWAR.S Oxidation (M)
158 - 163	821.1717	820.1645	820.3537	-231	0	K.MEEWAR.S
158 - 163	837.1740	836.1667	836.3487	-218	0	K.MEEWAR.S Oxidation (M)
177 - 185	973.3390	972.3317	972.5128	-186	0	K.EGDIEAVLK.D
195 - 201	845.2452	844.2379	844.3715	-158	0	K.EGFSYSR.F
202 - 209	956.3825	955.3752	955.5280	-160	0	R.FFAVGLFR.L
239 - 244	780.2322	779.2249	779.3814	-201	0	R.DLDVYR.N
259 - 263	695.1755	694.1682	694.3286	-231	0	K.EYVER.E

Spot No.: **199**

Mascot score: **116** Sequence coverage %: **49**

NCBI accession No.: **gi| 21593565**

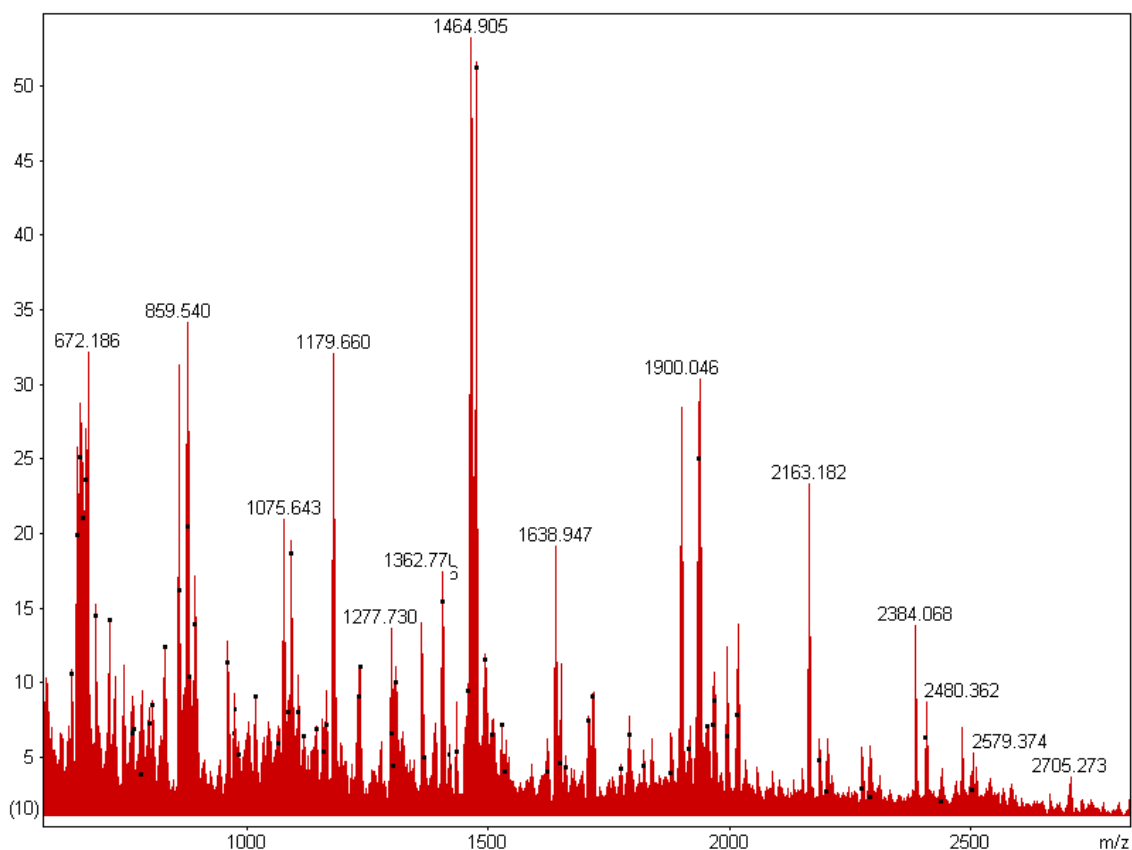
Matched peptides No.: **16**

Total peptides No.: **62**

Calculated Mr: **35982**

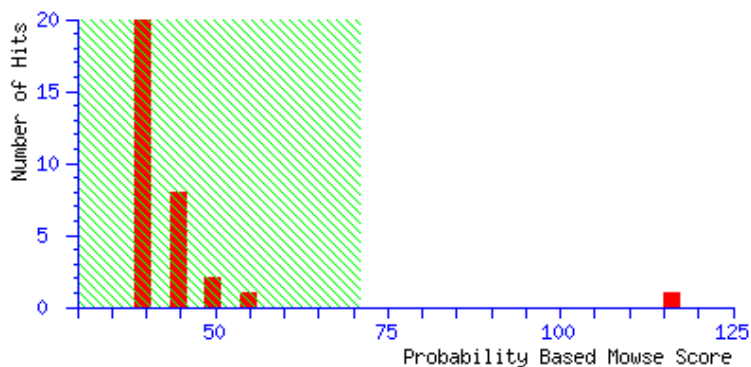
Calculated pI: **7.00**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MAKKPVR**LVLTGAAGQIGYALVPMIARG LGADQPVLH MLDIPFAAEA
51 **LNGVKMELVD** AAFPLLKGVV ATTDAVEACT GVNVAVMVGG FPRKEGMERK
101 **DVMSKRVSIY** **KSQASALEKH** AAPNCKVLV ANPANTNALI LKEFAPSIPE
151 **KNITCLTRLD** HNRALGQVSE RLSVPVSDVK NVIIWGNHSS TQYPDVNHAT
201 **VKTSSGKPV** RELVKNDEWL NGEFISTVQQ RGAAIKARK **LSSALSAASS**
251 **ACDHIRDWV** GTPEGTFSM GVYSDGSYNV PAGLIYSFPV TCRNGEWTIV
301 **QGLPIDDASR** **KKMDLTAEEL** **KEEKDLAYSC** LS

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss Sequence
1 - 7	829.3607	828.3534	828.5004	-177	1 -.MAKKPVR.V
4 - 27	2480.3617	2479.3544	2479.4461	-37	1 K.KPVRVLVTGAAGQIGYALVPMIAR.G
8 - 27	2016.2217	2015.2144	2015.1238	45	0 R.VLVTGAAGQIGYALVPMIAR.G Oxidation (M)
56 - 67	1362.7761	1361.7688	1361.7265	31	0 K.MELVDAAPLLK.G Oxidation (M)
68 - 94	2705.2730	2704.2657	2704.3677	-38	1 K.GVVATTDAVEACTGVNVAVMVGGFPRK.E
95 - 99	637.4127	636.4055	636.2537	239	0 K.EGMRK.K Oxidation (M)
95 - 100	765.4579	764.4507	764.3487	133	1 K.EGMERK.D Oxidation (M)
101 - 111	1299.6981	1298.6908	1298.6540	28	1 K.DVMSKRVSIYK.S Oxidation (M)
120 - 126	797.4788	796.4716	796.3650	134	0 K.HAAPNCK.V
127 - 142	1650.0463	1649.0390	1648.9876	31	0 K.VLVVANPANTNALILK.E
143 - 151	1017.5791	1016.5718	1016.5178	53	0 K.EFAPSIPEK.N
152 - 158	877.2666	876.2593	876.4487	-216	0 K.NITCLTR.L
164 - 171	859.5397	858.5324	858.4559	89	0 R.ALGQVSER.L
203 - 211	960.5618	959.5546	959.5036	53	0 K.TSSGKPV.R.E
240 - 256	1773.9535	1772.9462	1772.8839	35	1 R.KLSSALSAASSACDHIR.D
313 - 321	1065.5541	1064.5468	1064.5060	38	0 K.MDLTAEELK.E Oxidation (M)

Spot No.: **200**

Mascot score: **85** Sequence coverage %: **20**

NCBI accession No.: **gi| 167891400**

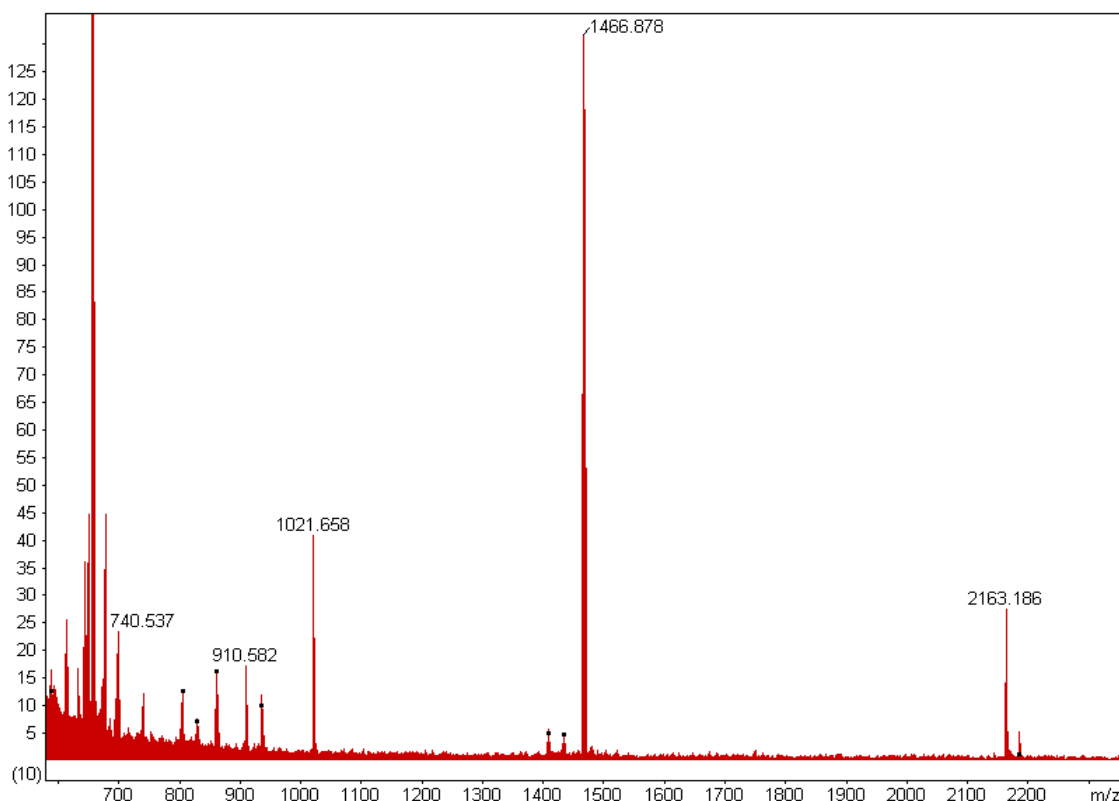
Matched peptides No.: **6**

Total peptides No.: **13**

Calculated Mr: **26275**

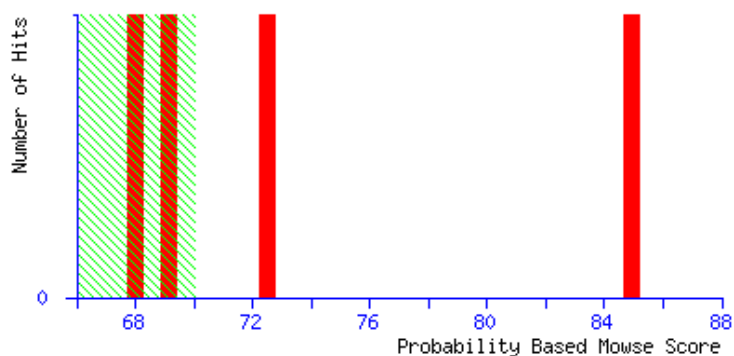
Calculated pI: **7.01**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 K**ASAGFKAGV** K**DYKLTYYTP** **EYETKDTDIL** **AAFRVTPQPG** VPPEEAGAAV
51 AAESSTGTWT TVWTDGLTSL DRYKGR**CYHI** ETVVGEENQY IAYVAYPLDL
101 FEEG**SVTNMF** TSIVGNVFGF **KALRALRLED** LRIPPSYSKT FQGPPHGIQV
151 ERDKLNKYGR PLLGCTIKPK LGLS**AKNYGR** **AVYECLRGGL** DFTKDDENVN
201 SQPFMR**WRDR** XLFC**AEALYK** AQSETGEIKG HYL

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 11	935.6005	934.5933	934.5236	75	1	K.ASAGFKAGVK.D
15 - 25	1407.7824	1406.7751	1406.6605	81	0	K.LTYYTPEYETK.D
26 - 34	1021.6585	1020.6512	1020.5240	125	0	K.DTDILAAFR.V
122 - 127	699.3762	698.3689	698.4551	-123	1	K.ALRALR.L
181 - 187	910.5824	909.5751	909.4378	151	0	R.AVYECLR.G
207 - 210	632.4319	631.4246	631.3190	167	1	R.WRDR.X

Spot No.: **201**

Mascot score: **112** Sequence coverage %: **53**

NCBI accession No.: **gi| 20230245**

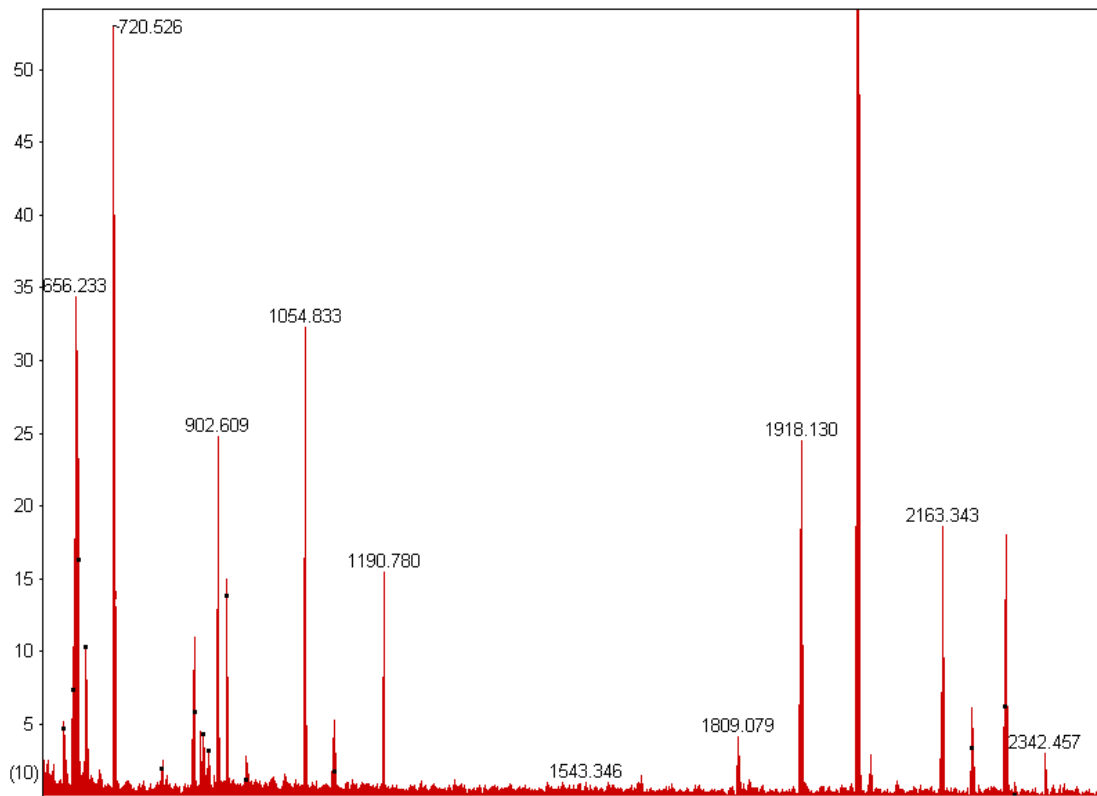
Matched peptides No.: **12**

Total peptides No.: **25**

Calculated Mr: **26115**

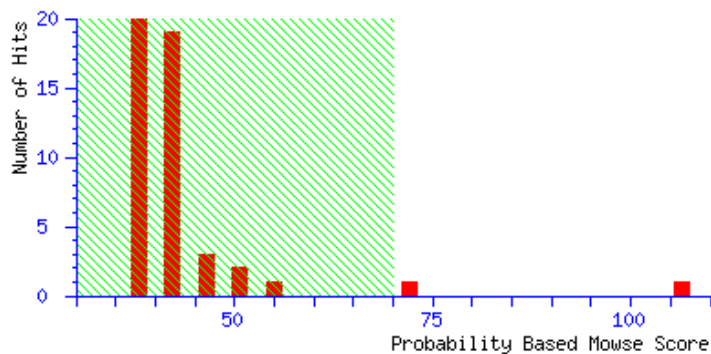
Calculated pI: **6.47**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MNDGDVSR**QI** **QQMVR**FIRQE AEEK**ANEISV** **SAEEEFNIEK** LQLVEAEKKK
51 **IRQDYEKKEK** **QADV**RKKIDY SMQLNASRIK VLQAQDDIVN AMKDAAAKDL
101 LNVSSDANAY KQLLKALIVQ CLLRL**KEPSV** **LLRCRKEDLG** **FVESVLDDAK**
151 **EEYAGKAKVH** **APEVAVDTEI** **FLPGPPKSHD** **SHDLHCAGGV** **VLASRDGKIV**
201 **CENTLDARLD** **VAFR**MKLPVI RRSLFGQVAA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
9 - 15	902.6093	901.6020	901.4804	135	0	R.QIQMVR.F
9 - 15	918.6229	917.6156	917.4753	153	0	R.QIQMVR.F Oxidation (M)
25 - 40	1809.0788	1808.0715	1807.8475	124	0	K.ANEISVSAEEEFNIEK.L
51 - 57	951.6292	950.6220	950.4821	147	1	K.IRQDYEK.K
61 - 65	588.4119	587.4046	587.3027	173	0	K.QADV.R.K
125 - 133	1054.8328	1053.8255	1053.6546	162	1	R.LKEPSVLLR.C
137 - 156	2214.3457	2213.3384	2213.0376	136	1	K.EDLGFVESVLDDAKEEYAGK.A
159 - 177	2016.3768	2015.3695	2015.0728	147	0	K.VHAPEVAVDTEIFLPGPPK.S
178 - 195	1918.1301	1917.1228	1916.8912	121	0	K.SHDSHDLHCAGGVVLASR.D
199 - 208	1190.7796	1189.7723	1189.5761	165	0	K.IVCENTLDAR.L
209 - 214	720.5262	719.5189	719.3966	170	0	R.LDVAFR.M
217 - 221	597.5257	596.5184	596.4010	197	0	K.LPVIR.R

Spot No.: **202**

Mascot score: **86** Sequence coverage %: **17**

NCBI accession No.: **gi| 15222251**

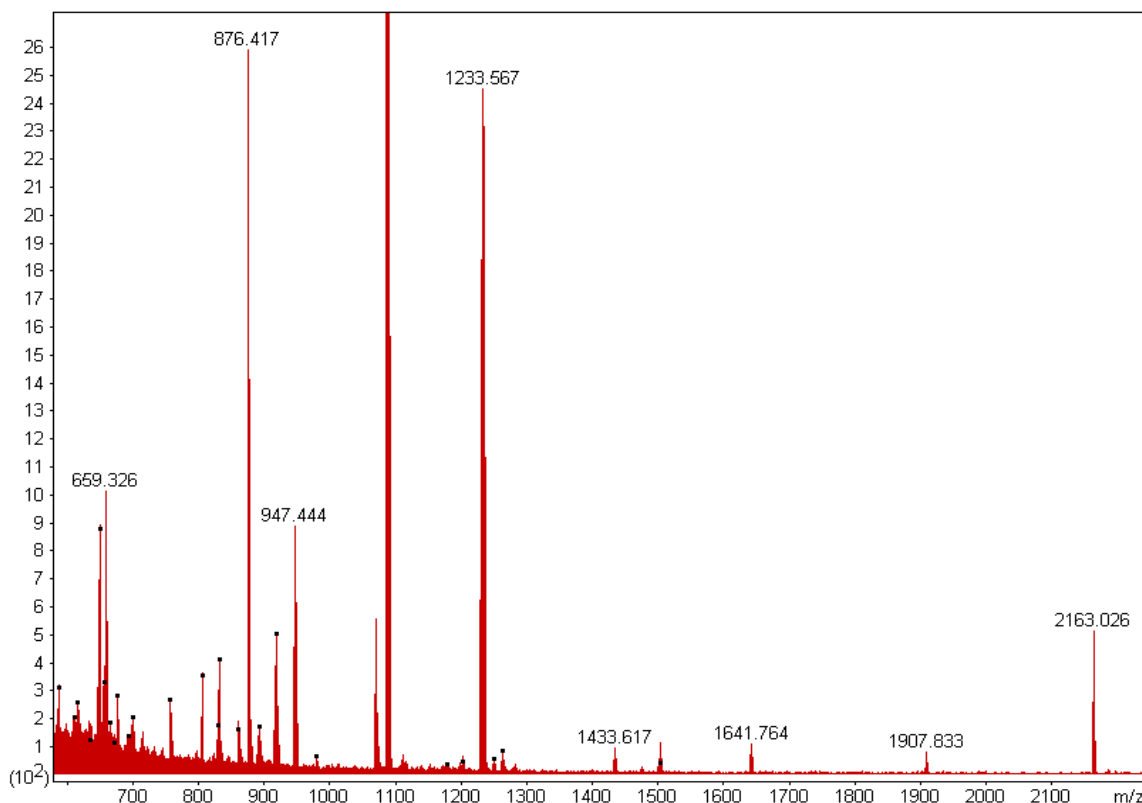
Matched peptides No.: **10**

Total peptides No.: **24**

Calculated Mr: **45544**

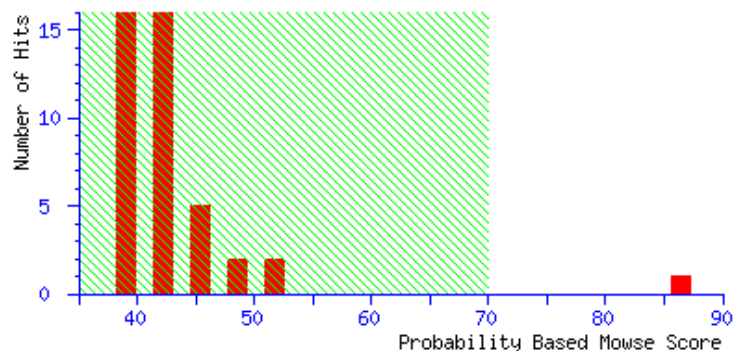
Calculated pI: **5.96**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MGKKLDALLG RSFKTNKFKS LITLALTRLS ILKNQRQARL SQAISDVTEL
51 LKLGQHEHAY HRVDQVVKDQ NTLDVLFFFIH GYFTLCLDRI HLFEHNRDCP
101 EELLEAVSGL LFAASRIGEF PELQEIRNVL ISRFGKDLAA RSIELRSNCG
151 VDPKIIQKLS TRPPPKEVRM KALKEIAAEN NIVLKLDQAS TSTEGTTNMQ
201 GTSDVSKTKL TSKDGRGEGY GLSDSVKRGK KKYKDVADAA QAAFESAAHA
251 AEAQAAAVEL SQFSPRGHDS PGNIGGENSF HGENKESEQ EQEGNDDSSE
301 GEGDVMSESK RSMSDSEDII DVPVMSFRED PVKLLEKDTI IYDSEETQP
351 SVETITISKS KDEQNRMVGS NRADTRHVDH MVRSIEDPIM RKAGLKGPVS
401 VRTRQVRGY

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
5 - 11	757.4073	756.4001	756.4494	-65	0	K.LDALLGR.S
18 - 28	1262.5305	1261.5232	1261.7758	-200	1	K.FKSLITLALTR.L
208 - 213	677.2529	676.2456	676.4119	-246	1	K.TKLTSK.D
217 - 227	1111.4741	1110.4668	1110.5193	-47	0	R.GEGYGLSDSVK.R
329 - 333	587.1636	586.1563	586.2962	-239	0	R.EDPVK.L
329 - 337	1070.4635	1069.4562	1069.6019	-136	1	R.EDPVKLEK.D
360 - 366	876.4169	875.4096	875.4097	-0	1	K.SKDEQNR.M
377 - 383	893.3443	892.3371	892.4338	-108	0	R.HVDHMVR.S
384 - 392	1088.4928	1087.4855	1087.5695	-77	1	R.SIEDPIMRK.A
403 - 407	659.3257	658.3184	658.3875	-105	1	R.TRQVR.G

Spot No.: **203**

Mascot score: **111** Sequence coverage %: **23**

NCBI accession No.: **gi| 11072026**

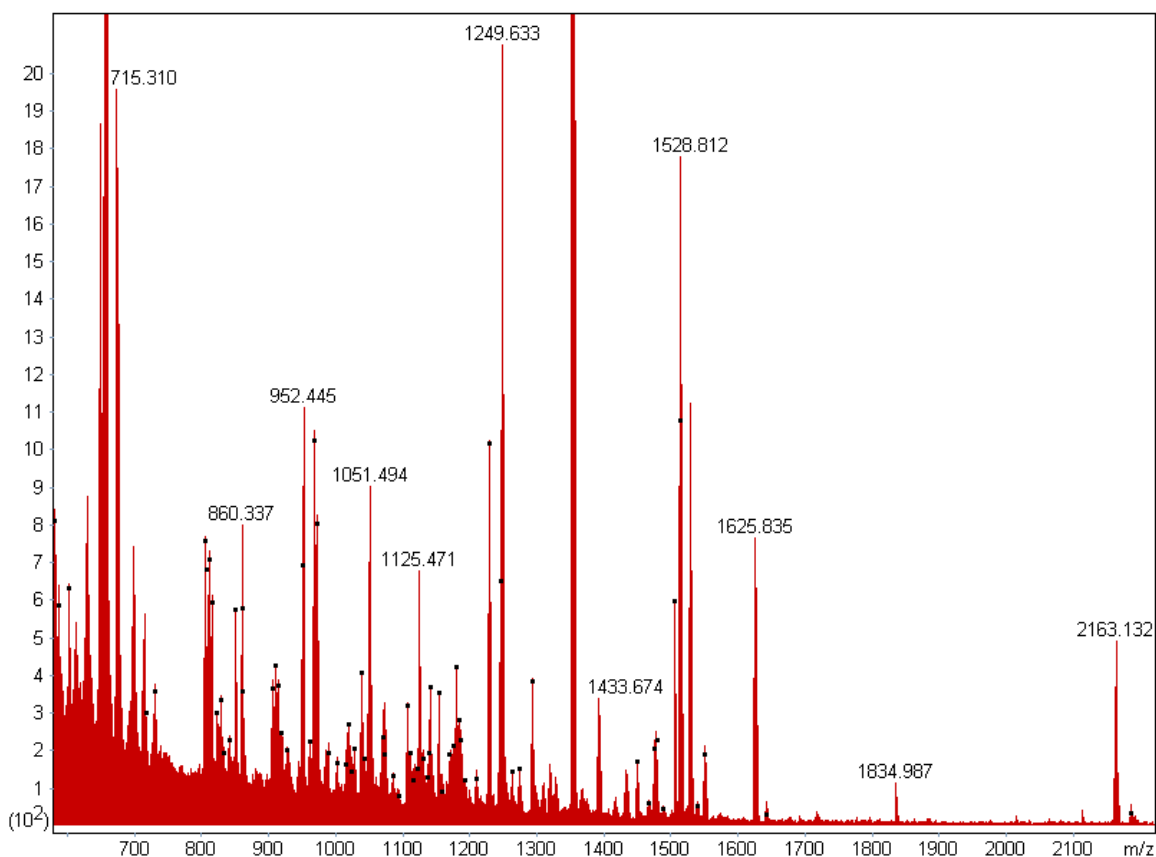
Matched peptides No.: **27**

Total peptides No.: **79**

Calculated Mr: **114361**

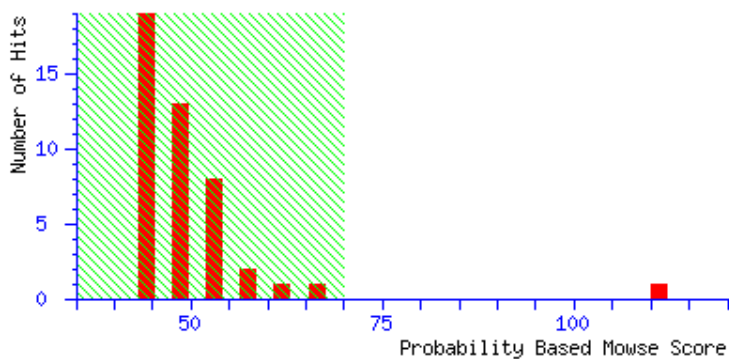
Calculated pI: **6.69**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 **MTENEGNDKK** IEGSNPKKKL NVVTFTGAAG LPGCDTVCVN LSAKEILDLA
 51 EEIIHKSTRV HDAVALVSLD KLSYENVVLP LAELEARQLS LIQCCVFPKM
 101 LSPHDNVRKA STEAEQKIDA HILSCRKRED VYRIIKIYAA KGESISPEAK
 151 **CYLQCLVRDF** **EDNGLNLTAI** **KREEVERLKY** EIDELSLRYI QNLNEDSSCL
 201 FFTDELAGL PLEFLQNLK TONKEFKLTL ESR**HVAAIL** **LCKIAKTRKT**
 251 **VAMAYGKRCG** DTNIPVLQRL VQSRHRLACV CGYAHFADYA LDRRMSK**TSM**
 301 **RVIRFLEDIS** SSLTDLAIRE **FSILEDLKRK** EEGEIPFGVE DLLYYIKRVE
 351 ELQFDLDFGD IRQYFPVNLV LSGIFKICQD LFGIKFEEVT EVDVWYHDIR
 401 **AFAVFDSGSG** **KLLGYFYLD** **FTREGKCNHS** CVVALQNNAL FSNGACQIPV
 451 ALLIAQFAKD GSGEAVPLGF SDVVNLFHEF GHVVQHICNR ASFAR**FSGLR**
 501 **VDPDFREIPS** QLLENWQDIT KPLVDEVCKT LKRWRYS**FS** **LKSLQEILYC**
 551 LFDQIIYSDD DADLLQLIRS **LHPKVMIGLP** VVEGTNPASC FPRAVIGSEA
 601 TCYSRLWSEV YAADIFASKF GDGHPNLYAG LQFRDKVLAP GGGKEPMELL
 651 TNFLGREPST QAFIASRTNY NKVRIHEIII FPKPNNLSFL **NKLVVSESSL**
 701 **NTGRFEEVGL** **ARHSLSRST** **ACRETAVQQR** **RMVFVVEAKG** **KKGMAARQYQ**
 751 RTPPPMPKIE DDGNPRFVIF IR**MANVYLWY** **PLSIIAGGTT** **AKIMVAAKDN**
 801 **LLGKYIYKDT** **IARNIAAVIY** **RVNYTSFCLF** LCDVISNCFY LQQDEKEIQK
 851 TAIKQHRVLR TATEFRYGYK LVENGNMRAA LSTSDVIELP TQDQLKTVFD
 901 **KVKDYFGDAK** ESFGKLSLNL PGSDEKTEET SDEKAKILVF FTK**MIYNRFT**
 951 GPEAEQLTLG WLILMSQPSR YGLQK**VTVKI** **LSDGVK**HVAL SLSSTCLV

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 9	906.3996	905.3924	905.3726	22	0	M.TENEGNDK.K
151 - 158	1111.4806	1110.4733	1110.5314	-52	0	K.CYLQCLVR.D
159 - 171	1449.6915	1448.6842	1448.7147	-21	0	R.DFEDNGLNLTAIK.R
234 - 243	1153.4832	1152.4759	1152.6325	-136	0	R.HVAAILLELCK.I
249 - 257	968.4356	967.4283	967.5161	-91	1	R.KTVAMAYGK.R
298 - 304	862.3534	861.3461	861.4854	-162	1	K.TSMRVIR.F
320 - 329	1249.6329	1248.6256	1248.6714	-37	1	R.EFSILEDLKR.K
401 - 411	1085.5281	1084.5208	1084.5189	2	0	R.AFAVFDGSGK.L
412 - 423	1538.7111	1537.7038	1537.7639	-39	0	K.LLGYFYLDMPTR.E
496 - 506	1308.6358	1307.6285	1307.6622	-26	1	R.FSGLRVDPDFR.E
536 - 542	815.4044	814.3971	814.4225	-31	0	R.YSFSALK.S
570 - 574	581.3037	580.2964	580.3333	-64	0	R.SLHPK.V
693 - 712	2163.1320	2162.1247	2162.1331	-4	1	K.LVVSESSLNTGRFEEVGLAR.H
713 - 719	833.3079	832.3006	832.4191	-142	0	R.HSLFSSR.T
720 - 730	1319.4103	1318.4030	1318.6412	-181	1	R.TACRETAVQQR.R
731 - 739	1094.4068	1093.3995	1093.5954	-179	1	R.RMVVFVEAK.G Oxidation (M)
732 - 741	1107.4971	1106.4898	1106.6158	-114	1	R.RMVVFVEAKGK.K
732 - 741	1123.4776	1122.4703	1122.6107	-125	1	R.RMVVFVEAKGK.K Oxidation (M)
742 - 747	633.2643	632.2570	632.3428	-136	1	K.KGMAAR.Q
773 - 792	2185.1100	2184.1027	2184.1289	-12	0	R.MANVYLWYPLSIIAGGTTAK.I Oxidation (M)
799 - 804	659.3428	658.3355	658.3650	-45	0	K.DNLLGK.Y
809 - 821	1475.7233	1474.7160	1474.8256	-74	1	K.DTIARNIAAVIYR.V
814 - 821	919.4327	918.4254	918.5287	-112	0	R.NIAAVIYR.V
902 - 910	1042.4865	1041.4792	1041.5131	-33	1	K.VKDYFGDAK.E
944 - 948	696.2942	695.2869	695.3425	-80	0	K.MIYNR.F
976 - 986	1158.4856	1157.4783	1157.7020	-193	1	K.VTVKILSDGVK.H
980 - 986	731.3150	730.3077	730.4225	-157	0	K.ILSDGVK.H

Spot No.: **204**

Mascot score: **117** Sequence coverage %: **23**

NCBI accession No.: **gi| 31593440**

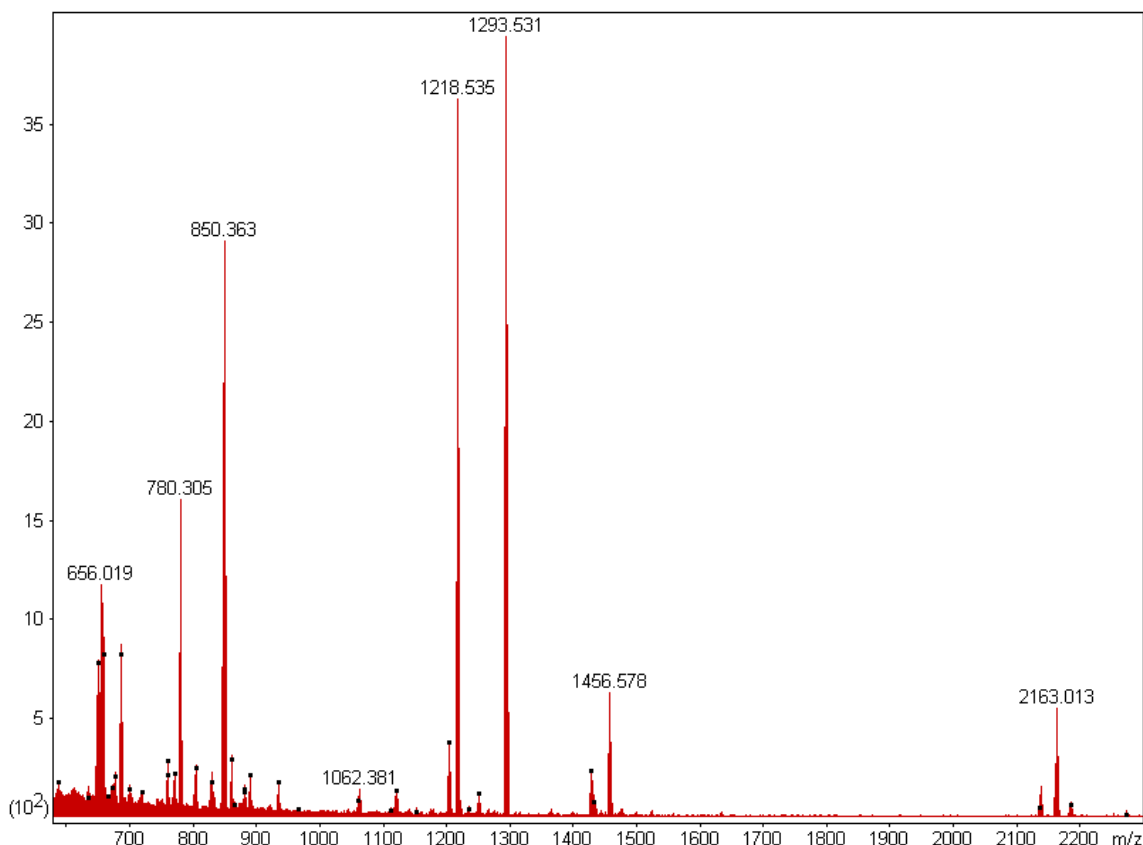
Matched peptides No.: **11**

Total peptides No.: **29**

Calculated Mr: **36256**

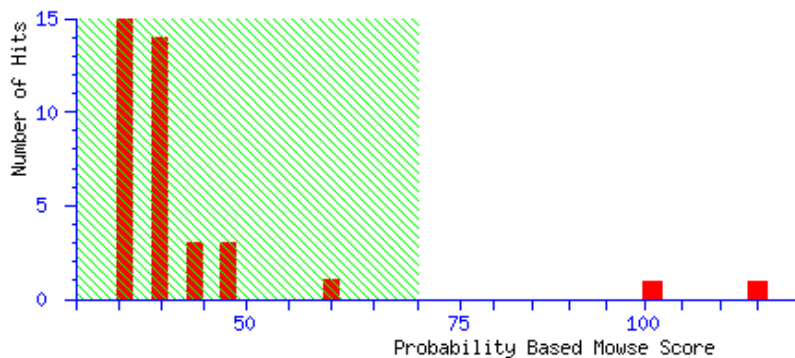
Calculated pI: **7.07**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1 MAEGLVLKGT MCAHTDMVTA IATPVDNSDV IVTSSRDKSI ILWKLTKEDK
51 SYGVAQRRMT GHSHFVQDVV LSSDGQFALS GSWDGELRLW DLATGESTRR
101 FVGHTKDVLS VAFSTDNRQI VSASRDRTIK LWNTLGECKY TISEADGHKE
151 WVSCVRFSPN TLVPTIVSAS WDKTVKVWNL QNCKLRNTLA GHSGYLNTVA
201 VSPDGSLCAS GKDGVILLW DLAEGKLYS LEAGSIIHSL CFSPNRYWLC
251 AATENSIRIW DLESKSVVED LKVDLKAEAE KTDGSTGIGN KTKVIYCTSL
301 NWSADGNTLF SGYTHGVIRW WGIGRY

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
39 - 44	759.3563	758.3490	758.4690	-158	0	K.SIILWK.L
48 - 57	1152.4356	1151.4283	1151.5571	-112	1	K.EDKSYGVAQR.R
51 - 57	780.3047	779.2974	779.3926	-122	0	K.SYGVAQR.R
119 - 125	760.3113	759.3040	759.4239	-158	0	R.QIVSASR.D
140 - 149	1120.3747	1119.3674	1119.5196	-136	0	K.YTISEADGHK.E
150 - 156	935.3391	934.3318	934.4331	-108	0	K.EWVSCVR.F
177 - 184	1061.3694	1060.3621	1060.5124	-142	0	K.VWNLQNCK.L
214 - 226	1428.6363	1427.6290	1427.7660	-96	0	K.DGVILLWDLAEGK.K
259 - 265	890.3339	889.3266	889.4545	-144	0	R.IWDLESK.S
320 - 325	687.3212	686.3140	686.3864	-106	0	R.VWGIGR.Y
320 - 326	850.3626	849.3553	849.4497	-111	1	R.VWGIGRY.-

Spot No.: **205**

Mascot score: **107** Sequence coverage %: **32**

NCBI accession No.: **gi| 312282483**

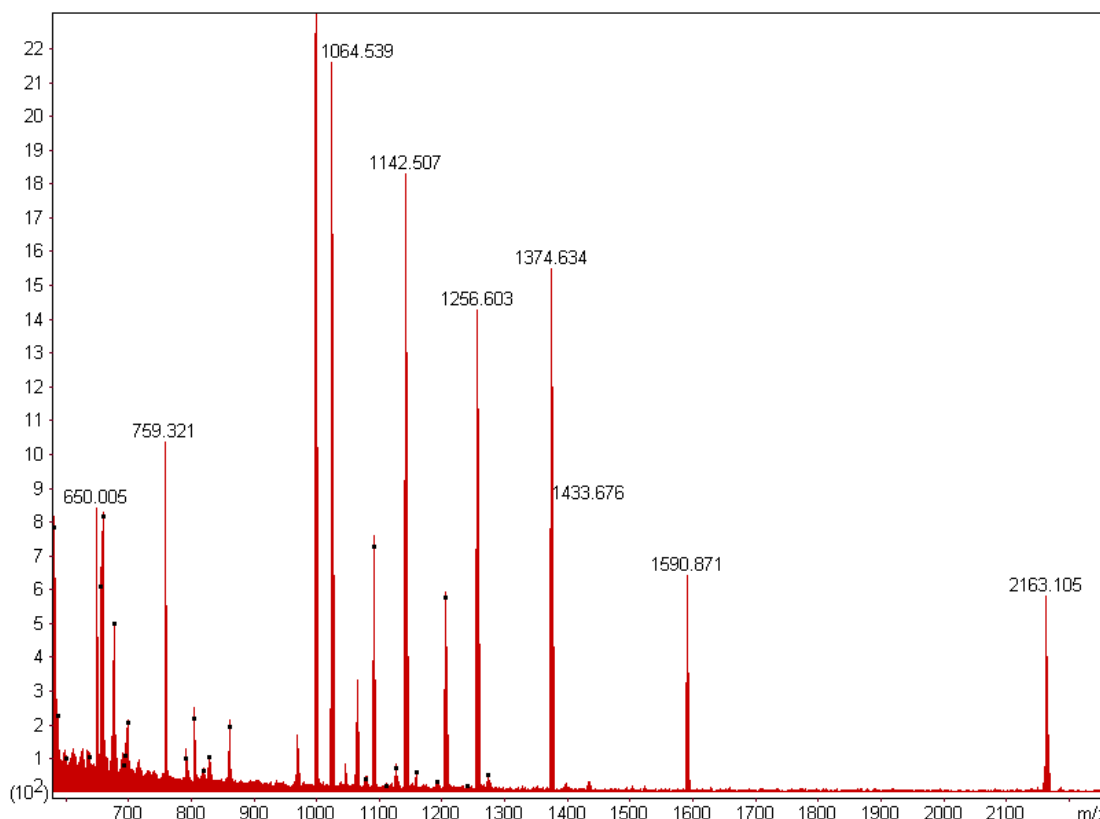
Matched peptides No.: **13**

Total peptides No.: **27**

Calculated Mr: **34165**

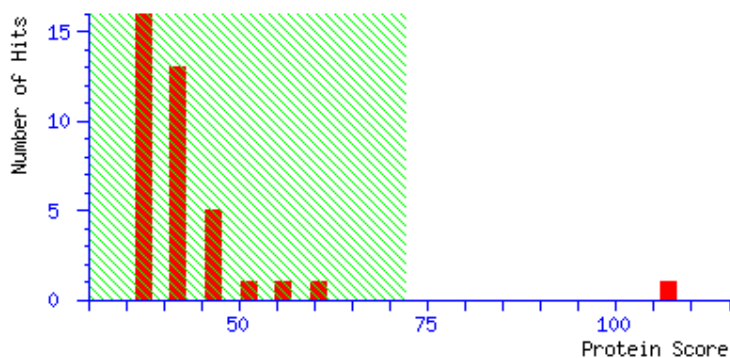
Calculated pI: **8.40**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MATVANFLAK PIATVVPRLS SAGASTSSFI FFDPKPNSLL LKQSLIRIPS
 51 RRRLSAVKVK AGAASPGKVG SPAAKDEKVQ **KIHSGEEFDE** ALKNAKNKLV
 101 **VAEFATSKSD** QSNKIYPFMV **DLSRTCNDVV** FLLIMGDESE KTRELCRREK
 151 **IEKVPHFSFY** **KSMEKIHEEE** GIGPDQLMGD VLYYGDNHSA VVQLHGRADV
 201 **EKLIDENRTG** **GKLIVLDVGL** **KHCGPCVKVY** **PTVLKLSRSM** **SETVVFARMN**
 251 **GDENDSCMEF** **LKDMNVIEVP** **TLFIRDGDI** **CGRYVGSKG** **ELIGEILRYS**
 301 **GVRVTY**

Matched peptides information:

Start - End	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Sequence
82 - 93	1374.6344	1373.6271	1373.6463	-14	0	K.IHSGEEFDEALK.N
99 - 108	1064.5391	1063.5318	1063.5914	-56	0	K.LVVAEFATSK.S
115 - 124	1256.6028	1255.5955	1255.6271	-25	0	K.IYPFMVDLSR.T Oxidation (M)
154 - 161	1024.4627	1023.4554	1023.5178	-61	0	K.VPHFSFYK.S
203 - 208	759.3207	758.3134	758.3922	-104	0	K.LIDENR.T
213 - 221	969.5574	968.5502	968.6270	-79	0	K.LIVLDVGLK.H
229 - 235	819.3687	818.3614	818.4902	-157	0	K.VYPTVLK.L
239 - 248	1126.5249	1125.5176	1125.5488	-28	0	R.SMSETVVFAR.M
239 - 248	1142.5074	1141.5001	1141.5438	-38	0	R.SMSETVVFAR.M Oxidation (M)
277 - 283	792.2572	791.2500	791.3232	-93	0	R.DGDICGR.Y
284 - 298	1590.8706	1589.8633	1589.8777	-9	1	R.YVGSGRGELIGEILR.Y
290 - 298	999.5293	998.5220	998.5760	-54	0	K.GELIGEILR.Y
299 - 303	581.2171	580.2099	580.2969	-150	0	R.YSGVR.V

Spot No.: **206**

Mascot score: **137** Sequence coverage %: **38**

NCBI accession No.: **gi| 15237225**

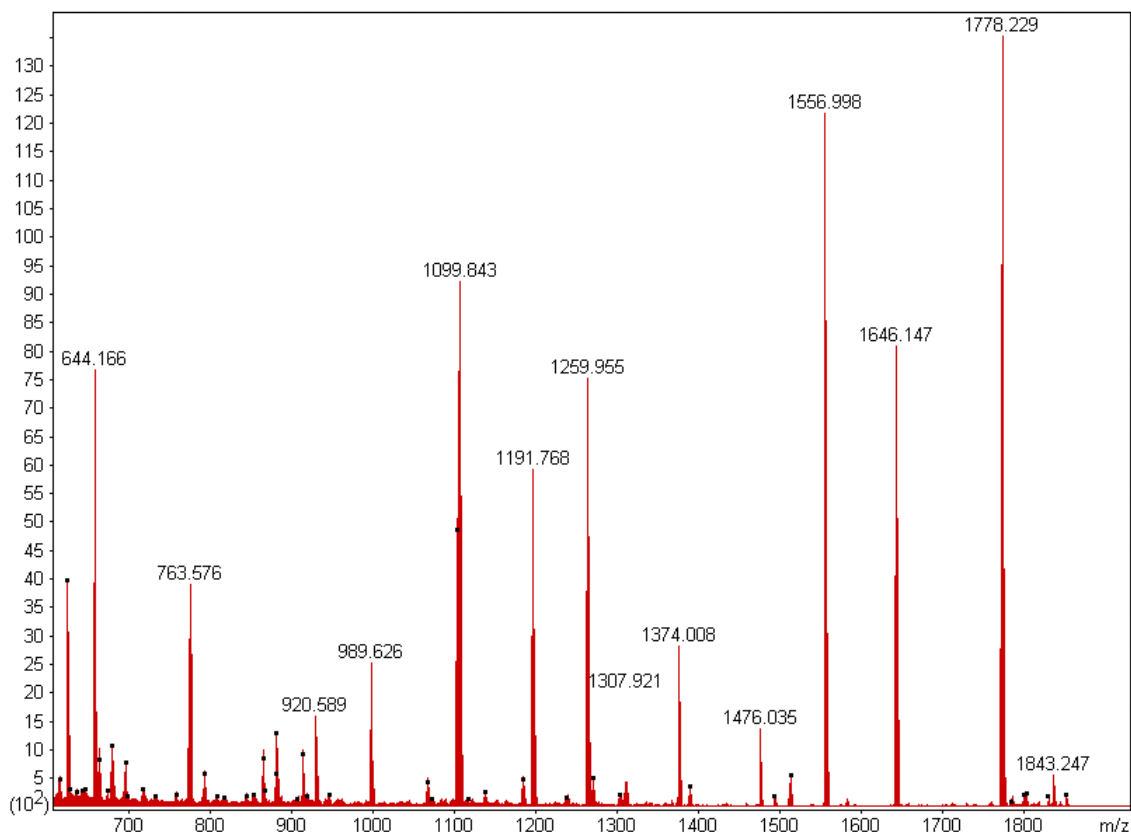
Matched peptides No.: **19**

Total peptides No.: **59**

Calculated Mr: **44133**

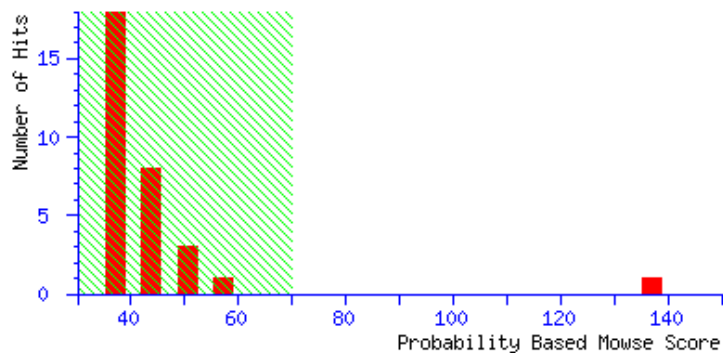
Calculated pI: **6.79**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

```

1  MASLQLCDGY LFKPSVSPR FLSQRISHRL IPKASSSPPP SPSPPSSSSSS
51  LSFSRRELLY QSAAVSLSLS SIVGPARADE QLSEWERVFL PIDPGVVLLD
101 IAFVPDEPSR GFLLGTRQTL LETKDGGSTW NPRSIPSAEE EDFNYRFNSI
151 SFKGKEGWII GKPAILLYTA DAGENWDRIP LSSQLPGDMV FIKATEDKSA
201 EMVTDEGAIY VTSNRGYNWK AAIQETVSAT LNRTVSSGIS GASYYTGTFS
251 AVNRSPDGRY VAVSSRGNFF LTWEPGOPYW QPHNRAVARR IQNMGWRADG
301 GLWLLVRGGG LYLSKGTGIT EEFEEVPVQS RFGGILDVGY RSEEEAWAAG
351 GSGILLRTRN GGKSWNRDKA ADNIAANLYA VKFVDDKKGF VLGNDGVLLR
401 YVG

```

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
21 - 25	650.1781	649.1708	649.3548	-283	0	R.FLSQR.I
111 - 117	763.5756	762.5684	762.4388	170	0	R.GFLLGTR.Q
125 - 133	989.6257	988.6184	988.4363	184	0	K.DGGSTWNPR.S
134 - 146	1556.9981	1555.9908	1555.6790	200	0	R.SIPSAEEEDFN YR.F
147 - 153	842.5801	841.5728	841.4334	166	0	R.FNSISFK.G
199 - 215	1843.2470	1842.2397	1841.8465	213	0	K.SAEMVTDEGA IYVTSNR.G
199 - 215	1859.2700	1858.2627	1857.8414	227	0	K.SAEMVTDEGA IYVTSNR.G Oxidation (M)
221 - 233	1374.0083	1373.0010	1372.7310	197	0	K.AAIQETVSAT LNRT
260 - 266	781.5462	780.5389	780.4130	161	0	R.YVAVSSR.G
290 - 297	1060.2752	1059.2679	1059.5396	-256	1	R.RIQNMGWR.A
291 - 297	904.6007	903.5934	903.4385	171	0	R.IQNMGWR.A
291 - 297	920.5887	919.5815	919.4334	161	0	R.IQNMGWR.A Oxidation (M)
298 - 307	1099.8434	1098.8361	1098.6186	198	0	R.ADGG LWLLVR.G
316 - 331	1778.2292	1777.2219	1776.8530	208	0	K.GTGITEEFEEVPVQ SR.G
332 - 341	1096.7769	1095.7696	1095.5713	181	0	R.GFGILDV GYR.S
342 - 357	1646.1471	1645.1398	1644.8107	200	0	R.SEEEAWAAGGS GILLR.T
364 - 369	805.5284	804.5212	804.3878	166	1	K.SWNRDK.A
388 - 400	1388.0591	1387.0518	1386.7983	183	1	K.KGFVLGNDG VLLR.Y
389 - 400	1259.9550	1258.9477	1258.7034	194	0	K.GFVLGNDG VLLR.Y

Spot No.: **207**

Mascot score: **81** Sequence coverage %: **27**

NCBI accession No.: **gi| 308802434**

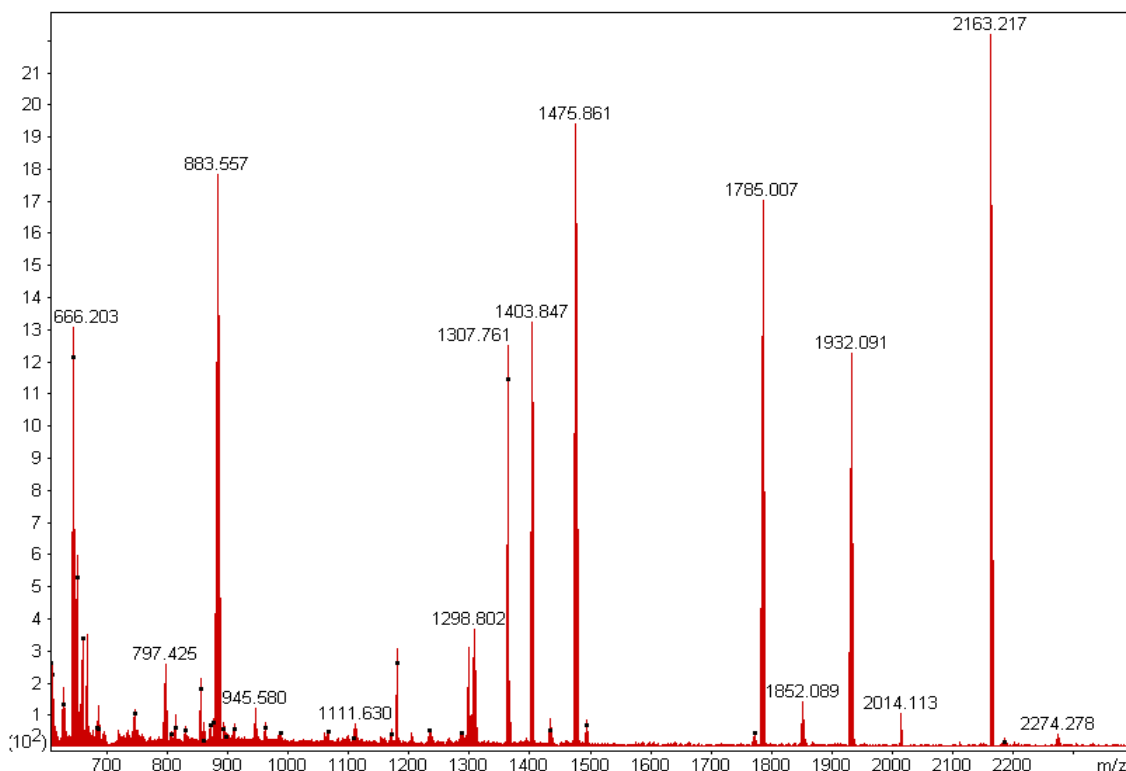
Matched peptides No.: **8**

Total peptides No.: **25**

Calculated Mr: **34223**

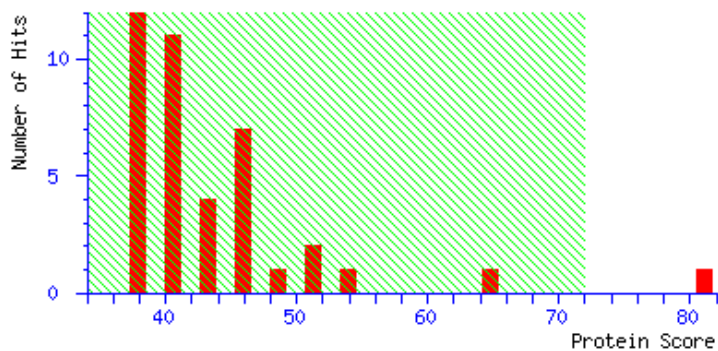
Calculated pI: **6.02**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MENYEKVAKI GEGTYGVVYK AKSLRDDAMV **ALKRIRLDQD** **DEGVPSTAIR**
51 EISLLKELRH **ENVVSLLEVI** **HEETKLYLVF** **EYLDLDLKKH** MDSSPHISND
101 RMVIKGYVYQ ICAGIAFCHS HRVLHRDLKP QNLLIDTTNN VLKLADFGLA
151 RAFGIPVRAY THEVVTWYR APEILLGVRT YSTPVDVWSI GCIMAEMVNH
201 APLFPGDSEI DELFKIFKTL GTPGETLWPE AKQLPDYQEG FPKWKAKPWE
251 SLCPALDEAG VDLLRSLLQY SPEKRISAKY ATQHR**WFDDY** **REHIGR**

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
1 - 6	829.3909	828.3837	828.3323	62	0	-.MENYEK.V Oxidation (M)
1 - 9	1111.6301	1110.6228	1110.5379	76	1	-.MENYEKVAK.I
2 - 6	682.2832	681.2759	681.2969	-31	0	M.ENYEK.V
23 - 33	1234.7328	1233.7255	1233.6387	70	1	K.SLRDDAMVALK.R Oxidation (M)
35 - 50	1785.0070	1783.9997	1783.9064	52	1	R.IRLDQDDEGVPSTAIR.E
57 - 75	2274.2778	2273.2705	2273.2015	30	1	K.ELRHENVVSLLEVIHEETK.L
76 - 89	1771.8974	1770.8901	1770.9807	-51	1	K.LYLVFEYLDLDLKK.H
286 - 296	1493.8237	1492.8164	1492.6848	88	1	R.WFDDYREHIGR.-

Spot No.: **208**

Mascot score: **133** Sequence coverage %: **36**

NCBI accession No.: **gi| 166359602**

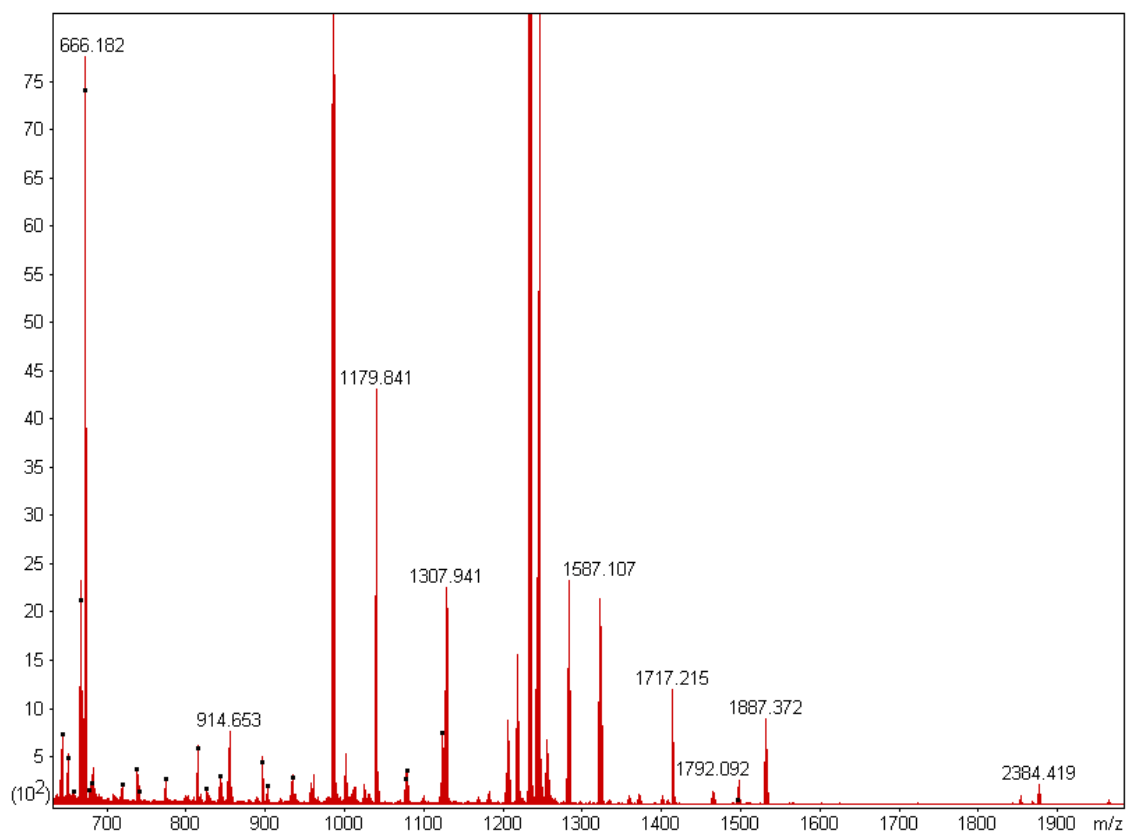
Matched peptides No.: **12**

Total peptides No.: **25**

Calculated Mr: **24136**

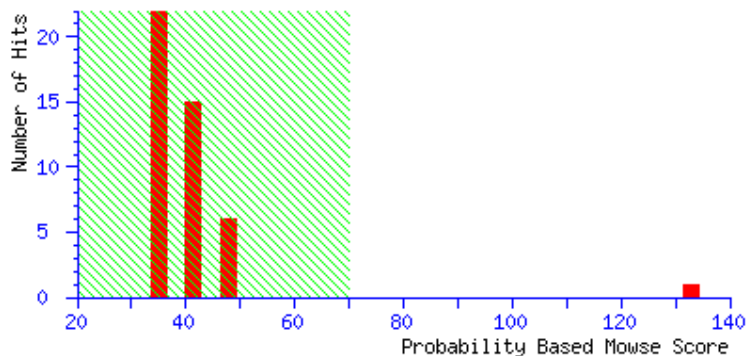
Calculated pI: **6.17**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MVLK**VYGPHE** **ASP**KRALVTL **VEK**GVAFETI **PVD**LMKGEHK QPAYLALQPF
51 GTVPAVVVDGD YK**IFES**RAVM **RYVAEK**YRSQ **GP**DLLGKTVE **DR**GQVEQWLD
101 VEATTYHPPL LNLTLHVMFA SVMGF PADQK LIKESEEK**LA** **AV**LDVYEAHL
151 **SK**SKYLAGDF VSLADLAHLP FTDYLVGPIG KAYMIKDRKH VSAWDDISS
201 RPAWKEVLEK YSLPA

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss Sequence
5 - 14	1102.7894	1101.7821	1101.5607	201	0 K.VYGPHEASPK.R
15 - 23	1028.8322	1027.8249	1027.6390	181	1 K.RALVTLVEK.G
16 - 23	872.6784	871.6711	871.5379	153	0 R.ALVTLVEK.G
24 - 36	1420.0190	1419.0117	1418.7479	186	0 K.GVAFETIPVDLMK.G
24 - 36	1436.0269	1435.0196	1434.7429	193	0 K.GVAFETIPVDLMK.G Oxidation (M)
24 - 40	1887.3719	1886.3646	1885.9608	214	1 K.GVAFETIPVDLMKGEHK.Q Oxidation (M)
63 - 67	651.4568	650.4496	650.3388	170	0 K.IFESR.A
63 - 71	1124.7697	1123.7624	1123.5808	162	1 K.IFESRAVMR.Y Oxidation (M)
72 - 76	609.4631	608.4558	608.3170	228	0 R.YVAEK.Y
79 - 87	914.6525	913.6453	913.4869	173	0 R.SQGPDLLGK.T
88 - 92	619.4001	618.3928	618.2973	154	0 K.TVEDR.G
139 - 152	1529.1700	1528.1627	1527.8297	218	0 K.LAAVLDVYEAHLSK.S

Spot No.: **209**

Mascot score: **115** Sequence coverage %: **32**

NCBI accession No.: **gi| 15240250**

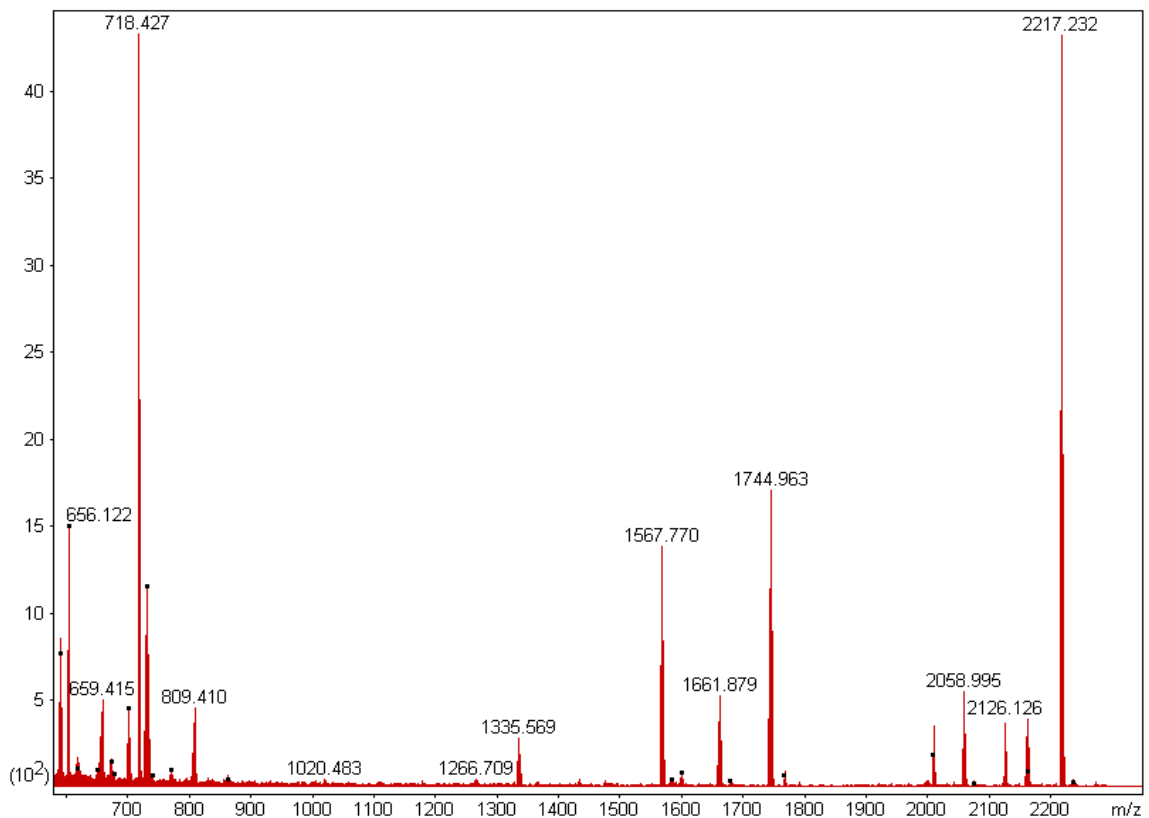
Matched peptides No.: **9**

Total peptides No.: **32**

Calculated Mr: **30275**

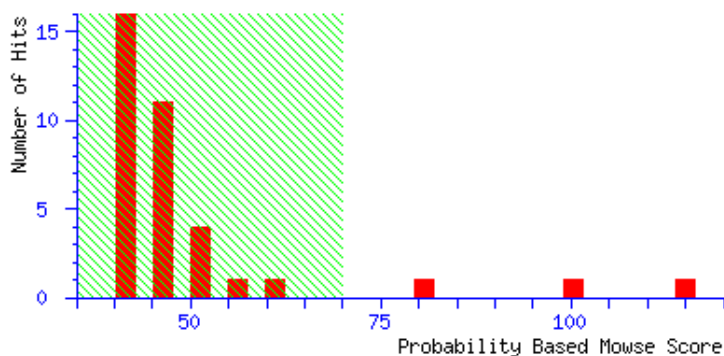
Calculated pI: **8.24**

Annotated PMF spectra:



Probability Based Mowse Score:

Protein score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Protein scores greater than 72 are significant ($p < 0.05$).



Matched peptide sequences: shown in **Bold Red**

1 MSTSAASLCC SSTQVNGFGL RPERSLLYQP TSFSFSRRRT HGIVKASSRV
51 DRFSK**SDIIV SPSILSANFA KLGEQKAVE LAGCDWIHVD VMDGRFVPMI**
101 TIGPLVVDAL RPVTDLPLDV HLMIVEPEQR **VPDFIKAGAD** IVSVHCEQQS
151 TIHLHR**TVNQ IKSLGAKAGV** VLNPGTPLSA IEYVLDMVDL VLIMSVNPGF
201 GGQSFIESQV **KKISDLRKMC** AEKGVNPNWIE VGGVTPANA **YKVIEAGANA**
251 **LVAGSAVFGA KDYAEAIKGI KASKRPAAVA** V

Matched peptides information:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
56 - 71	1661.8793	1660.8720	1660.9036	-19	0	K.SDIIVSPSILSANFAK.L
72 - 77	673.4064	672.3991	672.3806	27	0	K.LGEQVK.A
78 - 95	2058.9948	2057.9875	2057.9299	28	0	K.AVELAGCDWIHVDVMDGR.F Oxidation (M)
131 - 136	718.4271	717.4199	717.4061	19	0	R.VPDFIK.A
157 - 162	702.4192	701.4119	701.4072	7	0	R.TVNQIK.S
213 - 218	731.4594	730.4521	730.4337	25	1	K.ISDLRK.M
243 - 261	1744.9625	1743.9552	1743.9519	2	0	K.VIEAGANALVAGSAVFGAK.D
262 - 268	809.4098	808.4025	808.3967	7	0	K.DYAEAIK.G
269 - 274	603.3912	602.3839	602.3751	15	1	K.GIKASK.R