

Supplemental Information

Title: Comprehensive Proteomics Analysis of Laticifer Latex Reveals New Insights into Ethylene Stimulation of Natural Rubber Production

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Supplementary Figures and Tables

Supplementary Figure S1: Identification of the high abundant latex proteins in 2-DE gels.

Supplementary Figure S2: Classification and functional analysis of the identified main latex proteins.

Supplementary Figure S3: Identification of the differentially expressed latex proteins in DIGE gels.

Supplementary Figure S4: Identification of ethylene responsive latex proteins by iTRAQ.

Supplementary Figure S5: Information of the 59 phosphorlated latex proteins.

Supplementary Figure S6: Antibody information.

Supplementary Figure S7: Primers used in RT-PCR.

Supplementary Table S1: MS identification of high abundant rubber latex proteins 2-DE gels.

Supplementary Table S2: MS identification of the differential latex proteins in DIGE gels.

Supplementary Table S3: MS information of ethylene responsive latex proteins by iTRAQ.

Supplementary Table S4: MS identification of the phosphorlated latex proteins.

Supplementary Figure S1:

Annotated spectra for the **252** total latex protein spots and **35** bands identified by PMF and the combination results of PMF and PFF.

Spot numbers of the **252** proteins correspond to the proteins that listed in detail.

CID: collision induced desorption;

MALDI TOF:

matrix assisted laser desorption/ionization time of flight;

MS: mass spectrometry;

PMF: peptide mass fingerprinting;

PFF: peptide fragment fingerprinting.

Spot No.: 1

NCBI accession No.: [gi|132270](#) Species: *Hevea brasiliensis*

Protein name: Rubber elongation factor protein; Short=REF;

AltName: Allergen=Hev b 1

Mascot score: **122**

Sequence coverage %: **73**

Matched peptides No.: 9

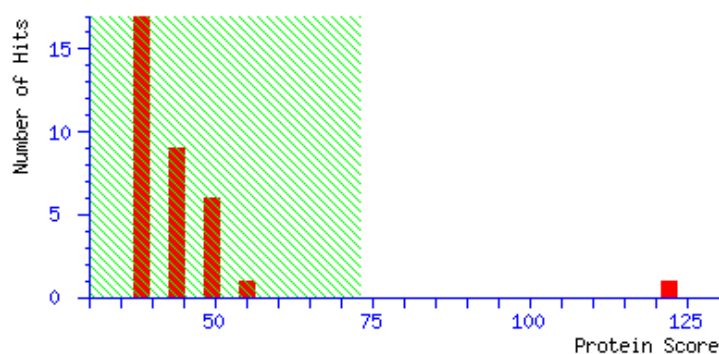
Total peptides No.: **23**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

1 MAEDEDNQQG QGEGLYLGF **VQDAATYAVT** TFSNVYLEAK DKSGPLQPGV
51 **DIIEGPVKNV** AVPLYNRFYSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 **ASIQVVS AIR** AAPEAARSLA **SSLPGQTKIL** AKVIFYGEN

Spot No.: **2**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

Protein name: Rubber elongation factor protein; Short=REF;

AltName: Allergen=Hev b 1

Mascot score: **142**

Sequence coverage %: **81**

Matched peptides No.: **10**

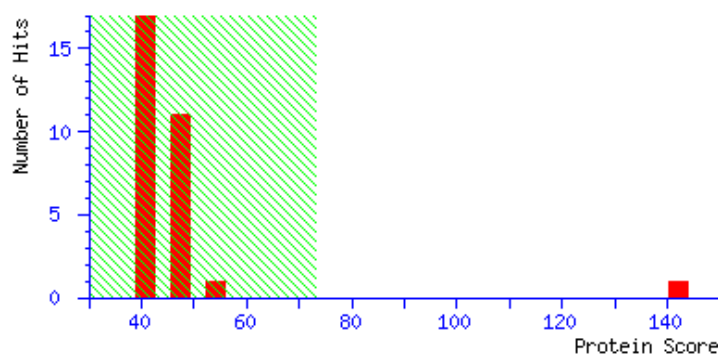
Total peptides No.: **17**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

1 MAEDEDNQGG QGEGCLKYLG FVQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR APEAARSLA SSLPGQTKIL AKV FYGEN

Spot No.: **3**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

Protein name: Rubber elongation factor protein; Short=REF;

AltName: Allergen=Hev b 1

Mascot score: **95**

Sequence coverage %: **56**

Matched peptides No.: **8**

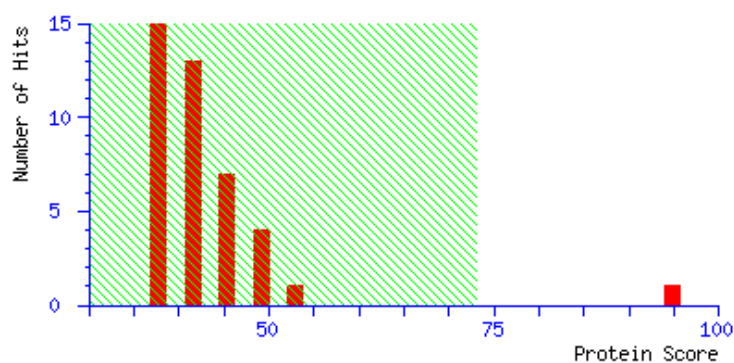
Total peptides No.: **42**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

```
1 MAEDEDNQQG QGEGLKYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: 4

NCBI accession No.: [gi|14423933](#) Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein; Short=SRPP; AltName: Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName: Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev b 3

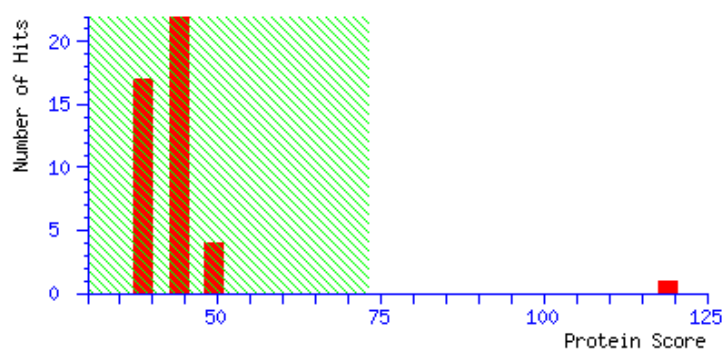
Mascot score: **119** Sequence coverage %: **75**

Matched peptides No.: **12** Total peptides No.: **52**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVTS LDGVVPPVIK QVSAQTYsvA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TwRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKIKVfEG
201 DEAS
```

Spot No.: **5**

NCBI accession No.: **gi|14423933** Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein; Short=SRPP; AltName: Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName: Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev b 3

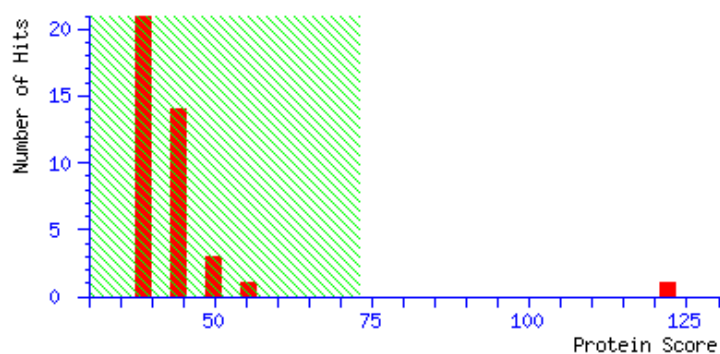
Mascot score: **122** Sequence coverage %: **85**

Matched peptides No.: **13** Total peptides No.: **55**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVK FV DKTVDVSVTS LDGVVPPVIK QVSAQTY SVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITK VFG
201 DEAS
```

Spot No.: **6**

NCBI accession No.: **gi|14423933** Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein; Short=SRPP; AltName: Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName: Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev b 3

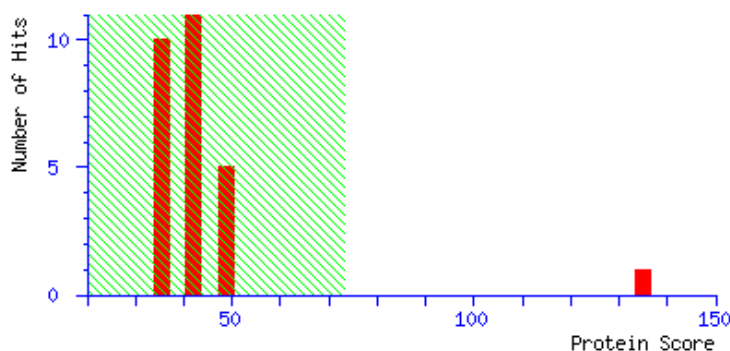
Mascot score: **135** Sequence coverage %: **75**

Matched peptides No.: **12** Total peptides No.: **31**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVK FV DKTVDVSVTS LDGVVPPVIK QVSAQTY SVA
101 QDAPRIVLDV ASSVFN TGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITK VFG
201 DEAS
```

Spot No.: 7

NCBI accession No.: [gi| 29170601](#) Species: *Hevea brasiliensis*

PFF score: **[121]** Protein name: [small rubber particle protein](#)

Matched peptides No.: **[2]** Sequence coverage %: **[23]**

Matched sequences: [K.ENENFQQEANEQEEK.L](#);

[K.QLPTQACDTSVK.E](#)

Calculated Mr: **12769**

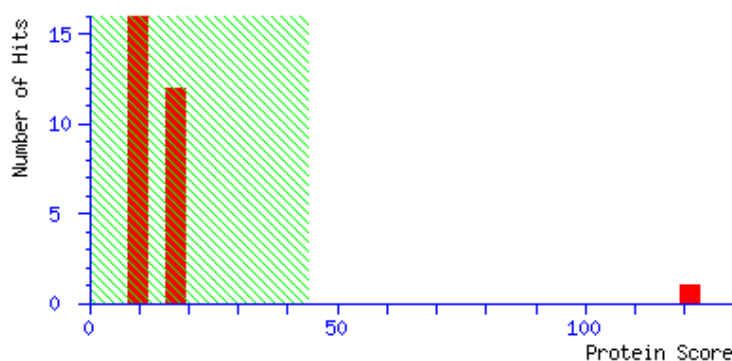
Calculated pI: **4.61**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 PLKPGVETIE GVAKTVVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```

Spot No.: 8

NCBI accession No.: [gi|29170601](#) Species: *Hevea brasiliensis*

PFF score: **[110]** Protein name: **small rubber particle protein**

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

Matched sequences: [K.DNSGPLKPGVETIEGVAK.T](#)

Calculated Mr: **12769**

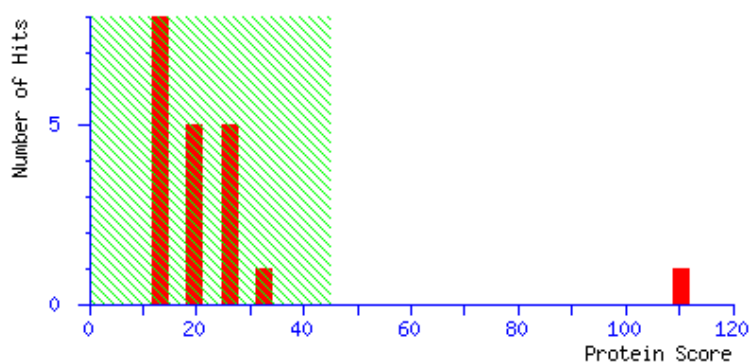
Calculated pI: **4.61**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAV TALS N IYLYAKDNSG
51 PLKPGVETIE GVAKTVVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```


Spot No.: **9**

NCBI accession No.: **gi|388503664** Species: *Lotus japonicus*

Protein name: **unknown**

Mascot score: **93**

Sequence coverage %: **45**

Matched peptides No.: **13**

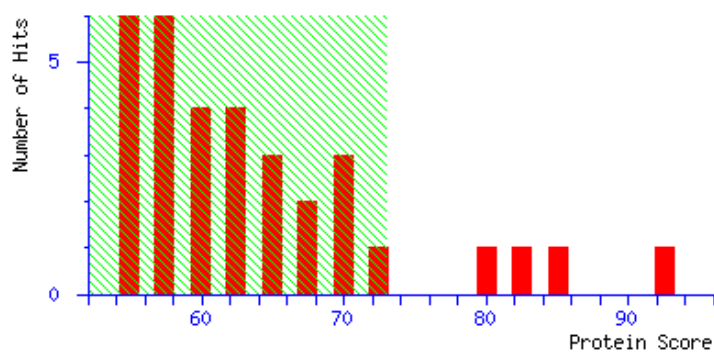
Total peptides No.: **48**

Calculated Mr: **29537**

Calculated pI: **4.79**

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 73 are significant ($p < 0.05$).



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

```
1  MASSKDRGTF VYVAKLAEQA ERYEEMVDSM KKVANLDVEL TVEERNLLSV
51 GYKNVIGARR ASWRILSSIE QKEETKGNDV NAKRIKEYRQ KVESELADIC
101 NDVMRVIDEH LIPSATAGES TVFYKMKGD YYRYLAEFKS GNEKKEAADQ
151 SMKAYESATT AAEAELPPTH PIRLGLALNF SVFYEILNS PERACHLAKQ
201 AFDEAIELD TLNEESYKDS TLIMQLLRDN LTLWTSDIPE EGEDSLKAND
251 TAKVGGGEDA E
```

Spot No.: **10**

NCBI accession No.: **gi|3288200** Species: *Hevea brasiliensis*

Protein name: **latex allergen**

Mascot score: **209**

Sequence coverage %: **68**

Matched peptides No.: **22**

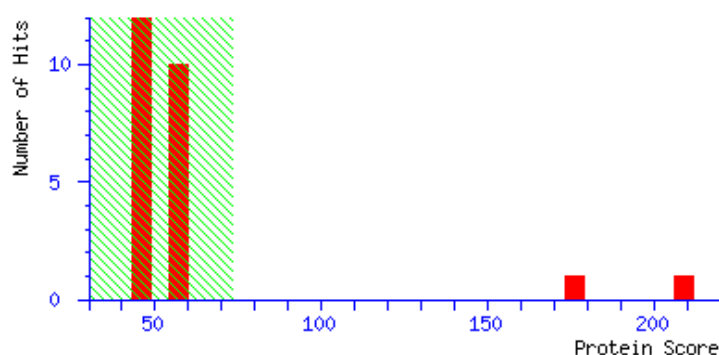
Total peptides No.: **42**

Calculated Mr: **43020**

Calculated pl: **5.00**

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 73 are significant ($p < 0.05$).



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

1 MATG**STTLTQ** GKKITVLSID GGGIRGIIPG IILASLESKL QDL**DGPDARI**
51 ADYFD**IIAGT** STGGLIT**TML** TAP**NEDKKPI** YQAKDIKDFY LENC**PKIFPK**
101 ESRD**TYDPIH** SIGPIYD**GEY** LREL**CNNLLK** DLT**VKDTLTD** VIIPAF**DIKL**
151 LLPV**IFSSDD** AKCNAL**KNAR** LADV**CISTSA** APVLL**PAHSF** TTED**DKNIHT**
201 FELIDGG**VAA** ANPTLL**LALTH** IRNE**IIRQNP** RFI**GANTES** KSRLVLS**LGT**
251 GKSEY**KEYN** AD**MTSKWRLY** NWALYNGNS**P** AVDIFSNASS DMVDFHLSAL
301 F**KS**LD**CE**DY**Y** LRIQDD**TLTG** EESS**GHIATE** ENLQRL**VEIG** TELL**E**Q**ESR**
351 INLD**TGRLES** IPGAPT**NEAA** IAK**FAKLLSE** ER**KLRQLK**

Spot No.: **11**

NCBI accession No.: **gi|6707018** Species: *Hevea brasiliensis*

Protein name: **latex protein allergen Hev b 7**

Mascot score: **172**

Sequence coverage %: **45**

Matched peptides No.: **17**

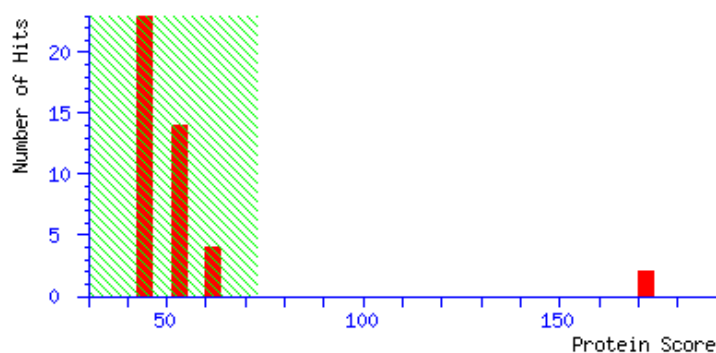
Total peptides No.: **45**

Calculated Mr: **43107**

Calculated pI: **5.00**

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 73 are significant ($p < 0.05$).



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

```
1  MATGSTPLTQ  GKKITVLSID  GGGIRGIIPG  IILASLESKL  QDLDGPDARI
51  ADYFDIIAGT  STGGLITTML  TAPNEDKKPM  YQAKDIKDFY  LENCPKIFPK
101  ESRDNYDPIH  SIGPIYDGEY  LRELCNLLK  DLTVKDTLTD  VIIPTFDIKL
151  LLPVIFSSDD  AKCNALKNAR  LADVCISTSA  APVLLPAHSF  TTEDDKNIHT
201  FELIDGGVAA  TNPTLLALTH  IRNEIIRQNP  RFIGANLTES  KSRLVLSLGT
251  GKSEYKEKYN  ADMTSKWRLY  NWALYNGNSP  AVDIFSNASS  DMVDFHLSAL
301  FKSLDCEDYY  LRIQDDTLTG  EESSGHIATE  ENLQRLVEIG  TELLEKQESR
351  INLDTGRLES  IPGAPTNEAA  IAKFAKLLSE  ERKLRQLK
```

Spot No.: **12**

NCBI accession No.: **gi|4235430** Species: *Hevea brasiliensis*

Protein name: **latex-abundant protein**

Mascot score: **82**

Sequence coverage %: **49**

Matched peptides No.: **15**

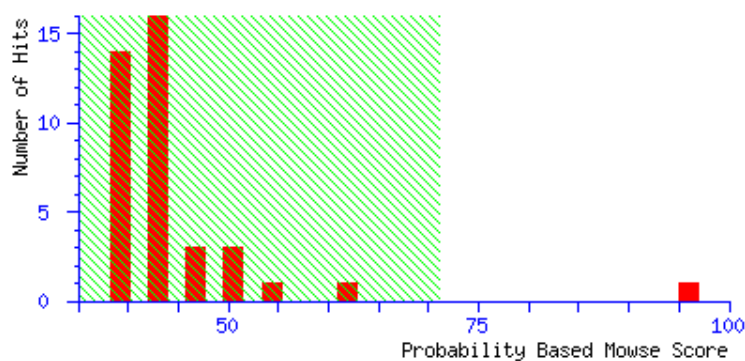
Total peptides No.: **29**

Calculated Mr: **46443**

Calculated pI: **5.01**

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 73 are significant ($p < 0.05$).



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

```
1  MAKKAVLIGI  NYPGTKAELK  GCINDVKRMY  RCLVDRYGFS  EEDITVLLIDI
51 DESYIQPTGK  NIRRVLTDLV  RSAEPGDLIF  VHYSGHGTRL  PAETGEDDDT
101 GFDECIVPCD MNLITDDDFR EFVDQVPHGC RITVVSDSCH SGGLIDEAKE
151 QIGESTKRKE  EESESGFGFK  SFLKQTIQDA  FESRGVHLPS DLHHHHGHRD
201 EEDFDNRVVE EDYGDSGYVK SKSLPLSTLI EILKQKTGKD DIDVGKLRPT
251 LDFMFGDDAS PKVKKFMKVI LNKLRHGDGE SGGGGFLGMV GSLAQEFLKH
301 KLDENDESIV  KPALETEVDS  KQEVYAGKTK  RSLPDGGILI  SGCQTDQ TSA
351 DASPSGKSSE  AYGALSNAIQ  TIIAETDGAV  TNQELVLKAR  KMLKKQGFTQ
401 KPGLYCSDDH VEASFVC
```

Spot No.: **13**

NCBI accession No.: **gi|4235430** Species: *Hevea brasiliensis*

Protein name: **latex-abundant protein**

Mascot score: **96**

Sequence coverage %: **54**

Matched peptides No.: **15**

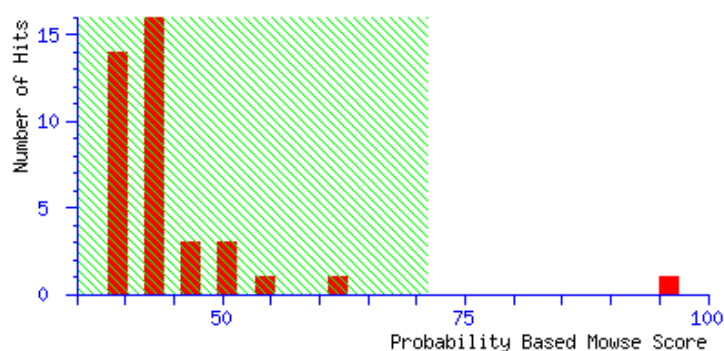
Total peptides No.: **37**

Calculated Mr: **46443**

Calculated pI: **5.01**

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 73 are significant ($p < 0.05$).



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

```
1  MAKKAVLIGI  NYPGTKAELK  GCINDVKRMY  RCLVDRYGFS  EEDITVVLIDI
51  DESYIQPTGK  NIRRVLTDLV  RSAEPGDLLF  VHYSGHGTRL  PAETGEDDDT
101 GFDECIVPCD  MNLITDDDFR  EFVDQVPHGC  RITVVSDSCH  SGGLIDEAKE
151 QIGESTKRKE  EESESGFGFK  SFLKQTIQDA  FESRGVHLPS  DLHHHHGHRD
201 EEDFDNRVVE  EDYGDSGYVK  SKSLPLSTLI  EILKQKTGKD  DIDVGKLRPT
251 LFDMPGDDAS  PKVKKFMKVI  LNKLRHGDE  SGGGGFLGMV  GSLAQEFLKH
301 KLDENDESIV  KPALETEVDS  KQEVYAGKTK  RSLPDGGILI  SGCQTDQ TSA
351 DASPSGKSSE  AYGALSNAIQ  TIIAETDGAV  TNQELVLKAR  KMLKKQGFTQ
401 KPGLYCSDDH  VEASFVC
```

Spot No.: **14**

NCBI accession No.: **gi|20559** Species: *Petunia x hybrida*

Protein name: **hsp70 (AA 6 - 651)**

Mascot score: **103**

Sequence coverage %: **40**

Matched peptides No.: **24**

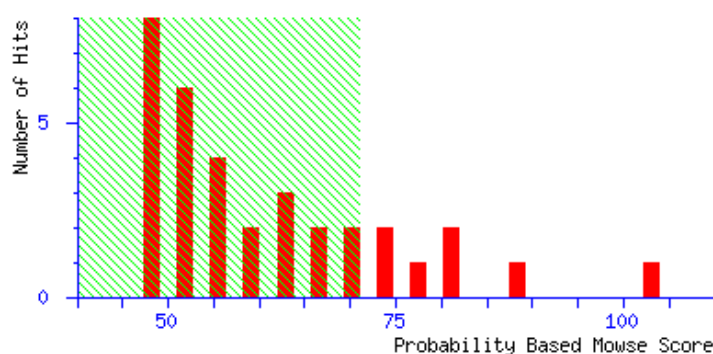
Total peptides No.: **41**

Calculated Mr: **71137**

Calculated pl: **5.07**

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 73 are significant ($p < 0.05$).



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

```
1  EGPAIGIDLG  TTYSCVGVWQ  HDRVEIIAND  QGNRTTPSYV  GFTDTERLIG
51  DAAKNQVAMN  PINTVFDAKR  LIGRRFSDPS  VQSDIKLWPF  KVIPGPGDKP
101 MIVVTYKGEE  KQFAAEEISS  MVLTKMKEIA  EAYLGTTIRN  AVVTVPAYFN
151 DSQRQATKDA  GVIAGLNVMR  IINEPTAAAI  AYGLDKKASS  AGEKNVLI FD
201 LGGGTFDVSL  LTIEEGIFEV  KATAGDTHLG  GEDFDNRMVN  HFVQEFKRKN
251 KKDISGNPRA  LRRLRTACER  AKRTLSSTAQ  TTIEIDSLYE  GIDFYSTITR
301 ARFEELNMDL  FRKCMPEVEK  CLRDAKMDKS  SVHDVVLVGG  STRIPKVQQL
351 LQDFFNKEL  CKSINPDEAV  AYGAAVQAAI  LSGEGNEKVQ  DLLLLDVTPL
401 SLGLETAGGG  MTVLIPRNTT  IPTKKEQVFS  TYSDNQPGVL  IQVYEGERAR
451 TKDNNLLGKF  ELSGIPPAPR  GVPQITVCFD  IDANGILNVS  AEDKTTGQKN
501 KITITNDKGR  LSKEEIERMV  QEAKEYKSED  EELKKKVEAK  NALENYAYNM
551 RNTIKDDKIN  SQLSAADKKR  IEDAIDEAIK  WLDNNQLAEA  DEFEDKMKEL
601 ESICNPIIAK  MYQGGAGGAT  MDLEDGPSVGG  SAGSQTGAGP  KIEEVD
```

Spot No.: **15**

NCBI accession No.: **gi|58013197** Species: *Isatis tinctoria*

Protein name: **actin**

Mascot score: **142**

Sequence coverage %: **51**

Matched peptides No.: **16**

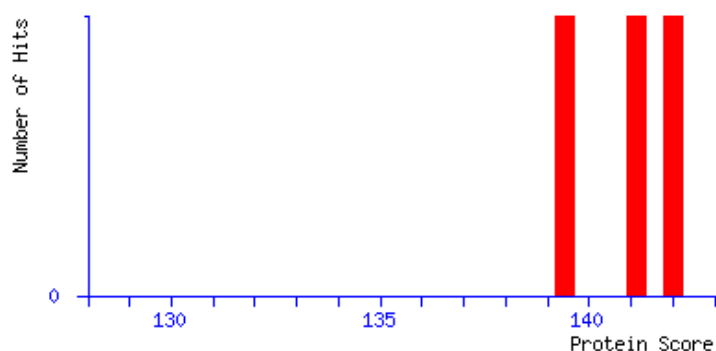
Total peptides No.: **36**

Calculated Mr: **42020**

Calculated pI: **5.31**

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 73 are significant ($p < 0.05$).



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

```
1  MADGEDIQPL  VCDNGTGMVK  AGFAGDDAPR  AVFPSIVGRP  RHTGVTVWMG
51  QKDAYVGVDEA  QSKRGILTLK  YPIEHGIVSN  WDDMEKIWHH  TFYNELRVAP
101 EEHPVLLTEA  PLNPKANREK  MTQIMFETFN  VPAMYVAIQA  VLSLYASGRT
151 TGIVLDSGDG  VSHTVPIYEG  YALPHAILRL  DLAGRDLTDS  LMKILTERGY
201 MFTTTAEREI  VRDIKEKLAY  VALDYEQELE  TAKSSSSVEK  NYELPDGQVI
251 TIGAERFRCP  EILFQPSLIG  MEAPGIHETT  YNSIMKCDVD  IRKDLYGNIV
301 LSGGSTMFPG  IAD RMSKEIT  ALAPSSMKIK  VVAPPERKYS  VWIGGSILAS
351 LSTFQQMWIS  KGEYDESGPS  IVHRKCF
```


Spot No.: **16**

NCBI accession No.: [gi|2506211](#)

Species: *Vigna radiata var. radiata*

Protein name: V-type proton ATPase catalytic subunit A

PMF Mascot score: **145**

Sequence coverage %: **45**

Matched peptides No.: **27**

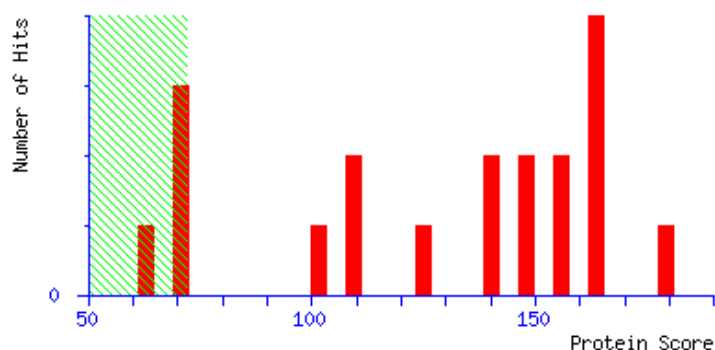
Total peptides No.: **69**

Calculated Mr: **68923**

Calculated pI: **5.30**

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 73 are significant ($p < 0.05$).



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

```
1  MPAVYGARLT  TFEDSEKES  YGYVRKVS GP  VVVADGMAGA  AMYELVRVGR
51  DNLIGEIIRL  EGDSATIQVY  EETAGLMVND  PVLRTHKPLS  VELGPGIILGN
101 IFDGIQRPLK  TIAKRSGDVY  IPRGVSVPAL  DKDTLWEFQP  KKIGEGDLLT
151  GGDLYATVFE  NTLMQHHIAL  PPDAMGKITY  IAPPGQYSIT  DTVLELEFQG
201  VKKKFTMLQT  WPVRTPRPVA  SKLAADTPLL  TGQRVLDALF  PSVLGGTCAI
251  PGAFGCGKTV  ISQALSKYSN  SDAVVYVCGG  ERGNEMAEVL  MDFPQLTMTL
301  PDGREESVMK  RTTLVANTSN  MPVAAREASI  YTGITLAEYF  RDMGYNVSM
351  ADSTSRWAEA  LREISGRLAE  MPADSGYPAY  LAARLASFYE  RPGKVKCLGG
401  PERTGSVTIV  GAVSPPGGDF  SDPVSATLS  IVQVFWGLDK  KLAQRKHFPS
451  VNWLISYSKY  STALESFYEQ  FDPDFINIRT  KAREVLQRED  DLNEIVQLVG
501  KDALAEGDKI  TLETAKLLRE  DYLAQNAFTP  YDKFCPFYKS  VMMRNIHF
551  YNLANQAVER  GAGSDGQKIT  YSLIKHRVGD  LFYRLVSQKF  EDPAEGEAAL
601  VGQFQKLHED  LSTGFRNLED  ETR
```


Spot No.: **17**

NCBI accession No.: [gi|357480067](#) Species: *Medicago truncatula*

Protein name: [Leucine aminopeptidase](#)

Mascot score: **92**

Sequence coverage %: **31**

Matched peptides No.: **16**

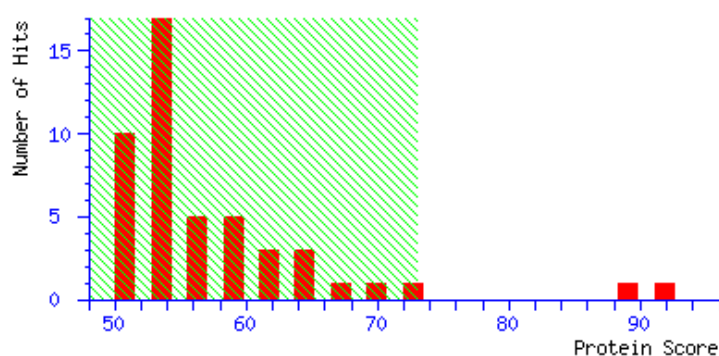
Total peptides No.: **69**

Calculated Mr: **59856**

Calculated pI: **7.56**

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 73 are significant ($p < 0.05$).



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

```
1  MAAIASAIVI  AFSKSSSSSL  FLTSRIRFAS  FPKRSFHSTT  KLMSQSRYTT
51  LGLTHPTNIE  APKISFSATD  VDVTEWKGDI  LAVGVTEKDL  TRDAKSRFEN
101  SILNKIDLKL  DGLLSEASSE  EDFSGKVGQS  TVVRIKGLGS  KRVGLIGLGQ
151  LPSTTALYKG  LGEAVVAVAK  SAQASNVAIV  LASSEGLSSE  SKLSTAYAIA
201  SGAVLGLFED  QRYKSESKKP  AVRSIDIIGL  GTGPDLEKKL  KYAGDVSSGI
251  IFGRELVNSP  ANVLTPGVLA  EEASKVASTY  SDVFTAKILD  ADQCKELKMG
301  SYLGVAASA  NPPRFIHLTY  KPPSGSVKVK  LALVGKGLTF  DSGGYNIKTG
351  PGCSIELMKF  DMGGSAAVLG  AAKALGQIKP  LGVEVHFIVA  ACENMISGTG
401  MRPGDVVTAS  NGKTIEVNNT  DAEGRLTLAD  ALVYACNQGV  EKIIDLATLT
451  GACVVALGPS  IAGVFSPNDE  LVKEVLEASE  VSGEKLWRLP  IEESYWESMK
501  SGVADMVNTG  GRPGG SITAA  LFLKQFVDEK  VQWLHIDMAG  PVWNDKKRSA
551  TGFGVSTLVE  WVLKNSS
```

Spot No.: **18**

NCBI accession No.: [gi|219885949](#) Species: *Zea mays*

Protein name: [unknown](#)

Mascot score: **81**

Sequence coverage %: **35**

Matched peptides No.: **8**

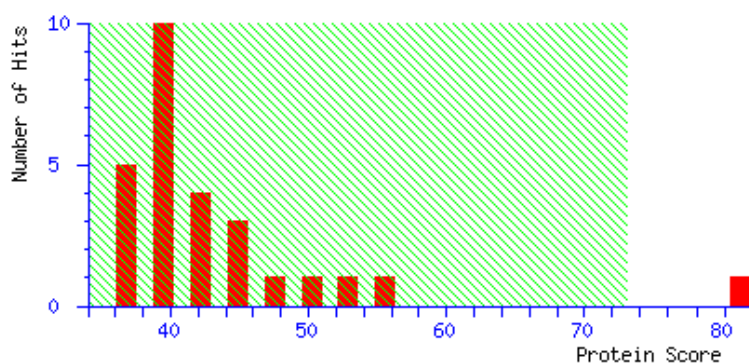
Total peptides No.: **46**

Calculated Mr: **30752**

Calculated pI: **5.91**

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 73 are significant ($p < 0.05$).



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

```
1  MALAAVIRSS  RATMMELEI  ELKKASDKLK  SWDATSISLS  AACDLFMRFV
51  TRTSHLEHEK  FDAAKSRLIE  RGEKFGEISL  KARKTIAMLS  QDFIYDGCTI
101 LVHGYSRVVL  EVLKLAASNR  KLFrvLCTEG  RPDRTGLRMS  NELAALGIPV
151 KVLIDSAVAY  SIDEVDMVFV  GADGVVESGG  IINMMGTYQI  ALVAHTMDKP
201 VYVAAESHKF  ARLYPLDQKD  MTPAHRPIDF  GVPIPIGVEV  ETSARDYTPP
251 QYLTLTLLTDL  GVLTPSVVSD  ELIQLYL
```

Spot No.: **19**

NCBI accession No.: [gi|242059605](#)

Species: *Sorghum bicolor*

PFF score: **[101]**

Protein name: [hypothetical protein SORBIDRAFT_03g043200](#)

Matched peptides No.: **[1]** Sequence coverage %: **[6]**

Matched sequences: [R.FFPSEFGNDVDHVHAVEPAK.S;](#)

Calculated Mr: **34294**

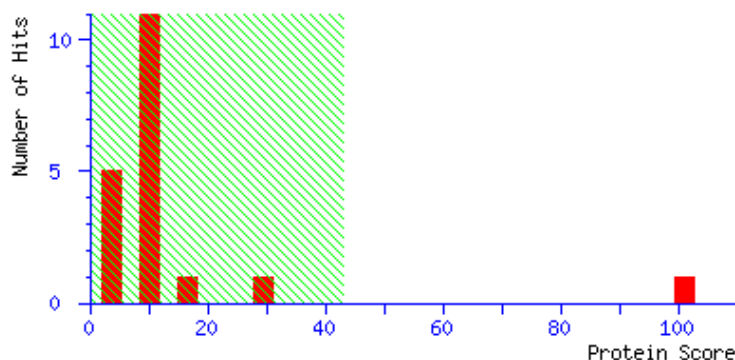
Calculated pI: **5.93**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSSAAGHKER  SRVLVIGGTG  YIGRFIVAAS  AREGHPTYVL  VRDPAPADPA
51  KAAVLQGFRD  AGVTLVKGDL  YNHESLVVAM  ESADVVISAV  GYAQLPDQTR
101 IISAIKDAGN  IKRFFPSEFG  NDVDHVHAVE  PAKSVFAAKA  SIRRAVEAEG
151 IPYTYISSNF  FAGRFLPAIG  QIGVTGLPID  KVLILGDGNV  KAIFGTEEDV
201 GTYTIKAVDD  PRTLKILYL  RPPSNILSHN  ELISLWEKKV  GKTFERVYIP
251 EDDVLKKIQE  SPIPLNRALS  ISHSAWVKGD  HTNFEIDPFF  GVEATDLYPD
301 VKYTTVDEYL  NKFL
```

Spot No.: **20**

NCBI accession No.: [gi|30575570](#) Species: *Citrus x paradisi*

PFF score: **[86]** Protein name: HSP19 class II, partial

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

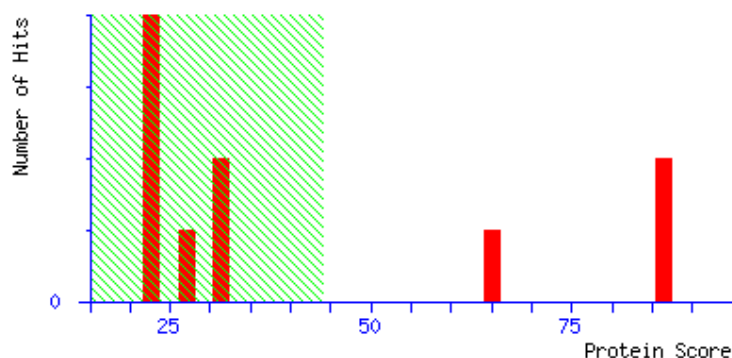
Matched sequences: [K.VQVEDDNVLLISGER.K;](#)

Calculated Mr: **11191**

Calculated pI: **8.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 YVFIVDMPGL KSGDIKVQVE DDNVLLISGE RKREEEKDGA KYVRMERRVG  
51 KFMRKFLVPE NANVEAISAV CQDGVLTITV DKLPPPEPKK PKTIEVKIA
```

Spot No.: **21**

NCBI accession No.: [gi|27449246](#) Species: *Hevea brasiliensis*

Protein name: [Cu/Zn superoxide dismutase](#)

Mascot score: **83**

Sequence coverage %:**48**

Matched peptides No.: **7**

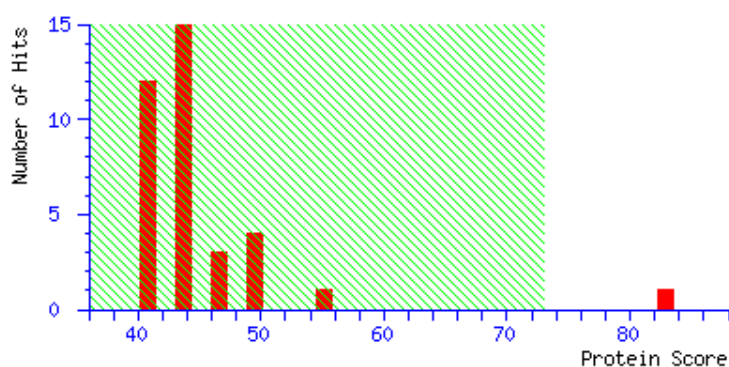
Total peptides No.: **21**

Calculated Mr: **15726**

Calculated pI: **5.73**

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 73 are significant ($p < 0.05$).



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

```
1 MLKAVAVITS SEGISGKIFF TQEGDGPTTV TGSVSGLKPG LHGFHVHTFG
51 DTTNGCLSTG LHFNPASKDH GGPEDENRHA GD LGNVNVGD DGTANFTIVD
101 KHIPLSGPHS IAGRSVVFHE GRDDLKGGH ELSKITGNAG DRIACGIIGL
151 QE
```

Spot No.: **22**

NCBI accession No.: [gi|37806305](#)

Species: *Oryza sativa Japonica Group*

PFF score: **[60]** Protein name: [hypothetical protein](#)

Matched peptides No.: **[2]** Sequence coverage %: **[3]**

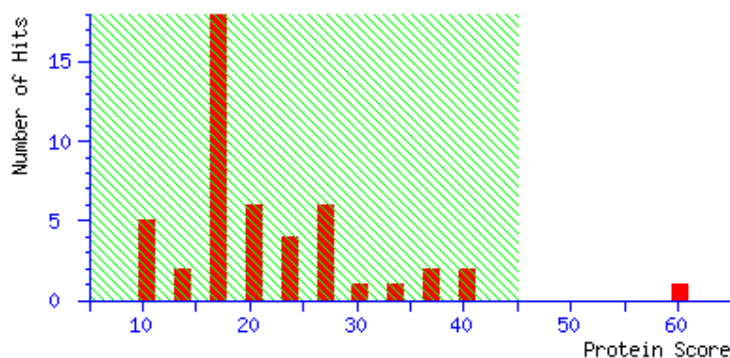
Matched sequences: [K.LGTLVLGDRPRL](#) ; [K.LGTLVLGDRPRL](#)

Calculated Mr: **35105**

Calculated pI: **8.29**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEVFQGVQFA  RLRNWEETY  VTADEDGRSV  YHYAPDRHRP  AHEAIWAVQM
51  VLAGAPPTQY  VLLRGAYGRY  LGAPDAVVRV  WPLSCCWPAP  VVGQRDFDQP
101 EVDAIMWRAV  RRADHVLCLH  DKSGRYLRGK  LGTLVLGDRP  RLTVGDGRLN
151 DDEKALRWEV  LPVLPNPGRP  ELPISIVPEA  DLVGRLVKAC  FLPLQREIQF
201 VEADDDGNIG  EGQEVWDSFQ  YEGRSVQLLR  NELEDRVGYA  ITVCVRAGRH
251 GQHSPLLINL  PHSRETLHIV  VLRRNSEADN  QLTFFDPKAS  SRRRYRHRRR
301 AIIQ
```

Spot No.: **23**

NCBI accession No.: **gi|10946499**

Species: *Hevea brasiliensis*

Protein name: **beta-1,3-glucanase**

Mascot score: **85**

Sequence coverage %:**43**

Matched peptides No.: **14**

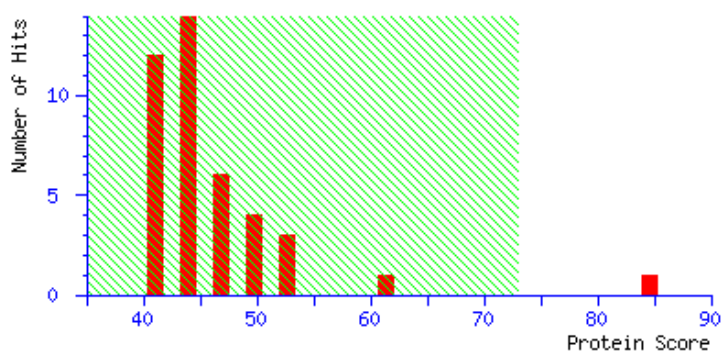
Total peptides No.: **53**

Calculated Mr: **35295**

Calculated pI: **9.46**

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 73 are significant ($p < 0.05$).



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

```
1 QVGVCYGMQG NNLPPVSEVI ALYKKSNI TR MRIYDPNRAV LEALRGSNIE
51 LILGVPNSDL QSLTNPSNAK SWVQKNVRGF WSSVLF RYIA VGNEISPVNR
101 GTAWLAQFVL PAMRNIHDAI RSAGLQDQIK VSTAILDLTV GNSYPPSAGA
151 FRDDVRSYLN PIIRFLSSIR SPLLANIYPY FTYAGNPRDI SLPYALFTSP
201 SVVVWDGQRG YKNLFDATLD VLYSALERAS GGSLEV VVSE SGWPSAGAF A
251 ATFDNGR TYL SNLIQHVKRG TPKRPNRAIE TYLFAMFDEN KKQPEVEKQF
301 GLFFPKWQK YNLNFG
```


Spot No.: **24**

NCBI accession No.: **gi|78216493** Species: *Malus x domestica*

Protein name: **cytosolic malate dehydrogenase**

Mascot score: **82**

Sequence coverage %: **54**

Matched peptides No.: **15**

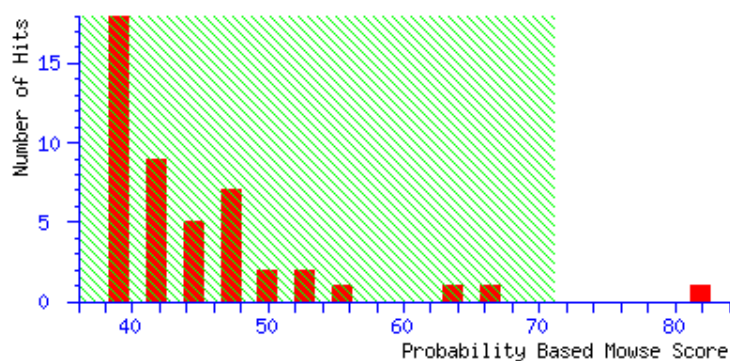
Total peptides No.: **50**

Calculated Mr: **35970**

Calculated pI: **6.01**

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 73 are significant ($p < 0.05$).



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

```
1  MAKEPVRVLV  TGAAGQIGYA  LVPMIARGIM  LGADQPVI LH  LLDIPPAAEA
51  LNGVRMELVD  AAFPLLKGVV  ATTDVVEACT  GVNIAMVGG  FPRKEGMERK
101 DVMTKRVSIY  KSQASALEKH  AAPNCKVLVV  ANPANTNALI  LKEFAPSIPE
151 KNVTCLTRLD  HNRALGQVSE  RLNVQVSDVK  NVIIWGNHSS  SQYPDVNHAT
201 VKTPSGEKCV  RELVADDAWL  NGEFISTVQQ  RGAAIKARK  LSSALSAASS
251 ACDHIRDWVL  GTPEGTWVSM  GVYSDGSYDV  PSGLIFSFPV  TCQHGEWKIV
301 QGLSIDEFSR  KKLDATAEEL  SEEKALAYSC  LS
```


Spot No.: **25**

NCBI accession No.: [gi|257219562](#) Species: *Jatropha curcas*

PFF score: **[81]** Protein name: [annexin-like protein](#)

Matched peptides No.: **[2]** Sequence coverage %: **[5]**

Matched sequences: [K.AFEGWGTNEK.A](#) ; [R.WILDPEDR.D](#)

Calculated Mr: **36015**

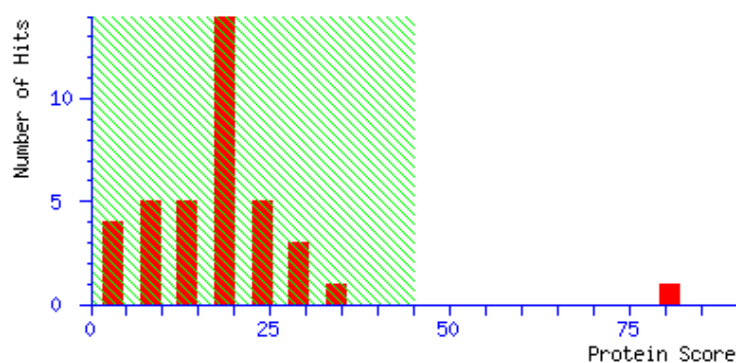
Calculated pI: **6.41**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATIVVPANV SYVEDAETLR KAFEGWGTNE KAVIAVLGHR NAVQKKHIRQ
51  AYWDLYQEDL VKRLESELGG DFERAMYRWI LDPEDRDAVL ANVALRKSGD
101 FHVIVEIACA RSAEELLVLR RAYQARYKHS LEEDVATHTT GDIRKLLVGL
151 VTAFMYEGAE INTRLAKSEA DVLQEAIKDK HFNHDEVIRI LTTRSKTQLN
201 TTFNHFKDDH GTSITKALLG EKADNEFVRL LSIAIRTMNE PLKYYEKVLR
251 NAIKRIGTDE DALTRVIVTR AEKDLLHIKE LYPKRNNVPL DHAVDKEIHG
301 DYKHFLALL GHQD
```

Spot No.: **26**

NCBI accession No.: [gi|3451147](#) Species: *Hevea brasiliensis*

PFF score: **[56]** Protein name: **chitinase**

Matched peptides No.: **[1]** Sequence coverage %: **[4]**

Matched sequences: [K.VYLTAAPQCPFPDR.Y](#)

Calculated Mr: **34138**

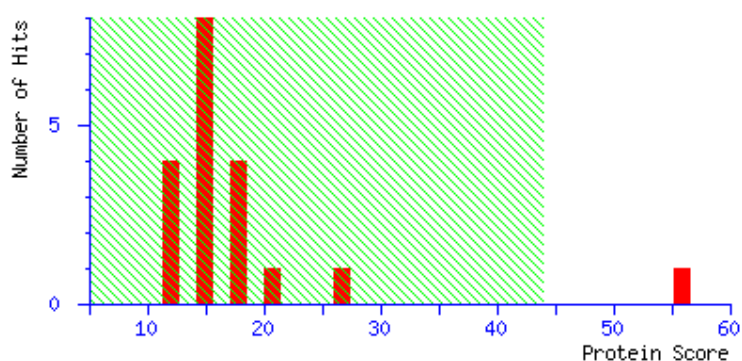
Calculated pI: **8.72**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAKRTQAILL  LLLAISLIMS  SSHVDGGGIA  IYWGQNGNEG  TLTQTCSTRK
51  YSYVNIAFLN  KFGNGQTPQI  NLAGHCNPAA  GGCTIVSNGI  RSCQIQGIKV
101 MLSLGGGIGS  YTLASQADAK  NVADYLWNNF  LGGKSSSRPL  GDAVLGDIDF
151 DIEHGSTLYW  DDLARYLSAY  SKQGKKVYLT  AAPQCPFPDR  YLGTALNTGL
201 FDYVWVQFYN  NPPCQYSSGN  INNIINSWNR  WTTSINAGKI  FLGLPAAPEA
251 AGSGYVPPDV  LISRILPEIK  KSPKYGGVML  WSKFYDDKNG  YSSSIRDSVL
301 FLHSEKMTV  L
```

Spot No.: **27**

NCBI accession No.: **gi|4469175** Species: *Hevea brasiliensis*

Protein name: **beta-1,3-glucanase**

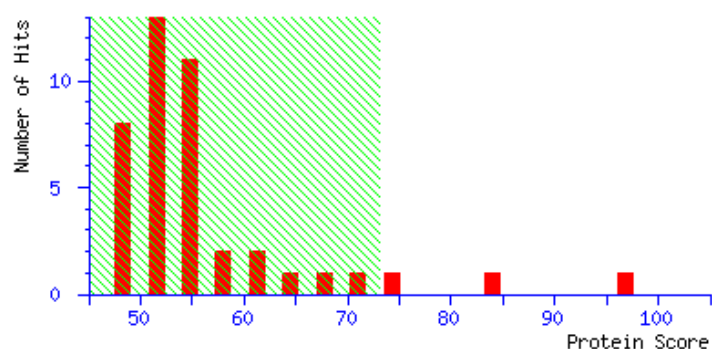
Mascot score: **97** Sequence coverage %: **46**

Matched peptides No.: **16** Total peptides No.: **107**

Calculated Mr: **38930** Calculated pI: **9.45**

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT SSSLPSRTTV MLLLFFFAAS VGITDAQVGV CYGMQGNLNP
51 PVSEVIALYK KSNITRMRIY DPNRAVLEAL RGSNIELILG VPNSDLQSLT
101 NPSNAKSWVQ KNVRGEWSSV LFRYIAVGNE ISPVNRGTAW LAQFVLPAMR
151 NIHDAIRSAG LQDQIKVSTA IDLTLVGNSY PPSAGAFRDD VRSYLNPIIR
201 FLSSIRSPLL ANIYPYFTYA GNPRDISLPY ALFTSPSVVV WDGQRGYKNL
251 FDATLDVLYS ALERASGGSL EVVVESESWP SAGAFATFD NGRTYLSNLI
301 QHVKRGTPKR PNRAIETYLE AMFDENKKQP EVEKQFGLFF PDKWQKYNLN
351 FG
```

Spot No.: **28**

NCBI accession No.: **gi|124365253** Species: *Hevea brasiliensis*

Protein name: **beta-1,3-glucanase**

Mascot score: **99**

Sequence coverage %:**37**

Matched peptides No.: **15**

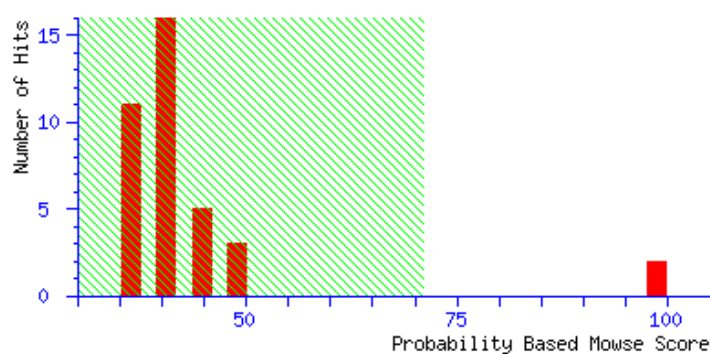
Total peptides No.: **44**

Calculated Mr: **41543**

Calculated pI: **9.40**

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT  SSSLPSRTTV  MLLLFFFTAS  VGITDAQVGV  CYGMQGNNLP
51  PVSEVIALYK  KSNITRMRIY DPNQAVLEAL RGSNIELILG VPNSDLQSLT
101 NPSNAKSWVQ  KNVRGFWSSV  RFRYIAVGNE  ISPVNRGTAW LAQFVLPAMR
151 NIHDAIRSAG LQDQIKVSTA IDLTLVGNSY PPSAGAFRDD VRSYLNPIIR
201 FLSSIRSPLL ANIYPYFTYA  GNPRDISLPY  ALFTSPSVVV  WDGQRGYKNL
251 FDATLDALYS ALERASGGSL EVVVSESGWP  SAGAFATFD  NGRTYLSNLI
301 QHVKRGTPKR PKRAIETYLE AMFDENKKQP EVEKHFGLEF PNKWQKYNLN
351 FSAEKNWDIS  TEHNATILFL  KSDM
```

Spot No.: **29**

NCBI accession No.: **gi|124365253** Species: *Hevea brasiliensis*

Protein name: **beta-1,3-glucanase**

Mascot score: **109**

Sequence coverage %:**38**

Matched peptides No.: **15**

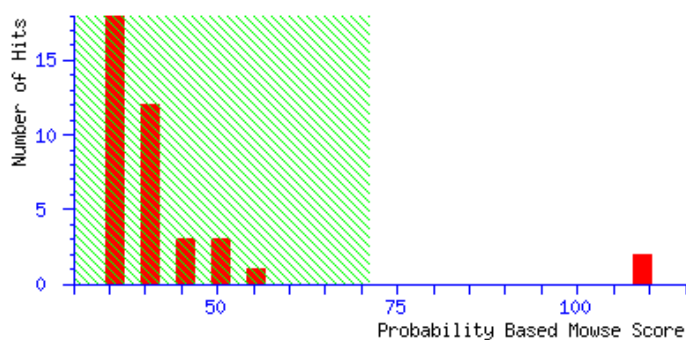
Total peptides No.: **35**

Calculated Mr: **41543**

Calculated pl: **9.40**

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT  SSSLPSRTTV  MLLLFFFTAS  VGITDAQVGV  CYGMQGNLNP
51  PVSEVIALYK  KSNITRMRIY  DPNQAVLEAL  RGSNIELILG  VPNSDLQSLT
101 NPSNAKSWVQ  KNVRGFWSSV  RFRYIAVGNE  ISPVNRGTAW  LAQFVLPAMR
151 NIHDAIRSAG  LQDQIKVSTA  IDLTLVGNSY  PPSAGAFRDD  VRSYLNPIIR
201 FLSSIRSPLL  ANIYPYFTYA  GNPRDISLPY  ALFTSPSVVV  WDGQRGYKNL
251 FDATLDALYS  ALERASGGSL  EVVSESGWP  SAGAFATFD  NGRTYLSNLI
301 QHVKRGTPKR  PKRAIETYLE  AMFDENKKQP  EVEKHGGLFF  PNKWQKYNLN
351 FSAEKNWDIS  TEHNATILFL  KSDM
```

Spot No.: **30**

NCBI accession No.: **gi|255540341** Species: *Ricinus communis*

Protein name: **glyceraldehyde 3-phosphate dehydrogenase, putative**

Mascot score: **86**

Sequence coverage %:**42**

Matched peptides No.: **14**

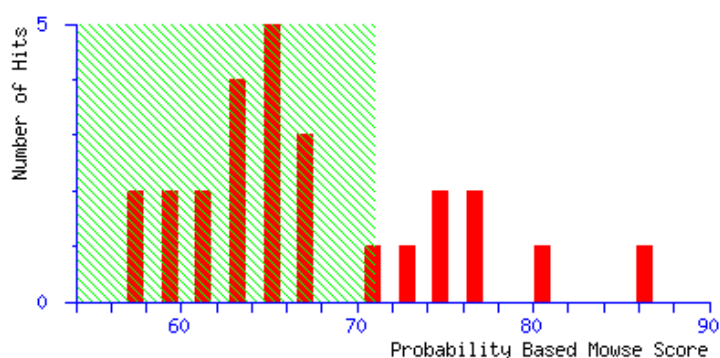
Total peptides No.: **57**

Calculated Mr: **36930**

Calculated pI: **7.10**

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 73 are significant ($p < 0.05$).



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

1 **MAKIKIGING** **FGRIGRLVAR** **VALQRDDVEL** VAVNDPFIST EYMTYMFKYD
51 **TVHGQWKHHE** LKIKDDKILL FGEKPVTVFG VRNPEEIPWA **ETGAEYIVES**
101 **TGVFTDKDKA** AAHLKGGAKK VIISAPSKDA **PMFVVGVNEK** EYTPDLHIIS
151 NASCTTNCLA PLAKVINDRF GIVEGLMTTV HSITATQKTV **DGPSMKDWRG**
201 **GRAASFNIIP** **SSTGAAKAVG** **KVLPSLNGKL** **TGMSFRVPTV** **DVSVDLTVR**
251 LEKSATYEQI **KAAIKEESEG** **KLKGILGYTE** DDVVSTDFIG DKRSSIFDAK
301 **AGIALNDKQV** **KLVSWYDNEW** **GYSTRVVDLI** VHVASVH

Spot No.: **31**

NCBI accession No.: **gi|4539543** Species: *Nicotiana tabacum*

Protein name: **glyceraldehyde-3-phosphate dehydrogenase**

Mascot score: **121**

Sequence coverage %:**47**

Matched peptides No.: **19**

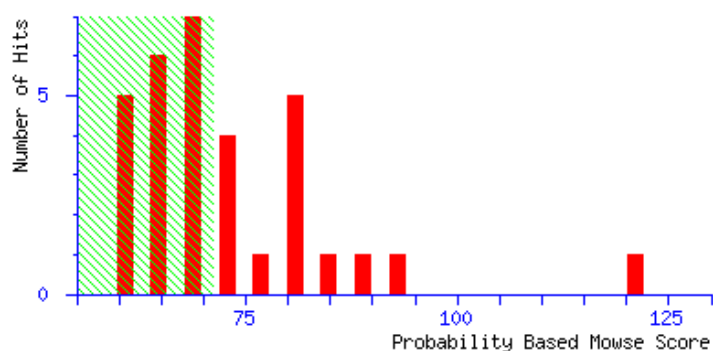
Total peptides No.: **89**

Calculated Mr: **36816**

Calculated pI: **7.70**

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 73 are significant ($p < 0.05$).



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

1 **MAVKIGING** **FGRIGRLVAR** **VALQRDDVEL** VAVNDPFISV EYMTYMFKYD
51 SVHGQWKHHE **LKVKDDKTL** **FGEKAVTVFG** FRNPEEIPWG QTGADYIVES
101 TGVFTDKDKA **AAHLKGGAKK** **VIISAPSKDA** **PMFVVGVNEK** EYKPELNIVS
151 NASCTTNCLA **PLAKVINDRF** **GIVEGLMTTV** **HSITATQKTV** DGPSAKDWRG
201 **GRAASFNIIP** **SSTGAAKAVG** **KVLPALNGKL** **TGMAFRVPTV** **DVSVDLTVR**
251 **LEKEATYDEI** **KAAIKEESEG** **KLKGILGYTE** **DDVVSTDFVG** **DNRSSIFDAK**
301 **AGIALSKNFV** **KLVSWDNEW** **GYSTRVVDLI** **KHMASVQ**

Spot No.: **32**

NCBI accession No.: **gi|32527831**

Species: *Populus tremula x Populus tremuloides*

Protein name: **UDP-glucose pyrophosphorylase**

Mascot score: **99**

Sequence coverage %: **40**

Matched peptides No.: **18**

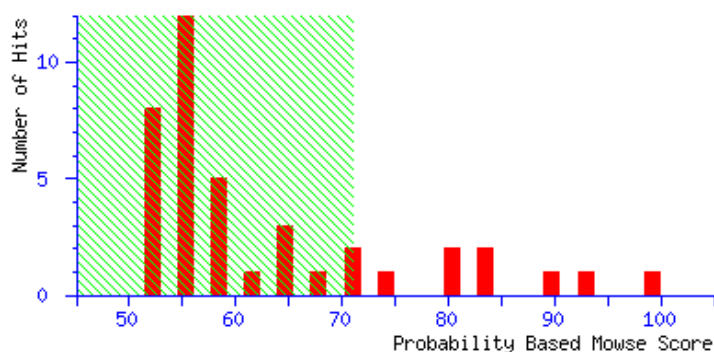
Total peptides No.: **102**

Calculated Mr: **51949**

Calculated pI: **5.68**

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 73 are significant ($p < 0.05$).



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

```
1  MATDTEKISQ  LKSAVANLNQ  ISESEKTGFV  NLVSRYLSGE  AQQVEWSKIQ
51  TPTDEVVVPY  DTLESTPEDP  EETKMLLDKL  VVLKLNGGLG  TTMGCTGPKS
101 VIEVRNGLTF  LDLIVIQIES  LNKKYGCSVP  LLLMNSFNTH  DDTQKIIEKY
151  SNSNIEIHTF  NQSQYPRLVA  DDFVPLPSKG  HTDKDGWYPP  GHGDVFPSLK
201  NSGKLDALLS  QGKEYVVFAN  SDNLGAVVDL  KILNHLIRNK  NEYCMEVTPK
251  TLADVKGGTL  ISYEGKVQLL  EIAQVPDQHV  NEFKSIEKFK  IFNTNNLWVN
301  LKAIKRLVEA  DALKMEIIPN  PKEVDGVKVL  QLETAAGAAI  RFFDHAIGIN
351  VPRSRFLPVK  ASSDLLLVQS  DIYTPVVDGF  VIRNPGRANP  ANPSIELGPE
401  FKKVASFLSR  FKSIPSIIEL  DSLKVAGDVW  FGVNVTLK GK  VSIVVKSGVK
451  LEIPEGVVLE  NKEINGPKDL
```


Spot No.: **33**

NCBI accession No.: **gi|6707018** Species: *Hevea brasiliensis*

Protein name: latex protein allergen Hev b 7

Mascot score: **171**

Sequence coverage %:**79**

Matched peptides No.: **26**

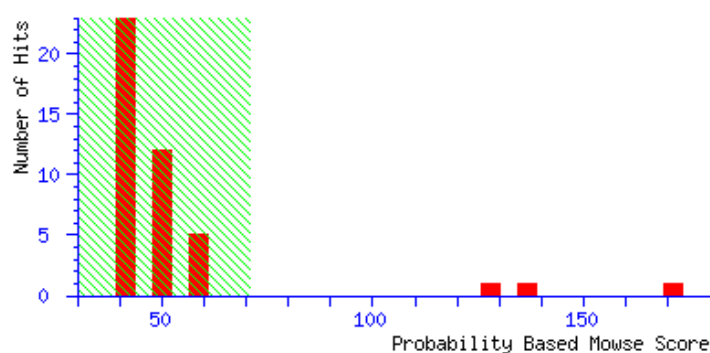
Total peptides No.: **67**

Calculated Mr: **43107**

Calculated pI: **5.00**

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 73 are significant ($p < 0.05$).



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

```
1  MATGSTPLTQ GKKITVLSID GGGIRGIIPG IILASLESKL QDLGPDARI
51 ADYFDIIAGT STGGLITTML TAPNEDKKPM YQARDIKDFY LENCPKIFPK
101 ESRDNYDPIH SIGPIYDGEY LRELCNNLLK DLTVKDTLTD VIIPTFDIKL
151 LLPVIFSSDD AKCNALKNAR LADVCISTSA APVLLPAHSF TTEDDKNIHT
201 FELIDGGVAA TNPTLLALTH IRNEIIRQNP RFIGANLTES KSRLVLSLGT
251 GKSEYKEKYN ADMTSKWRLY NWALYNGNSP AVDIFSNASS DMVDFHLSAL
301 FKSLDCEDYY LRIQDDTLTG EESSGHIATE ENLQRLVEIG TELLEKQESR
351 INLDTGRLES IPGAPTNEAA IAKFAKLLSE ERKLRQLK
```

Spot No.: **34**

NCBI accession No.: **gi|158144895** Species: *Gossypium hirsutum*

Protein name: **enolase**

Mascot score: **123**

Sequence coverage %: **39**

Matched peptides No.: **14**

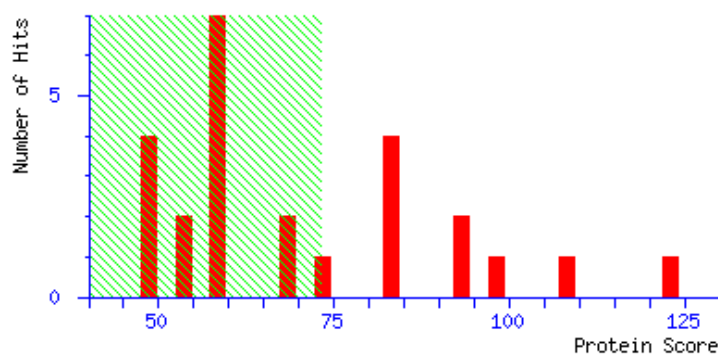
Total peptides No.: **48**

Calculated Mr: **47982**

Calculated pl: **5.49**

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 73 are significant ($p < 0.05$).



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

```
1 MAATIVSVKA RQIFDSRGNP TVEVDVETSN GIKARAAVPS GASTGIYEAL
51 ELRDGDFDYL GKGVSKAVAN VNTIIGPALI GKDPTEQTAI DNFMVQQLDG
101 TQNEWGWCKQ KLGANAILAV SLAVCKAGAE VKKLPLYKHI ANLAGNSKLV
151 LPVPAFNVIN GGSHAGNKLA MQEFMILPVG ASSFKEAMKM GVEVYHHLKS
201 VIKKKYGQDA TNVGDEGGFA PNIQENKEGL ELLNTAIAKA GYTGKVVIGM
251 DVAASEFYGT DKTYDLNFKE ENNDGKQKIS GDALKDLYKS FVAEYPIVSI
301 EDPFDQDDWE HYSKLTNEIG EKVQIVGDDL LVTNPKRVAK AIAEKTNAL
351 LLKVNQIGSV TESIEAVKMS KQAGWGMAS HRSGETEDTF IADLSVGLAT
401 GQIKTGAPCR SERLAKYNQL LRIEEEELGAE AVYAGASFRA FVAPY
```

Spot No.: 35

NCBI accession No.: [gi|3288200](#) Species: *Hevea brasiliensis*

PFF score: [81]

Protein name: **latex allergen**

Matched peptides No.: [2] Sequence coverage %: [4]

Matched sequences: **R.DTYDPIHSIGPIYDGEYLR.E;**

R.DTYDPIHSIGPIYDGEYLR.E

Calculated Mr: **43020**

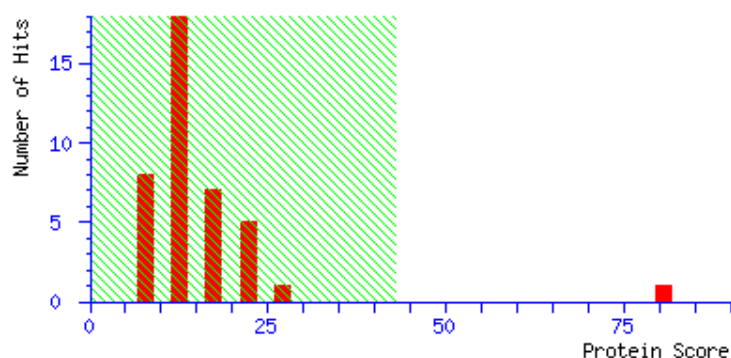
Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATGSTTLTQ  GKKITVLSID  GGGIRGIIPG  IILASLESKL  QDLGPDARI
51  ADYFDIIAGT  STGGLITTML  TAPNEDKKPI  YQAKDIKDFY  LENCPKIFPK
101 ESRDTYDPIH SIGPIYDGEY LRELCNLLK  DLTVKDTLTD  VIIPAFDIKL
151  LLPVIFSSDD  AKCNALKNAR  LADVCISTSA  APVLLPAHSF  TTEDDKNIHT
201  FELIDGGVAA  ANPTLLALH  IRNEIIRQNP  RFIGANLTES  KSRLVLSLGT
251  GKSEYKEKYN  ADMTSKWRLY  NWALYNGNSP  AVDIFSNASS  DMVDFHLSAL
301  FKSLDCEDYY  LRIQDDTLTG  EESSGHIATE  ENLQRLVEIG  TELLEKQESR
351  INLDTGRLES  IPGAPTNEAA  IAKFAKLLSE  ERKLRQLK
```

Spot No.: 36

NCBI accession No.: [gi|1916805](#) Species: *Hevea brasiliensis*

PFF score: [138]

Protein name: **latex patatin homolog**

Matched peptides No.: [2] Sequence coverage %: [8]

Matched sequences: **K.SLDCEDYYLR.I;**

R.IQDDTLTGEESSGHIAATEENLQR.L

Calculated Mr: **43035**

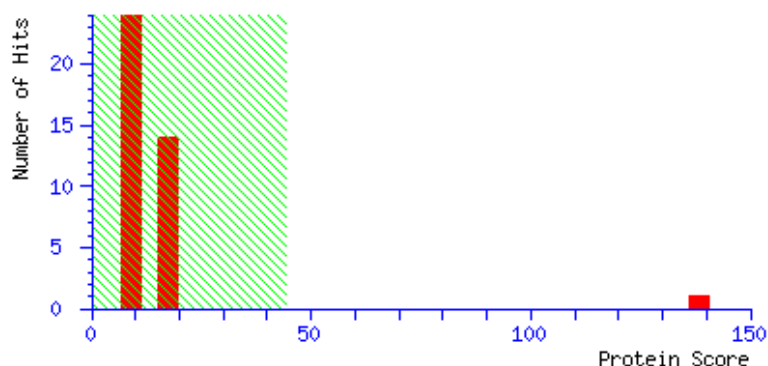
Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MATGSTTLTQ GKKITVLSID GGGIRGIIPG IILASLESKL QDLGPDARI
51 ADYFDIIAGT STGGLITTML TAPNEDKKPM YQAKDIKDFY LENCPIKIFPK
101 ESRDNYDPIH SIGPIYDGEY LRELCNNLLK DLTVKDTSTD VIIPTFDIKL
151 LLPVIFPSDD AKCNALKNAR LADVCIESTA APVLLPAHSF TTEDDKNIHT
201 FELIDGGVAA TNPTLLALTH IRNEIIRQNP RFIGANLTES KSRLVLSLGT
251 GKSEYKEKYN ADMTSKWRLY NWALYNGNSP AVDIFSNASS DMVDSHLSAL
301 FKSLDCEDYY LRIQDDTLTG EESSGHIAE ENLQRLVEIG TELLEKQESR
351 INLDTGRLES IPGAPTNEAA IAKFAKLLSE ERKLRQLK
```

Spot No.: 37

NCBI accession No.: [gi|41581137](#) Species: *Hevea brasiliensis*

Protein name: **putative latex allergen hev b 7.02**

PMF score: **152**

Sequence coverage %: **44**

Matched peptides No.: **16**

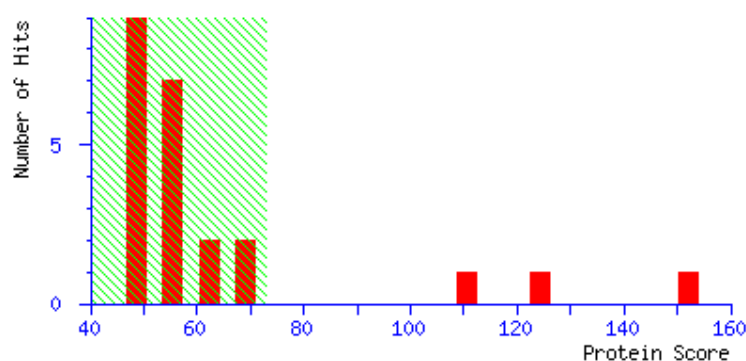
Total peptides No.: **39**

Calculated Mr: **43027**

Calculated pI: **5.12**

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 73 are significant ($p < 0.05$).



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

```
1  ATGSTTLTQG  KKITVLSIDG  GGIRGIIPGI  ILASLESKLQ  DLDGPDARIA
51  DYFDIIAGTS  TGGLITTMLT  APNEDKKPMY  QAKDIKDFYL  ENCPKIFPKE
101 SRDNYDPIHS  IGPIYDGEYL  RELCNLLKD  LTVKDTLTDV  IIPTFDIKLL
151 LPVIFSSDDA  KCNALKNARL  ADVCISTSAA  PVLLPAHSFT  TEDDKNIHTF
201 ELIDGGVAAT  NPTLLALTHI  RNEIIRQNPR  FIGANLTESK  SRLVLSLGTG
251 KSEYKEKYNA  DMTSKWRLYN  WALYNGNSPA  VDIFSNASSD  MVDFHLSALF
301 KSLDCEDYYL  RIQDDTLTGE  ESSGHIATEE  NLQRLVEIGT  RLEKQESRI
351 NLDTGRLESI  PGASTNEAAI  TKFAKLLSEE  RKLRQLK
```

Spot No.: 38

NCBI accession No.: [gi|41581137](#) Species: *Hevea brasiliensis*

Protein name: **putative latex allergen hev b 7.02**

PMF score: 142

Sequence coverage %: 42

Matched peptides No.: 15

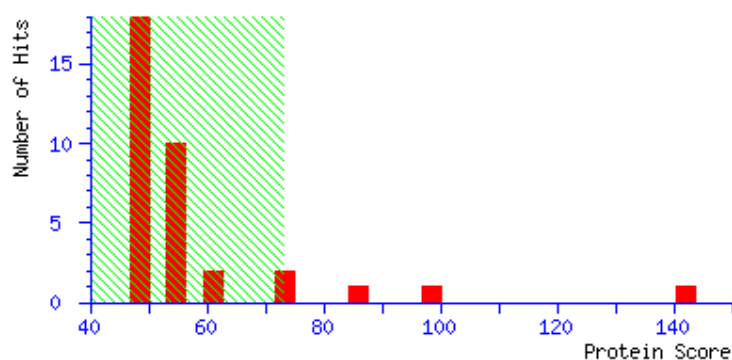
Total peptides No.: 51

Calculated Mr: 43027

Calculated pI: 5.12

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 73 are significant ($p < 0.05$).



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

```
1  ATGSTTLTQG  KKITVLSIDG  GGIRGIIPGI  ILASLESKLQ  DLDGPDARIA
51  DYFDIIAGTS  TGGLITTMLT  APNEDKKPMY  QAKDIKDFYL  ENCPKIFPKE
101 SRDNYDPIHS  IGPIYDGEYL  RELCNNLLKD  LTVKDTLTDV  IIPTFDIKLL
151 LPVIFSSDDA  KCNALKNARL  ADVCISTSAA  FVLLPAHSFT  TEDDKNIHTF
201 ELIDGGVAAT  NPTLLALTHI  RNEIIRQNPR  FIGANLTESK  SRLVLSLGTG
251 KSEYKEKYNA  DMTSKWRLYN  WALYNGNSPA  VDIFSNASSD  MVDFHLSALF
301 KSLDCEDYYL  RIQDDTLTGE  ESSGHIATEE  NLQRLVEIGT  RLLEKQESRI
351 NLDTGRLESI  PGASTNEAAI  TKFAKLLSEE  RKLRQLK
```

Spot No.: 39

NCBI accession No.: [gi|255556934](#) Species: *Ricinus communis*

Protein name: **Transitional endoplasmic reticulum ATPase, putative**

PMF score: **136**

Sequence coverage %: **31**

Matched peptides No.: **25**

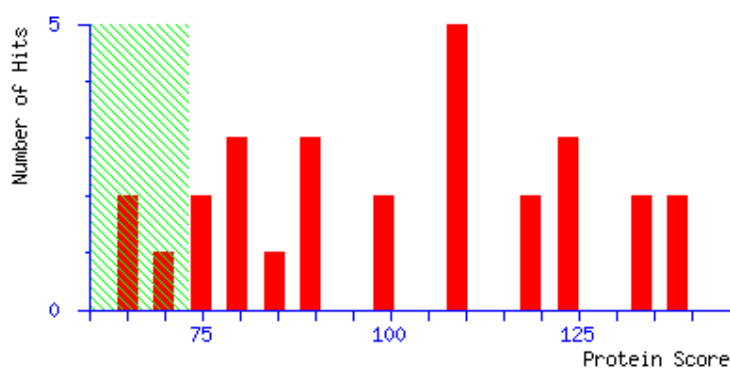
Total peptides No.: **59**

Calculated Mr: **90355**

Calculated pI: **5.13**

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 73 are significant ($p < 0.05$).



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

1 MSNQAESSDS KGTKRDFSTA ILERKKSPNR LVVDEAINDD NSVVS LHPET
51 MEKLQLFRGD TILIKGKKRK DTICIALADD SCDEPKIRMN KVVRSNLRVR
101 LGDVVSVHQ C PDVKYGKRVH ILPIDDTIEG VTGNLFDAYL KPYFLEAYRP
151 VRKGD LFLVR GGMRSVEFKV IETDPAEYCV VAPDTEIFCE GEPVRE DEN
201 RLDEVG YDDV GGVRKQMAQI RELVELPLRH PQLFKSIGVK PPKGILLYGP
251 PGSGKTLIAR AVANETGAFF FCINGPEIMS KLAGES ESNL RKA FEEAEKN
301 APSIIFIDEI DSIAPKREKT HGEVERRIVS QLLT LMDGLK SRAHVIVIGA
351 TNRPN SIDPA LRRFGRFDRE IDIGVPDEVG RLEVLRIHTK NMKLAEDVDL
401 ERISKDTHGY VGADLAALCT EAALQCIREK MDVIDLEDET IDAEILNSMA
451 VSNEHFQTAL GTSNPSALRE TVVEVPNVSW EDIGLENVK RELQETVQYP
501 VEHPEKFEKF GMSPSKGVLF YGPPGCGKTL LAKAIANECQ ANFISVKGPE
551 LLTMWFG ESE ANVREIFDKA RQSAPCVLFF DELDSIATQR GSSVGDAGGA
601 ADRV LNQLLT EMDGMSAKKT VFIIGATNRP DIIDPALLRP GR LDQLIYIP
651 LPDEDSRHQI FKACLRKSPV SKDVDLRALA KYTQGFSGAD ITEICQRACK
701 YAIRENIEKD IERERRRRDN PEAMEEDVED DVAEIKAAHF EESMKYARRS
751 VSDADIRKYQ AFAQILQQSR GFGSEFRFSE ATGAAAGADP FAASAGGEAD
801 DDDLYS

Spot No.: 40

NCBI accession No.: [gi|149938964](#)

Species: *Actinidia deliciosa*

Protein name: **ACT1**

PMF score: **125**

Sequence coverage %: **57**

Matched peptides No.: **19**

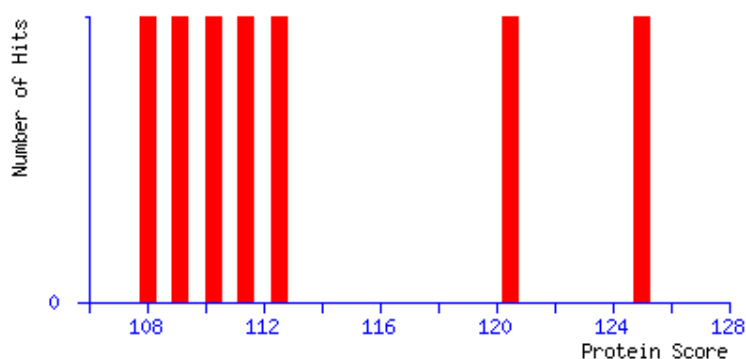
Total peptides No.: **56**

Calculated Mr: **41865**

Calculated pI: **5.31**

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 73 are significant ($p < 0.05$).



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

```
1  MADAEDIQPL VCDNGTGMVK AGFAGDDAPR AVFPSIVGRP RHTGVMVGMG
51  QKDAYVGD EA QSKRGILT LK YPIEHGIVSN WDDMEKIWHH TFYNELRVAP
101 EEHPVLLTEA PLNPKANREK MTQIMFETFN VPAMYVAIQ A VLSLYASGRT
151 TGIVLDSDG D VSHTVPIYEG YALPHAILRL DLAGRDLTDA LMKILTERGY
201 MFTTTAEREI VRDVKEKLAY VALDYEQELE TAKSSSSVEK NYELPDGQVI
251 TIGAERFRCP EVLFQPSLIG MEAAGIHETT YNSIMKCDVD IRKDLYGNIV
301 LSGGSTMFPG IADRMSKEIT ALAPSSMKIK VVAPPERKYS VWIGGSILAS
351 LSTFQQMWIS KGEYDESGPS IVHRKCF
```

Spot No.: 41

NCBI accession No.: [gi|159489771](#)

Species: *Chlamydomonas reinhardtii*

Protein name: **predicted protein**

PMF score: **83**

Sequence coverage %: **37**

Matched peptides No.: **13**

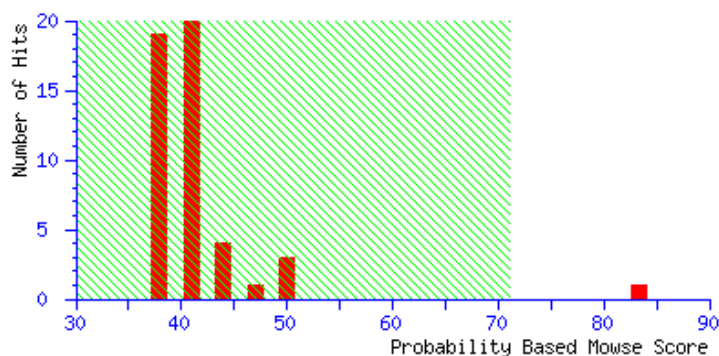
Total peptides No.: **42**

Calculated Mr: **41375**

Calculated *pI*: **9.34**

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 73 are significant ($p < 0.05$).



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

```
1  SGAAFIKWGQ  WAATRVDLFP  DDFCDTLANL  HDRAPTHSFA  FTRKQVERSF
51  GLALERMFES  FEQQPVASGS  IAQIHRAVMR  GSDGSRLQVA  VKVVHPRVAL
101 RIRQDFALLR  PAAAALGRLR  SLRSLSLPET  VSQFSATMTA  QADLRVEAAH
151 LRRFYANFAA  VAAHVTTPRP  LPGLVRPEVM  VETWEDGRSV  SHYIRYPHPS
201 LNGRVVCLGL  DTYLKMLLQD  NFVHTDLHPG  NIMVRANRSS  RSSCRRAGVQ
251 LVLLDFGLAE  ELSPVVRHHF  ISFLQHLLRG  DGVAAAGHLL  RWTSRRQACA
301 DPAALTADMV  ALAATQCDLR  SEEGIDLDKV  MKDVLRLLARK  HGVTIDSCYA
351 ALVIAVCVIV  GFATSLDPGV  NL
```

Spot No.: 42

NCBI accession No.: [gi|14423688](#)

Species: *Hevea brasiliensis*

Protein name: **Enolase 1; AltName: Full=2-phospho-D-glycerate hydro-lyase 1; AltName: Full=2-phosphoglycerate dehydratase 1; AltName: Allergen=Hev b 9**

PMF score: **97**

Sequence coverage %: **39**

Matched peptides No.: **14**

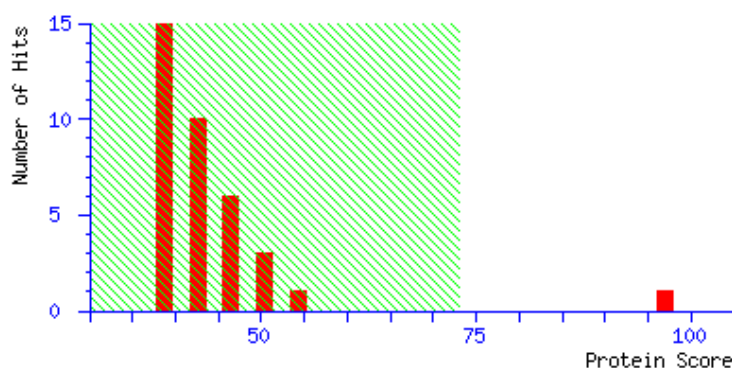
Total peptides No.: **24**

Calculated Mr: **48029**

Calculated pI: **5.57**

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 73 are significant ($p < 0.05$).



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

```
1  MAITIVSVRA  RQIFDSRGNP  TVEADVKLSD  GYLARAAVPS  GASTGIYEAL
51 ELRDGGSDYL  GKGVSKAVEN  VNIIIGPALV  GKDPTDQVGI  DNFMVQQLDG
101 TVNEWGWCKQ  KLGANAILAV  SLAVCKAGAH  VKGIPLYEHI  ANLAGNKNLV
151 LPVPAFNVIN  GGSHAGNKLA  MQEFMILPVG  ASSFKEAMKM  GAEVYHHLKS
201 VIKKKYGQDA  TNVGDEGGFA  PNIQENKEGL  ELLKTAIAKA  GYTGKVVIGM
251 DVAASEFYGS  DQTYDLNFKE  ENNNGSQKIS  GEALKDLYKS  FVAEYPIVSI
301 EDPFDQDDWA  HYAKLTSEIG  EKVQIVGDDL  LVTNPKRVEK  AIKEKACNAL
351 LLKVNQIGSV  TESIEAVRMS  KRAGWVMAS  HRSGETEDTF  IADLSVGLAT
401 GQIKTGAPCR  SERLAKYNQL  LRIEEELGSE  AVYAGANFRK  PVEPY
```

Spot No.: 44

NCBI accession No.: [gi|382929047](#) Species: *Hypselodelphys hirsuta*

Protein name: maturase K (chloroplast)

PMF score: 82

Sequence coverage %: 28

Matched peptides No.: 15

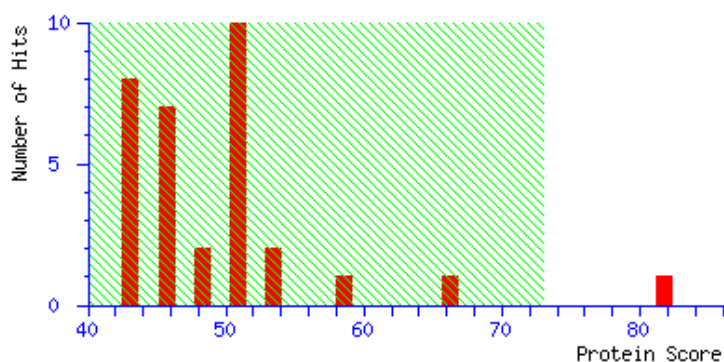
Total peptides No.: 41

Calculated Mr: 62643

Calculated pI: 9.61

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 73 are significant ($p < 0.05$).



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

```
1  MEELQRYLEK DRSRQQHFLY PLLFQEYIYV FAYDHGLTSS IFYESVKLKS
51  LGYDNKSSSI LVKRLIIRMY QQNFLIYSVI YSVNDSYQNR FVRHNNYFYS
101 HFFSQMISEG FAVIVEIPFS LQLVSSLEEK EIPKSHNLQS IHSVFPFLED
151 KLLHLNLYSD ILIPHFIHIE ILVQILKSWI QDVPSLHLLR FFLHEDYNWN
201 NLITPKKSIY VFSKENKRIF WVLVNSYLSE CEFVFIFLRK QSSYLRLTSS
251 GVFLERTYFY GKIEHLLVCR IFFQKTLWVF KDPFMHYVRY QGKAILGSRG
301 THSLMKKWKY YLVNFWQYHF HFWSQSCRIH INQLSKYSFY FLGYLSSVLI
351 NSLAVRNQML ENSFLMETLT RKFDTIIPRI PLIRSLFKAK FCTVSGHPIS
401 KPIWTDLSDC DIINRFGRVC RNLSHYHSGS SKKQSLYRMK YILRLSCART
451 LARKHKSTVR SFLQRLSSGL LEEFFTEEQ VLSLIFPKIT FFSLYRSSRE
501 RIWYLDIIRI NDLVNNL
```

Spot No.: 45

NCBI accession No.: [gi|4469175](#) Species: *Hevea brasiliensis*

Protein name: beta-1,3-glucanase

PMF score: 156

Sequence coverage %: 55

Matched peptides No.: 19

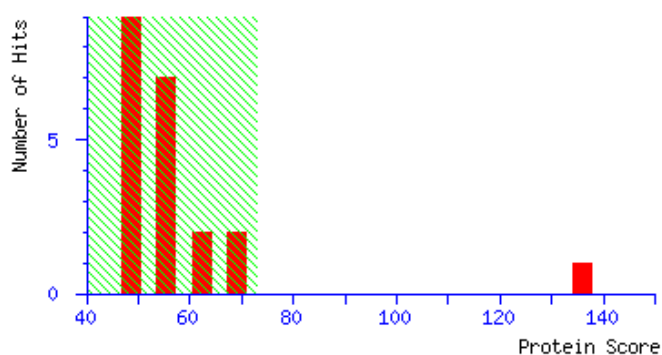
Total peptides No.: 37

Calculated Mr: 38930

Calculated pI: 9.45

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT  SSSLPSRTTV  MLLFFFAAS  VGITDAQVGV  CYGMQGNLNP
51  PVSEVIALYK  KSNITRMRIY  DPNRAVLEAL  RGSNIELILG  VPNSDLQSLT
101 NPSNAKSWVQ  KNVRGFWSSV  LFRYIavgNE  ISPVNRGTAW  LAQFVLPAMR
151 NIHDAIRSAG  LQDQIKVSTA  IDLTLVGNSY  PPSAGAFRDD  VRSYLNPIIR
201 FLSSIRSPLL  ANIYPYFTYA  GNPRDISLPY  ALFTSPSVVV  WDGQRGYKNL
251 FdatLDVLYS  ALERASGGSL  EVVVESEGWP  SAGAFaatFD  NGRtyLSNLI
301 QHVkRGTPKR  PNRAIETyLF  AMFDENkkQP  EVEKqFGLFF  PDKWqKYnLN
351 FG
```

Spot No.: 46

NCBI accession No.: [gi|4469175](#) Species: *Hevea brasiliensis*

Protein name: beta-1,3-glucanase

PMF score: 126

Sequence coverage %: 55

Matched peptides No.: 19

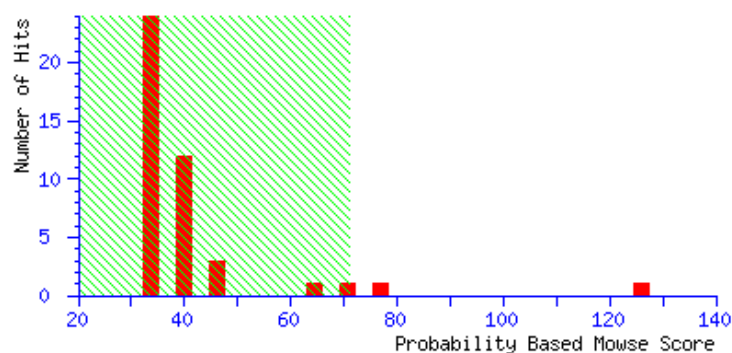
Total peptides No.: 37

Calculated Mr: 38930

Calculated pI: 9.45

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT  SSSLPSRTTV  MLLFFFAAS  VGITDAQVGV  CYGMQGNLNP
51  PVSEVIALYK  KSNITRMRIY  DPNRAVLEAL  RGSNIELILG  VPNSDLQSLT
101 NPSNAKSWVQ  KNVRGFWSSV  LFRYIAVGNE  ISPVNRGTAW  LAQFVLPAMR
151 NIHDAIRSAG  LQDQIKVSTA  IDLTLVGNSY  PPSAGAFRDD  VRSYLNPIIR
201 FLSSIRSPLL  ANIYPYFTYA  GNPRDISLPY  ALFTSPSVVV  WDGQRGYKNL
251 FDATELDVLYS  ALERASGGSL  EVVVSESGWP  SAGAFATFD  NGRTYLSNLI
301 QHVKRGTPKR  PNRAIETYLE  AMFDENKKQP  EVEKQFGLFF  PDKWQKYNLN
351  FG
```

Spot No.: 47

NCBI accession No.: [gi|225438145](#)

Species: *Vitis vinifera*

PFF score: [65]

Protein name: PREDICTED: malate dehydrogenase, cytoplasmic

Matched peptides No.: [1]

Sequence coverage %: [3]

Matched sequences: [K.IVQGLHIDEFSR.K](#)

Calculated Mr: 35881

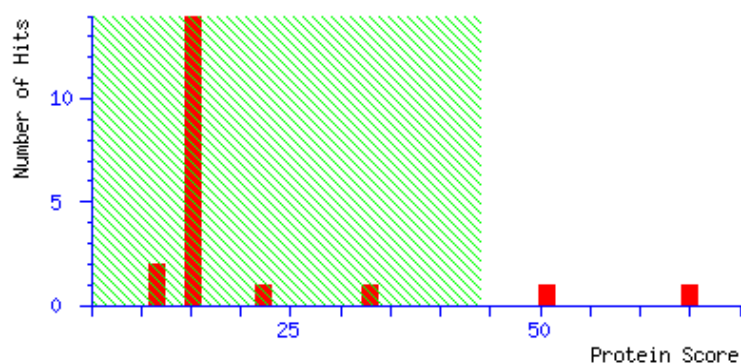
Calculated pI: 6.18

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAKEPVRVLV TGAAGQIGYA LVPMIARGVM LGADQPVILH MLDIPPAAEA
51 LNGVKMELVD AAFPLLKGVV ATTDVVEACT GVNIAVMVGG FPRKEGMERK
101 DVMSKNVSIY KSQASALENH AAANCKVLVV ANPANTNALI LKEFAPSIPE
151 KNISCLTRLD HNRALGQVSE RLNVQVSDVK NVIIWGNHSS TQYPDVNHAT
201 VKTPAGEKPV RGLVGDDAWL NGEFITTQQQ RGAAIKARK LSSALSAASA
251 ACDHIRDWVL GTPEGTWVSM GVYSDGSYNV PAGLIYSFPV TCCAGEWKIV
301 QGLHIDEFSR KKLDLTAQEL SEEKELAYSC LS
```


Spot No.: 48

NCBI accession No.: [gi|225438145](#) Species: *Vitis vinifera*

PFF score: [85]

Protein name: PREDICTED: malate dehydrogenase, cytoplasmic

Matched peptides No.: [1] Sequence coverage %: [3]

Matched sequences: [K.IVQGLHIDEFSR.K](#)

Calculated Mr: 35881

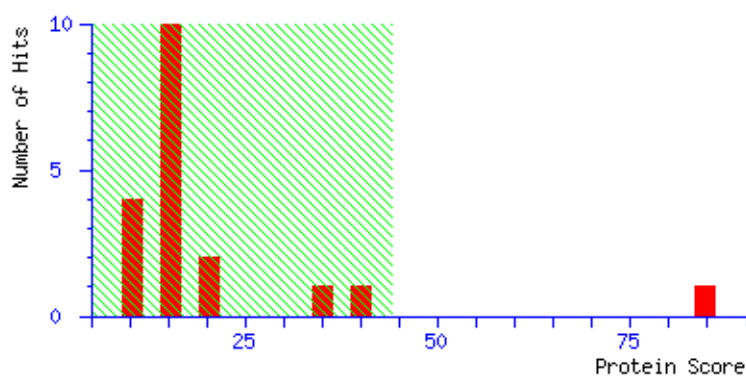
Calculated pI: 6.18

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAKEPVRVLV TGAAGQIGYA LVPMIARGVM LGADQPVILH MLDIPPAAEA
51 LNGVKMELVD AAFPLLKGVV ATTDVVEACT GVNIAMVGG FPRKEGMERK
101 DVMSKNVSIY KSQASALENH AAANCKVLVV ANPANTNALI LKEFAPSIPE
151 KNISCLTRLD HNRALGQVSE RLNVQVSDVK NVIIWGNHSS TQYPDVNHAT
201 VKTPAGEKPV RGLVGDDAWL NGEFITTQQ RGAAIKARK LSSALSAASA
251 ACDHIRDWVL GTPEGTWVSM GVYSDGSYNV PAGLIYSFPV TCCAGEWKIV
301 QGLHIDEFSR KKLDLTAQEL SEEKELAYSC LS
```


Spot No.: 49

NCBI accession No.: [gi|255552291](#) Species: *Ricinus communis*

PFF score: [75]

Protein name: short chain dehydrogenase, putative

Matched peptides No.: [1] Sequence coverage %: [5]

Matched sequences: [K.DPIAIPTDVGFEEENCR.K](#)

Calculated Mr: 32148

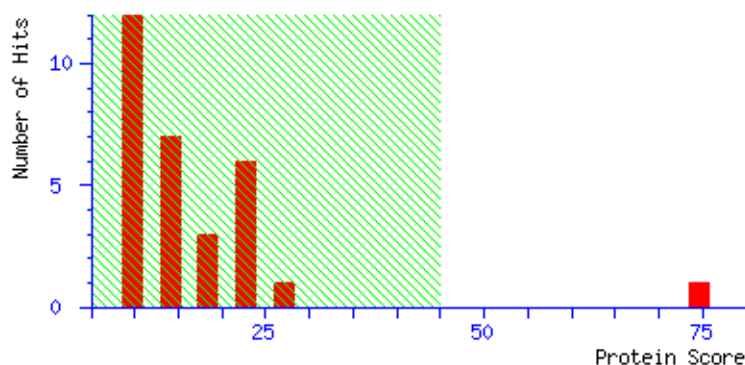
Calculated pI: 6.50

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATRRGYRFP  PQSQDKQPGK  EYLMHPLPEF  INPHYKPSNK  LQDKVALVTG
51  GDSGIGRAVS  YYFTLEGATV  AFTYVKGRED  KDKDHILKIL  HEVKAEGAKD
101 PIAIPDVGF EENCRKVIDQ  IMSEYGKIDI  LVNNAGEAHY  STTIEDITDP
151  MLERVFRTNI  FGHFFMSRHA  LKHMKEGGCI  INTASVAAYA  GFSFMVDYSS
201  TKGAVVAFTR  SLALQLIDRG  IRVNAVAPGS  VWTIPFQPSTL  SAEQVAQVGS
251  GVPMDRAAQP  YEIAPSFVFL  ASNDCSSYFT  GQVLHPNGMF
```

Spot No.: 50

NCBI accession No.: gi|29170601 Species: *Hevea brasiliensis*

PFF score: [240]

Protein name: small rubber particle protein

Matched peptides No.: [2] Sequence coverage %: [28]

Matched sequences: K.ENENFQQEANEQEEK.L;

K.DNSGPLKPGVETIEGVAK.T

Calculated Mr: 12769

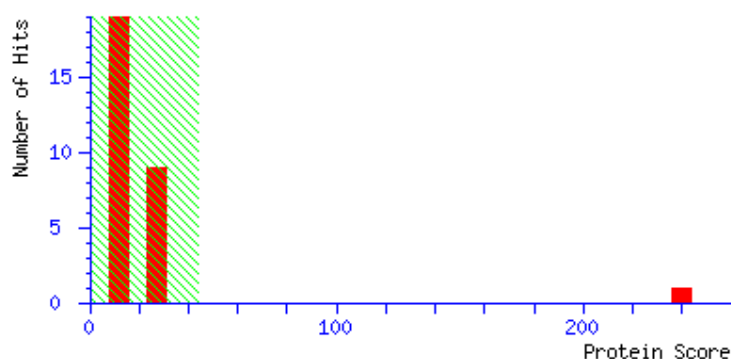
Calculated pI: 4.61

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEG**KENENF** **QQEANEQEEK** LKYLEFVQAT TDNAVITALSN IYLYAK**DNSG**
51 **PLKPGVETIE** **GVAKTVVIPA** SKIPTEAIKF ADRAVDASFT TLQNI~~VPSVL~~
101 KQLPTQACDT SVKESAE

Spot No.: 51

NCBI accession No.: [gi|132270](#) Species: *Hevea brasiliensis*

Protein name: **Rubber elongation factor protein**

PMF score: **103**

Sequence coverage %: **78**

Matched peptides No.: **10**

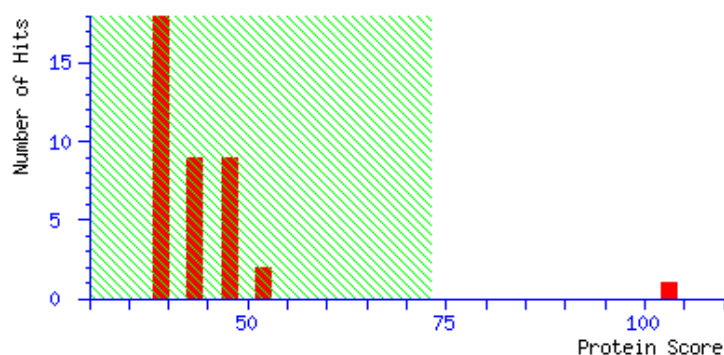
Total peptides No.: **43**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

1 MAEDEDNQQG QGEGCLKYLGF **VQDAATYAVT TFSNVYLFAK DKSGPLQPGV**
51 **DIIEGPVKNV AVPLYNRFSY IPNGALKEVD STVVASVTII DRSLPPIVKD**
101 **ASIQVVS AIR APEAARSLA SSLPGQTKIL AKV FYGEN**

Spot No.: 52

NCBI accession No.: [gi|132270](#) Species: *Hevea brasiliensis*

Protein name: **Rubber elongation factor protein**

PMF score: **115**

Sequence coverage %: **78**

Matched peptides No.: **10**

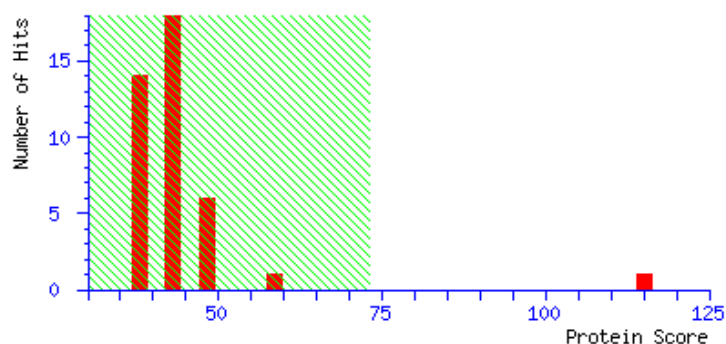
Total peptides No.: **33**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

1 MAEDEDNQQG QGEG**LKYLGF** VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGAL**KFVD** STVVASVTII DRSLPPIVKD
101 ASI**QVVS**AIR AAPEAARSLA SSLPG**QTKIL** AKV**FYGEN**

Spot No.: 53

NCBI accession No.: [gi|115187464](#)

Species: *Arachis hypogaea*

PFF score: [61]

Protein name: **thioredoxin fold**

Matched peptides No.: [1]

Sequence coverage %: [4]

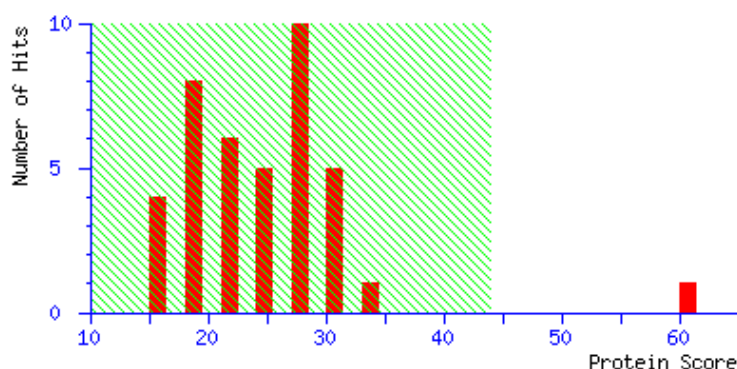
Matched sequences: [K.HVPGFIER.A](#)

Calculated Mr: 17525

Calculated pI: 5.57

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAPIAVGDVI PDGTLAFLDN DNKPQSVSIH SLAKGKKVII FGVPGAFTPT
51  CSLKHVPGFI ERAEELKGGK VDEIICISVN DPFVMKSWAN TFPENKHVTF
101 LADGSAKYTH DLGLELDLSE KGLGIRSKRF ALLVEDLKVK VANIESGGEF
151 TVSSAEEIIK AL
```

Spot No.: 54

NCBI accession No.: [gi|34538473](#) Species: *Hordeum vulgare*

Protein name: **caleosin 1**

PMF score: **84**

Sequence coverage %: **19**

Matched peptides No.: **10**

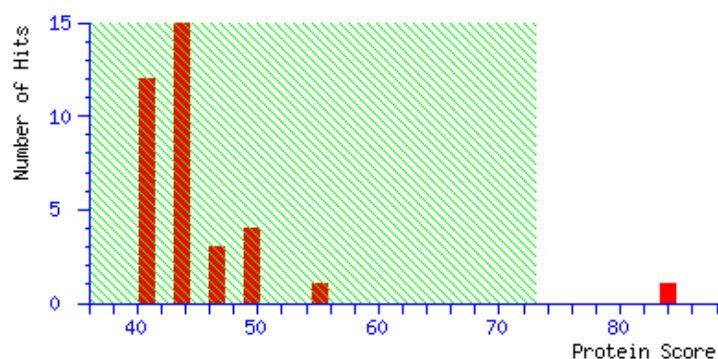
Total peptides No.: **37**

Calculated Mr: **34330**

Calculated pI: **6.11**

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 73 are significant ($p < 0.05$).



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

```
1  MATKARKVEV  RASRAEGKG  DAADVHVLRE  AMRADGKGDH  DTAGGANRAD
51  GHGDAGGRVG  DSRGVDGKDS  LKMVALQAPV  TVERPVRGDL  EEHVPKPYLA
101 RALAAPDMYH  PEGTTTDDHQ  HHNMSVLQQH  VAFFDRDNGG  IIYPWETYDG
151 CRAVGFNVM  SAFIAFLVNL  VMSYPTLPGW  LPNPLFPIYV  HNIHKSKHGS
201 DSGTYDKEGR  FMPVNFENIF  SKYARTYPDR  LSYREEMWRMT  EGCREVDFDF
251 GWVAMKLEWS  ILYALARDE  GYLSREAIRR  MYDGSLFEYM  ERQRMEHVKM
301 S
```

Spot No.: 55

NCBI accession No.: [gi|225440278](#) Species: *Vitis vinifera*

Protein name: **PREDICTED: hypothetical protein**

PMF score: **88**

Sequence coverage %: **41**

Matched peptides No.: **7**

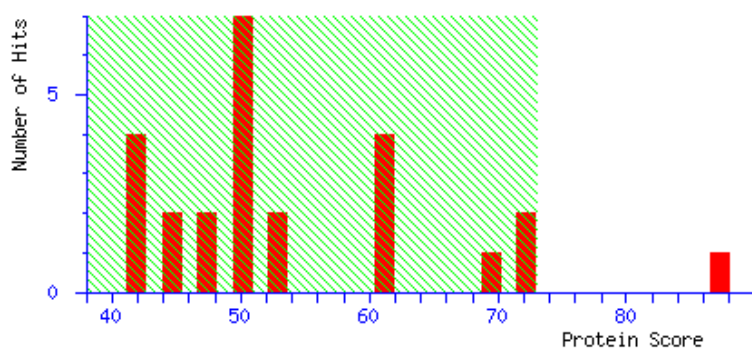
Total peptides No.: **14**

Calculated Mr: **19226**

Calculated pI: **9.57**

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 73 are significant ($p < 0.05$).



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

1 **MDHYEALGIG** **RNASKGEIKE** **AFRKLALKYH** **PDKHAQSPKA** VRDGATLRFK
51 QVSEAYEVLS DDRKRSLYNL RSSTAPPGFS GGYAHSYHYN NERPRY**SSRP**
101 **NADAFVSKFE** **VVLRFLTTRA** **FLLNVAFAGA** **LLGGMAIDR** SGETLWKMNN
151 SGKSFDEAME SIGKAKAHKD DM

Spot No.: **56**

NCBI accession No.: **gi|2213877** Species: *Hevea brasiliensis*

Protein name: **glutamine synthetase**

PMF score: **83**

Sequence coverage %: **38**

Matched peptides No.: **14**

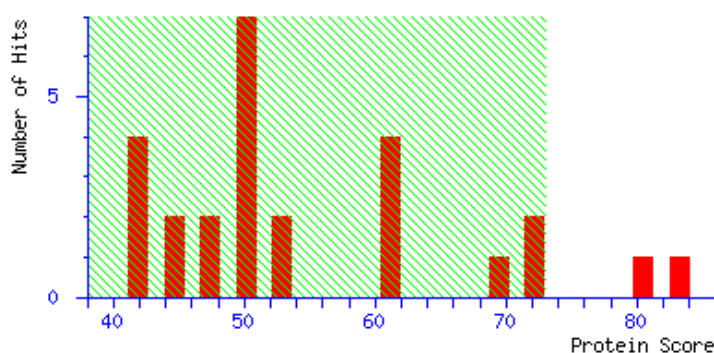
Total peptides No.: **76**

Calculated Mr: **39504**

Calculated pI: **5.81**

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 73 are significant ($p < 0.05$).



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

```
1  MSLLSDLINL  NLSDTTDKII  AEYIWIGGSG  MDMRSKARTL  SGPVSDPSKL
51  PKWNYDGSST  GQAPGEDSEV  ILYPQAIFKD  PFRRGNNILV  MCDAYTPAGE
101 PIPTNKRHAA  AKIFSHPDVV  AEEPWYGIEQ  EYTLQQRDVK  WPIGWPLGGY
151 PGPQGPYYCS  IGADKSFGRD  VVDSHYKSCV  YAGINISGIN  GEVMPGQWEF
201  QVGPAVGISA  GDELWVARYI  LERITEIAGV  VLSFDPKPIQ  GDWNGAGAHT
251 NYSTKSMRHD  GGYEVIKKAI  EKLGLRHKEH  IAAYGEGNER  RLTGRHETAD
301 INTFLWGVAN  RGASIRVGRD  TEKQGKGYFE  DRRPASNMDP  YVVTSMIAET
351  TILWKP
```


Spot No.: **57**

NCBI accession No.: **gi|172050753** Species: *Capparis spinosa*

Protein name: **70 kDa heat shock protein**

PMF score: **102**

Sequence coverage %: **36**

Matched peptides No.: **19**

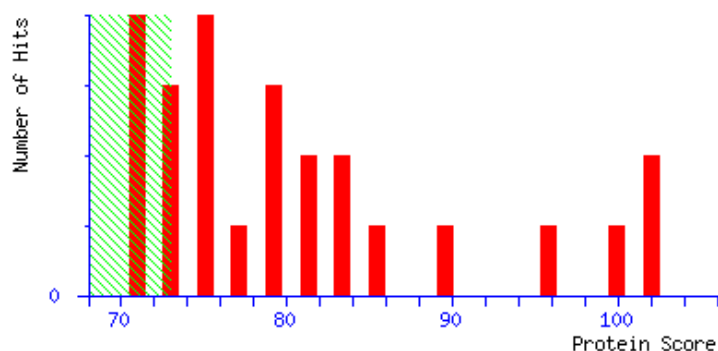
Total peptides No.: **58**

Calculated Mr: **71456**

Calculated pI: **5.21**

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 73 are significant ($p < 0.05$).



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

```
1  MAGKGEPAI  GIDLGTTYSC  VGVWQHDRVE  I IANDQGNRT  TPSYVAFTDT
51 ERLIGDAAKN  QVAMNPINTV  FDAKRLIGRR  YSDSSVQADM  KLWPFKVVPG
101 SGDKPMIVVN  YKGEEKQFAA  EEISSMVLIK  MREIAEAFLG  CTIKNGVVTV
151 PAYFNDSQRQ  ATKDAGVIAG  LNMRIINEP  TAAAIAYGLD  KKAASVGEKN
201 VLIFDLGGGT  FDVSLLTIEE  GIFEVKATAG  DTHLGGEDFD  NRMVNHFVQE
251 FKRKNKRDIS  GNPRALRRLR  TACERAKRTL  SSTAQTTEI  DSLYEGIDFY
301 TTITRARFEE  LNMDLFRKCM  EPVEKCLRDA  KMDKSNVHDI  VLVGGSTRIP
351 KVQQLLQDFF  NGKELCKSIN  PDEAVAYGAA  VQAAILSGEG  NEKVQDLLLL
401 DVTPLSLGLE  TAGGVMTVLI  PRNTTIPTKK  EQIFSTYSDN  QPGVLIQVYE
451 GERARTKDNN  LLGKFELTGI  PPAPRGVPQI  NVCFDIDANG  ILNVAEDKT
501 TGQKNKITIT  NDKGRLSKEE  IEKMQEAEK  YKSEDEEHK  KVEAKNALEN
551 YAYNMRNTIK  DEKIGSKLDP  ADKKKIEDAI  DQAIQWLDGN  QLAEAEDEFKD
601 KMKELESICN  PIIARMYQGA  GGDMGGAGGA  DDASPAGGSG  AGPKIEEVD
```

Spot No.: **58**

NCBI accession No.: **gi|762844** Species: *Solanum lycopersicum*

PFF score: **[151]** Protein name: **Hsc70**

Matched peptides No.: **[3]** Sequence coverage %: **[10]**

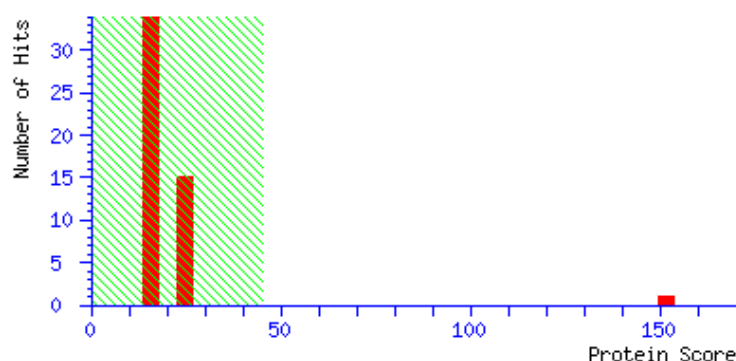
Matched sequences: **K.ATAGDTHLGGEDFDNR.M;**
R.TLSSTAQTTIEIDSLYEGIDFYTTITR.A;
K.EQVFSTYSDNQPGVLIQVYEGER.A

Calculated Mr: **71869**

Calculated pl: **5.18**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAGKGEGPAI  GIDLGTTYSC  VGVWQHDRV  IIANDQGNRT  TPSYVAFTDT
51  ERLIGDAAKN  QVAMNPTNTV  FDAKRLIGR  FSDPSVQSDM  KLWPFKVIPG
101 PADKPMIVVN  YKGEKQFSA  EEISSMVLK  MKEIAEAFGL  TTIKNAVVTV
151 PAYFNDSQRQ  ATKDAGTISG  LNMRIINEP  TAAAIAYGLD  KkisSTGEKT
201 VLIFDLGGGT  FDVSLLTIEE  GIFEVKATAG DTHLGGEDFD NRMVNHVQ
251 FKRKHKKDIS  GNPRALRRLR  TACERAKRTL SSTAQTTIEI DSLYEGIDFY
301 TTITRARFEE  LNMDLFRKCM  EPVEKCLRDA  KIDKSGVHDI  VLVGGSTRIP
351 KVQQLLQDF  NGRELCKSIN  PDEAVAYGAA  VQAAILSSEG  NEKVQDLLLL
401 DVTPLSLGLE  TAGGVMTTLI  PRNTTIPTKK EQVFSTYSDN QPGVLIQVYE
451 GERARTRDNN  LLGKFELTGI  PPAPRGVPQI  TVCFDIDANG  ILNVS AEDKT
501 TGQKNKITIT  NDKGRLSKDE  IEKMQEAEK  YKAEDEEHK  KVEAKNALEN
551 YAYNMRNTIK  DDKIASKLSP  DEKKKIEDSV  EQAIQWLDGN  QLAEAEFED
601 KMKELESICN  PIIAKMYQGR  AGPDMAGGMD  EDGPSAGASS  AGAGPKIEEV
651  D
```

Spot No.: **59**

NCBI accession No.: **gi|356552478** Species: *Glycine max*

Protein name: **PREDICTED: heat shock cognate protein 80-like**

Mascot score: **107**

Sequence coverage %: **25**

Matched peptides No.: **21**

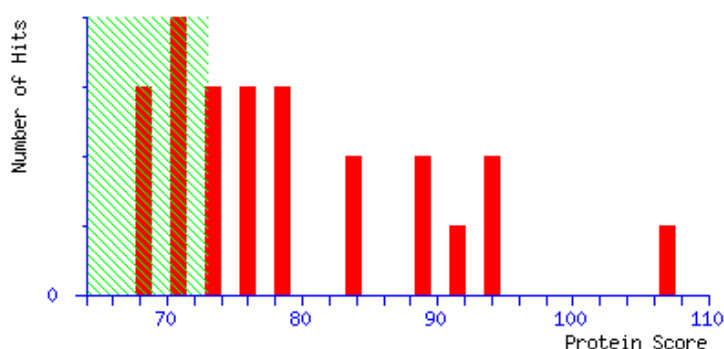
Total peptides No.: **54**

Calculated Mr: **80422**

Calculated pI: **4.98**

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 73 are significant ($p < 0.05$).



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

```
1 MASETETFAF QAEINQLLSL IINTFYSNKE IFLRELISNA SDALDKIRFE
51 SLTDKSKLDA QPELFIHIIP DKTNNTLSII DSGIGMTKAD LVNNLGTIAR
101 SGTKEFMEAL AAGADVSMIG QFGVGFYSAY LVADKVIVIT KHNDDEQYVW
151 ESHAGGSFTV TRDTSGENLG RGTKITLFLK EDQLEYLEER RLKDLIKHS
201 EFISYPISLW IEKTEKEIS DDEDEEEKD EEGKVEDVDE DKEKEEKKK
251 TIKEVSHEWS LVNKQKPIWM RKPEEITKEE YAAFYKSLTN DWEEHLAVKH
301 FSVEGQLEFK AVLFIPKRAP FDLFDTRKKP NNIKLYVRRV FIMDNCEELM
351 PEYLSFVKGI VSEDLPLNI SREMLQONKI LKVIRKNLVK KCIEMFFEIA
401 ENKEDYNKFY EAFSKNLKLG IHEDSQNKTK LAELLRYHST KSGDEMTSLK
451 DYVTRMKEGQ NDIYYITGES KKAVENSPFL EKLKKKGYEV LYMVDAID EY
501 AVGQLKEFEG KKLVSATKEG LKLDESEDEK KKKEELKDKF EGLCHVIKDV
551 LGDKVEKVVV SDRVVDSPCC LVTGEYGWTA NMERIMKAQA LRDSSMAGYM
601 SSKKTMEINP ENPIMEELRK RADADKNDKS VKDLVLLLFE TALLTSGFSL
651 DDPNTFGNRI HRMLKLGLSI DEDAGEADAD MPPLEDADAD AEGSKMEEVD
```

Spot No.: **60**

NCBI accession No.: **gi|356510919** Species: *Glycine max*

PFF score: **[51]**

Protein name: **PREDICTED: UDP-glycosyltransferase 75D1-like**

Matched peptides No.: **[1]** Sequence coverage %: **[2]**

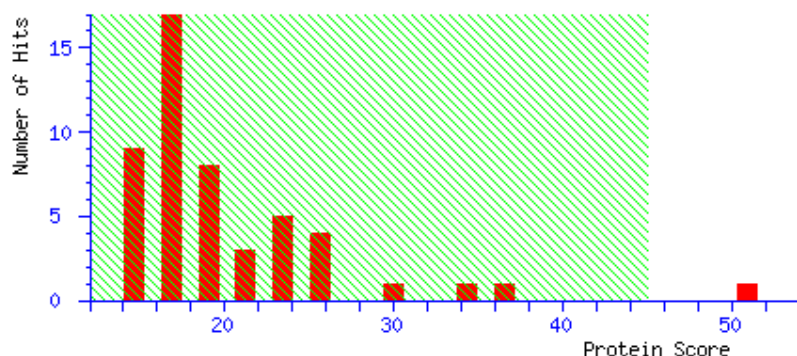
Matched sequences: **K.CVEEVMGSGELR.R**

Calculated Mr: **52131**

Calculated pl: **5.07**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLHHRFLLVI YPGQGQINPA LQFAKRLTAM GARVTIPITL DMHRRMTNTT
51 AVPGLSLAPF SDGYDDGFHA IRGTDSDYNL YASELKRRAS VFVSNLILSS
101 ANEGHPFTCL LYTLVLPWAP QVARGNLNPT AMLWIQPATV LDILYHYFHG
151 YADYINDETK ENIVLPGLSF SLSPRDIPSF LLTSKPSLLS FVFPLFEEQI
201 KQLDLEANPK VLVNTFEALE EEALRAVDKL NMIPIGPLIP TAFLGGKDPE
251 DTSFGDLLQ VSNQYVEWLD SKEDKSVVYV SFGSYFELSK RQTEEIARAL
301 LGCSFPFLWV IRVKEEKEE EEELCFREEL EGKGKLVKWC SQVEVLSHGS
351 VGCFVTHCGW NSTMESLVSG VPMVAFPQWS DQKTNAKLIE DVWKIGVRVE
401 NDGDGIVEKE EIRKCVEEVM GSGELRRNAE KWKGLAREAA KEGGPSENL
451 KAFLDAMAAL QF
```

Spot No.: **61**

NCBI accession No.: **gi|255560725** Species: *Ricinus communis*

Protein name: **dead box ATP-dependent RNA helicase, putative**

Mascot score: **144**

Sequence coverage %: **68**

Matched peptides No.: **25**

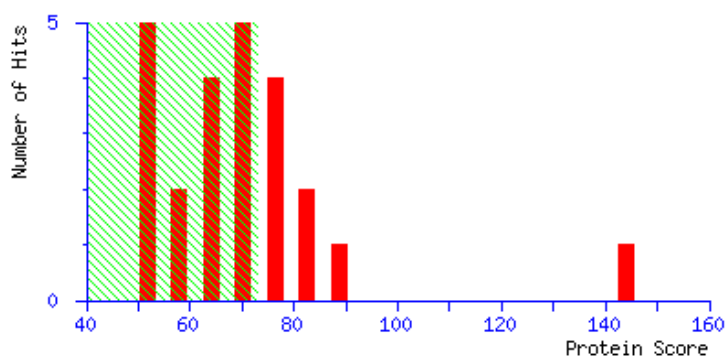
Total peptides No.: **91**

Calculated Mr: **47097**

Calculated pI: **5.49**

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 73 are significant ($p < 0.05$).



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

```
1  MAGLAPEGSQ FDAKQYDARM SELLSTEGQE FFTTYDEVYD SFDAMGLQEN
51 LLRGIYAYGF EKPSAIQQRG IVPFCKGLDV IQQAQSGTGK TATFCSGILQ
101 QLDYGLVQCQ ALVLAPTREL AQQIEKVMRA LGDYLGVKVH ACVGGTSVRE
151 DQRILQAGVH VVVGTPGRVF DMLRRQSLRP DYIKMFVLDE ADEMLSRGFK
201 DQIYDIFQLL PAKVQGVVFS ATMPPEALEI TRKFMNKPVR ILVCRDELTL
251 EGIKQFYVNV EKEEWKLETL CDLYETLAIT QSVIFVNTRR KVDWLTDKMR
301 SRDHTVSATH GDMDQNTRDI IMREFRSGSS RVLITTDLLA RGIDVQQVSL
351 VINYDLPTQP ENYLHRIGRG GRFGRKGVAI NFVTRDDERM LFDIQKFYNV
401 VIEELPSNVA DLL
```

Spot No.: **62**

NCBI accession No.: **gi|4235430** Species: *Hevea brasiliensis*

PFF score: **[142]** Protein name: **latex-abundant protein**

Matched peptides No.: **[9]** Sequence coverage %: **[16]**

Matched sequences: **R.SAEPGDLLFVHYSGHGTR.L;**

R.EFVDQVPHGCR.I;

R.EFVDQVPHGCR.I;

K.QTIQDAFESR.G;

K.QTIQDAFESR.G;

R.VVEEDYGDSGYVK.S;

R.VVEEDYGDSGYVK.S;

K.LRPTLFDMFGDDASPK.V +Oxidation(M);

K.LRPTLFDMFGDDASPK.V + Oxidation (M)

Calculated Mr: **46443**

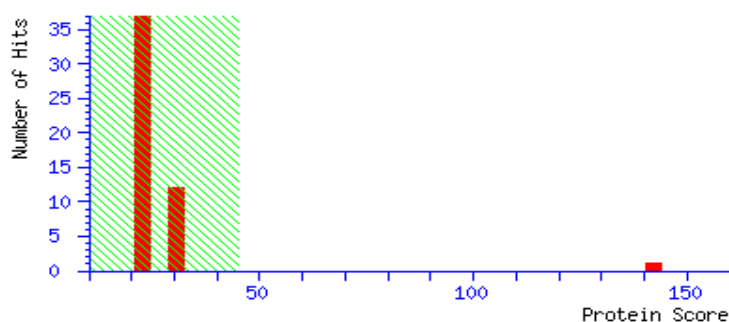
Calculated pI: **5.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAKKAVLIGI  NYPGKAELEK  GCINDVKRMY  RCLVDRYGFS  EEDITVLIDI
51  DESYIQPTGK  NIRRVLTDLV  RSAEPGDLLF  VHYSGHGTRL  PAETGEDDDT
101  GFDECIVPCD  MNLITDDDFR  EFVDQVPHGC  RITVVSDSCH  SGGLIDEAKE
151  QIGESTKRKE  EEESGFGFK  SFLKQTIQDA  FESRGVHLPS  DLHHHHGHRD
201  EEDFDNRVVE  EDYGDSGYVK  SKSLPLSTLI  EILKQKTGKD  DIDVGKLRPT
251  LFDMFGDDAS  PKVKKFMKVI  LNKLRHGDGE  SGGGGFLGMV  GSLAQEFLKH
301  KLDENDESIV  KPALETEVDS  KQEVYAGKTK  RSLPDGGILI  SGCQTDQ TSA
351  DASPSGKSSE  AYGALSNAIQ  TIIAETDGAV  TNQELVLKAR  KMLKKQGFTQ
401  KPGLYCSDDH  VEASFVC
```

Spot No.: **63**

NCBI accession No.: **gi|255578278** Species: *Ricinus communis*

PFF score: **[76]**

Protein name: **hypothetical protein RCOM_0537780**

Matched peptides No.: **[3]** Sequence coverage %: **[6]**

Matched sequences: **K.QESEYGSGGYGR.R;**
R.KPSYGEEGGYGER.T ;
R.KPSYGEEGGYGER.T

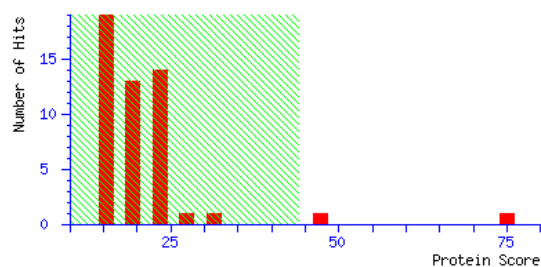
Calculated Mr: **41389**

Calculated pI: **4.65**

Probability Based Mowse Score:

Mascot Score Histogram

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRSEDD  VDNDFDFDPT  PYGGGYDLAL  TYGRPLPPSD  ETCYQNSAIA
51  DDDVDYDRPN  FTSYAEPSAY  NDDILQEEYN  SYSRPKPRPG  FIPGGGIGGD
101  PYSRPHAAPG  FQPGSGGYGG  VSEYEKPSGY  GRRPDSEYGS  GGYGGGTEYE
151  RPSGEDYGS  HGRKQDSEYG  SGGYGRRPES  EYGSGGGYER  PSSEEYGSY
201  GRKQESEYGS  GGYGRRPEAE  YGSGYGGRPE  TEYGGGGGSE  YGGGYGRKPS
251  YGEEGGYGER  TEYERPSYGD  DPPRRPGYGR  QDDEYERPSY  ERKSDDDNDG
301  SRRKYGGDDD  EKGYQKKYGG  YGDDDDDEEGS  RRYGYGGEE  ESYGRKKYGD
351  DGSDDDEK  HRKHQH  SDDE
```


Spot No.: **64**

NCBI accession No.: **gi|5302811** Species: *Arabidopsis thaliana*

PFF score: **[98]** Protein name: putative serine protease-like protein

Matched peptides No.: **[1]** Sequence coverage %: **[2]**

Matched sequences: **R.QEQAAFIEEISR.T**

Calculated Mr: **47129**

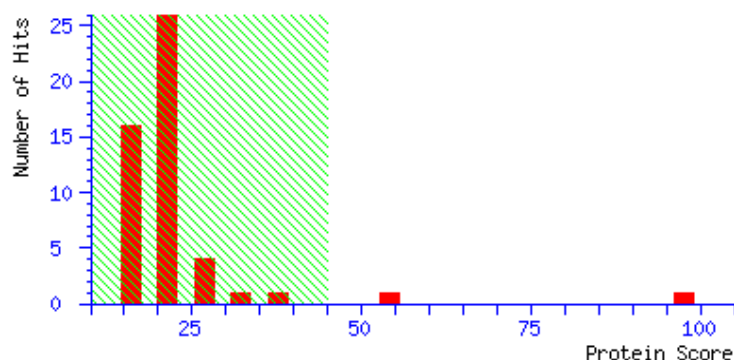
Calculated pI: **5.15**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MVVMMKATRG  TRDPDLLGLM  FVHHQFLFCV  ISFFYLLLRD  FEFLNDSSS
51  GIWTWSQVVS  ETQALPYLQK  AFNIQHDFDP  TQEDQEENTY  AAKVSEKQDF
101 SKEQWQDYKR  PASEQHYSDE  VETYGNLEPS  QLELSGLSEA  CNKLWELDLN
151 RLVPGRIIKS  TAEMGKGSMR  ELIWLKDYCS  LGFCSLLDNY  NPNEGYKEVV
201 TEEERQEQAA FIEEISRTSV  IKYLHRYLVL  KDVAPGSYLE  FKRMLTSLWF
251 DLYGRGGTSG  SSSAFEHV FV  GEIKQSGGNK  SLDSITGFST  SKPVTDRETT
301 LLLRMQPDSE  TQLLTIQFEW  NGVLKSVSST  LVGVSPEFEL  ALYTMCFPMG
351 TEDNHIQLGP  YNVNVKCYRL  GNNRIALSFP  HCRILKPLLM  ALVTKYLPLA
401 QYCIELL
```


Spot No.: **65**

NCBI accession No.: **gi|2506277** Species: *Pisum sativum*

Protein name: **RuBisCO large subunit-binding protein subunit beta**

PMF score: **102**

Sequence coverage %: **34**

Matched peptides No.: **17**

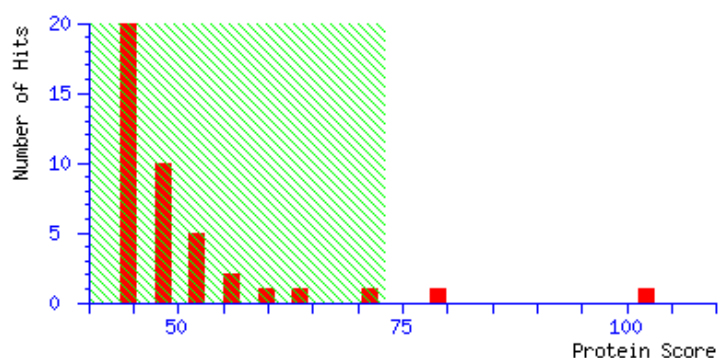
Total peptides No.: **54**

Calculated Mr: **63287**

Calculated pI: **5.85**

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 73 are significant ($p < 0.05$).



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

1	MASTFSATTS	SCNLSSSAI	SSFPLAAGKR	NANKVVLPRK	NRNVKVSAMA
51	KELHFNKDGS	AIKKLQNGVN	KLADLVGVTL	GPKGRNVVLE	SKYGSPKIVN
101	DGVTVAKE EVE	LEDPVENIGA	KLVRQAAAKT	NDLAGDGTTT	SVVLAQGLIA
151	EGVKVVAAGA	NPVLITRGIE	KTSKALVAEL	KKMSKEVEDS	ELADVAAVSA
201	GNNHEVGNMI	AEALSKVGRK	GVVTLLEEGKS	AENSLYVVEG	MQFDRGYISP
251	YFVTDSEKMT	VEFENCKLLL	VDKKITNARD	LINILED AIR	SGFP I V I I A E
301	DIEQEALATL	VVNKLRGSLK	IAALK APGFG	ERKSQYLDDI	A I L T G G T V I R
351	EEVGLTLDKA	DKEVLGNAAK	VVLT KD T T T I	VGDGSTQEAV	NKRVSQIKNQ
401	IEAAEQEYEK	EKLSERIAKL	SGGVAVIQVG	AQTETELKEK	KLRVEDALNA
451	TKAAVEEGIV	VGGGCTLLRL	ASKVDAIKDT	LANDEEKVGA	DIVKRALSYP
501	LKLIAKNAGV	NGSVVSEKVL	SSDNPKYGYN	AATG KYEDLM	AAGIIDPTKV
551	VRCCLEHASS	VAKTFLMSDC	VVVEIKEPES	APVGNPMDNS	GYGNI

Spot No.: **66**

NCBI accession No.: **gi|255543357** Species: *Ricinus communis*

Protein name: **heat shock protein, putative**

PMF score: **88**

Sequence coverage %: **29**

Matched peptides No.: **18**

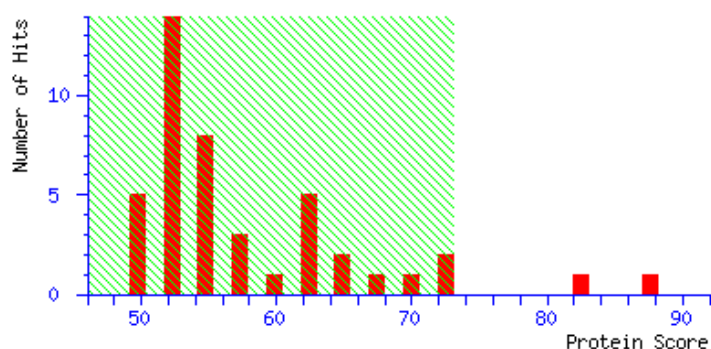
Total peptides No.: **79**

Calculated Mr: **71965**

Calculated pI: **5.27**

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 73 are significant ($p < 0.05$).



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

```
1  MAKTEGKAVG  IDLGTTYSCV  GVMQNDRVEI  IANDQGNRTT  PSYVAFTDTE
51  RLIGDAAKNQ  VAMNPQNTVF  DAKRLIGRRF  SDPSVQSDMK  HWPFKVVPGP
101  GDKPMIVVLY  KGEEKQFAPE  EISSMVLIKM  KEIAEAYLGQ  TVKNAVITVP
151  AYFNDSQRQA  TKDAGAISGL  NVMRIINEPT  AAAIAYGLDK  KGSRSGEKNV
201  LIFDLGGGTF  DVSLLTIEEG  IFEVKKATAGD  THLGGEDFDN  RLVNHFVAEF
251  RRKHKKDIST  NARALRRLRT  ACERAKRTLS  STSQTTIEID  SLYEGIDFYS
301  TITRARFEEL  NMDLFRKCME  PVEKCLRDSK  IDKSQVDDIV  LVGGSTRIPK
351  VQQLLQDFFN  GKELCKSINP  DEAVAYGAAV  QAAILSGEGD  QKVQELLLLD
401  VTPLSLGIET  AGGVMTVLIP  RNTTIPAKKE  QIFSTYSDNQ  PGVLIQVYEG
451  ERARTKDNNL  LGTFELKGIP  PAPRGVPQIN  VCFDIDANGI  LNVSAEDKTA
501  GVKNKITITN  DKGRLSKEDI  ERMVQEAEKY  KAEDEQVKKK  VEAKNALENY
551  AYNMRNTVKD  EKFAGKLDSA  DKQKIEKAID  ETIEWLDGNQ  LAEVDEFEDK
601  LKELEGLCNP  IVSKMYQGGG  GGDVPMGGGA  KPGSGYGNAS  SGGSGSGPKI
651  EEVD
```

Spot No.: **67**

NCBI accession No.: **gi|224100473** Species: *Populus trichocarpa*

PFF score: **[91]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[3]**

Matched sequences: **R.SPPIEEVIQAGVVPR.F**

Calculated Mr: **46093**

Calculated pI: **4.54**

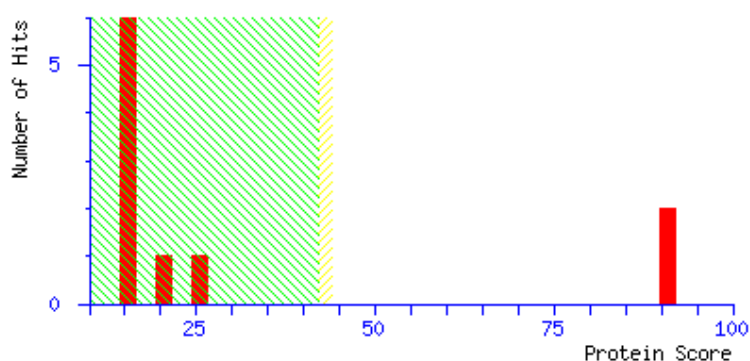
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 42 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  GVWSEDGNLQ  LESTTQFRKL  LSIERSSPPIE  EVIQAGVVPR  FVEFLVREDF
51  PQLQFEAAWA  LTNIASGTSE  NTKVVIDHGA  VPIFVKLLGS  PSDDVREQAV
101 WALGNVAGDS  PKCRDLVLSH  GALIPLLAQL  NEHAKLSMLR  NATWTLSNFC
151 RGKPQPPFEQ  VRPALPALER  LVHSTDEEVL  TDSCWALSYL  SDGTDDKIQA
201 VIEAGVCPRL  VELLHPSPS  VLVPALRTVG  NIVTGDDMQT  QVKALLAFCL
251 FVPSFAVIEN  GLIGPLVNLL  QNAEFDIKKE  AAWAVSNATS  GGTHEQIKFL
301 VSQGCIKPLC  DLLVSPDPRI  VTVSLEGLEN  ILKVGEAEKN  LGNSGDANFY
351 AQMIDDAEGL  EKIENLQSHD  NNEIYEKAVK  ILETYWLEED  DETLPSGDGA
401 QQGFQFGGNG  VQVPSGGFNF
```

Spot No.: **68**

NCBI accession No.: **gi|31580730** Species: *Hevea brasiliensis*

Protein name: latex cyanogenic beta glucosidase

PMF score: **84**

Sequence coverage %: **27**

Matched peptides No.: **12**

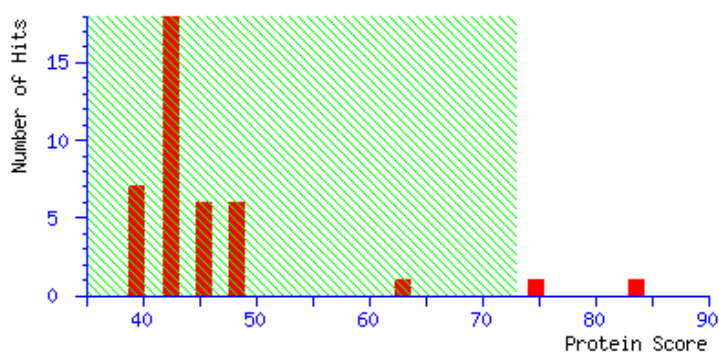
Total peptides No.: **51**

Calculated Mr: **56325**

Calculated pI: **5.72**

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 73 are significant ($p < 0.05$).



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

```
1 MMKEKFLKEH PYLLEKEVSR SDFPPNFLFG VATSAYQIEG GCREGGRGPS
51 IWDAPSHTKG TILDGSNGDV AVDHYHRYKE DIELIAKLG DAYRFSLSWS
101 RIFPDGLGTK VNEEGIAFY NIINALLEK IEPYITLYHW DLPLHLQESM
151 GGWLNKEIVK YFAIYADTCF ASFGDRVKKW ITLNEPLQTA VNGFDTGILA
201 PGKHEHSYTE PFLASHHQIL AHATAVSIYR SMYKDNQGGE VGLVVDCEWA
251 ESNSDKIEDK AAAAKRLEFQ LGWYLHPLYY GDYPEVMRKI LGGGLPKFSE
301 EDKELLRNSL DFIGLNHYSS RFIKHVTDSP AECYYYKAQE IERLAKWEDG
351 EPIGERAASE WLYVRPWGLR KVLNYIVQRY NNPIIYVTEN GMDDEDSSAP
401 LHEMLDDKLR VRYFKGYLAA VAQAIKD GAD VRGYFAWSLL DNFWEAQGYT
451 KRFGLIYVDY KNGLARHPKS SAYWFMRFLK GDEGKNGKE
```

Spot No.: **69**

NCBI accession No.: **gi|2501850** Species: *Nicotiana tabacum*

Protein name: **GDP dissociation inhibitor**

PMF score: **83**

Sequence coverage %: **34**

Matched peptides No.: **16**

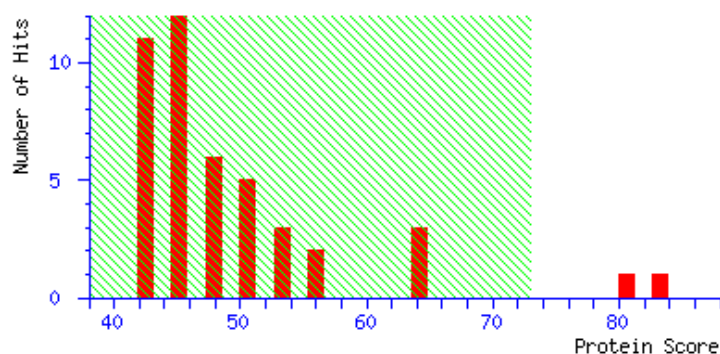
Total peptides No.: **62**

Calculated Mr: **50127**

Calculated pI: **5.44**

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 73 are significant ($p < 0.05$).



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

```
1  MDEEYDVIVL  GTGLKECILS  GLLSVDGLKV  LHMDRNDYYG  GESTSLNLVQ
51 LWKRFRGSDK  PPAELGSSRD  FNVDMIPKFI  MANGALVRVL  IHTDVTKYLY
101 FKAVDGSEFVY NKGKVHKVPA TDMEALKSPL MGIFEKRRAR KFFIYVQDYN
151 ESDPKTHEGM  DLTRVTREL  IAKYGLDDNT  VDFIGHALAL  HRDDRYLDEP
201 AQDTVKRMKL YAESLARFQG GSPYIYPLYG LGELPQAFAR LSAVYGGTYM
251 LNKPECKVEF  DEEGKVCGVT  SEGETAKCKK  VVCDPSYLPN  KVRKVGKVAR
301 AIAIMSHPIP  NTNDSHSVQI  ILPQQLGRK  SDMYLFCCSY  THNVAPKGKF
351 IAFVSTEAE  DNPESLQKQ  VNLLGPVDEI  FYETYDRSEP  VNEPSLDNCF
401 ISTSYDATTH  FESTVDDVLN  LYTKITGKVL  DLNVDLSAAS  AAEE
```

Spot No.: **70**

NCBI accession No.: **gi|2501850** Species: *Nicotiana tabacum*

PFF score: **[202]** Protein name: **GDP dissociation inhibitor**

Matched peptides No.: **[5]** Sequence coverage %: **[8]**

Matched sequences: **K.AVDGSFVYNK.G;**

K.THEGMDLTR.V;

K.LYAESLAR.F;

K.KVVC DPSYLPNK.V;

K.VVC DPSYLPNK.V

Calculated Mr: **50127**

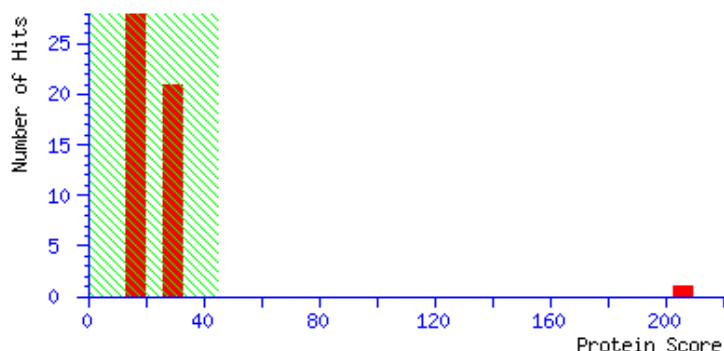
Calculated pI: **5.44**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDEEYDVIVL GTGLKECILS GLLSVDGLKV LHMDRNDYYG GESTSLNLVQ
51 LWKRFRGSDK PPAELGSSRD FNVD MIPKFI MANGALVRVL IHTDVTKYLY
101 FKAVDGSFVY NKGKVHKVPA TDMEALKSPL MGIFEKRRAR KFFIYVQDYN
151 ESDPKTHEGM DLTRVTTREL IAKYGLDDNT VDFIGHALAL HRDDRYLDEP
201 AQDTVKRMKL YAESLARFQG GSPYIPLYG LGELPQAFAR LSAVYGGTYM
251 LNKPECKVEF DEEGKVCVGT SEGETAKCKK VVCDPSYLPN KVRKVGKVAR
301 AIAIMSHPIP NTNDSHSVQI ILPQKQLGRK SDMYLFCCSY THNVAPKGKF
351 IAFVSTEAET DNPESELKQG VNLLGPVDEI FYETYDRSEP VNEPSLDNCF
401 ISTSYDATTH FESTVDDVLN LYTKITGKVL DLNVDLSAAS AAEE
```

Spot No.: **71**

NCBI accession No.: **gi|359478860** Species: *Vitis vinifera*

Protein name: **PREDICTED: 26S protease regulatory subunit 6B homolog**

PMF score: **147**

Sequence coverage %: **47**

Matched peptides No.: **18**

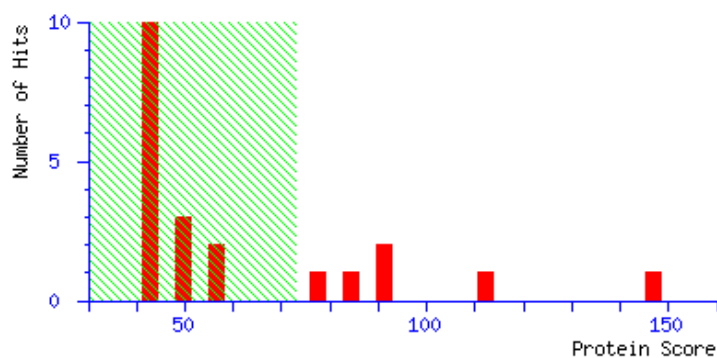
Total peptides No.: **44**

Calculated Mr: **47196**

Calculated pI: **5.42**

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 73 are significant ($p < 0.05$).



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

```
1 MAVVLEPKPS SEPPSPFPST RSDIQGFSDQ SSSFSDEDDL YGRLKSLQRQ
51 LEFIDIQEEY VKDEQKNLKR ELLRAQEEVK RIQSVPLVIG QFMEMVDQNN
101 GIVGSTTGSN YYVRILSTIN RELLKPSASV ALHRHSNALV DVLPEADSS
151 ISLLSQSEKP DVTYNDIGGC DIQKQEIREA VELPLTHHEL YKQIGIDPPR
201 GVLLYGPPGT GKTMLAKAVA NHTTAAFIRV VGSEFVQKYL GEGPRMVRDV
251 FRLAKENAPA IIFIDEVDAI ATARFDAQTG ADREVQRILM ELLNQMDGFD
301 QTVNVKVIMA TNRADTLDPA LLRPGRLDRK IEFPLPDRRQ KRLVFQVCTA
351 KMNLSDEVDL EDYVSRPDKI SAAEIAAICQ EAGMHA VRKN RYVILPKDFE
401 KGYRTNVKKP DTDFEFYK
```


Spot No.: **72**

NCBI accession No.: **gi|224071449** Species: *Populus trichocarpa*

PFF score: **[128]**

Protein name: **predicted protein**

Matched peptides No.: **[3]**

Sequence coverage %: **[4]**

Matched sequences: **R.EIYIAFR.G ;**

K.NKIDVIPHYPGRL ;

K.IDVIPHYPGRL ;

Calculated Mr: **47121**

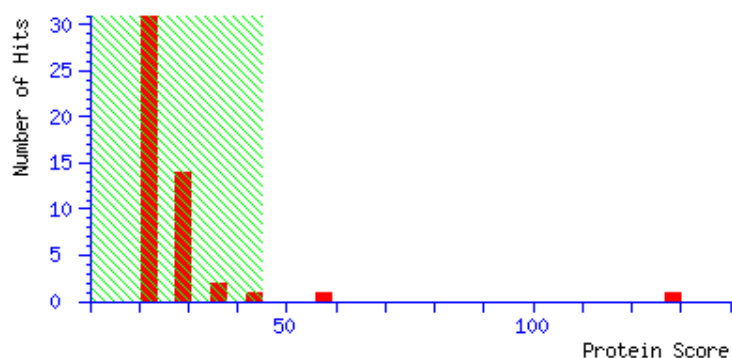
Calculated pI: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MDGTSEATWP  EILGSRNWDN  LLDPLDLSLR  KLILRCGDFC  QATYDAFNND
51  QNSRYCGTSR  YGKRNFHFKV  MLDNPNYQV  SSFLYATARV  SLPEAFLLHS
101 LSRDSDRET   NWIGYIAVTS  DEQTKTLGRR  EIYIAFRGTT  RNYEWDILG
151 AKLKSAPPLL  RGATSTTHDQ  ESSSSDDDD  DKVPKVMLGW  LTMYSISDPN
201 SPFTKLSARA  QLLAHIKELR  ERYKDDLSI  IFTGHSLGAS  LSILSAFDLV
251 ENGITDIPVS  AFVFGSPQVG  NKEFNERFNK  YPNLKVLHIK  NKIDVIPHYP
301 GRLMGYVYTG  IEFIDTRKS  PSLKDSKNPS  DWHNLQAMLH  IVAGWNGEEQ
351 EFELKVKRSL  ALVNKSSEFL  KDECLVPGIW  WVEKNKGMVR  NEDGEWVLAP
401 PDEEDLPVPE  C
```


Spot No.: **73**

NCBI accession No.: **gi|32186912** Species: *Gossypium hirsutum*

Protein name: **actin**

PMF score: **178**

Sequence coverage %: **57**

Matched peptides No.: **19**

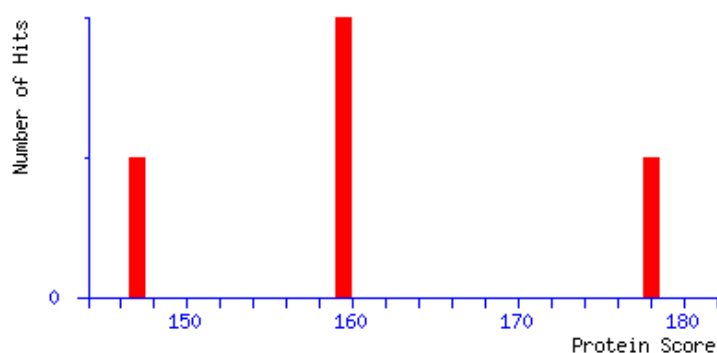
Total peptides No.: **35**

Calculated Mr: **41936**

Calculated pI: **5.37**

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 73 are significant ($p < 0.05$).



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

```
1  MADGEDIQPL  VCDNGTGMVK  AGFAGDDAPR  AVFPSIVGRP  RHTGVMVGMG
51  QKDAYVGDEA  QSKRGILTLK  YPIEHGIVSN  WDDMEKIWHH  TFYNELRVAP
101 EEHPVLLTEA  PLNPKANREK  MTHIIFETFN  VPAMYVAIQA  VLSLYASGRT
151 TGIVLDSGDG  VSHTVPIYEG  YALPHAILRL  DLAGRDLTDA  LMKILTERGY
201 MFTTTAEREI  VRDMKEKLAY  VALDYEQELE  TAKSSSSVEK  NYELPDGQVI
251 TIGAERFRCP  EVLFQPSFIG  MEAAGIHETT  YNSIMKCDVD  IRKDLYGNIV
301 LSGGSTMFPG  IAD RMSKEIT  ALVPSSMKIK  VVAPPERKYS  VWIGGSILAS
351 LSTFQQMWIS  KGEYDESGPS  IVHRKCF
```

Spot No.: **74**

NCBI accession No.: **gi|297816956**

Species: **Arabidopsis lyrata subsp. lyrata**

PFF score: **[70]**

Protein name: **hypothetical protein ARALYDRAFT_486071**

Matched peptides No.: **[3]** Sequence coverage %: **[5]**

Matched sequences: **K.APLLIGCDVR.N** ;

K.EVIAVNQDPLGVQGR.K;
K.EVIAVNQDPLGVQGR.K

Calculated Mr: **48033**

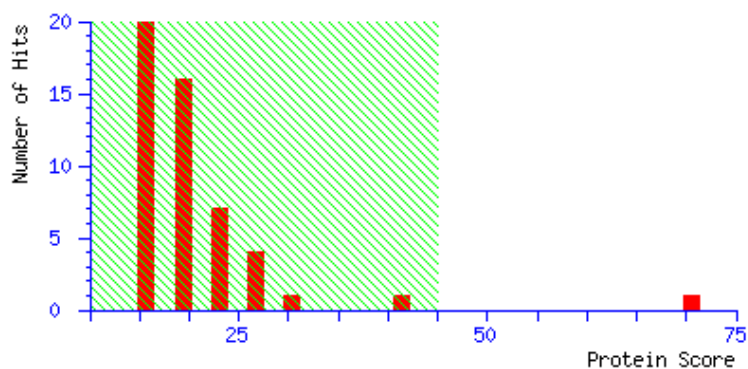
Calculated pI: **4.79**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MKDSVLFLVG LFSLSVLVSQ SISGRVKAPL LQSNTGGLVF SKSFNSIYDT
51 SMYGRQLQNN GLARTPQMGW NSWNFFACNI NETVIKETAD ALLSSGLADL
101 GYIHVNIDDC WSNLLRDSKG QLVPHPETFP SGIKLLADYV HSKGLKLGIV
151 SDAGVFTQCQV RPSGLFHEVD DADIFASWGV DYLYKDNCFN LGIKPIKRYP
201 PMRDALNATG RSIFYSLCEW GVDDPALWAK EVGNSWRITD DINDTWASMT
251 TIADLNNKWA AYAGPGGWND PDMLEIGNGG MTYEYRGHF SIWALMKAPL
301 LIGCDVRNMT AETFEILSNK EVIAVNQDPL GVQGRKIQAN GEDDCQQVWS
351 GPLSGDRIVV ALWNRCSQA TITASWDVIG LESTISVSVR DLWQH KDVTTE
401 NASGSFEAQV DAHDCHMYVL TPQTVSHSDV
```

Spot No.: **75**

NCBI accession No.: **gi|3264769** Species: *Prunus armeniaca*

PFF score: **[74]** Protein name: **late embryogenesis-like protein**

Matched peptides No.: **[1]** Sequence coverage %: **[8]**

Matched sequences: **K.LVSGGLIPDAGTIHAHGEETVK.V**

Calculated Mr: **28937**

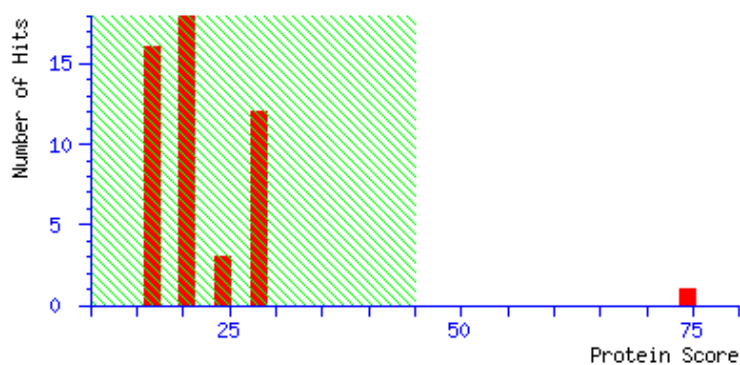
Calculated pI: **4.72**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  DVTAIHIPSI  NLEKAEIVVD  VLIKPNPVP  IPLIDINYLI  ESDGRKLVSG
51  LIPDAGTIHA HGEETVKVPV  HLVDYDDIKNT  YDDIKPGSII  PYRFKVDLIV
101 DVPVVLGRLTL  PLEKTGEIPI  PYKPDVDVEK  IKFQAQSFEE  TVAVLHVKLE
151 NMNDFDLGLN  ALDYEIWLSE  VNIGGAQLSQ  SANLAKKGVT  FIELPITFRP
201 KDFGSALWDM  IRGKGTGYTI  KGNINVDTPF  GAMKLPIVKE  GGTTLRKKNK
251 EDGGDDDDDED  ED
```

Spot No.: **76**

NCBI accession No.: **gi|168066110**

Species: **Physcomitrella patens subsp. patens**

Protein name: **predicted protein**

PMF score: **81**

Sequence coverage %: **39**

Matched peptides No.: **15**

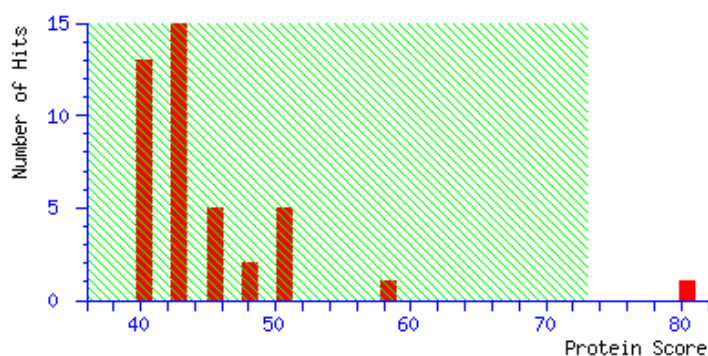
Total peptides No.: **82**

Calculated Mr: **41963**

Calculated pI: **5.24**

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 73 are significant ($p < 0.05$).



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

```
1  MEASSHYIRK HWTRATTEVL VKAGDIEEPI VALVDHGFEI NLMSKDLYKK
51 RKWPIDIEHR WVILAANNTR GELYRACSDV KIWIGDVATK RHFFVQDTTS
101 YPLILGQSYI TATRMETKVL DDGSTYARNY GGTKEEILSQ DEGTFDASFI
151 DIFESRNIIY KKVDDSKRKE IKRLYSIERE LRKLETLEDG EKILGVYEEN
201 GLEDSLELIA SIELGDNDKI VEIHSTEVYS ILESFQAPEV IVETKYKIVD
251 KKVKPLVRPL IEDSKEKME ASKEESLRDP KKIGHEFTKE TFEELKIGYD
301 GSLFPTEIEY FKKILAKRGK SFAFGSHEIG CVDPNIVALM LSRSFIDAAL
351 TSHVPLIDFL D
```

Spot No.: **77**

NCBI accession No.: **gi|388503664** Species: *Lotus japonicus*

Protein name: **unknown**

PMF score: **109**

Sequence coverage %: **43**

Matched peptides No.: **13**

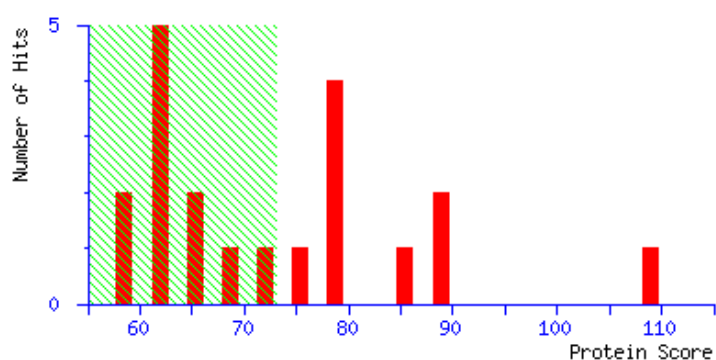
Total peptides No.: **37**

Calculated Mr: **29537**

Calculated pI: **4.79**

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 73 are significant ($p < 0.05$).



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

```
1  MASSKDRGTF  VYVAKLAEQA  ERYEEMVDSM  KKVANLDVEL  TVEERNLLSV
51  GYKNVIGARR  ASWRILSSIE  QKEETKGNDV  NAKRIKEYRQ  KVESELADIC
101 NDVMRVIDEH  LIPSATAGES  TVFYYKMKGD  YYRYLAEFKS  GNEKKEAADQ
151 SMKAYESATT  AAEAELPPTH  PIRLGLALNF  SVFYYEILNS  PERACHLAKQ
201 AFDEAISELD  TLNEESYKDS  TLIMQLLRDN  LTLWTSDIPE  EGEDSLKAND
251 TAKVGGGEDA  E
```

Spot No.: **78**

NCBI accession No.: **gi|115468882**

Species: *Oryza sativa Japonica Group*

PFF score: **[71]**

Protein name: **Os06g0608500**

Matched peptides No.: **[1]**

Sequence coverage %: **[6]**

Matched sequences: **R.LYEQQIEQLGNFQLR.I**

Calculated Mr: **24269**

Calculated pI: **4.84**

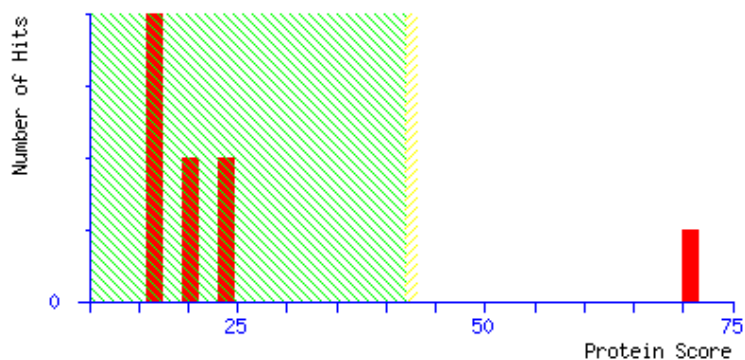
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 42 indicate peptides with significant homology.

Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSGVFGKVFQ  KSKAQSQATA  LASIDKLSET  LEMLEKKENL  LVKKANLEVE
51  KAKTFTKAKN  KRAAIQCLKR  KRLYEQQIEQ  LGNFQLRIHD  QMIMLEGAKA
101 TTETVDALRT  GASAMKAMHK  ATNIDDVDKT  MDEINDNMEN  MRQIQDLLSA
151 PIGAAADFDE  DELEAELADL  EGEELEAELL  APTTTAPTAP  VRVQQPTRPS
201 AQSSKTEDDE  LAALQAEMAM
```

Spot No.: **79**

NCBI accession No.: **gi|356532109** Species: *Glycine max*

PFF score: **[104]**

Protein name: **2,3-bisphosphoglycerate-independent
phosphoglycerate mutase-like**

Matched peptides No.: **[3]** Sequence coverage %: **[7]**

Matched sequences: **K.ALEYENFDKFDR.V ;**

K.ALEYENFDKFDR.V;

R.AHGTAVGLPTEDDMGNSEVGHNALGAGR.I + Oxidation (M)

Calculated Mr: **61059**

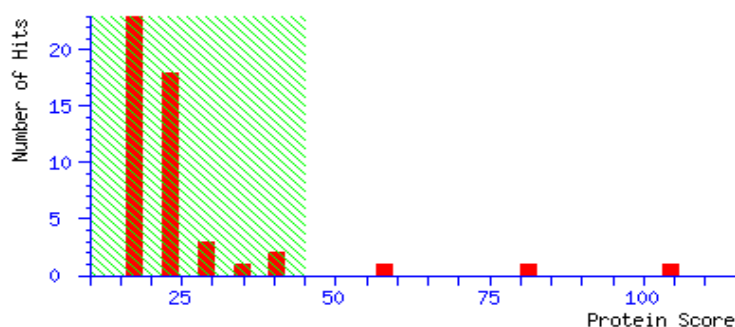
Calculated pI: **5.51**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGSTGFSWKL  ADHPKLPK GK  TVAVVLDGW  GEATPNEYNC  IHKAETPCMD
51  SLKKGAPERW  RLVRAHGTAV  GLPTEDDMGN  SEVGHNALGA  GRIFAQGAKL
101 VDLALASGKF  FEGGGFKYIK  ESFENGLHL  IGLSDGGVH  SRLDQLQLL
151 KGVSEKRVKR  VRVHILTDGR  DVLGSSVGF  VETLENDLAN  LREKGV DARI
201 ASGGGRMNVT  MDRYENDWNV  VKRGWDAQVL  GEAPYKFTNA  LEAVKKLRAE
251 PKANDQYLPP  FVIVDESGKP  VGPIVDGDAV  VTFNFRADRM  TMIAKALEYE
301 NFDKFDRVRF  PKIRYAGMLE  YDGELKLPSH  YLVSPPEIDR  TSGEYLVYNG
351 IRTFACSETV  KFGHVTFEWN  GNRSGYFNSE  LEEYVEIPSD  SGITFNEQPL
401 MKALQIAEKA  RDAILSGKFD  QVRVNL PNGD  MVGHTGDIEA  TVVACKAADA
451 AVKMILDAIE  QVGGIYV VTA  DHGNAEDMVK  RDKSGKPLL G  KDGKIQILTS
501 HTLEPVPIAI  GPGGLAPGVR  FRNDVPTGGL  ANVAATVMNL  HGFEAPSDYE
551 TTLVEVVDN
```


Spot No.: **80**

NCBI accession No.: [gi|224056489](#) Species: *Populus trichocarpa*

Protein name: **predicted protein**

Mascot score: **90**

Sequence coverage %: **32**

Matched peptides No.: **17**

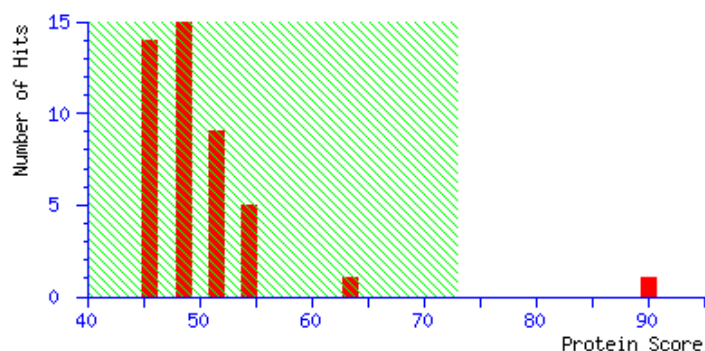
Total peptides No.: **86**

Calculated Mr: **59210**

Calculated pI: **5.11**

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 73 are significant ($p < 0.05$).



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

```
1  MEESERKQT LLSSLESAGI WIPDNVTSIG DLSPETFVSI CAQCVNLIDQ
51  TASLPTTLPD AAIDKLMCA DMGLAIKRLG FIGDMSYIKV IKPVTNCFVI
101 KLLYSEDDL HKLTRFLVER LTESTRPVKI AEVKDVNARG KTKEDGSDIG
151 GRLDLNHQRE KLADPSLHNA VPEAEDIPFI GLSRQNLGKD KLPAFFYGEL
201 FDEEGKSGRD LFGNEETAAA GDDKDVQKAI SIKEQPSMVI IEKEELRNEE
251 KVLTEEVTAKE TSELQHLEEE LELLKAAAEM AYGDQNSIDF CFEQLKGQVD
301 AKRCNITELK SQWDAFRMPL EDKRNLEES LYANIPGSQE KLQKLRELEH
351 EKQLVLSEIT KREEHSLKLS ADLEKQPKLP SRTSYIERIK EITKSSQKQD
401 ADIKRILKET RELQLESNSI QDRLHRTYAV LDEIVCREAK RDLVGRKAYR
451 LLTSLHDCFG QISEKILTTD RISREMLETE KKLAAMASRS LNVDKLQADL
501 DAIVKENECL ELRLAENP
```


Spot No.: **81**

NCBI accession No.: **gi|255552291** Species: *Ricinus communis*

PFF score: **[174]**

Protein name: **short chain dehydrogenase, putative**

Matched peptides No.: **[2]** Sequence coverage %: **[10]**

Matched sequences: **K.VALVTGGDSGIGR.A ;**

K.DPIAIPTDVGFENCR.K

Calculated Mr: **32148**

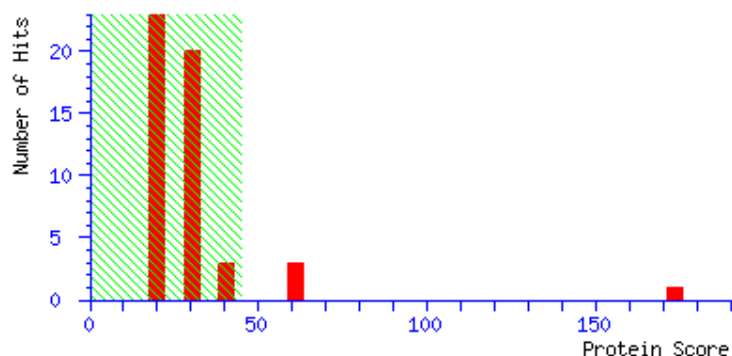
Calculated pI: **6.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATRRGYRFP  PQSQDKQPGK  EYLMHPLPEF  INPHYKPSNK  LQDKVALVTG
51 GDSGIGRAVS  YYFTLEGATV  AFTYVKGRED  KDKDHILKIL  HEVKAEGAKD
101 PLAIPTDVGF EENCRKVIDQ  IMSEYGKIDI  LVNNAGEAHY  STTIEDITDP
151 MLERVFRTNI  FGHEFMSRHA  LKHMKEGGCI  INTASVAAYA  GFSFMVDYSS
201 TKGAVVAFTR  SLALQLIDRG  IRVNAVAPGS  VWTPFQPSTL  SAEQVAQVGS
251 GVPMDRAAQP  YEIAPSFVFL  ASNDCSSYFT  GQVLHPNGMF
```

Spot No.: **82**

NCBI accession No.: **gi|2073448** Species: *Lotus japonicus*

Protein name: **glutamine synthetase**

PMF score: **91**

Sequence coverage %: **46**

Matched peptides No.: **13**

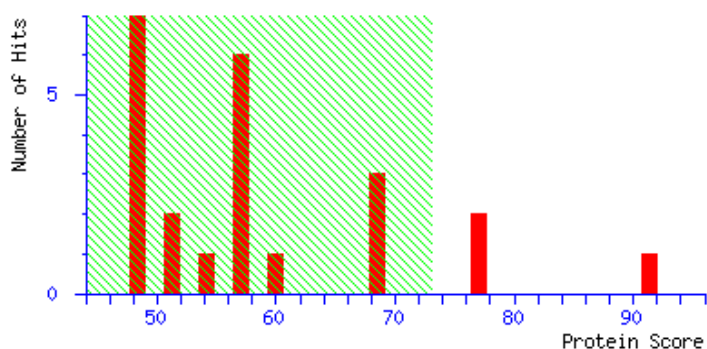
Total peptides No.: **89**

Calculated Mr: **39308**

Calculated pI: **5.49**

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 73 are significant ($p < 0.05$).



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

```
1  MSLLSDLINL NLSETTDKII AEYIWIGGSG LDMRTKARTL PGPVSDPSQL
51 PKWNYDGSST GQAPGEDSEV ILYPQAIFRD PFRRGSNILV ICDAYTPAGE
101 PIPTNKRHAA AKVFSHPDVV AEVWPYGIEQ EYTLLQKEVN WPVGPWPIGGF
151 PGPQGPYYCG IGADKAFGRD IVDAHYKACL YAGVNISGIN GEVMPGQWEF
201 QVGPSVGISA GDEVWVARYI LERITEIAGV VLSFDPKPIK GDWNGAGAHT
251 NYSTKTMRED GGYEVIKKAI DKLGLRHKEH IAAYGEGNER RLTGRHETAD
301 INTFLWGVAN RGASIRVGRD TEKEGKYFE DRRPASNMDP YVVTSMIADT
351 TILWKP
```

Spot No.: **83**

NCBI accession No.: **gi|192912956** Species: *Elaeis guineensis*

PFF score: **[204]**

Protein name: **aluminum-induced protein**

Matched peptides No.: **[2]** Sequence coverage %: **[9]**

Matched sequences: **K.TANEVIIVIEAYR.S** ;

R.GPYPADKVVR.D

Calculated Mr: **27466**

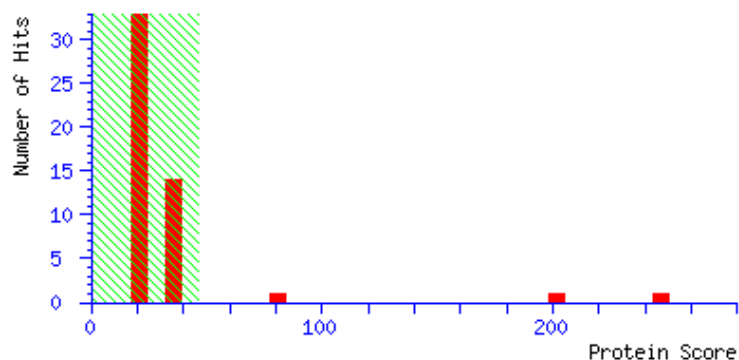
Calculated *pI*: **6.07**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLAVFDRTVA KCPEGLRND SGPGEKGVGG VASLVDHFSA TREGAVTIRL
51 GSSGAVAYTA EKQNLLLPRL FAAVDDIYCL FQGHENIAH LKQQYGLNKT
101 ANEVIIVIEA YRSLRDRGPY PADKVVRDLN GKFAFILFDC SAKSTFIAAD
151 ADGSVPFYWG TDSGSHLVLS DDVDVIKKGK GKSFAPFPKG CFFTTSGGLQ
201 SFEHPLNEVK LMPRVDSQGE VCGATYEIDA QTKKESMPR VGSAANWSSH
251 Y
```

Spot No.: 84

NCBI accession No.: gi|255559601 Species: *Ricinus communis*

PFF score: [254]

Protein name: **alpha-soluble nsf attachment protein, putative**

Matched peptides No.: [6] Sequence coverage %: [12]

Matched sequences: H EAAQAYVDAA HCYK ;

AIEIYEEIAR;

YQ DLDPTFSGTR

Calculated Mr: 32914

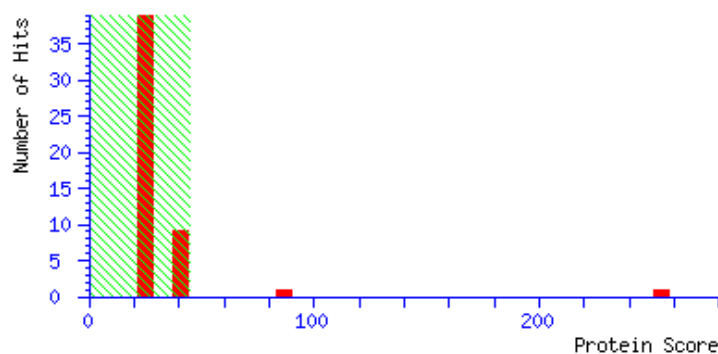
Calculated pI: 5.12

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSDQIAKGEE FEKKA EKLN GWGLFGSKYE DASDLFDKAA NSFKLAKSWD
51  RAGSTYVKLA NCHLKLD SKH EAAQAYVDAA HCYKKTTTNE AISCLGQAVE
101 MFCDIGRISM AARYYKEIAE LYESEANVEK AMDFYEKAAD FFQGEEVTTT
151 ANQCKQKVAQ FAAQLEQYQK AIEIYEEIAR HSLSNLLKY GVKGHLLNAG
201 ICHLCKGDVV SVTNALERYQ DLDPTFSGTR EYRLLADVAA AIDEEDVAKF
251 TDVVKEFDSM TPLDSWKTTL LLRVKEKLKA KELEEDDLT
```

Spot No.: 85

NCBI accession No.: [gi|224099853](#) Species: *Populus trichocarpa*

PFF score: [69] Protein name: putative protein

Matched peptides No.: [2] Sequence coverage %: [5]

Matched sequences: [S FEHPLNELKP VPR](#)

Calculated Mr: 27448

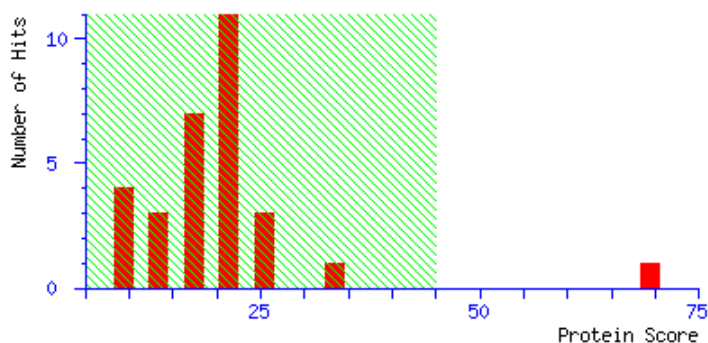
Calculated pI: 5.84

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLAVFDNTVA KCPDALQSPH SAPASSALKD GFLANHFASQ HPGSVTVNLG
51 TSGLISHSVE KQNPFLPRLF AVVDDIFCLF QGHIDNVAVL KQQYGLNKTA
101 NEVIVVIEAY RTLRDRGPYP ADQVVKDIQG KFAFILDST SKATFFAADA
151 DGSVPFFWGA DSEGNLVLSD DVQIVQKCGC KSFAPFPKGC FFTTSGGLRS
201 FEHPLNELKP VPRVDSSGQV CGATFKVDAE TKKESVGMPR VDSSYNWSSN
251 Y
```

Spot No.: 86

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

PFF score: [410] Protein name: rubber elongation factor

Matched peptides No.: [4] Sequence coverage %: [26]

Matched sequences: [YLDFVQAATVYAR](#) ;

[SGPFKPGVNTVESR](#);

[SVVRPVYNK](#) ;

[RVDAYVTVLDR](#)

Calculated Mr: **19570**

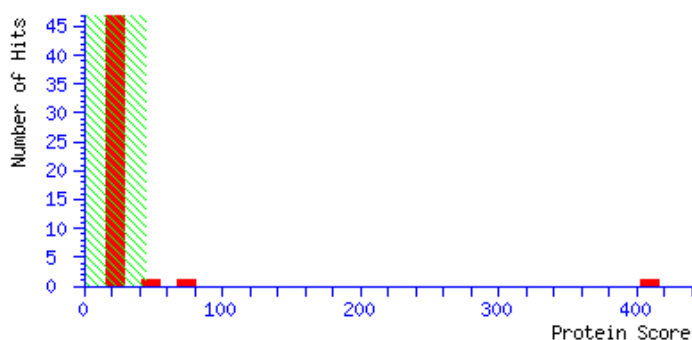
Calculated pI: **5.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGEEVNI QEEANKGEEN PQEEANIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFSKSV
101 VRPVYNKFQP VPKVLFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: 87

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

PFF score: [226] Protein name: rubber elongation factor

Matched peptides No.: [4] Sequence coverage %: [26]

Matched sequences: [YLDFVQAATVYAR](#) ;

[SGPFKPGVNTVESR](#);

[SVVRPVYNK](#) ;

[RVDAYVTVLDR](#)

Calculated Mr: **19570**

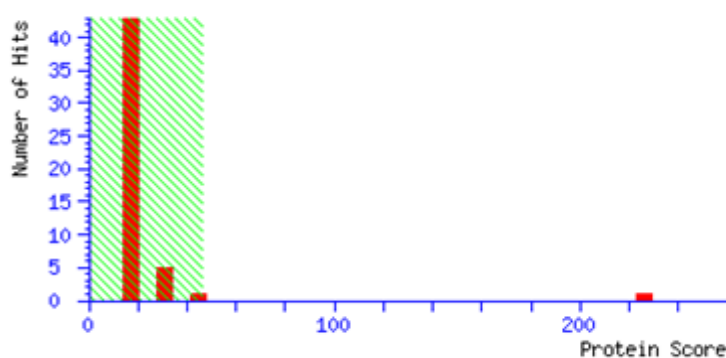
Calculated pI: **5.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGEEEVNI QEEANKGEEN PQEENIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: 88

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

Protein name: rubber elongation factor

PMF score: 116

Sequence coverage %: 54

Matched peptides No.: 11

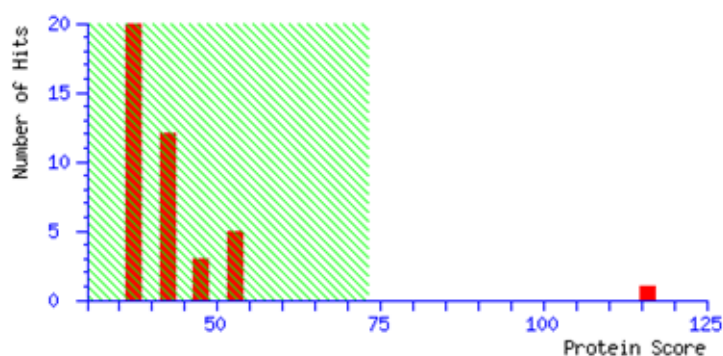
Total peptides No.: 60

Calculated Mr: 19570

Calculated pI: 5.06

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 73 are significant ($p < 0.05$).



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

```
1 MAEGEEEVNI QEEANKGEEN PQEEANIQEE TNKGEEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFSKV
101 VRPVYNKFQP VPNKVLKFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```


Spot No.: 88

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

Protein name: rubber elongation factor

PMF score: 99

Sequence coverage %: 455

Matched peptides No.: 8

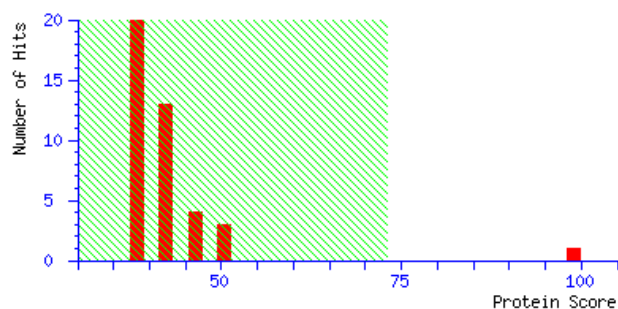
Total peptides No.: 39

Calculated Mr: 19570

Calculated pl: 5.06

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 73 are significant ($p < 0.05$).



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

```
1 MAEGEEEVNI QEEANKGEEN PQEEANIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKFAD RRVDAYTVTL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: 90

NCBI accession No.: [gi|334854634](#) Species: *Hevea brasiliensis*

PFF score: [496] Protein name: elicitor-responsive protein

Matched peptides No.: [3] Sequence coverage %: [59]

Matched sequences: [PLGTVEVLLVGAKGLENDFLNGVDPYVVLACR](#);

[GSEP EWNEKFSFEVSDGDTELTK](#);

[GEITVGLTFTPEVEMDNVVDGYDFRL](#)

Calculated Mr: **15249**

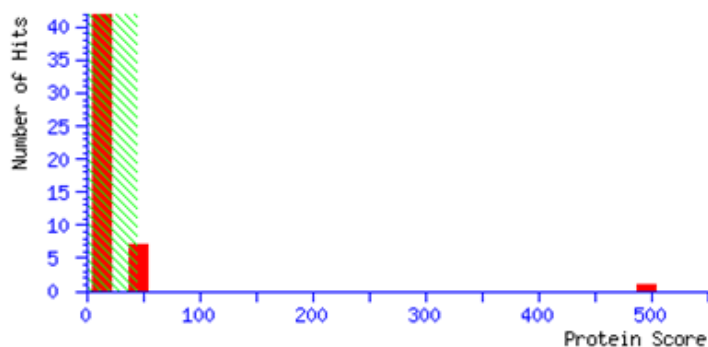
Calculated pI: **4.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 **MPLGTVEVLL** **VGAKGLENTD** **FLNGVDPYVV** **LACRTQEQKS** **SVASGKGSEP**
51 **EWNEKFSFEV** **SDGDTELTK** **IMDSVGAAD** **DFVGEATIPL** **EPLFLEGNLP**
101 **STAYKVVKEQ** **EYKGEITVGL** **TFTPEVEMDN** **VGVDGYDFRL**

Spot No.: 91

NCBI accession No.: [gi|334854634](#) Species: *Hevea brasiliensis*

PFF score: [95]

Protein name: eukaryotic translation initiation factor 5A isoform VII

Matched peptides No.: [3] Sequence coverage %: [28]

Matched sequences: TYPQQAGTIR;

K LEDIVPSSHNC DVPHVTR ;

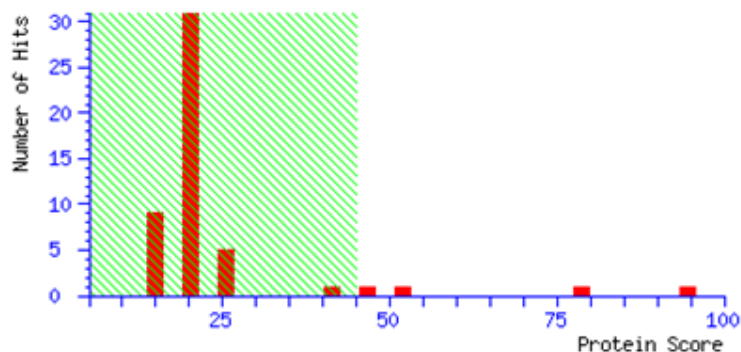
TKDDLRLPTDENLLS QIK

Calculated Mr: 17689

Calculated pI: 5.60

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSDEEHHFES KADAGASKTY PQQAGTIRKN GYIVIKNRPC KVVDVSTSKT
51 GKHGHAKCHF VGIDIFNAK LEDIVPSSHNC DVPHVTRTD YQLIDISEDG
101 FVSLLTENGN TKDDLRLPTDENLLS QIKDG FAEGKDLVVT VMSSMGEEQI
151 CALKDIGPK
```

Spot No.: 92

NCBI accession No.: [gi|224144943](#) Species: *Populus trichocarpa*

PFF score: [180] Protein name: predicted protein

Matched peptides No.: [2] Sequence coverage %: [28]

Matched sequences: [VFEDNVLIRVLVVDGGGSLR](#);

[HVPITIG GTRISDGEWLYADTDGILISR](#)

Calculated Mr: 17971

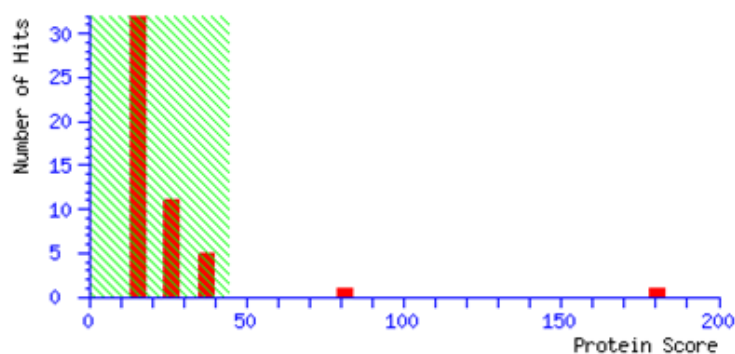
Calculated pI: 5.39

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALVTIAEVC DANPQLIVSG ELRALQPIFQ IYGRRQVFSG PVVILKVFED
51 NVLIREFLEE KGNGRVLVD GGGSLRCAIL GGNPVVQAQN NGWAGIVVNG
101 CIRDVDEIMG CDIGVRALAS HPMKANKKGI GEKHVPITIG GTRISDGEWL
151 YADTDGILIS RTELAV
```

Spot No.: 93

NCBI accession No.: [gi|253760141](#)

Species: *Hevea brasiliensis*

Protein name: nucleoside diphosphate kinase 1

PMF score: 84

Sequence coverage %: 44

Matched peptides No.: 8

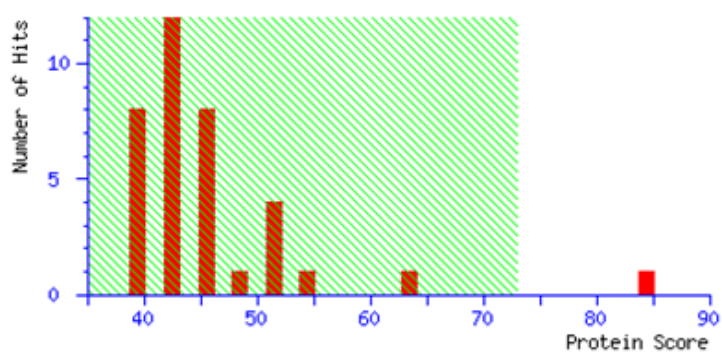
Total peptides No.: 76

Calculated Mr: 16338

Calculated pI: 6.85

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 73 are significant ($p < 0.05$).



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

```
1  MEQTFIMIKP  DGVQRGLVGE  IIGRFEKKGF  SLKGLKLITV  ERLFAERHYA
51  DLSAKPFFNG  LVEYIISGPV  VAMVWEGKNV  VTTGRKIIGA  TNPADSAPGT
101 IRGDYAIDIG  RNVIHGSDSV  ESARKEIALW  FPEGVSWSS  SLHPWIYE
```

Spot No.: 94

NCBI accession No.: [gi|123062](#)

Species: *Hevea brasiliensis*

PFF score: [96]

Protein name: [prohevein](#)

Matched peptides No.: [1] Sequence coverage %: [8]

Matched sequences: [IVDQ CSNGGLDLDV NVFR](#)

Calculated Mr: 22700

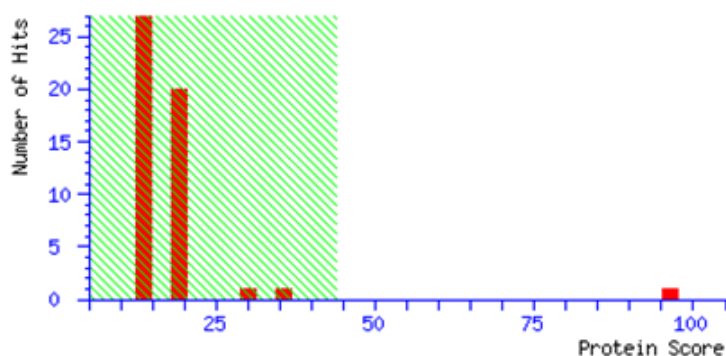
Calculated pI: 5.63

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MNIFIVLLC  LTGVAIAEQC  GRQAGGKLCF >NNLCCSQWGW  CGSTDEYCSP
51  DHNCQSNCKD  SGEQVGGGSA  SNVLATYHLY  NSQDHGWDLN  AASAYCSTWD
101 ANKPYSWRSK  YGWIAFCGPV  GAHQSSCGK  CLSVTNTGTG  AKTTVRIVDQ
151 CSNGGLDLDV NVFRQLDTDG  KGYERGHITV  NYQFVDCGDS  FNPLFSVMKS
201  SVIN
```

Spot No.: 95

NCBI accession No.: [gi|313586569](#) Species: *Hevea brasiliensis*

PFF score: [70] Protein name: hypothetical protein 19

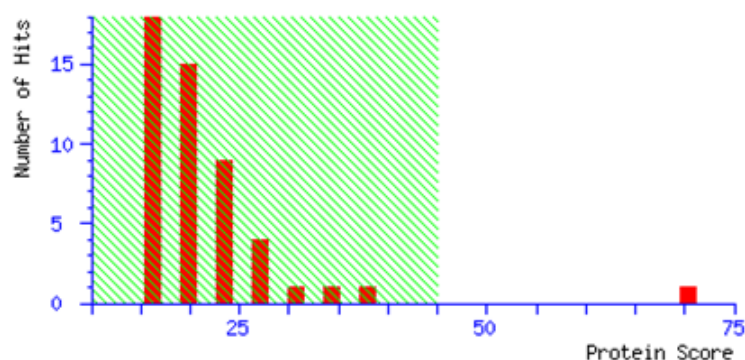
Matched peptides No.: [1] Sequence coverage %: [5]

Matched sequences: [ADPNFFLTIR](#)

Calculated Mr: **20724** Calculated pI: **7.77**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MEELGSSHEK TESESSCRK PHLPSGSYLS KKPSYKVYCK ADPNFFLTIR
51 DGKVVLAAPPD PSDEFQHWYK DEKFSTMVKD EEGFPSFALV NKASGKALKH
101 SFGPTHFVLL TPYDPPDLEA SILWTESKDL GDGYRIVRML NNIRLNVEAL
151 RGDKKSGGVS NGTKVVLAYW NKGDHQKWRI APL
```


Spot No.: 96

NCBI accession No.: gi|313586569 Species: *Hevea brasiliensis*

Protein name: **hypothetical protein 19**

PMF score: **94**

Sequence coverage %: **62**

Matched peptides No.: **11**

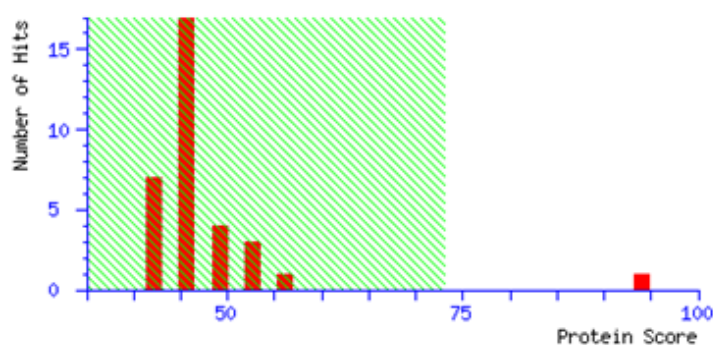
Total peptides No.: **73**

Calculated Mr: **20724**

Calculated pI: **7.77**

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 73 are significant ($p < 0.05$).



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

```
1  MEELGSSHEK TESESSCRK  PHLPSGSYLS  KKPSYKVYCK  ADPNFLTIR
51  DGKVVLAPPD  PSDEFQHWYK  DEKFSTMVKD  EEGFPSFALV  NKASGKALKH
101 SFGPTHPVLL  TPYDPDDLEA  SILWTESKDL  GDGYRIVRML  NNIRLNVEAL
151 RGDKKSGGVS  NGTKVVLAYW  NKGDHQKWRI  APL
```


Spot No.: 97

NCBI accession No.: [gi|4835766](#) Species: *Arabidopsis thaliana*

Protein name: [Contains similarity to gb|AB017693](#) transfactor
(WERBP-1) from *Nicotiana tabacum*

PMF score: **84**

Sequence coverage %: **27**

Matched peptides No.: **11**

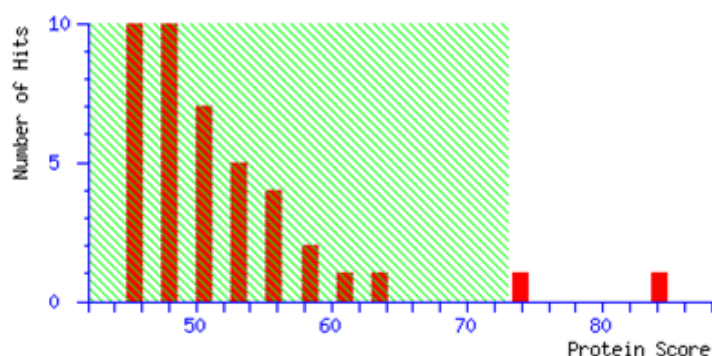
Total peptides No.: **56**

Calculated Mr: **40677**

Calculated pI: **8.94**

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 73 are significant ($p < 0.05$).



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

```
1 MFHAKKPSSM NGSYENRAMC VQGDSGLVLT TDPKRLRWT VELHERFVDA
51 VAQLGGPKA TPKTIMRVMG VKGLTLYHLK SHLQKFRGK QPHKEYGDHS
101 TKEGSRASAM DIQRNVASSS GMMSRNMNDN SHQVGLIRMQ MEVQRRLHEQ
151 LEVQRHLQLR IEAQGKYMQS ILERACQTLA GENMAAATAA AAVGGGYKGN
201 LGSSSLSAAV GPPPHPLSFP PFQDLNIYGN TTDQVLDHHN FHHQNIENHF
251 TGNNAADTNI YLGKKRPNPN FGNDVRKGLL MWSQDHDLS ANQSIDDEHR
301 IQIQMATHVS TDLDSLSEIY ERKSGLSGDE GNNGGKLLER PSPRRSPLSP
351 MMNPNGLLIQ GRNSPFG
```

Spot No.: 98

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

Protein name: [rubber elongation factor](#)

PMF score: 99

Sequence coverage %: 45

Matched peptides No.: 8

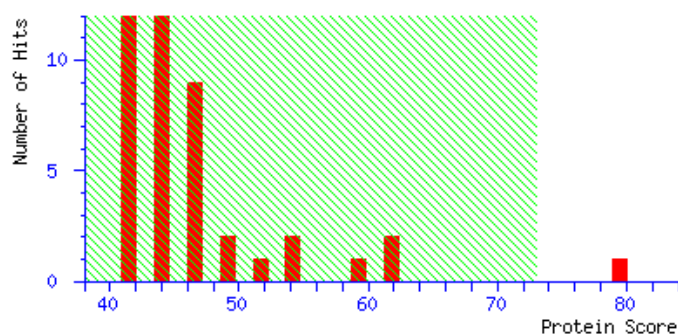
Total peptides No.: 39

Calculated Mr: 19570

Calculated pI: 5.06

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 73 are significant ($p < 0.05$).



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

```
1 MAEGEEEVNI QEEANKGEEN PQEENIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYMKFQP VPNKVLKFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: **99**

NCBI accession No.: **gi|3377751**

Species: *Mesembryanthemum crystallinum*

PFF score: **[73]**

Protein name: **glutathione S-transferase**

Matched peptides No.: **[1]**

Sequence coverage %: **[4]**

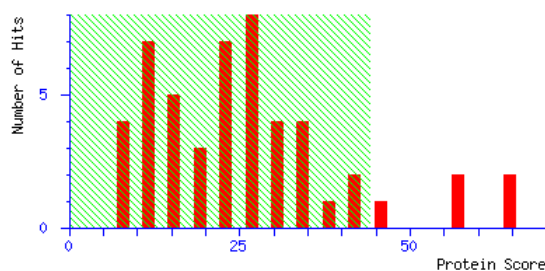
Matched sequences: **R.FWADFIDKK.L**

Calculated Mr: **26154**

Calculated pI: **5.71**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGEEVILLDF  WPSMFGMLR  IALAEGVKH  ERKEEDLLIG  KSPLLLQLNP
51  VHKKIPVLVH  NGKPINESMI  AVQYIDEVWN  EKSPSLLPSD  PYQRAQARFW
101 ADFIDKKLYD  ECRKIYTTKE  AEIGEETYKG  FLEIIKVLEA  EVGEKSYFGG
151  DTFGFVDVAL  IPFYSWFYAL  EMLGKFNIET  ECPKLIAWAK  RCMERESVSK
201  SLPDRHKIYD  FITLQLRKAL  GVDQ
```

Spot No.: **100**

NCBI accession No.: **gi|1709761** Species: *Spinacia oleracea*

PFF score: **[49]**

Protein name: **Proteasome subunit alpha type-4**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

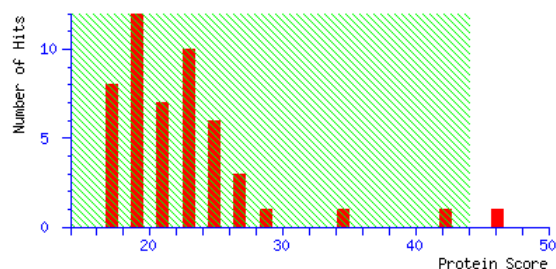
Matched sequences: **R.TTIFSPEGR.L**

Calculated Mr: **27545**

Calculated pI: **6.17**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSRRYDSRTT IFSPEGRLYQ VEYAMEAIGN AGSAIGILAK DGVVLIGEKK
51 VTSKLLQTST STEKMYKIDD HVACAVAGIM SDANILINTA RVQAQRYTFS
101 YQEPMPVEQL VQSLCDTKQG YTQFGGLRPF GVSFLFAGWD KNYGFQLYMS
151 DSPGNYGGWK ATAIGANNQA AQSMLKQDYK DDVTREDAVK LALKALSKTM
201 DSTSLTSEKL ELAEVYLLPS GKVYQVHSP ESLNRLTES GLTQPAETS
```

Spot No.: **101**

NCBI accession No.: **gi|27449248** Species: *Hevea brasiliensis*

PFF score: **[431]** Protein name: **ascorbate peroxidase**

Matched peptides No.: **[5]** Sequence coverage %: **[32]**

Matched sequences: **R.EDKPEPPPEGR.L;**

R.IAWHSAGTYDANTK.T;

R.HAAEQAHAANGLDIAVRL;

K.YAADEDAFFADYAEAHVK.L;

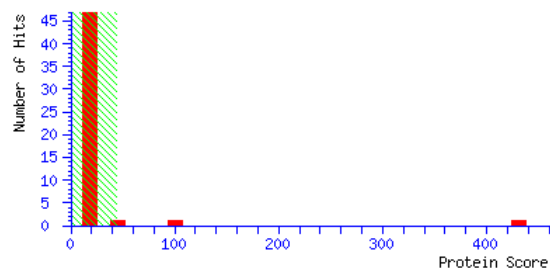
K.TMGLSDKDIVVLSGGHTLGR.C + Oxidation (M)

Calculated Mr: **27526**

Calculated *pI*: **5.78**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTKNYPKVSE  EYQKAIDKAK  RKLRFIAEK  GCAPMLRIA  WHSAGTYDAN
51 TKTGGPFGTM  RHAAEQAHAA  NNGLDIAVRL  LEPIKQQFPI  LSYADFYQLA
101 GVVAVEITGG  PEIPFHPGRE  DKPEPPPEGR  LPNATKGADH  LREVFGKTMG
151 LSDKDIVVLS  GGHTLGRCHK  ERSFGDGPWT  ANPLIFDNSF  FTELLAGQKE
201 GLLQLPTDTV  LVTDPVFRPY  VEKYAADEDA  FFADYAEAHV  KLSELGFAEA
```

Spot No.: **102**

NCBI accession No.: **gi|211906460** Species: *Gossypium hirsutum*

PFF score: **[193]** Protein name: **triosephosphate isomerase**

Matched peptides No.: **[3]** Sequence coverage %: **[18]**

Matched sequences: **K.FFVGGNWK.C;**

K.VIACIGETLEQR.E;

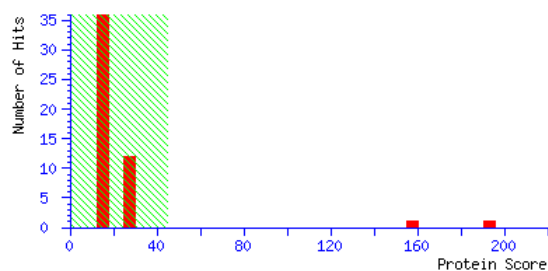
K.ELAAQPDVDGFLVGGASLKPEFIDIK.S

Calculated Mr: **27472**

Calculated pI: **6.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MGRKFFVGGN WKCNGTTEEV NKIVSTLNAG EVPSQDVVEV VVSPPEVFLP
51 LVKTSLRPDF HVAAQNCWVK KGGAFTGEVS AEMLVNLSIP WVIIGHSERR
101 LILKESNEFV ADKVAYALAQ GLKVIACIGE TLEQREAGST VAVVAEQTKA
151 IAAKISNWID VVLAYEPVWA IGTGKVATPA QAQEVHCELR KWLQANVSPE
201 VAASTRIIYG GSVTAANCE LAAQPDVDGF LVGGASLKPE FIDIKSAEV
251 KKNA
```

Spot No.: 103

NCBI accession No.: gi|38122474 Species: *Hevea Brasiliensis*

Protein name: rubber elongation factor

PMF score: 125

Sequence coverage %: 68

Matched peptides No.: 11

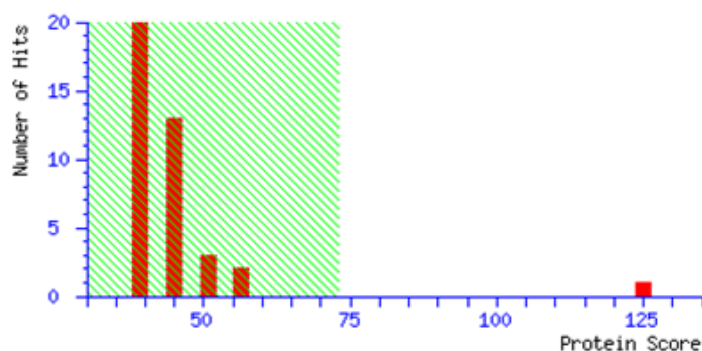
Total peptides No.: 50

Calculated Mr: 19570

Calculated pI: 5.06

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 73 are significant ($p < 0.05$).



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

1 MAEGEEEVNI QEEANKGEEN PQEEANIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKPAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG

Spot No.: 104

NCBI accession No.: gi|3451147 Species: *Hevea Brasiliensis*

Protein name: chitinase

PMF score: 135

Sequence coverage %: 66

Matched peptides No.: 19

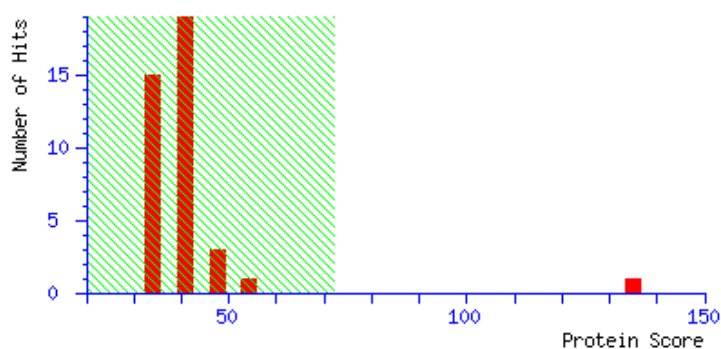
Total peptides No.: 77

Calculated Mr: 34138

Calculated pI: 8.72

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 73 are significant ($p < 0.05$).



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

```
1  MAKRTQAILL  LLLAISLIMS  SSHVDGGGIA  IYWGQNGNEG  TLTQTCSTRK
51  YSYVNIAFLN  KFGNGQTPQI  NLAGHCNPAA  GGCTIVSNGI  RSCQIQGIKV
101  MLSLGGGIGS  YTLASQADAK  NVADYLWNNF  LGGKSSSRPL  GDAVLDGIDF
151  DIEHGSTLYW  DDLARYLSAY  SKQGKRVYLT  AAPQCFFPDR  YLGTALNTGL
201  FDYVWVQFYN  NPPCQYSSGN  INNIINSWNR  WTTSINAGKI  FLGLPAAPEA
251  AGSGYVPPDV  LISRILPEIK  KSPKYGGVML  WSKFYDDKNG  YSSSIRDSVL
301  FLHSEKMTV  L
```


Spot No.:105

NCBI accession No.: [gij157831407](#) Species: *Hevea brasiliensis*

Protein name: [Chain A, Crystal Structures Of Hevamine](#)

PMF score: 93

Sequence coverage %:51

Matched peptides No.: 13

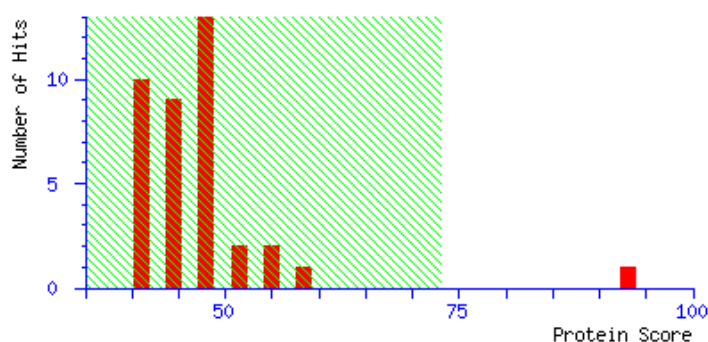
Total peptides No.: 76

Calculated Mr: 29874

Calculated pI: 8.44

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 73 are significant ($p < 0.05$).



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

```
1  GGIAIYWGQN  GNEGTLTQTC  STRKYSYVNI  AFLNKFGNGQ  TPQINLAGHC
51  NPAAGGCTIV  SNGIRSCQIQ  GIKVMSLGG  GIGSYTLASQ  ADARNVADYL
101 WNNFLGGKSS  SRPLGDAVLD  GIDFDIEHGS  TLYWDDLARY  LSAYSKQGKK
151 VYLTAAPQCP  FPDRYLGTAL  NTGLFDYVWV  QFYNNPPCQY  SSGNINNIIN
201  SWNRWTTTIN  AGKIFLGLPA  APEAAGSGYV  PPDVLSRIL  PEIKKSPKYG
251 GVMLWSKFYD  DKNGYSSSIL  DSV
```

Spot No.:106

NCBI accession No.: [gij157831407](#) Species: *Hevea brasiliensis*

Protein name: Chain A, Crystal Structures Of Hevamine

PMF score: 99

Sequence coverage %:42

Matched peptides No.: 12

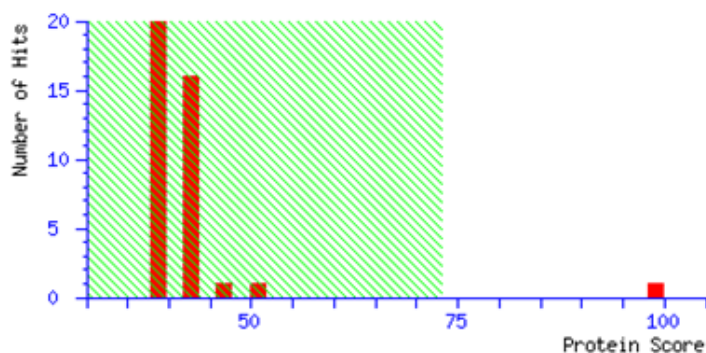
Total peptides No.: 47

Calculated Mr: 29874

Calculated pI: 8.44

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 73 are significant ($p < 0.05$).



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

```
1  GGIAIYWGQN  GNEGTLTQTC  STRKYSYVNI  AFLNKFGNGQ  TPQINLAGHC
51  NPAAGGCTIV  SNGIRSCQIQ  GIKVMLSLGG  GIGSYTLASQ  ADAKNVADYL
101 WNNFLGGKSS  SRPLGDAVLD  GIDFDIHGS  TLYWDDLARY  LSAYSKQGKK
151 VYLTAAPQCP  FPDRYLGTAL  NTGLFDYVWV  QFYNNPPCQY  SSGNINNIIN
201 SWNRWTTSIN  AGKIFLGLPA  APEAAGSGYV  PPDVLISRIL  PEIKKSPKYG
251 GVMLWSKFYD  DKNGYSSSIL  DSV
```

Spot No.:107

NCBI accession No.: [gi|3451147](#) Species: *Hevea Brasiliensis*

Protein name: [chitinase](#)

PMF score: **83**

Sequence coverage %: **48**

Matched peptides No.: **12**

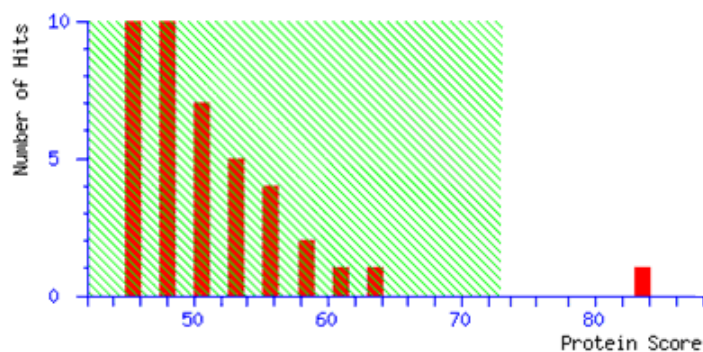
Total peptides No.: **81**

Calculated Mr: **34138**

Calculated pI: **8.72**

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 73 are significant ($p < 0.05$).



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

```
1  MAKRTQAILL  LLLAISLIMS  SSHVDGGGIA  IYWGQNGNEG  TLTQTCSTRK
51  YSYVNIAFLN  KFGNGQTPQI  NLAGHCNPAA  GGCTIVSNGI  RSCQIQGIKV
101 MLSLGGGIGS  YTLASQADAK  NVADYLWNNF  LGGKSSSRPL  GDAVLGDIDF
151 DIEHGSTLYW  DDLARYLSAY  SKQGKRVYLT  AAPQCPFDR   YLGALNTGL
201 FDYVWVQFYN  NPPCQYSSGN  INNIINSWNR  WTTSINAGKI  FLGLPAAPEA
251 AGSGYVPPDV  LISRILPEIK  KSPKYGGVML  WSKFYDDRNG  YSSSIRDSVL
301 FLHSEKMTV  L
```

Spot No.: **108**

NCBI accession No.: **gi|2493895** Species: *Citrullus lanatus*

PFF score: **[89]**

Protein name: **cysteine synthase**

Matched peptides No.: **[1]** Sequence coverage %: **[]**

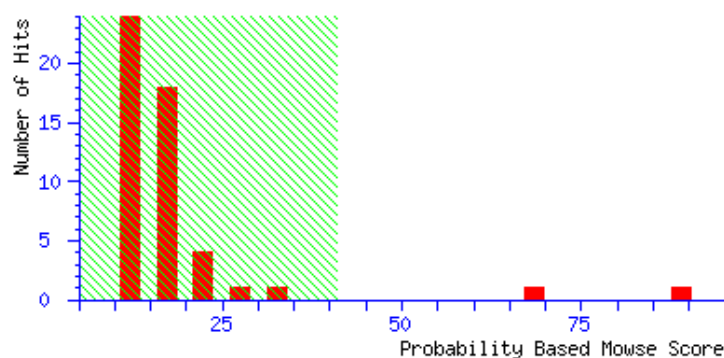
Matched sequences: **K.EGLLVGISSGAAAAAIR.I**

Calculated Mr: **34495**

Calculated pI: **6.26**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 41 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MADAKSTIAK DVTELIGHTP LVYLNRVVDG CVARVAAKLE MMEPCSSVKD RIGYSMISDA
61 ENKGLITPGE SVLIEPTSGN TGIGLAFIAA AKGYRLIICM PASMSLEERT ILRAFGAELV
121 LTDPARGMKG AVQKAEEIKA KTPNSYILQQ FENPANPKIH YETTGPDIWR GSGGKIDALV
181 SGIGTGGTVT GAGKYLKEQN PNIKLYGVEP VESAILSGGK PGPHKIQQIG AGFIPGVLDV
241 NLLDEVIQVS SEESIETAKL LALKEGLLVG ISSGAAAAAA IRIAKRPENA GKLVAVFPPS
301 FGERYLSTVL FESVKRETN MVFEP
```

Spot No.: **109**

NCBI accession No.: [gi|114199044](#) Species: *Malus x domestica*

PFF score: **[163]**

Protein name: [caffeic acid O-methyltransferase](#)

Matched peptides No.: **[2]** Sequence coverage %: **[13]**

Matched sequences: [R.TEKEFEALAK.G](#);

[K.AYGMTAFEYHGTDPR.F](#);

[K.AYGMTAFEYHGTDPR.F + Oxidation \(M\)](#);

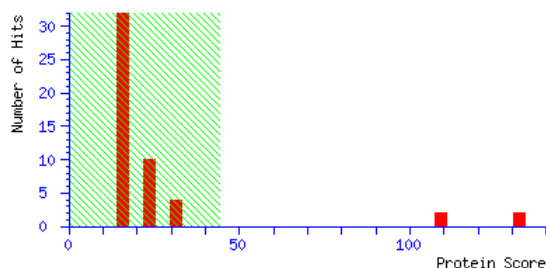
[K.WICHDWSDEHCLK.F](#)

Calculated Mr: **39811**

Calculated pI: **5.39**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGSTSESQSN  SLTHTDEEAF  LFAMQLCSAS  VLPMLKSAV  ELDLLELMAK
51  AGPGAAISPS  ELAAQLSTQN  PEAPVMLDRM  LRLLASYSVL  NCTLRLPDS
101 SVERLYSLAP  VCKYLTKNAD  GVSVAPLLLM  NQDKVLMESW  YHLKDAVLDG
151 GIPFNKAYGM  TAFEYHGTDP  RFNKVFNRGM  SDHSTMSMKK  ILEDYKGFEG
201 LNSIVDVGGG  TGATVNMIVS  KYPSIKGINF  DLPHVIGDAP  TYPGVEHVGG
251 DMFASVPKAD  AIFMKWICHD  WSDEHCLKFL  KNCYEALPAN  GKVIIAECIL
301 PEAPDTSLAT  KNTVHVDIVM  LAHNPPGKER  TEKEFEALAK  GAGFTGFARL
351 VALTTLGSWN  STSN
```

Spot No.: 110

NCBI accession No.: [gi|14423688](#)

Species: *Hevea brasiliensis*

Protein name: [Enolase 1](#)

PMF score: 158

Sequence coverage %: 53

Matched peptides No.: 18

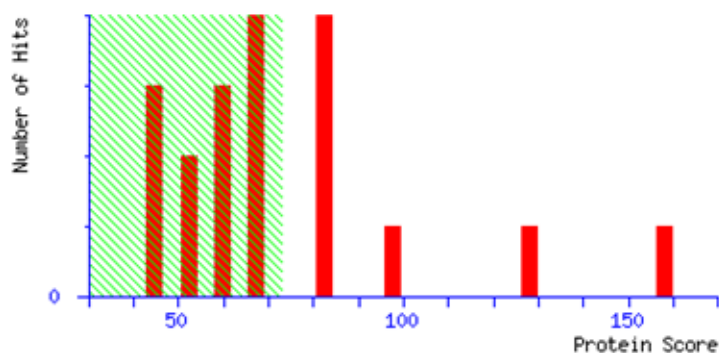
Total peptides No.: 56

Calculated Mr: 48028

Calculated pI: 5.57

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 73 are significant ($p < 0.05$).



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

```
1 MAITIVSVRA RQIFDSRGNP TVEADVKLSD GYLARAAVPS GASTGIYEAL
51 ELRDGGSDYL GKGVSKAVEN VNIIIGPALV GKDPTDQVGI DNFMVQQLDG
101 TVNEWGWCKQ KLGANAILAV SLAVCKAGAH VKGIPLYEHI ANLAGNKNLV
151 LPVPAFNVIN GGSHAGNKLA MQEFMILPVG ASSFKEAMKM GAEVYHHLKS
201 VIKKKYGQDA TNVGDEGGFA PNIQENKEGL ELLKTAIAKA GYTGKVVIGM
251 DVAASEFYGS DQTYDLNFKE ENNGSQKIS GEALKDLYKS FVAEYPIVSI
301 EDPFDQDDWA HYAKLTSEIG EKVQIVGDDL LVTNPKRVEK AIKEKACNAL
351 LLKVNQIGSV TESIEAVKMS KRAGWGMAS HRSGETEDTF IADLSVGLAT
401 GQIKTGAPCR SERLAKYNQL LRIEEELGSE AVYAGANFRK PVEPY
```

Spot No.: 111

NCBI accession No.: [gi|14423688](#)

Species: *Hevea brasiliensis*

Protein name: [Enolase 1](#)

PMF score: 175

Sequence coverage %: 59

Matched peptides No.: 25

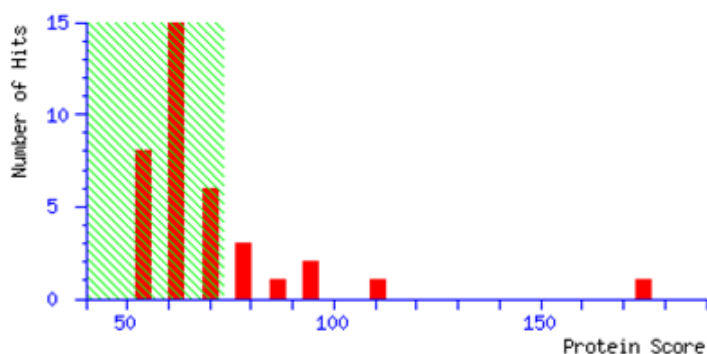
Total peptides No.: 76

Calculated Mr: 48028

Calculated pI: 5.57

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 73 are significant ($p < 0.05$).



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

```
1  MAITIVSVRA  RQIFDSRGNP  TVEADVKLSD  GYLARAAVPS  GASTGIYEAL
51  ELRDGGSDDL  GKGVS KAVEN  VNIIIGPALV  GKDPTDQVGI  DNFMVQQLDG
101 TVNEGWCKQ  KLGANAILAV  SLAVCKAGAH  VKGIPLYEHI  ANLAGNKNLV
151 LPVPAFNVIN  GGSHAGNKLA  MQEFMILPVG  ASSFKRAMKM  GAEVYHHLKS
201 VIKKRYGQDA  TNVGDEGGFA  PNIQENKEGL  ELLKTAIAKA  GYTGVVIGM
251 DVAASEFYGS  DQTYDLNFKE  ENNNGSQKIS  GEALKDLYKS  FVAEYPIVSI
301 EDPFDQDDWA  HYAKLTSEIG  EKVQIVGDDL  LVTNPKRVEK  AIKEKACNAL
351 LLKVNQIGSV  TESIEAVKMS  KRAGWGMAS  HRSGETEDTF  IADLSVGLAT
401 GQIKTGAPCR  SERLAKYNQL  LRIIEELGSE  AVYAGANFRK  PVEPY
```


Spot No.: 112

NCBI accession No.: [gi|226897734](#) Species: *Thalictrum flavum*

Protein name: [norcoclaurine 6-O-methyltransferase](#)

PMF score: 85

Sequence coverage %: 45

Matched peptides No.:9

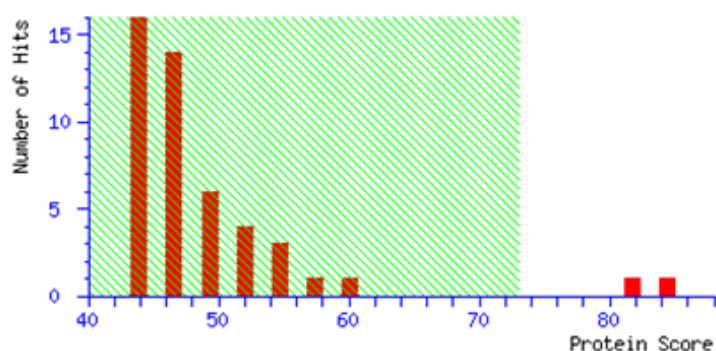
Total peptides No.:100

Calculated Mr: 25178

Calculated pI:6.05

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 73 are significant ($p < 0.05$).



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

```
1  MEMINKENLS  SQAKLWNFIY  GFADSLVLKS  AVQLDLANII  HNHGSPMTLS
51  ELSLHLPSQP  VNQDALYRVL  RYLVHMKLFT  KSSIDGELRY  GLAPPAKFLV
101 KGWDKCMLGA  ILTITDKDFM  APWHYLKEGI  LNDGSTSTAF  EKALGTNIWD
151 YMAEHPEKNQ  LFNEGMANDT  RLIMSALVKE  CSSMFDGITT  IVDVGGGTGT
201 AVRNIAKAFP  HIKCTVYDLP  HVIAD
```


Spot No.: **113**

NCBI accession No.: **gi|255565071** Species: *Ricinus communis*

PFF score: **[51]**

Protein name: **conserved hypothetical protein**

Matched peptides No.: **[2]** Sequence coverage %: **[2]**

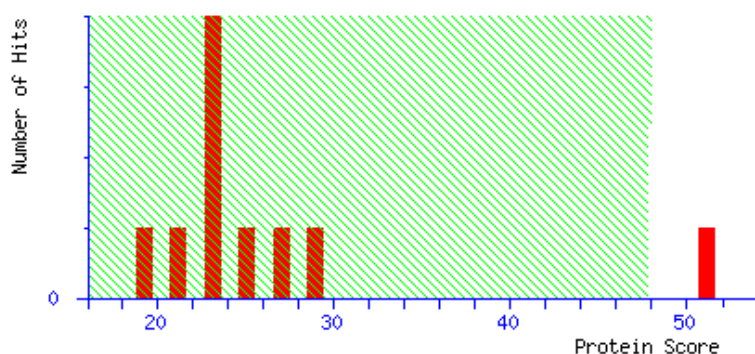
Matched sequences: **R.LQVEELVFER.S; R.LQVEELVFER.S**

Calculated Mr: **54103**

Calculated pI: **5.53**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAPMLPKSVA  IRSEFSRGYA  YYMAENEAVR  GFIRCEGENI  LNPYVKIEVE
51  TAQIDSKFVH  LRFSHNKYW  GRSGPGFTQD  DYWVSATSDQ  PEEDTSKWSC
101  TLFEPIFDHG  FLFLRHVQTG  GRVRTDGPIG  ATGPVSRLLL  YFRNYDNVPY
151  LDFTFFDLGT  LCILPKRVAF  RGYNDMYLKA  EWIERHEYLQ  FSSDDVNEKA
201  AGYEITMMPD  GHVRLRSNFF  NKFWRRSPNW  IWADSTDTVG  SDRDTLFWPV
251  KVNDDTIALR  NAGNNRFCSS  LTAERKTDCL  NAAVATITRE  ARLQVEELVF
301  ERSSIFNVRFL  MEYARIFDER  ATVAGWGSAA  NQSEEAATLS  ITVGYEDTTS
351  FTFSNSLAIT  AGVTVGITTG  LPRIAEGKIE  ISTEVINTLE  WNRTTSETRT
401  ASATYLANVP  ARSRIRIDYV  ATRGTCNIPF  SYTQRDRLSH  DGSFATTQHV
451  DGVYTGVNYY  SFHFEQPQIV  PL
```

Spot No.: **114**

NCBI accession No.: **gi|1346735** Species: *Ricinus communis*

PFF score: **[96]**

Protein name: **2,3-bisphosphoglycerate-independent
phosphoglycerate mutase**

Matched peptides No.: **[1]** Sequence coverage %: **[2]**

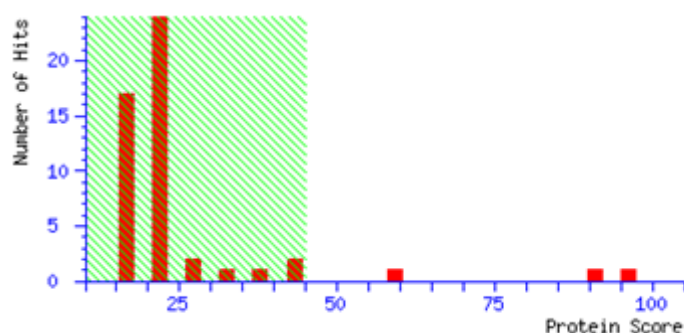
Matched sequences: **K.LPSHYLVSPPEIER.T**

Calculated Mr: **57374**

Calculated pI: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.
Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).
Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  GEFTWKLADH  PKLPRGKTIA  MVVLDGWGEA  KPDQYNCIHV  AETPTMDSFK
51  KTAPERWRLI  KAHGTAVGLP  TEDDMGNSEV  GHNALGAGRI  YAQGAKLVDL
101 ALASGKIYEG  EGFKYVKECF  DKGTLHLIGL  LSDGGVHSRL  DQLQLLLKGA
151 AEHGAKRIRV  HVLTDRDVI  DGTSVGFAET  LEKDLENLRE  KGVDAQVASG
201 GGRMYVTMDR  YENDWNVVKR  GWDAQVLGEA  PYKFKSAVEA  IKKLREEPKA
251 NDQYLPPFVI  VDENGKPVGP  IVDGDAVVTI  NFRADRMVML  AKALEYENFD
301 TFDVRVFPKI  HYAGMLQYDG  ELKLPSHYLV SPPEIERTTSG  EYLVHNGVHT
351 FACSETVKFG  HVTFFWNGNR  SGYFNPEMEE  YVEIPSDVGI  TFNVQPKMKA
401 IEIAEKARDA  ILSGKFQQVR  VNIPNGDMVG  HTGDVEATVV  GCKAADEAVK
451 MIIDAIEQVG  GIYVVTADHG  NAEDMVKRDK  SGKPMADKSG  KIQILTSHTL
501 QVPVIAIGGP  GLTPGVRFRS  DIPTGGLANV  AATVMNLHGF  EAPSDYEPTL
551 IEAVDN
```

Spot No.: 115

NCBI accession No.: [gi|255565836](#) Species: *Ricinus communis*

Protein name: eukaryotic translation elongation factor, putative

PMF score: 141

Sequence coverage %: 40

Matched peptides No.:36

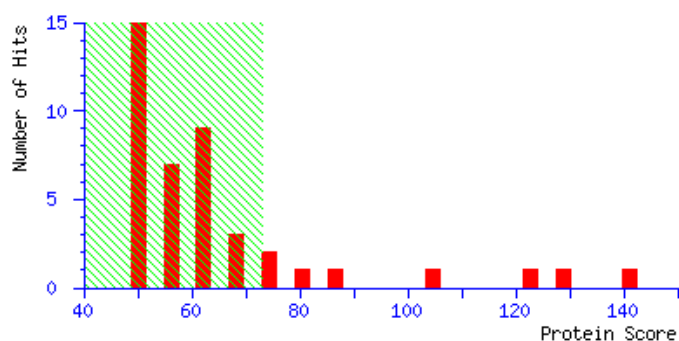
Total peptides No.:121

Calculated Mr: 94981

Calculated pI:5.87

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 73 are significant ($p < 0.05$).



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

```
1  MVKFTAEELR  RIMDYKHNIR  NMSVIAHVDH  GKSTLTDSLV  AAAGIIAQEV
51  AGDVRMTDTR  QDEAERGITI  KSTGISLYYE  MTDEALKSFK  GERQGNEYLI
101 NLIDSPGHVD  FSSEVTAALR  ITDGALVVVD  CIEGVCVQTE  TVLRQALGER
151 IRPVLTVNKM  DRCFLELQVD  GEEAYQTFSR  VIENANVIMA  TYEDPLLGDC
201 QVYPEKGTVA  FSAGLHGWAF  TLTNFARMYA  SKFGVDESKM  MERLWGENFF
251 DPATKKWTSK  NTGSPTCKRG  FVQFCYEPIK  QIINTCMNDQ  KDKLWPMLQK
301 LGVTMKSDEK  ELMGKALMKR  VMQTWLPASS  ALLEMMIFHL  PSPAKAQRYR
351 VENLYEGPLD  DPYATAIRNC  DPEGPLMLYV  SKMIPASDKG  RFFAFGRVFA
401 GKVSTGLKVR  IMGPNYVPGE  KKDLYVKSVQ  RTVIWMGRKQ  ETVEDVPCGN
451 TVALVGLDQF  ITKNATLTNE  KEVDAHPIRA  MKFSVSPVVR  VAVQCKVASD
501 LPKLVEGLKR  LAKSDPMVVC  TIEESGEHII  AGAGELHLEI  CLKDLQDDFM
551 GGAEIIKSDP  VVSFRETVLE  KSCRVMSKS  PNKHNRLYME  ARPMEEGLAE
601 AIDEGRIGPR  DDPKARAKIL  SEEFGWDKDL  AKKIWCFGPE  TTGPNMVVDM
651 CKGVQYLNEI  KDSVVAGFQW  ASKEGALAEE  NMRGICFEVC  DVVLHADAIH
701 RGGGQVIPTA  RRVIYASQLT  AKPRLLEPVY  LVEIQAPEQA  LGGIYSVLNQ
751 KRGHVFEELQ  RPGTPLYNIK  AYLPVIESFG  FSGTLRAATS  GQAFPQCVFD
801 HWDMMSSDPM  EPGSQAANLV  TEIRKRRGLK  EQMTPLSEFE  DKL
```

Spot No.: **116**

NCBI accession No.: **gi|6707018** Species: *Hevea brasiliensis*

Protein name: latex protein allergen Hev b 7

PMF score: **147**

Sequence coverage %: **64**

Matched peptides No.: **17**

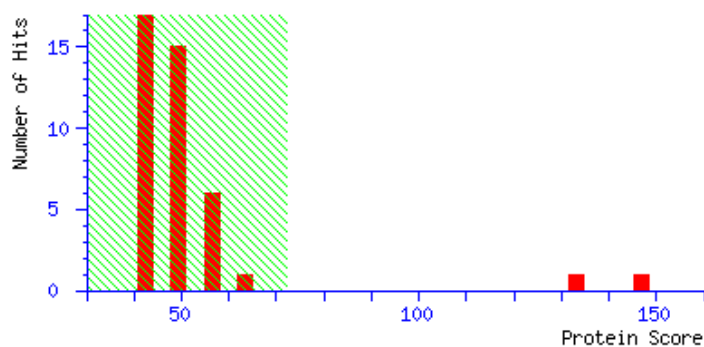
Total peptides No.: **60**

Calculated Mr: **43107**

Calculated pI: **5.00**

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 73 are significant ($p < 0.05$).



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

```
1  MAIGSTPLTQ  GKKITVLSID  GGGIRGIIPG  IILASLESKL  QDLDGPDARI
51  ADYFDIIAGT  STGGLITTML  TAPNEDKKPM  YQAKDIKDFY  LENCPKIFPK
101 ESRDNYDPIH  SIGPIYDGEY  LRELCNNLLK  DLTVKDTLTD  VIIPTFDIKL
151 LLPVIFSSDD  AKCNALKNAR  LADVCISTSA  APVLLPAHSF  TTEDDKNIHT
201 FELIDGGVAA  TNPTLLALTH  IRNEIIRQNP  RFIGANLTES  KSRLVLSLGT
251 GKSEYKEKYN  ADMTSKWRLY  NWALYNGNSP  AVDIFSNASS  DMVDFHLSAL
301 FKSLDCEDYY  LRIQDDTLTG  EESSGHIATE  ENLQRLVEIG  TELLEKQESR
351 INLDTGRLES  IPGAPTNEAA  IAKFAKLLSE  ERKLRQLK
```

Spot No.: 117

NCBI accession No.: [gi|51315784](#) Species: *Hevea brasiliensis*

PFF score: [59]

Protein name: Esterase

Matched peptides No.: [1]

Sequence coverage %: [4]

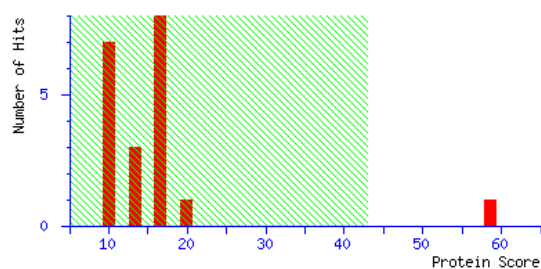
Matched sequences: [K.AAAFYPLNPPYGETFFHR.S](#)

Calculated Mr: 43871

Calculated pI: 5.00

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEFPETNNNP  IITLSFLLCM  LSLAYASETC  DFPALFNFGD  SNSDTGGKAA
51  AFYPLNPPYG ETFFHRSTGR  YSDGRLIIDF  IAESFNLPYL  SPYLSSLGSN
101 FKHGADFATA  GSTIKLPITI  IPAHGGFSPF  YLDVQYSQFR  QFIPRSQFIR
151 ETGGIFAELV  PEEYYFEKAL  YTFDIGQNDL  TEGFLNLTVE  EVNATVPDLV
201 NSFSANVKKI  YDLGARTFWI  HNTGPIGCLS  FILTYFPWAE  KDSAGCAKAY
251 NEVAQHFNHK  LKEIVAQLRK  DLPLATFVHV  DIYSVKYSLF  SEPEKHGFEE
301 PLITCCGYGG  KYNFSVTAPC  GDTVTADDGT  KIVVGSCACP  SVRVNWDGAH
351 YTEAANEYFF  DQISTGAFSD  PPVPLNMACH  KTESLRTLAS  V
```

Spot No.: 118

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

Protein name: rubber elongation factor

PMF score: 98

Sequence coverage %: 57

Matched peptides No.: 9

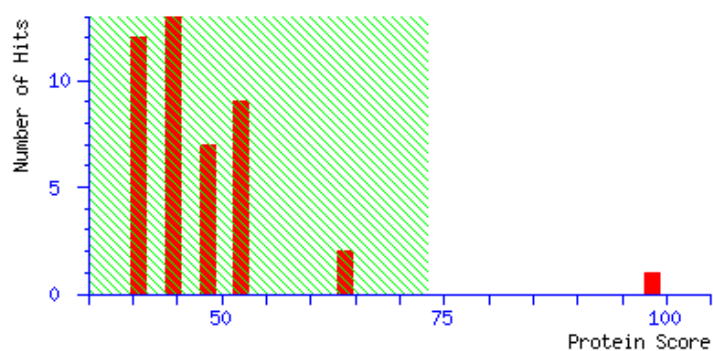
Total peptides No.: 44

Calculated Mr: 19570

Calculated pl: 5.06

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 73 are significant ($p < 0.05$).



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

```
1 MAEGEEEVNI QEEANKGEEN PQEENIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAE
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: 119

NCBI accession No.: [gi|3023685](#) Species: *Alnus glutinosa*

PFF score: [51]

Protein name: **Enolase; AltName: Full=2-phospho-D-glycerate hydro-lyase; AltName: Full=2-phosphoglycerate dehydratase**

Matched peptides No.: [1] Sequence coverage %: [3]

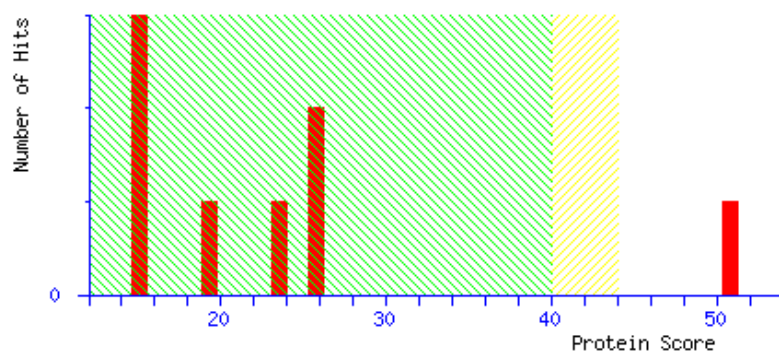
Matched sequences: **R.IEEELGSEAVYAGANFR.T**

Calculated Mr: 47796

Calculated pI: 5.41

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 40 indicate peptides with significant homology. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEITHIKAR QIFDSRGNPT VEA EVTTANG VVSRAAVPSG ASTGVYEALE
51 LRDGGS DYLG KGV LKAVDNV NKIIGPALIG KDATEQTAID IDFMFQQLDG
101 TVNEGWCKQ KLGANAILAV SLAVCKAGAS VKKIPLYKHI ANLAGNPKLV
151 LPVPAFNVIN GGSHAGNKLA MQEFMILPVG ASSFKEAMKM GVEVYHHLKA
201 VIKKKYQDA TNVGDEGGFA PNIQENKEGL ELLKTAIAKA GYV VIGMDVA
251 ASEFYEKDKD ITNFKEENND GSQKISADQL KDLYKSFVDE YPIVSIEDPF
301 DQDDWEHYSK LTAEIGEKVQ IVGDDLLVTN PKRVEKAIKE KACNALLLV
351 NQIGSVTESI EAVKMSKRAG WGVMAHRSGE TEDTFIADLS VGLATGQIKT
401 GAPCRSERLA KYNQLLRIEE ELGSEAVYAG ANFRTPVEPY
```


Spot No.: 120

NCBI accession No.: [gi|351723039](#) Species: *Glycine max*

Protein name: [uncharacterized protein LOC100305754 precursor](#)

PMF score: **81**

Sequence coverage %: **51**

Matched peptides No.: **8**

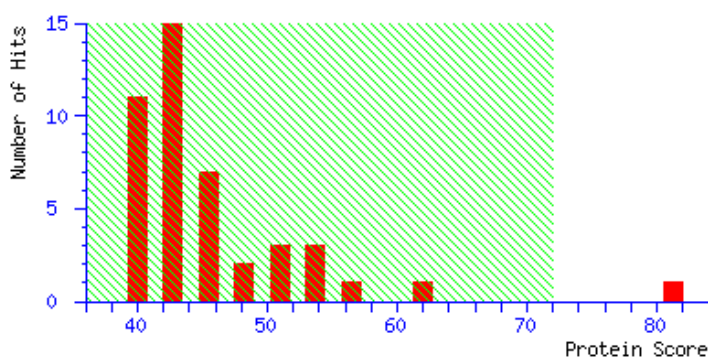
Total peptides No.: **28**

Calculated Mr: **21968**

Calculated pI: **4.83**

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 73 are significant ($p < 0.05$).



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

1 **MSMRSIGTSL** **SLMVWLVIAT** **SALAKSDNPP** **VLDIQGNPLE** **PGKDYYIKPA**
51 **ITDVGGRVTL** **LSRNNPCPLY** **VGQENSDAAE** **GLPLFFTPFA** **EEDDVVKVNR**
101 **DFKLTFSAA** **ICVQGINWNL** **AEKDS**ES**GRR** **LIAASGRDDY** **FRITETPIKG**
151 **SYIIGWCPTD** **VCPFCRFDCG** **IVGGLRENGK** **ILLALDGNVL** **PVVFEKAY**

Spot No.: **121**

NCBI accession No.: **gi| 255554865** Species: *Ricinus communis*

PFF score: **[55]**

Protein name: **lactoylglutathione lyase, putative**

Matched peptides No.: **[1]**

Sequence coverage %: **[3]**

Matched sequences: **K.FYTECFGMK.L**

Calculated Mr: **31641**

Calculated pI: **7.63**

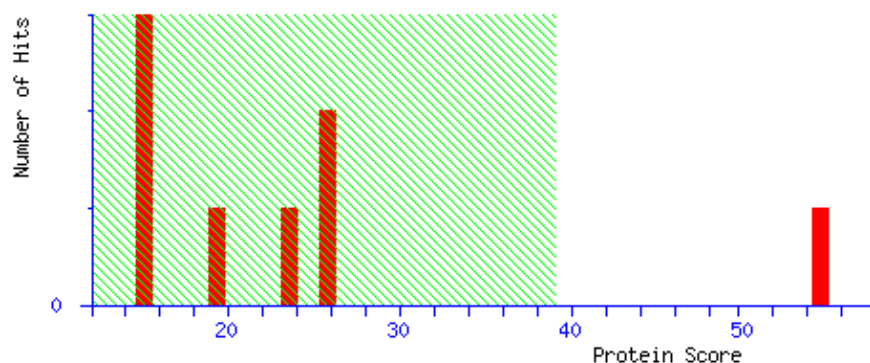
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 40 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAAEATAPNA  DVLEWPKKDK  RRLHAVYRV  GDLDRTIKFY TECFGMKLLR
51  KRDIPEEKYS  NAFLGFGPEE  TNFVVELTYN  YGVTSYDIGT  GFGHFATQ
101 DVYKLVVEVL  AKGGAVTREP  GPVKGGTTVI  AFVKDPDGYI  FELIQRGPTP
151 EPLCQVMLRV  GDLDRSIRFY  EKALGMKLLR  KVDKPEYKYT  LAMMGYADEY
201 ETTVLELTYN  YGVTEYTKGN  AYAQVAISTD  DVYKSAEVVN  LVTQELGGKI
251 TRQPGPIPGL  NTKITSFLDP  DGWKTKRKRR
```

Spot No.: **122**

NCBI accession No.: **gi|118485535** Species: *Populus trichocarpa*

PFF score: **[83]**

Protein name: **unknown**

Matched peptides No.: **[1]**

Sequence coverage %: **[8]**

Matched sequences: **K.VATPAQAQEVHLELR.K**

Calculated Mr: **18429**

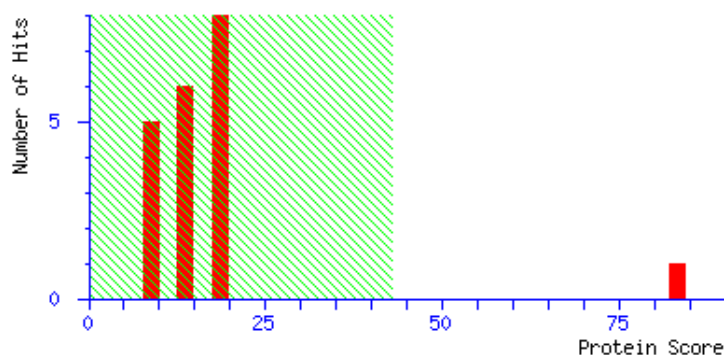
Calculated pI: **5.59**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLVNLGIPWV ILGHSERRSL LNESNEFVGD KVAYALSLGL KVIACVGETL
51 QQRESGSTMA VVAAQTKAIA ANVSYWDNVV MAYEPVWAIG TGKVATPAQA
101 QEVHLELRKW FHDNVGAEVA ASTRIIYGGV VNGANCKELA GQPDVDGFLV
151 GGASLKPEFI DIIKSATVKS QL
```

Spot No.: **123**

NCBI accession No.: **gi|15225839** Species: *Arabidopsis thaliana*

Protein name: **endopeptidase/ peptidase/ threonine-type**

endopeptidase

PMF Mascot score: **86**

Sequence coverage %: **40**

Matched peptides No.: **14**

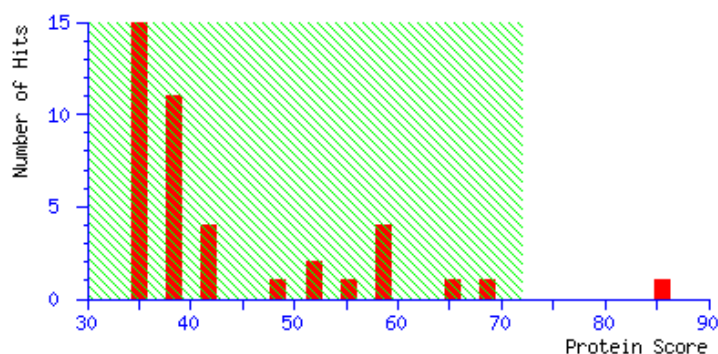
Total peptides No.: **56**

Calculated Mr: **27645**

Calculated pI: **5.93**

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 73 are significant ($p < 0.05$).



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

```
1  MSSIGTGYDL  SVTTFSPDGR  VFQIEYAAKA  VDNSGTVVGI  KCKDGIVMGV
51  EKLIASKMML  PGSNRRHSV  HRHAGMAVAG  LAADGRQIVA  RAKSEARSYE
101 SVYGDVFPVK  ELSERVASYV  HLCTLYWWLR  PFGCGVILGG  YDRDGPQLYM
151 IEPSGISYRY  FGAAIGKQKQ  AAKTEIEKLN  LSEMTCKEGV  IEVAKI IYKL
201 HDEAKDKAFE  LEMSWICEES  KREHQKVPDD  LLEEAKTAAK  TALEEMDAD
```

Spot No.: **124**

NCBI accession No.: **gi| 10862818** Species: *Hevea brasiliensis*

Protein name: **IgE-binding protein Mn SOD**

PMF Mascot score: **81**

Sequence coverage %: **37**

Matched peptides No.: **5**

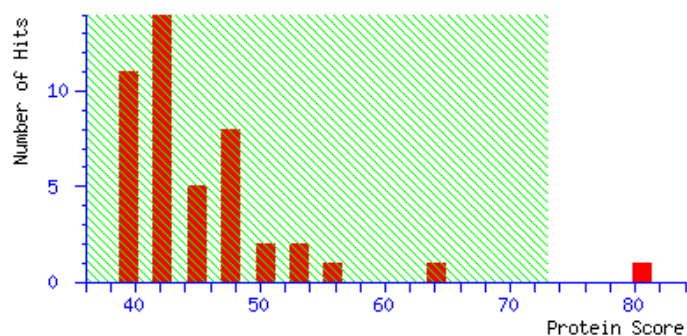
Total peptides No.: **8**

Calculated Mr: **22958**

Calculated pI: **6.06**

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 73 are significant ($p < 0.05$).



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

```
1  QTFSLPDLPY  DYGALEPAIS  GEIMQLHHQK  HHQTYITNYN  KALEQLNDAI
51  EKGDSAADVVK  LQSAIKFNGG  GHVNHSIFWK  NLAPVREGGG  ELPHGSLGWA
101 IDADFGSLEK  LIQLMNAEGA  ALRGSGVWVL  ALDKELKRLV  VETTANQDPL
151 VTKGPTLVPL  LGIDVWEHAY  YLQYKNVRPD  YLRNIWKVMN  WKYASEVYAK
201  ECPSS
```

Spot No.: 125

NCBI accession No.: [gi|1170781](#) Species: *Glycine max*

PFF score: [51]

Protein name: [Glutathione S-transferase 3](#)

Matched peptides No.: [1] Sequence coverage %: [5]

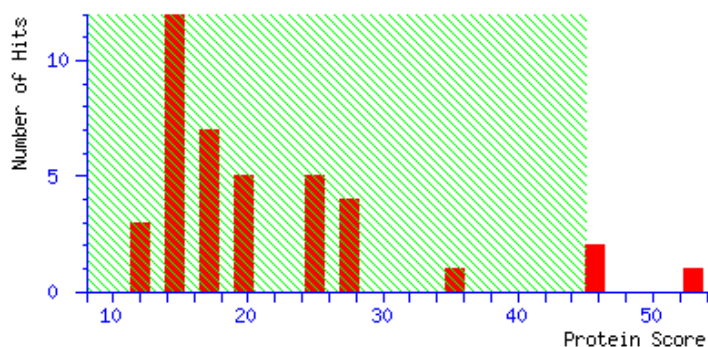
Matched sequences: [K.SPLMPSDPYKR.S+Oxidation \(M\)](#)

Calculated Mr: 26112

Calculated pI: 5.58

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSDEVVLLDT WASMYGMRAR IALAEKGVRY EYKEENLMNR SPLLLQMNPI
51 HKKIPVLIHN GKPICESAI VQYIDEVWND KSPLMPSDPY KRSQARFWVD
101 YIDKKIYDTW KKMWLSKGEE HEEGKKELIS IFKQLEETLT DKPFYGD DTF
151 GFVDLCLITF SSWFYTYETY GNFKMEEECF KLMAWVKRCM ERETVSNTLP
201 DAKKVYGLIV ELQKTLESK
```

Spot No.: **126**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[97]**

Protein name: **small rubber particle protein**

Matched peptides No.: **[1]** Sequence coverage %: **[12]**

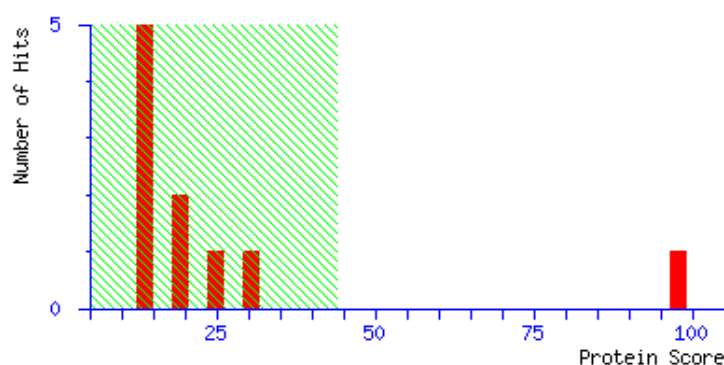
Matched sequences: **K.ENENFQQEANEQEEK.L**

Calculated Mr: **12769**

Calculated pI: **4.61**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 PLKPGVETIE GVAKTVVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```

Spot No.: 127

NCBI accession No.: [gi|2832430](#) Species: *Hevea brasiliensis*

PFF score: [84]

Protein name: prohevein

Matched peptides No.: [1]

Sequence coverage %: [10]

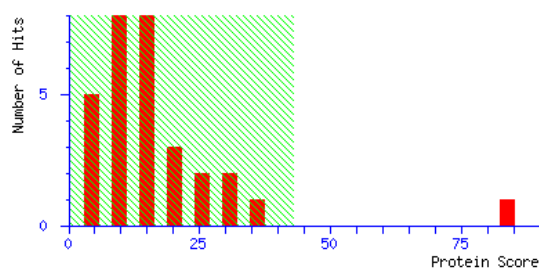
Matched sequences: [K.YGWTAFCGPVGAHGQPSCGK.C](#)

Calculated Mr: 20852

Calculated pI: 5.64

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```


Spot No.: **128**

NCBI accession No.: **gi|224054224** Species: *Populus trichocarpa*

PFF score: **[68]**

Protein name: **predicted protein**

Matched peptides No.: **[2]**

Sequence coverage %: **[12]**

Matched sequences: **R.AYVGD**RPTWR.N;

R.NPQHPWR.V

Calculated Mr: **15003**

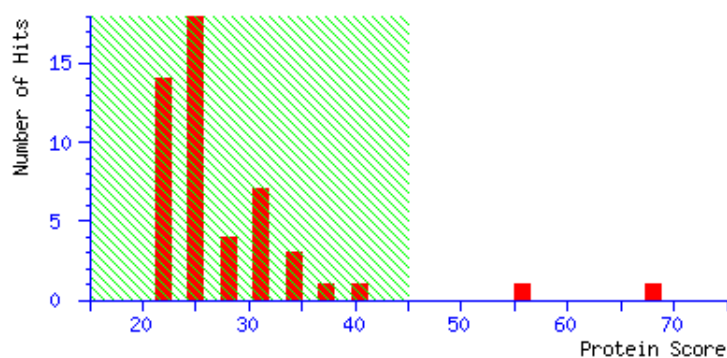
Calculated pI: **6.82**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTVKLVDATI  SSFGSVFEKF  KAEAPKNKVN  LILFLADNDP  STNLSWCPDC
51  VRAEPVILKK  LEALPDDVAL  LRAYVGDRPT  WRNPQHPWRV  DSRFKLKGVP
101 TLISWENDAV  KGRLEDYEAH  LEHKINALVS  GN
```

Spot No.: **129**

NCBI accession No.: **gi| 329750601** Species: *Hevea brasiliensis*

PFF score: **[61]**

Protein name: **thioredoxin H-type 2**

Matched peptides No.: **[2]**

Sequence coverage %: **[12]**

Matched sequences: **R.AYVGD**RPTWR.N;

R.NPQHPWR.V

Calculated Mr: **13295**

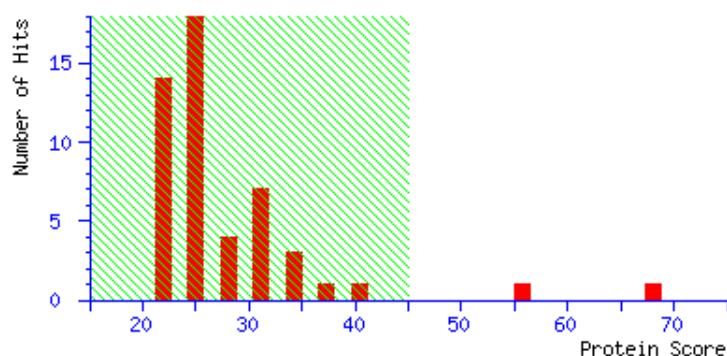
Calculated pI: **5.89**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTVKLVDATI  SSFGSVFEKF  KAEAPKNKVN  LILFLADNDP  STNLSWCPDC
51  VRAEPVILKK  LEALPDDVAL  LRAYVGDRPT  WRNPQHPWRV  DSRFKLKGVP
101 TLISWENDAV  KGRLEDYEAH  LEHKINALVS  GN
```

Spot No.: **130**

NCBI accession No.: **gi|268321205**

Plantspecies: ***Hevea brasiliensis*** Protein name: **latex cystatin**

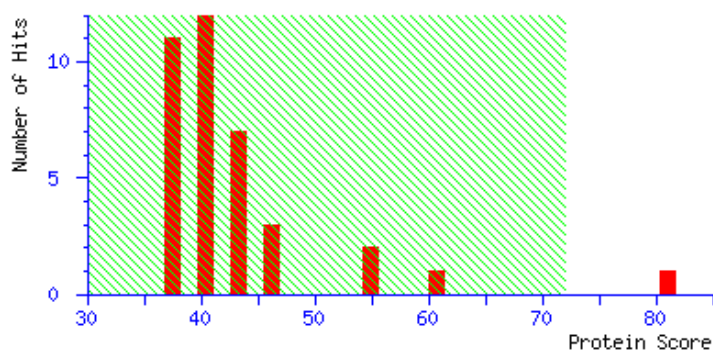
PMF score: **81** Sequence coverage %: **48**

Matched peptides No.: **6** Total peptides No.:**42**

Calculated Mr: **11248** Calculated pI: **5.45**

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 73 are significant ($p < 0.05$).



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

```
1 MAKLGGVKEV EGSANSVEIN SLARYAVDDY NQKQNALLEF KKVVNAKQQV  
51 VAGTIYYITL EVIDGGQKKV YEAKVWEKPW LNFKEVQEPK LIGDAPSDST  
101 A
```

Spot No.: **131**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[539]**

Protein name: **small rubber particle protein**

Matched peptides No.: **[5]** Sequence coverage %: **[39]**

Matched sequences: **K.DKSGPLQPGVDIIEGPVK.N;**

K.SGPLQPGVDIIEGPVK.N;

K.FVDSTVVASVTIIDR.S;

K.DASIQVVS AIR.A;

R.SLASSLPGQTK.I

Calculated Mr: **14713**

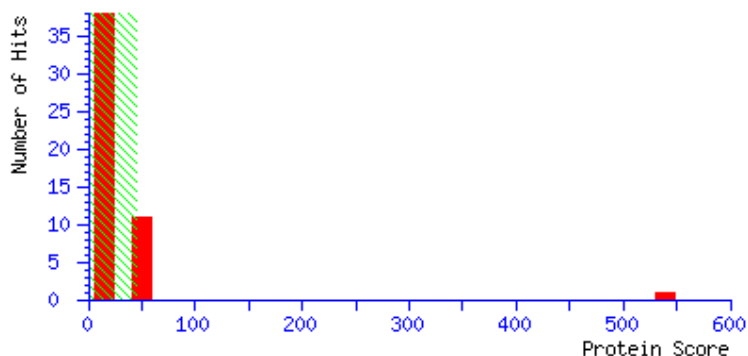
Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGKLYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVSAIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: 132

NCBI accession No.: [gi|132270](#) Species: *Hevea brasiliensis*

Protein name: **Rubber elongation factor protein**

PMF score: **138**

Sequence coverage %: **81**

Matched peptides No.: **10**

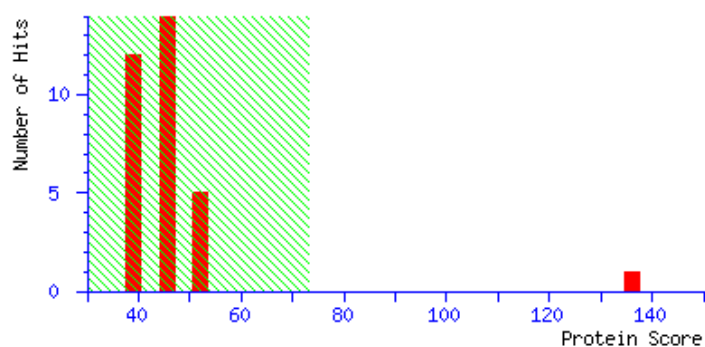
Total peptides No.: **28**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

```
1 MAEDEDNQQG QGEGLKYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV  
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD  
101 ASIQVVS AIR APEAARSLA SSLPGQTKIL AKV FYGEN
```

Spot No.: **133**

NCBI accession No.: **gi|242083244**

Plantspecies: ***Sorghum bicolor***

Protein name: **hypothetical protein SORBIDRAFT_08g008236**

PMF score: **81**

Sequence coverage %: **89**

Matched peptides No.: **7**

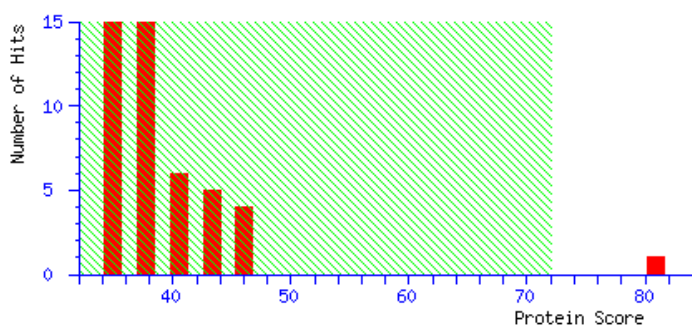
Total peptides No.: **33**

Calculated Mr: **8620**

Calculated pI: **6.4**

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 73 are significant ($p < 0.05$).



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

1 CVENIILSVL FWSKVQLCLR ASQPLLVALR IVDGDETPID PKIMVAMDVA
51 KAIIKESLKD KPILLNEVLK YYDNR

Spot No.: **134**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[85]**

Protein name: **small rubber particle protein**

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

Matched sequences: **R.AVDASFTTLQNIVPSVLK.Q**

Calculated Mr: **12769**

Calculated pI: **4.61**

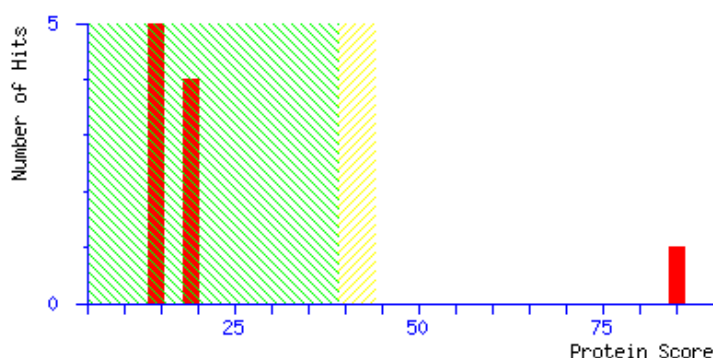
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 39 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 PLKPGVETIE GVAKTIVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```


Spot No.: **135**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[485]**

Protein name: **small rubber particle protein**

Matched peptides No.: **[4]** Sequence coverage %: **[53]**

Matched sequences: **K.ENENFQQEANEQEEK.L;**

K.DNSGPLKPGVETIEGVAK.T;

R.AVDASFTTLQNIVPSVLK.Q;

K.QLPTQACDTSVK.E

Calculated Mr: **12769**

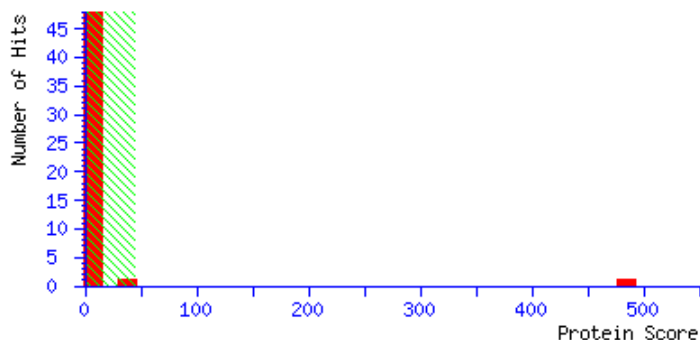
Calculated *pI*: **4.61**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAV TALS N IYLYAKDNSG
51 PLKPGVETIE GVAKTVVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```

Spot No.: 136

NCBI accession No.: [gi|354318](#) Species: *Triticum aestivum*

PFF score: [128] Protein name: [calmodulin](#)

Matched peptides No.: [1] Sequence coverage %: [10]

Matched sequences: [R.VFDKDQDGFISAAELR.H](#)

Calculated Mr: 16876

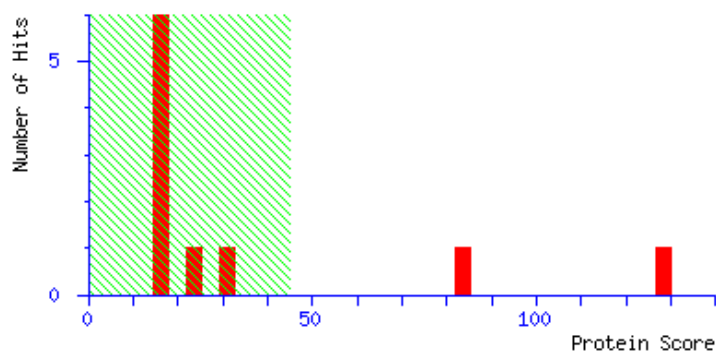
Calculated pI: 4.10

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 ADQLTDEQNI AEFKEAFSLF DKDGDGCITT KELGIVMRSL GQNPTEAELQ
51 DMINEVDADG NGTIDFPEFL NLMARKMKDT DSEEELKEAF RVFDKDQDGF
101 ISAAELRHVM TNLGEKLTDE EVDEMIREAD VDG DGQINYE EFVKVMMAK
```

Spot No.: 137

NCBI accession No.: [gi|14423933](#) Species: *Hevea brasiliensis*

Protein name: [Small rubber particle protein](#)

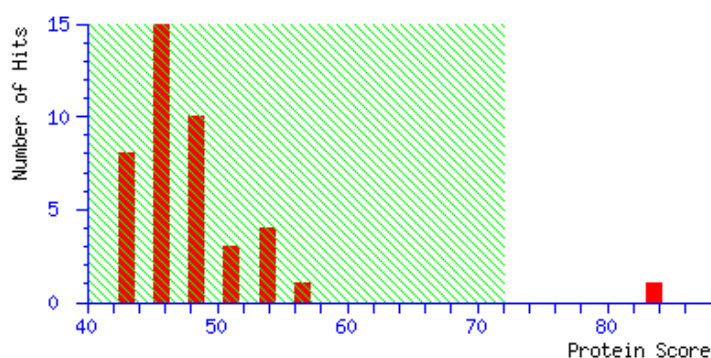
PMF score: **84** Sequence coverage %: **65**

Matched peptides No.: **9** Total peptides No.:**43**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYARDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVTS LDGVVPPVIK QVSAQTYSVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVFG
201 DEAS
```

Spot No.: 138

NCBI accession No.: gi|14423933 Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein

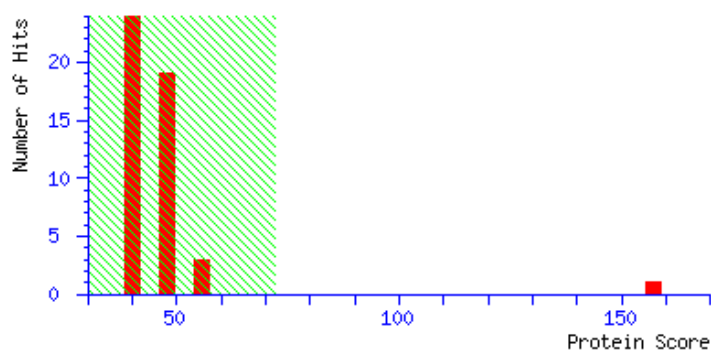
PMF score: 162 Sequence coverage %: 85

Matched peptides No.: 13 Total peptides No.: 43

Calculated Mr: 22331 Calculated pI: 4.80

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKRV DKTVDVSVTS LDGVVPPVIK QVSAQTYVA
101 QDAPRIVLDV ASSVENTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVFQ
201 DEAS
```

Spot No.: 139

NCBI accession No.: [gi|14423688](#) Species: *Hevea brasiliensis*

Protein name: **Enolase 1**

PMF score: 107

Sequence coverage %: 44

Matched peptides No.:14

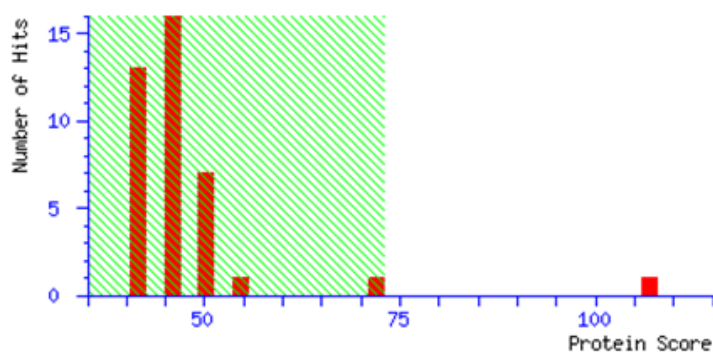
Total peptides No.:47

Calculated Mr: 48029

Calculated pI:5.57

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 73 are significant ($p < 0.05$).



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

```
1  MAITIVSVRA  RQIFDSRGNP  TVEADVCLSD  GYLARAAVPS  GASTGIYEAL
51  ELRDGGSDDL  GKGVS KAVEN  VNIIIGPALV  GKDPTDQVGI  DNFMVQQLDG
101 TVNEWGWCKQ  KLGANAILAV  SLAVCKAGAH  VKGIPLYEHI  ANLAGNKNLV
151 LPVPAFNVIN  GGSHAGNKLA  MQEFMILPVG  ASSFKEAMKM  GAEVYHHLKS
201 VIKKKYQQDA  TNVGDEGGFA  PNIQENKEGL  ELLKTAIAKA  GYTGKVVIGM
251 DVAASEFYGS  DQTYDLNFKE  ENNNGSQKIS  GEALKDLYKS  FVAEYPIVSI
301 EDPFDQDDWA  HYAKLTSEIG  EKVQIVGDDL  LVTNPKRVEK  AIKEKACNAL
351 LLKVNQIGSV  TESIEAVKMS  KRAGWGVMS  HRSGETEDTF  IADLSVGLAT
401 GQIKTGAPCR  SERLAKYNQL  LRIEELGSE  AVYAGANFRK  FVEPY
```

Spot No.: 140

NCBI accession No.: [gi|132270](#) Species: *Hevea brasiliensis*

PFF score: [52] Protein name: Rubber elongation factor protein

Matched peptides No.: [1] Sequence coverage %: [10]

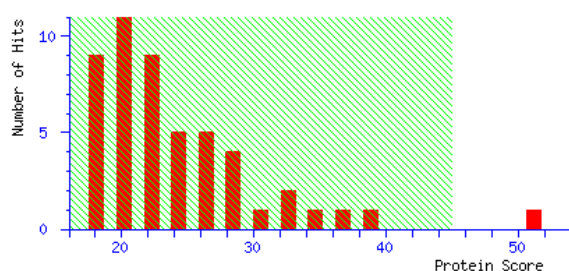
Matched sequences: [K.FVDSTVVASVTIIDR.S](#)

Calculated Mr: 14713

Calculated pI: 5.04

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLG FVQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPKVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: **141**

NCBI accession No.: **gi|14423688** Species: *Hevea brasiliensis*

Protein name: **Enolase 1**

PMF Mascot score: **165**

Sequence coverage %: **52**

Matched peptides No.: **22**

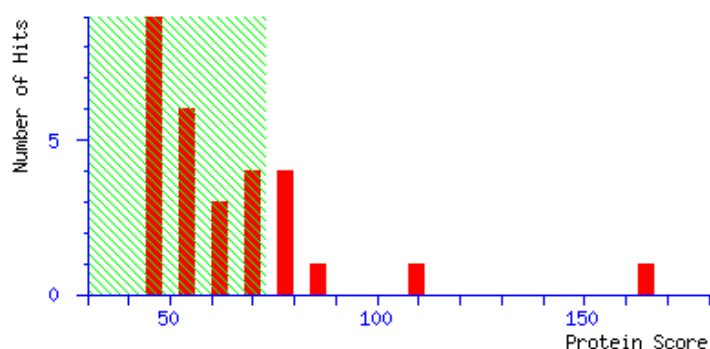
Total peptides No.: **64**

Calculated Mr: **48029**

Calculated pI: **5.57**

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 73 are significant ($p < 0.05$).



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

1 **MAITIVSVRA** **RQIFDSRGNP** **TVEADVKLSD** **GYLARAAVPS** **GASTGIYEAL**
51 **ELRDGGSDYL** **GKGVSKAVEN** **VNIIIGPALV** **GKDPTDQVGI** **DNFMVQQLDG**
101 **TVNEWGWCKQ** **KLGANAILAV** **SLAVCKAGAH** **VKGIPLYEHI** **ANLAGNKNLV**
151 **LPVPAPFNVIN** **GGSHAGNKLA** **MQEFMILPVG** **ASSFKEAMKM** **GAEVYHHLKS**
201 **VIKKKYQODA** **TNVGDEGGFA** **PNIQENKEGL** **ELLKTAIAKA** **GYTGKVVIGM**
251 **DVAASEFYGS** **DQTYDLNFKE** **ENNNGSQKIS** **GEALKDLYKS** **FVAEYPIVSI**
301 **EDPFDQDDWA** **HYAKLTSEIG** **EKVQIVGDDL** **LVTNPKRVEK** **AIKEKACNAL**
351 **LLKVNQIGSV** **TESIEAVKMS** **KRAGWGMAS** **HRSGETEDTF** **IADLSVGLAT**
401 **GQIKTGAPCR** **SERLAKYNQL** **LRIEEELGSE** **AVYAGANFRK** **PVEPY**

Spot No.: 142

NCBI accession No.: [gi|14423687](#) Species: *Hevea brasiliensis*

PFF score: [766]

Protein name: Enolase 2

Matched peptides No.: [10]

Sequence coverage %: [32]

Matched sequences: [K.LAMQEFMILPVGASSFK.E + Oxidation \(M\)](#);

[K.MGAEVYHHLK.S](#);

[K.MGAEVYHHLK.S + Oxidation \(M\)](#);

[K.YGQDATNVGDEGGFAPNIQENK.E](#);

[K.VVIGMDVAASEFYGSDK.T](#);

[K.VQIVGDDLLVTNPK.R](#);

[K.VNQIGSVTESIEAVK.M](#);

[R.AGWGVMASHR.S + Oxidation \(M\)](#);

[R.SGETEDTFIADLSVGLATGQIK.T](#);

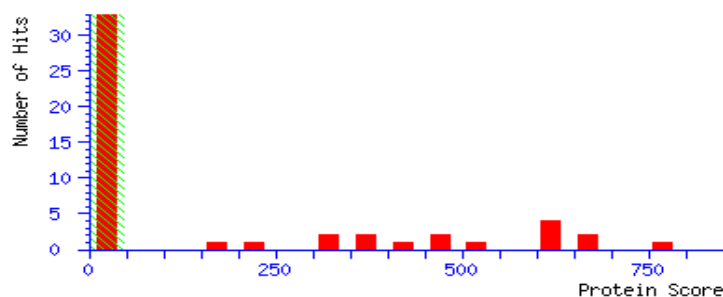
[R.IEEELGAEAVYAGANFR.T](#)

Calculated Mr: 48112

Calculated pI: 5.92

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAITIVSVRA  RQIFDSRGNP  TVEADVKLSD  GYLARAAVPR  GASTGIYEAL
51  ELRDGGSDYL  GKGVS KAVEN  VNIIIGPALV  GKDPTDQVGI  DNFMVQQLDG
101 TVNEGWCKQ  KLGANAILAV  SLAVCKAGAH  VKGIPLYKHV  ANLAGNKNLV
151 LPVPAFNVIN  GGSHAGNKLA  MQEFMILPVG  ASSFKEAMKM  GAEVYHHLKS
201 VIKKRYGQDA  TNVGDEGGFA  PNIQENKEGL  ELLKTAIAKA  GYTGKVVIGM
251 DVAASEFYGS  DKTYDLNFKE  ENNNGSQKIS  GDVLKDLYKS  FVTEYPIVSI
301 EDPFDQDDWE  HYAKLTSEIG  VKVQIVGDDL  LVTNPKRVEK  AIKEKACNAL
351 LLKVNQIGSV  TESIEAVKMS  KRAGWVMAS  HRSGETEDTF  IADLSVGLAT
401 GQIKTGAPCR  SERLAKYNQL  LRIEEELGAE  AVYAGANFRT  PVEPY
```


Spot No.: **143**

NCBI accession No.: **gi|333690873** Species: *Hevea brasiliensis*

PFF score: **[52]**

Protein name: **glutathione-S-transferase tau 1**

Matched peptides No.: **[2]** Sequence coverage %: **[10]**

Matched sequences: **K.YEYREEDLR.N;**

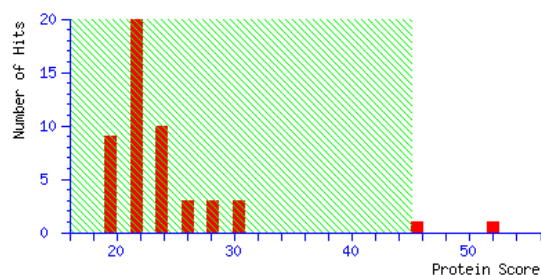
K.DKSPFLPSDPYQR.A

Calculated Mr: **25595**

Calculated pI: **5.48**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVILLDF WSPFGRMVR IALAEKGVKY EYREEDLRNK SPLLLQMNPFV
51 HKKIPVLIHN GKPICESLIA VQYVDEVWKD KSPFLPSDPY QRAQARFWAD
101 FIDKKIYDIG RKIWTTKGDE QEAAKKEFIE ALKLLEGELG NKPYFGGESH
151 GYVDVALIPF YSWFYAYETC GNFSIEPECP VLIAWAKRCL QKESVSESVP
201 DPEKVYEFVL VLKKKFGIE
```

Spot No.: **144**

NCBI accession No.: **gi|242080619** Species: *Sorghum bicolor*

Protein name: **hypothetical protein SORBIDRAFT_07g003800**

PMF Mascot score: **82**

Sequence coverage %: **34**

Matched peptides No.: **13**

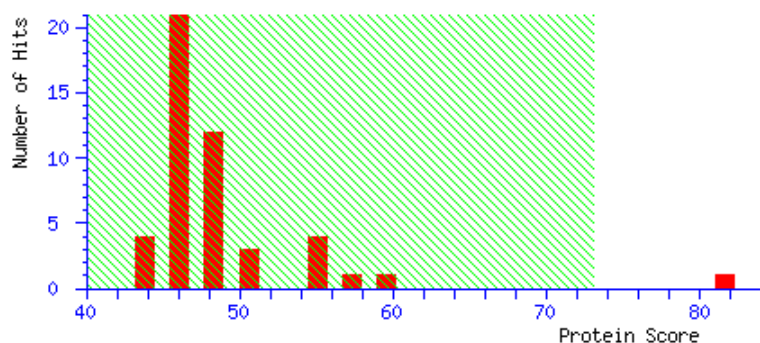
Total peptides No.: **69**

Calculated Mr: **43483**

Calculated pl: **8.78**

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 73 are significant ($p < 0.05$).



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

1 **MAEANVAAAS** **LFGADSR LCS** **ADILAPPEAK** VRARIEVAVL NFLAALASPS
51 SPAISVLPLI SRSSANCSLR SGLLNDVSSV YLSHTFCKRS **LMHNP KAFVR**
101 VWKVMEMCYK ILGEGKLVHQ **RELFYKLLSD** SPKYFSCQRH VNQAIQDVVS
151 LLRCTRQSLG VMASSRGALI GRLVLHEPDE EQIDCSILGA SGHAITGDLN
201 LLSKLNLS SD **ARYIIVVEKD** AIFQRLAEDR **LYNQLPCILI** **TAKGY PD IAT**
251 **R FILHRLSQT** FPNMPIFALV DWNPAGLAIM CTYKYGSISM GLESYRYACN
301 **VKWLGMRGDD** **LQLIPESAFQ** **VLKPRDLQTC** **TNYLRPQFHQ** **ESHRAELTLM**
351 **VEKGK RADIE** ALYSHGFDYL GK YIARKIVQ GDYI

Spot No.: **145**

NCBI accession No.: **gi|30575570** Species: *Citrus x paradisi*

PFF score: **[87]**

Protein name: **HSP19 class II**

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

Matched sequences: **K.VQVEDDNVLLISGER.K**

Calculated Mr: **11191**

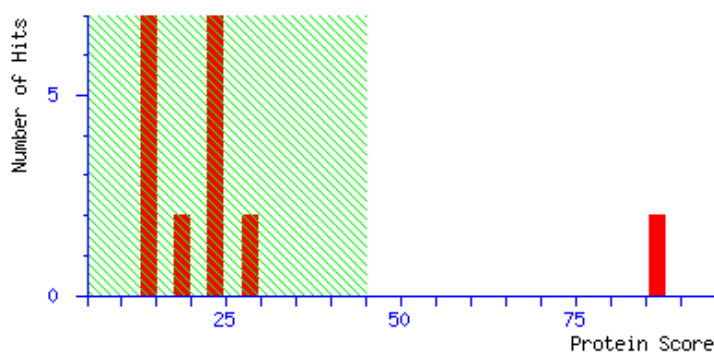
Calculated pI: **8.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 YVFIVDMPGL KSGDIKVQVE DDNVLLISGE RKREEEKDGA KYVRMERRVG  
51 KFMRRKFULPE NANVEAISAV CQDGVLTITV DKLPPPEPKK PKTIEVKIA
```

Spot No.: **146**

NCBI accession No.: **gi|37901124** Species: *Hevea brasiliensis*

PFF score: **[88]**

Protein name: **latex abundant protein 1**

Matched peptides No.: **[1]** Sequence coverage %: **[11]**

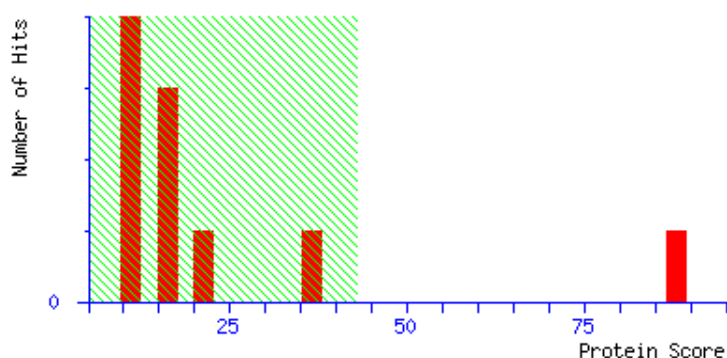
Matched sequences: **R.NKDDINCFNEYNPR.P**

Calculated Mr: **14618**

Calculated pI: **5.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRNKDD INCFNEYNPR  PYIGGYDMAL  TYGRPISACE  ETCYPRSSSA
51  NEIDYDYPDF  TWYVEPSAYN  DDHLQEEYTS  YARPKPRPAP  NSLGSCPILG
101 GNDEEKHHH  CHHQHEKHCD  DE
```

Spot No.: **147**

NCBI accession No.: **gi|359806300** Species: *Glycine max*

PFF score: **[173]**

Protein name: **uncharacterized protein LOC100784610**

Matched peptides No.: **[3]** Sequence coverage %: **[9]**

Matched sequences: **K.NTALHYAAGYGR.K;**

R.YWNNEEVLQK.L;

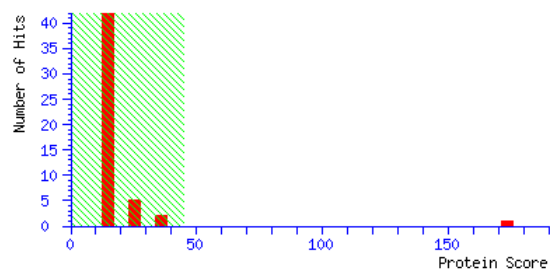
R.TALHFACGYGEVK.C

Calculated Mr: **38027**

Calculated pI: **4.53**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MASDSKKDFP ADDKAGTEES KTSKDETSSK DSPAEQRATA TFGPRPGPAG
51 HPGNPFDLA MSGLLNDFPSI KELAEQIAKD PSFNQMAEQL QKTFQGAPQD
101 AIPSFNQY FSTMQQVMQN PNFMTMAERL GNALMQDPSM SAMLESFSNP
151 SNKDQLEERM ARIKEDPSLK HILEELETGG PAAMMRYWNN EEVLQKLGQA
201 MGLANSGDAG ASAENSGADE TEDLGNEDES IVHHTASVGD VEGLKNALAS
251 GADKDEEDSE GRTALHFACG YGEVKCAQVL LEAGAKVDAL DKNKNTALHY
301 AAGYGRKECV ALLLENGAAV TLQNMDGKTP IDVAKLNNQN EVLKLEKDA
351 FL
```

Spot No.: **148**

NCBI accession No.: **gi|37625031** Species: *Vitis aestivalis*

PFF score: **[166]**

Protein name: **putative ankyrin-repeat protein**

Matched peptides No.: **[3]** Sequence coverage %: **[9]**

Matched sequences: **K.LNNQHEVLK.L;**

K.NTALHYAAGYGR.K;

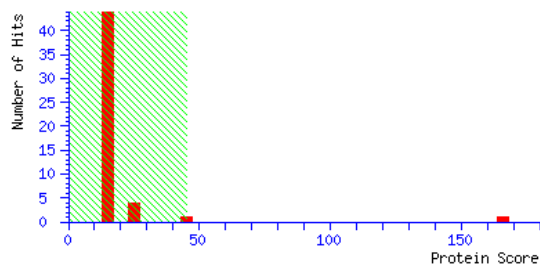
R.TALHFACGYGEVK.C

Calculated Mr: **38089**

Calculated pI: **4.53**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MASNSDKDTP AGSAENSKSD SSSGESHSQ RRAAAAASVP GAGLPTNPFD
51 FSAMTGLLND PSIKELAEQI AKDPAFNQMA EQLQKTFHGA AVEESIPQFD
101 TQQYYSTMQQ VMQNPQFMTM AERLGNALMQ DPSMSSMLEN LANPTHKDQL
151 EERMARIKED PSLKPILDEI ETGGPAAMMR YWNDKDV LQK LGEAMGLAVS
201 GDAAASADNS GLDEAEELAN EDESIAHHS ESIVHDTASV GDVEGLKNAL
251 ASGADKDEED SEGRTALHFA CGYGEVKCAQ ILVEAGATVD ALDKNKNTAL
301 HYAAGYGRKE CVALLENGA AVTLQNMDGK TPIDVAKLNN QHEVLKLLEK
351 DAFL
```

Spot No.: **149**

NCBI accession No.: **gi|13310811** Species: *Nicotiana tabacum*

PFF score: **[71]**

Protein name: **putative ankyrin-repeat protein**

Matched peptides No.: **[2]** Sequence coverage %: **[7]**

Matched sequences: **K.NTALHYAAGYGR.K;**

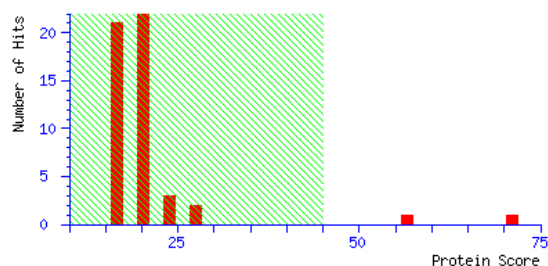
R.TALHFACGYGEVK.C

Calculated Mr: **37522**

Calculated pI: **4.45**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSEGKVLPT  ASADEKSGAS  ENKKSSESSS  TEAPSGEART  TSTAAAGAGL
51  QNPFDFSAMS  GLLNDPSIKE  LAEQIAKDPA  FNQMAEQLQK  TFQGAAVEES
101 VPNFDSQQYY  STMQQVMQNP  QFMTMAERLG  NALMQDPSMS  GMLESLSNPA
151 QKEQIEERMA  RIKEDPSLKP  ILEEIESGGP  AAMMRYWNDQ  ETLKKIGEAM
201 GFAAGGEGAT  SSAIPGTDET  EEANEDESUV  HQCASVGDAE  GLKAALTAGA
251 DKDEEDSEGR  TALHFACGYG  EVKCAQILLE  AGAKVDALDK  NKNTALHYAA
301 GYGRKECVAL  LLENGAAVTL  QNLDGKTPID  VAKLNNQGEV  LKLEKDVFL
```

Spot No.: **150**

NCBI accession No.: [gi|129916](#) Species: *Triticum aestivum*

PFF score: **[180]**

Protein name: **Phosphoglycerate kinase, cytosolic**

Matched peptides No.: **[3]** Sequence coverage %: **[7]**

Matched sequences: [K.KPFAAIVGGSK.V](#);

[K.LASVADLYVNDAFGTAHR.A](#);

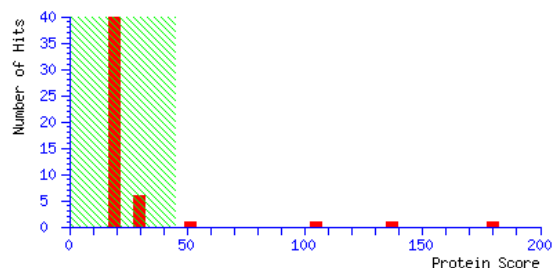
[K.KLASVADLYVNDAFGTAHR.A](#)

Calculated Mr: **42153**

Calculated *pI*: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATKRSVGTL  GEADLKGKKV  FVRADLNVPL  DDAQKITDDT  RIRASIPTIK
51  YLLEKGAKVI  LASHLGRPKG  VTPKFSLKPL  VARLSELLGL  EVVMAPDCIG
101 EEVEKLAAAL  PDGGVLLLEN  VRFYKEEEKN  DPEFAKKLAS  VADLYVNDAF
151 GTAHRAHAST  EGVTKFLRPS  VAGFLMQKEL  DYLVGAVANP  KKPFAAIVGG
201 SKVSSKIGVI  ESLLAKVDIL  ILGGGMIFTF  YKAQGLAVGK  SLVEEDKLEL
251 ATSLIETAKS  KGVKLLLPTD  VVVADKFAAD  AESKIVPATA  IPDGWMGLDV
301 GPDSIKTFAE  ALDTTKTVIW  NGPMGVFEFE  KFAAGTDAIA  KQLAELTGKG
351 VTTIIGGGDS  VAAVEKAGLA  DKMSHISTGG  GASLELLEGG  PLPGVLALDE
401  A
```


Spot No.: **151**

NCBI accession No.: **gi|378464888**

Species: *Ammopiptanthus mongolicus*

PFF score: **[117]**

Protein name: **translation elongation factor**

Matched peptides No.: **[2]**

Sequence coverage %: **[11]**

Matched sequences: **R.WFNHIDALLR.I;**

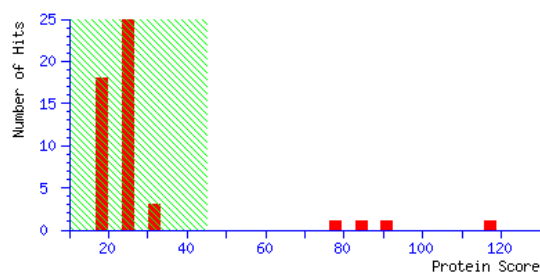
K.SSVLLDVKPWDDETDMK.K

Calculated Mr: **25300**

Calculated pI: **4.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MVLTLYNLSS  EPGLKKLDEY  LLSRSYITGY  QASKDDLTVY  AALPEVPSDK
51  YVNVSRWFNH  IDALLRISGV  SGEGSGVTVE  GSAPVAEETI  ATPPAADTKA
101 TAAEDDDDDV  DLFGEETEE  KKAEEERAAS  VKASVKKKES  GKSSVLLDVK
151 PWDETDMKK  LKEAVRSVSM  EGLHWGASKL  VPGYGIIKKL  QIMLTIVDDL
201 VSVDNLIEEQ  LQVEPINEYV  QSCDIVAFNK  I
```

Spot No.: **152**

NCBI accession No.: **gi|225456295** Species: *Vitis vinifera*

PFF score: **[107]**

Protein name: **elongation factor 1-delta-like**

Matched peptides No.: **[4]**

Sequence coverage %: **[17]**

Matched sequences: **K.APSSEYVNVSR.W;**

R.SIKMEGLLWGASK.L;

R.SIKMEGLLWGASK.L + Oxidation (M);

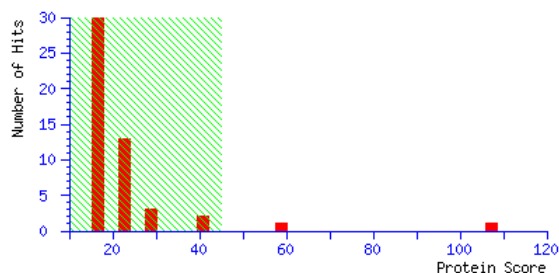
K.SSVLLDVKPWDDETDMK.K

Calculated Mr: **25060**

Calculated pI: **4.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAVTFYGVNS GSGLKKLDEY LLRSYISGY QASKDDITVH AALSKAPSSE
51 YVNVSRWYNH IESLLRISGV SGEKCGVTIE GFAPVDAVAT PPAEDTKATA
101 AEDDDDDVD LFGEETEEEK KAAEAAAAV KASGKKKESG KSSVLLDVKP
151 WDDETDMKKL EEAVRSIKME GLLWGASKLV PVGYGIKKLQ IMLTIVDDL
201 SVDDLIEEQL TVEPTNEYVQ SCDIVAFNKI
```

Spot No.: **153**

NCBI accession No.: **gi|22261807** Species: *Solanum tuberosum*

PFF score: **[132]**

Protein name: **Light-induced protein, chloroplastic**

Matched peptides No.: **[1]** Sequence coverage %: **[8]**

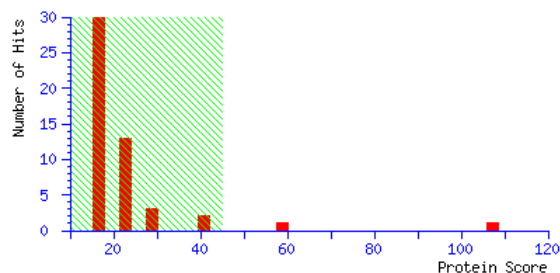
Matched sequences: **K.FEEGIIGTPQLTDSIVLPENVEFLGQK.I**

Calculated Mr: **35671**

Calculated pI: **5.26**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAVTFYGVNS GSGLKKLDEY LLRSYISGY QASKDDITVH AALSKAPSSE
51 YVNVSRWYNH IESLLRISGV SGEGCGVTIE GFAPVDAVAT PPAEDTKATA
101 AEDDDDDVD LFGREETEEK KAAEAAAAV KASGKKKESG KSSVLLDVKP
151 WDEETDMKKL EEAVRSIKME GLLWGASKLV PVGYGIKKLQ IMLTIVDDLQ
201 SVDDLIEEQL TVEPTNEYVQ SCDIVAFNKI
```

Spot No.: **154**

NCBI accession No.: **gi|345103803** Species: *Gossypium thurberi*

Protein name: **14-3-3-like protein, partial**

PMF Mascot score: **83**

Sequence coverage %: **37**

Matched peptides No.: **11**

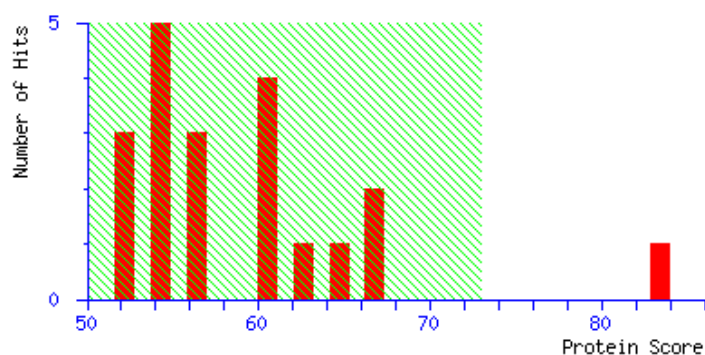
Total peptides No.: **41**

Calculated Mr: **28861**

Calculated pI: **4.82**

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 73 are significant ($p < 0.05$).



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

1 MEKERE**QQVY** **LARLAEQAER** YDEMVEAMKS VAKLDVELTV **EERNLLSVGY**
51 **KNVIGARRAS** **WRILSSIEQK** EEAKGNEQNV KRIKDYRQRV EDELSKICND
101 ILSVIDKHLI PSSSTGESTV FYYKMKGDYF **RYLAEFKAGD** DRKEAADQSL
151 **KAYEAATSTA** **SSDLPPTHPI** **RLGLALNFSV** FYYEILNSPE RACHLAK**QAF**
201 **DEAIAELDSL** **NEESYKDSL** **IMQLLRDNL** LWTSDLPEEG GEQSKADEPQ
251 AE

Spot No.: **155**

NCBI accession No.: **gi|326694865** Species: *Hevea brasiliensis*

PFF score: **[384]**

Protein name: **14-3-3 protein 2**

Matched peptides No.: **[9]**

Sequence coverage %: **[32]**

Matched sequences: **R.GNEDHVTIK.E;**

K.DSTLIMQLLR.D;

K.DSTLIMQLLR.D + Oxidation (M);

R.YEEMVEFMEK.V;

R.YEEMVEFMEK.V + Oxidation (M),K.TVDVEELTVEER.N;

K.SAQDIALADLAPTHPIR.L;

K.LAEQAERYEEMVEFMEK.V;

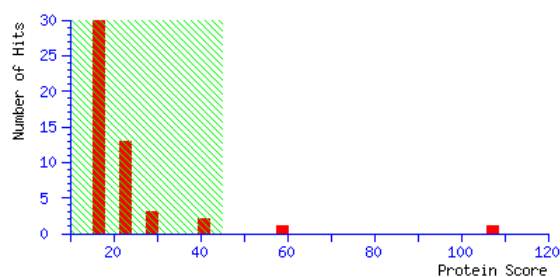
R.LGLALNFSVFYYEILNSPDR.A

Calculated Mr: **35671**

Calculated pI: **5.26**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAVTFYGVNS GSKLKKLDEY LLRSYISGY QASKDDITVH AALSKAPSSE
51 YVNSRWYNH IESLLRISGV SGEGCGVTIE GFAPVDAVAT PPAEDTKATA
101 AEDDDDDVD LFGREETEEK KAAEARAAAV KASGKKKESG KSSVLLDVKP
151 WDEETDMKKL EEAVRSIRME GLLWGASKLV PVGYGIKKLQ IMLTIVDDLQ
201 SVDDLIEEQL TVEPTNEYVQ SCDIVAFNKI
```

Spot No.: **156**

NCBI accession No.: **gi|225458231** Species: *Vitis vinifera*

PFF score: **[53]**

Protein name: **PREDICTED: proteasome subunit alpha type-1-B**

Matched peptides No.: **[3]** Sequence coverage %: **[17]**

Matched sequences: **K.VDDHIGVAIAGLTADGR.V;**

R.NQYDTDVTTWSPAGR.L;

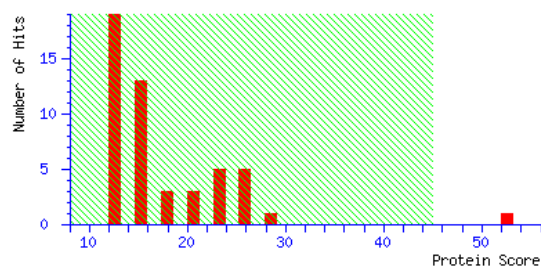
R.SECINYSFTYESPLPVGR.L

Calculated Mr: **30912**

Calculated pI: **5.02**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MFRNQYDTDV TTWSPAGRLF QVEYAMEAVK QGSAAIGLRS KTHVVLACVN
51 KANSELSSHQ KKIFKVDDHI GVAIAGLTAD GRVLSRYMRS ECINYSFTYE
101 SPLPVGRLVV QLADKAQVCT QRSWKRPYGV GLLVAGLDES GAHLYNCPS
151 GNYFEYQAFA IGSRSQAAKT YLERRFGTFQ NSSREDLIKD ALFAIRETLQ
201 GEKLKSSICT VTVLGVGEPF HILDQETVQG LINAFEMAGE EAPAADQGAA
251 GEEGAAGEVV AAAEEGAAPE EGAATEEGAA PMDI
```

Spot No.: **157**

NCBI accession No.: **gi|211906514** Species: *Gossypium hirsutum*

PFF score: **[80]**

Protein name: **lactoylglutathione lyase**

Matched peptides No.: **[3]**

Sequence coverage %: **[6]**

Matched sequences: **K.FYTECFGMK.L;**

K.FYTECFGMK.L + Oxidation (M);

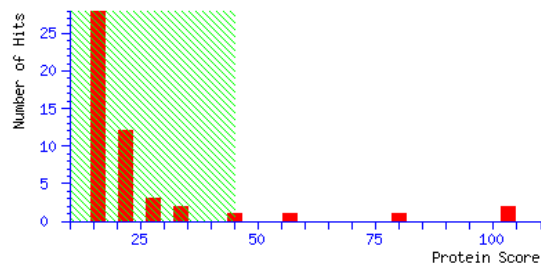
K.ITSFLDPDGWK.T

Calculated Mr: **32609**

Calculated *pI*: **5.69**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGSAAVPS TELLEWPKKD KRRFLHAVYR VGDLDRTIKF YTECFGMKLL
51 RKRDIPEEKY SNAFLGFGPE ESHFVVELTY NYGVTSYDIG TGFGHFIAIAT
101 PDVYKMVEDI RAKGGNITRE PGPVKGSSV IAFVKDPDGY IFELIQRAS
151 PEPLCQVMLR VGDLDRSVKF YEKALGMKLV KKVDRPEYKY SIAMMGYAE
201 HETTIVLELTY NYGVTEYTKG NAYAQVAIST DDVYKSGEVV EHVIQELGGK
251 VTRKPGPIPG INTKITSFLD PDGWKTVLVD NEDFLKELK
```

Spot No.: **159**

NCBI accession No.: **gi|340033945** Species: *Crithmum maritimum*

Protein name: **ATP synthase CF1 beta subunit**

PMF Mascot score: **83**

Sequence coverage %: **29**

Matched peptides No.: **15**

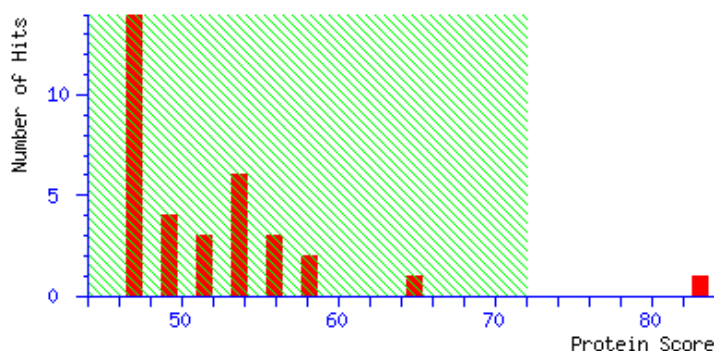
Total peptides No.: **69**

Calculated Mr: **53692**

Calculated pI: **5.08**

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 73 are significant ($p < 0.05$).



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

```
1  MRINPTTSS VASTLEKKNL GNITQIIGPV LDVAFPPGKM PNIYNALVVK
51  GRDTAGQQIN VTCEVQQLLG NNRVRVAVAMS ATDGLTRGME VIDTGAPLSV
101 PVGGTTLGRI FNVLGEPVDN LGPVDTRTTS PIHRSAFAFI QLDTKLSIFE
151 TGIKVVDDLLA PYRRGGKIGL FGGAGVGKTV LIMELINNIA KAHGGVSVFG
201  GVGERTREGN DLYMEMKESG VINEENIAES KVALVYGQMN EPPGARMRVG
251  LTALTMAEYF RDVNEQDVLL FIDNIFRFVQ AGSEVSALLG RMPSAVGYQP
301 TLSTEMGTLQ ERITSTKEGS ITSIQAVYVP ADDLTDPAFA TTFALHDATT
351 VLSRGLAAKG IYPAVDPLDS TSTMLQPRIV GEDHYETAQR VKQTLQRYKE
401 LQDIIAILGL DELSEEDRLT VARARKIERF LSQPPFVAEV FTGSPGKYVG
451 LAETIIGFRL ILSGELDSL P EQAFYLVGNI DEATAKAMNL EMESNSNK
```


Spot No.: **160**

NCBI accession No.: [gi|4388534](#) Species: *Sorghum bicolor*

Protein name: F1-ATP synthase, beta subunit

PMF Mascot score: **84**

Sequence coverage %: **19**

Matched peptides No.: **8**

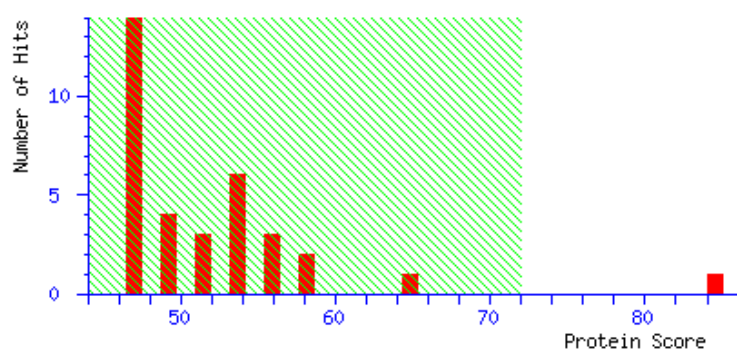
Total peptides No.: **20**

Calculated Mr: **49239**

Calculated pl: **5.41**

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 73 are significant ($p < 0.05$).



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

```
1 IGQVCQVIGA VVDVRFDEGL PPILTALEVL DNNIRLVLEV AQHLGENMVR
51 TIAMDGTEGL VRGQRVLNTG SPITVPVGRA TLGRIINVIG EPIDERGDIT
101 TNHFLPIHRE APAFVEQATE QQILVTGIKV VDLLAPYQRG GKIGLFGGAG
151 VGKTVLIMEL INNVAKAHGG FSVFAGVGER TREGNDLYRE MIESGVIKLG
201 DKQSESKCAL VYGQMNEPPG ARARVGLTGL TVAEHFRDAE GQDVLLFIDN
251 IFRFTQANSE VSALLGRIPS AVGYQPTLAT DLGGLQERIT TTKKGSITSV
301 QAIYVPADDL TDPAPATTYA HLDATTVLSR QISERGIYPA VDPLDSTSRM
351 LSPHVLGEDH YNTARGVQKV LQKYKNLQDI IAILGMDELS EDDKLTVARA
401 RKIQRFLSQP FHVAEVFTGA PGKYVELKES VKSFQGVLDG KYDDLPAQSF
451 YMVG
```

Spot No.: **161**

NCBI accession No.: **gi|147805616** Species: *Vitis vinifera*

PFF score: **[136]**

Protein name: **hypothetical protein VITISV_028800**

Matched peptides No.: **[3]** Sequence coverage %: **[10]**

Matched sequences: **R.GPYPADQVVR.D;**

R.DRGPYPADQVVR.D;

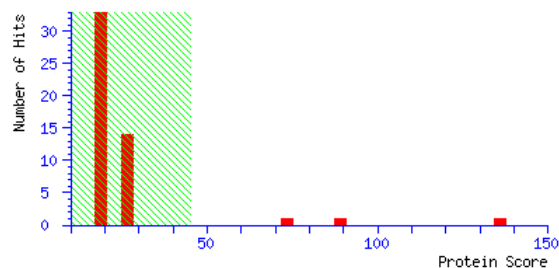
K.TANEVIIVIEAYR.T

Calculated Mr: **27385**

Calculated *pI*: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAVFHKSIA  EAPEGLRTPD  SASLPALKDG  FLPQFFASLH  PSAVTVNLGS
51  SGAISYSVDK  QNPLLPRLFA  VDDIFCLFQ  GHIENVALLK  QQYGLNKTAN
101 EVIIVIEAYR  TLRDRGPYPA  DQVVRDLHGK  FAFVLYDSSN  RTAFLAADAD
151  ESVPPFFWVD  SEGHLVLSDD  EETVKKGCGK  SFAPFPKGC  FTTSGGLRSF
201  EHPLNELRAE  PRVDSSGQVC  GANFKVDVEA  KKETGMPRVG  SAANWSTHY
```

Spot No.: **162**

NCBI accession No.: **gi|326492265**

Species: *Hordeum vulgare subsp. vulgare*

Protein name: **predicted protein**

PMF score: **83**

Sequence coverage %: **10**

Matched peptides No.: **58**

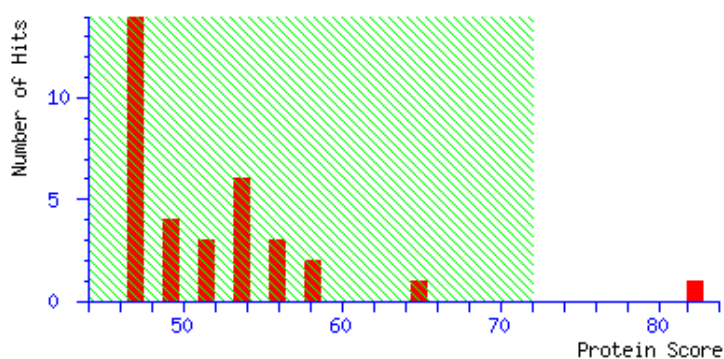
Total peptides No.: **32**

Calculated Mr: **54666**

Calculated *pI*: **8.89**

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 73 are significant ($p < 0.05$).



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

```
1  MSPYAVLVAV  LLAFFYAVWK  ARGSSSSSSS  RLPPSPPSRP  LLGHLHLLGQ
51  LPHRSLRELH  ARYGTDGGLL  LLQLGRRRTL  VVSTAAAAAD  LYKNHDLAFA
101 SRVPSVPVDK  LTYGSINISF  SPYGDVWRRS  KKIADVHLLS  PRRVDSFAPV
151 RAVEVAALVA  GARRGAEAGE  SVELRELLCA  YSNAVVTTRAT  TGAAGATAEK
201 LNKLLGNSAA  LMSGLQADDV  LPGAAAKVVR  WATGLEKRLD  AELELWDKFL
251 SQIIAEHLEK  KKCDGSAGEE  DFLDVLLRLR  EEGGAGLELT  DDRISIIKD
301 IIAAGTDTSS  VTLEWAMAEL  AGNPRAMAKL  QDEITRVTQG  KPTIQEADLS
351 RMEYLKAVLK  EVLRLHPAAP  LLVPHQSTTT  AVVQGYEIPA  KTALFVNAWA
401 IGRDPAAWGA  TAEEFRPERF  LGSFGAEGVD  LRGNDYQLLP  FGAGRRLCPG
451 IGFAMPVLEI  ALSSLVRHFD  WELPAGARLD  MSEAPGLTTP  LLAPLRLVPK
501 CRRQQ
```

Spot No.: **163**

NCBI accession No.: **gi|225428086** Species: *Vitis vinifera*

PFF score: **[343]**

Protein name: **V-type proton ATPase subunit B 1**

Matched peptides No.: **[10]** Sequence coverage %: **[30]**

Matched sequences: **K.YQEIVNIR.L;**

K.FVAQGAYDTR.N;
R.RGQVLEVDGEK.A;
K.YTTVQFTGEVLK.T;
R.QIYPPINVLPSLSR.L;
R.VTLFLNLANDPTIER.I;
R.GYPGYMYTDLATYER.A;
R.RDHADVSNQLYANYAIGK.D;
K.IPLFSAAGLPHNEIAAQICR.Q;
K.AVVGEEALSSDLLYLEFLDKFER.K

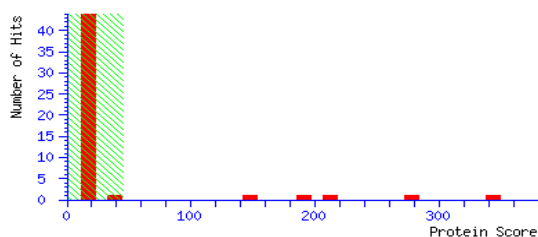
Calculated Mr: **54367**

Calculated pl: **5.04**

Probability Based Mowse Score:

Mascot Score Histogram

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGVEQNNHDA  EEGTLLVGME  YRTVSGVAGP  LVILEKVKGP  KYQEIVNIRL
51  GDGTTRRGQV  LEVDGEKAVV  QVFEGTSGID  NKYTTVQFTG  EVLKIPVSLD
101 MLGRIFNGSG  KPIDNGPPIL  PEAYLDISGS  SINPSERTYP  EEMIQTGIST
151 IDVMNSIARG  QKIPLFSAAG  LPHNEIAAQI  CRQAGLVKRL  EKSGSLEDV
201 EEDNFAIVFA  AMGVMETAQ   FFKRDFEENG  SMERVTLFLN  LANDPTIERI
251 ITPRIALTTA  EYLAYECGKH  VLVILTMSS   YADALREVS   AREEVPGRRG
301 YPGYMYTDLA  TIYERAGRIE  GRKGSITQIP  ILTMPNDDIT  HPTPDLTGYI
351 TEGQIYIDRQ  LHNRQIYPPI  NVLPSLSRLM  KSAIGEGMTR  RDHADVSNQL
401 YANYAIGKDV  QAMKAVVGEE  ALSSDLLYL  EFLDKFERKF  VAQGAYDTRN
451 IFQSLDLAWT  LLRIFFPRELL  HRIPAKTLDQ  YYSREASN
```

Spot No.: 164

NCBI accession No.: [gi|225428086](#) Species: *Vitis vinifera*

PFF score: [377]

Protein name: V-type proton ATPase subunit B 1

Matched peptides No.: [10] Sequence coverage %: [23]

Matched sequences: [K.YQEIVNIR.L](#);

[K.FVAQGAYDTR.N](#);
[R.DFEENGSMER.V](#);
[R.RGQVLEVDGEK.A](#);
[R.KFVAQGAYDTR.N](#);
[K.YTTVQFTGEVLK.T](#);
[R.QIYPPINVLPSLSR.L](#);
[R.VTLFLNLANPTIER.I](#);
[R.GYPGYMYTDLATIYER.A](#);
[R.RDHADVSNQLYANYAIGK.D](#)

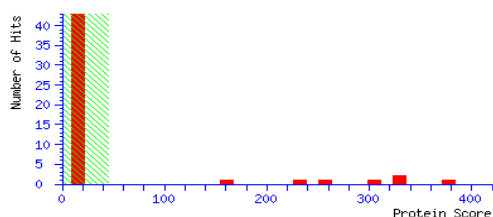
Calculated Mr: 54367

Calculated pI: 5.04

Probability Based Mowse Score:

Mascot Score Histogram

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGVEQNNHDA  EEGILLVGME  YRTVSGVAGP  LVILEKVKGP  KYQEIVNIRL
51  GDGTTRRGQV  LEVDGEKAVV  QVFEGTSGID  NKYTTVQFTG  EVLKTPVSLD
101 MLGRIFNGSG  KPIDNGPPIL  PEAYLDISGS  SINPSERTYP  EEMIQTGIST
151 IDVMNSIARG  QKIPLFSAAG  LPHNEIAAQI  CRQAGLVKRL  EKSGSLEDV
201 EEDNFAIVFA  AMGVNMETAQ  FFKRDFEENG  SMERVTLFLN  LANDPTIERI
251 ITPRIALTTA  EYLAYECGKH  VLVILTMSS  YADALREVSA  AREEVPGRRG
301 YPGYMYTDLA  TIYERAGRIE  GRKGSITQIP  ILTMPNDDIT  HPTPDLTGVI
351 TEGQIYIDRQ  LHNRQIYPPI  NVLPSLSRLM  KSAIGEGMTR  RDHADVSNQL
401 YANYAIGKDV  QAMKAVVGEE  ALSSEDLLEY  EFLDKFERKF  VAQGAYDTRN
451 IFQSLDLAWT  LLRIFPRELL  HRIPAKTLDQ  YYSREASN
```

Spot No.: **165**

NCBI accession No.: **gi|224071449** Species: *Populus trichocarpa*

PFF score: **[59]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[2]**

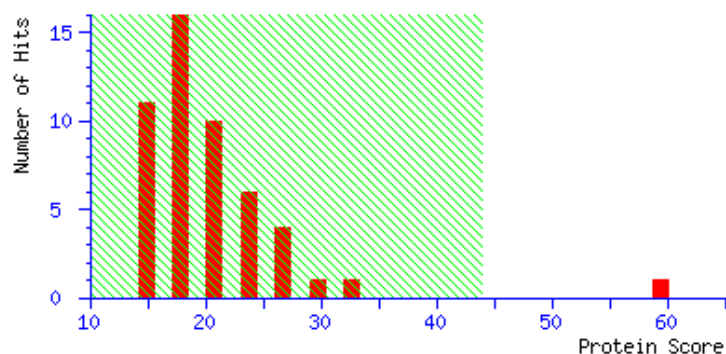
Matched sequences: **K.IDVIPHYPGRL**

Calculated Mr: **47121**

Calculated pI: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MDGTSEATWP  EILGSRNWDN  LLDPLDLSLR  KLILRCGDFC  QATYDAFNND
51  QNSRYCGTSR  YGKRNFHFKV  MLDNPENYQV  SSFLYATARV  SLPEAFLLHS
101 LSRDSDWRET  NWIGYIAVTS  DEQTKTLGRR  EIYIAFRGTT  RNYEWDILG
151 AKLKSAPLL   RGATSTTHDQ  ESSSSDDEDD  DKVPKVMLGW  LTMYSISDDPN
201 SPFTKLSARA  QLLAHIKELR  ERYKDDDLSE  IFTGHSLGAS  LSILSAFDLV
251 ENGITDIPVS  AFVFGSPQVG  NKEFNERFNK  YPNLKVLHIK  NKIDVIPHYP
301 GRLMGYVYTG  IEFIDTRKS  PSLKDSKNPS  DWHNLQAMLH  IVAGWNGEEQ
351 EFELKVKRSL  ALVNKSSEFL  KDECLVPGIW  WVEKNKGMVR  NEDGEWVLAP
401 PDEEDLPVPE  C
```

Spot No.: **166**

NCBI accession No.: **gi|116789736** Species: *Picea sitchensis*

Protein name: **unknown**

PMF Mascot score: **81**

Sequence coverage %: **60**

Matched peptides No.: **6**

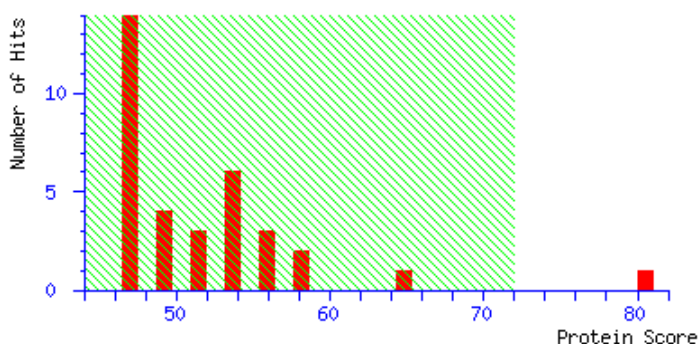
Total peptides No.: **48**

Calculated Mr: **13436**

Calculated pI: **5.91**

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 73 are significant ($p < 0.05$).



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

```
1  MPSHSLIGTT TTNRRGSMED YPNPFPNETI HELFKLVWSQ TNKARAQKEG  
51 GETELEVGAA ASKKTRTTTA NSNALKLSCE FLRLFVTEAV QRAAIVAEVE  
101 GSTQIEGTHL ERILPQLLLD F
```


Spot No.: 167

NCBI accession No.: [gi|115392253](#)

Species: *Cercocarpus betuloides*

PFF score: [51] Protein name: polyphenol oxidase

Matched peptides No.: [1] Sequence coverage %: [3]

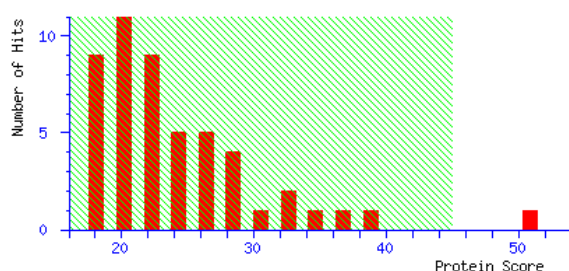
Matched sequences: [K.EKEQEEEEILVIEGIEFDR.D](#)

Calculated Mr: 51023

Calculated pI: 5.98

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 PFAFAKPVAP PDVSKCGAAD LPTGAQPTNC CPPVASKIID FKLPSPTPLR VRPAAHAVDK
61 AYIEKYSKAI ELMKALPDDD PRSFKQQANV HCAYCDGAYD QAGFPDLELQ IHNSWLFFPF
121 HRYLYPFHEK ILGSLIGDPT FALPFWNWDA PAGMPLPAIY ANPKSPLYDK FRAANHQPPT
181 LVDLDFNGTE DAASNETQIN ANLKIMYRQM VSNARTPQLF FGNPYRAGDE FDPGGGSIEG
241 TPHGPFVHLWT GDNTQPNFED MGNFYASGRD PIFFAHHSNV DRLWSIWKTL GGKRTDITDT
301 DWLDSGFLFY DENAQMVRVK VRDCLESKNL GYVYQDANIP WLESKPTPRR VKAALGKIAK
361 KLHVAHAADN SSASKVVARA AFPIAKLDTK MSTVVARPKQ KKRSKKEKEQ EEEILVIEGI
421 EFDRDVAVKF DVYVNDEDDL PSGPDKSEFA GSFVS
```


Spot No.: 168

NCBI accession No.: [gi|225430941](#)

Species: *Vitis vinifera*

PFF score: [210]

Protein name: [regulator of ribonuclease-like protein 2](#)

Matched peptides No.: [3] Sequence coverage %: [24]

Matched sequences: [K.VFEDNVLIR.E](#);

[R.DVDEINGCDIGVR.A](#);

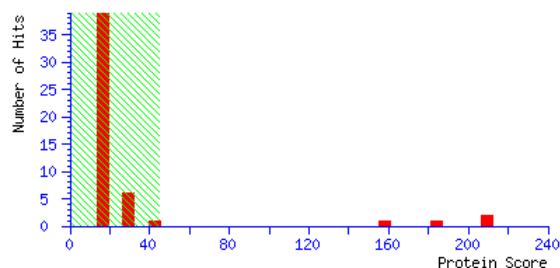
[R.ISDGEWLYADTDGILISR.T](#)

Calculated Mr: **17984**

Calculated pI: **5.39**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALVTTAEVC DANPQLIVSG ELRALQPVEQ IYGRRPVFSG PIVTLKVFED
51 NVLIREFLEE KGNGRVLVVD GGGSMRCAIL GGNPVVQAQN NGWAGIVVNG
101 CIRDVDEING CDIGVRALNS HPMKANKKGI GEKHVPIAIA GTRISDGEWL
151 YADTDGILIS RTELSV
```

Spot No.: **169**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[152]**

Protein name: **prohevein**

Matched peptides No.: **[2]**

Sequence coverage %: **[20]**

Matched sequences: **R.IVDQCSNGGLDLVNVFR.Q;**

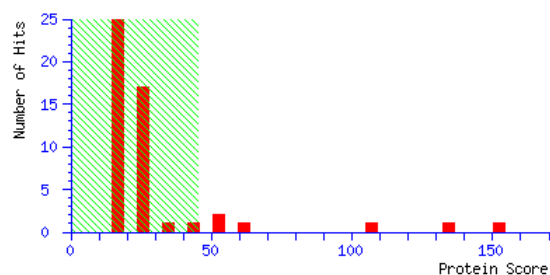
K.YGWTAFCGPVGAHGQPSCGK.C

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ  WGWCGSTDEY  CSPDHNCQSN  CKDSGEGVGG
51  GSASNVLATY  HLYNSQDHGW  DLNAASAYCS  TWDANKPYSW  RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTINT  GTGAKATVRI  VDQCSNGGLD  LDVNVFRQLD
151  TDGKGYERGH  LTVNYQFVDC  GDSFNPLFSV  MKSSVIN
```

Spot No.: **170**

NCBI accession No.: **gi|298362843** Species: *Hevea brasiliensis*

PFF score: **[110]**

Protein name: **actin-depolymerizing factor**

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

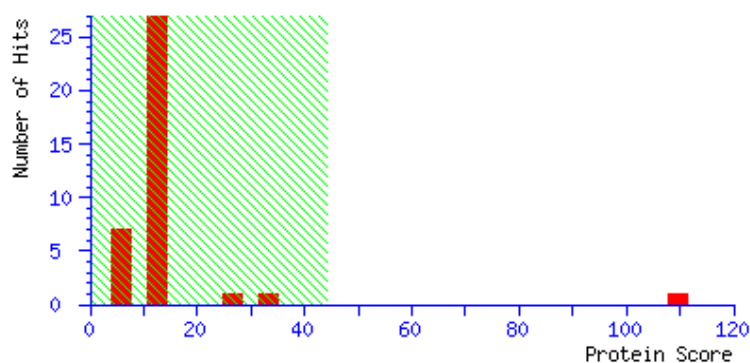
Matched sequences: **K.LGEPTQSYEDFTASLPADECR.Y**

Calculated Mr: **16220**

Calculated pI: **5.92**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MANAASGMV HDDCKLRFLE LKAKRTYRI VFKIEEKAKQ VIVEK**LGEPT**
51 **QSYEDFTASL PADECR**YAVY DFDFVTEENC QKSRIFFIAW SPDTSRVRSK
101 MIYASSKDRF KRELDGIQVE LQATDPTMG LDVFKSRAS

Spot No.: 171

NCBI accession No.: [gi|115392253](#)

Species: *Cercocarpus betuloides*

PFF score: [104] Protein name: actin depolymerizing factor

Matched peptides No.: [1] Sequence coverage %: [4]

Matched sequences: [K.EKEQEEEEILVIEGIEFDR.D](#)

Calculated Mr: 58369

Calculated pI: 9.23

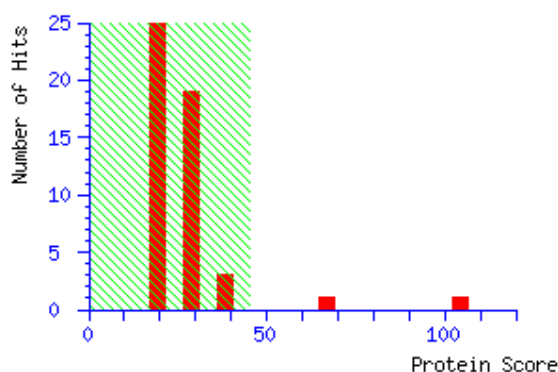
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 40 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 PFAFAKPVAP PDVSKCGAAD LPTGAQPTNC CPPVASKIID FKLPSPTPLR VRPAHAHVDK
61 AYIEKYSKAI ELMKALPDDD PRSFKQQANV HCAYCDGAYD QAGFPDLELQ IHNSWLFFPF
121 HRYLYLPHEK ILGSLIGDPT FALPFWNWDA PAGMPLPAIY ANPKSPLYDK FRAANHQPPT
181 LVDLDFNGTE DAASNETQIN ANLKIMYRQM VSNARTPQLF FGNPYRAGDE PDPGGGSIEG
241 TPHGFVHLWT GDNTQPNFED MGNFYASAGR DRIFFAHSNV DRLWSIWKTL GGRKTDITDT
301 DWLD SGFLFY DENAQMVRVK VRDCLESKNL GYVYQDANIP WLESKPTPRR VKAALGKIAK
361 KLHVAHAADN SSASKVVARA AFPIAKLDTK MSTVVARPKQ KKRSKKEKEQ EEEILVIEGI
421 EFDRDVAVKF DVYVNDEDDL PSGPDKSEFA GSFVS
```

Spot No.: 172

NCBI accession No.: [gi|2832430](#)

Species: *Hevea brasiliensis*

PFF score: [252]

Protein name: [prohevein](#)

Matched peptides No.: [3] Sequence coverage %: [26]

Matched sequences: [R.QLDTDGKGYER.G](#);

[R.IVDQCSNGGLDLVDNVFR.Q](#);

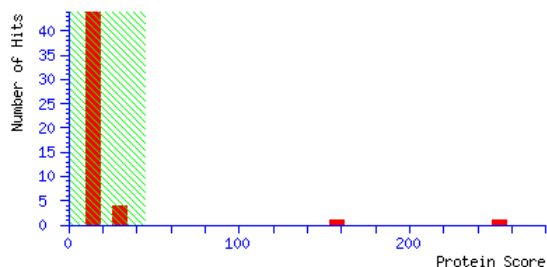
[K.YGWTAFCGPVGAHGQPSCGK.C](#)

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: **173**

NCBI accession No.: **gi|255574159** Species: *Ricinus communis*

Protein name: **proteasome subunit beta type 6,9, putative**

PMF Mascot score: **101**

Sequence coverage %: **51**

Matched peptides No.: **14**

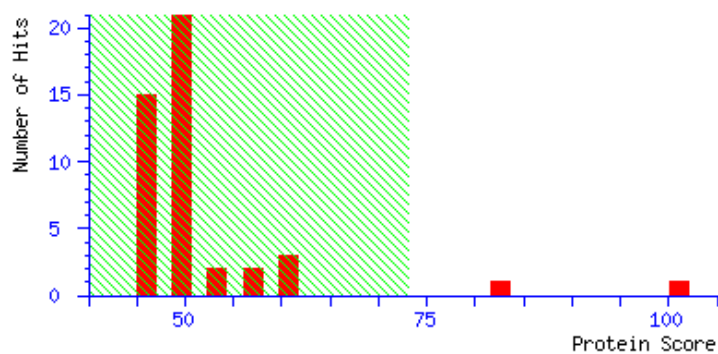
Total peptides No.: **60**

Calculated Mr: **24912**

Calculated pI: **5.17**

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 73 are significant ($p < 0.05$).



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

```
1 MDLKAPHSMG TTIIGVTYNG GVVLGADSRT STGMYVANRA SDKITQLTDN
51 VYVCRSGSAA DSQIVSDYVR YFLHQHTIQL GQPATVKVAA NLVRLISYNN
101 KNMLETGLIV GGWDKYDGGK IYGIPLGGTI IEQPFAIGGS GSSYLYGFFD
151 QAWKEGMTKD EAEQLVVKAV SLAMARDGAS GGVVRTVIIN SEGVTRNFYP
201 GDSLPLWHEE LEPQNSLLDI LNASSPEPMN I
```

Spot No.: 174

NCBI accession No.: gi|242059605 Species: *Sorghum bicolor*

PFF score: [117]

Protein name: hypothetical protein SORBIDRAFT_03g043200

Matched peptides No.: [2] Sequence coverage %: [6]

Matched sequences: K.RFFPSEFGNDVDHVHAVEPAK.S;

R.FFPSEFGNDVDHVHAVEPAK.S

Calculated Mr: 34294

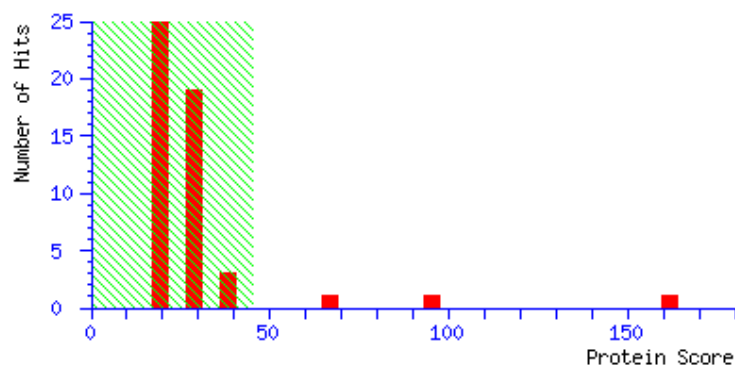
Calculated pI: 5.93

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSSAAGHKER  SRVLVIGGTG  YIGRFIVAAS  AREGHPTYVL  VRDPAPADPA
51  KAAVLQGFRD  AGVTLVKGDL  YNHESLVVAM  ESADVVISAV  GYAQLPDQTR
101 IISAIKDAGN  IKRFFPSEFG  NDVDHVHAVE  PAKSVFAAKA  SIRRAVEAEG
151 IPYTYISSNF  FAGRFLPAIG  QIGVTGLPID  KVLILGDGNV  KAIFGTEEDV
201 GTYTIKAVDD  PRTLNKILYL  RPPSNILSHN  ELISLWEKKV  GKTFERVYIP
251 EDDVLKKIQE  SPIPLNRALS  ISHSAWVKGD  HTNFEIDPFF  GVEATDLYPD
301 VKYTTVDEYL  NKFL
```

Spot No.: 175

NCBI accession No.: [gi|2832654](#) Species: *Arabidopsis thaliana*

Protein name: chloroplast protein cs/ch-42

PMF Mascot score: 86

Sequence coverage %: 37

Matched peptides No.: 16

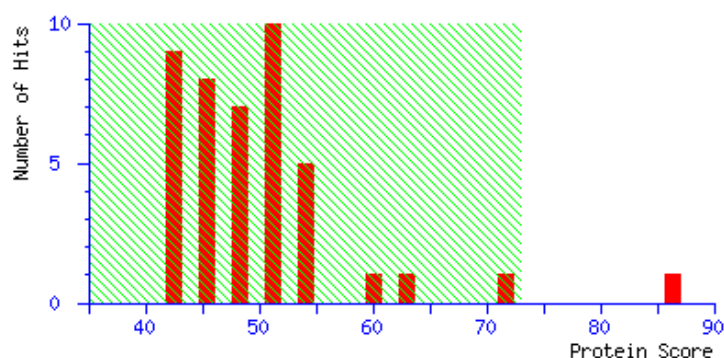
Total peptides No.: 78

Calculated Mr: 66408

Calculated pI: 6.44

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 73 are significant ($p < 0.05$).



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

```
1  MLCFSASRLD  DFDLGSSPPK  KGSKTTTKSM  DCEEICASSK  SDKSDDLDFG
51  LDLPITRQVP  SKANTDVQAK  ASAEKESQNY  KTTDTLVVNK  SKNSNQAALE
101 SMGDFEAVES  PQGSRKKASQ  THTMCVQPQS  VDTSSPLKTSK  SKVEEKNEPC
151 PSNETIAPSP  LHASEIAHIA  VNRETSPDIH  ELCRSGTKED  CPIDPENANK
201 KMITTMESSY  EKIEQTSPSI  SSHLCSDKIE  HQQEEMGTDI  QAEIQDNTKG
251 ALYNSDAGHS  LTTLSGKISP  GTRTSQTAKV  QDLSEKLPLD  PSHSMAGLDN
301 LRAMQNKDLG  LIRSRFFKKP  EKPEHSVLES  SPIETEIQPV  IRENIGSSLN
351 PTNDTSSHEK  IIHKDHSNGK  TVENVAGQMD  HLKLQAKNTT  REKSILQINI
401 SSKLDASSLT  QKLSNHLSSG  VESLQKPKLN  SLGRPCLGNI  MADLRAVKTQ
451 RNVEELTHRA  VQGKVRFTNR  SVILIVTRRK  SFLCQESRID  TKTTKEPVKE
501 SPQTKSHYQN  INMANLEIPI  TENADNIEKA  EAYTKELENV  NRALFSIMNI
551 LNIICNILKK  KHEEAKELLV  RAVVDNNKLL  MLNHPLYEDQ  ISFL
```


Spot No.: 176

NCBI accession No.: gi|27449248 Species: *Hevea brasiliensis*

PFF score: [487] Protein name: ascorbate peroxidase

Matched peptides No.: [5] Sequence coverage %: [34]

Matched sequences: R.EDKPEPPPEGR.L;

R.IAWHSAGTYDANTK.T;

R.HAAEQAHAAANGLDIAVRL;

K.YAADEDAFFADYAEAHVK.L;

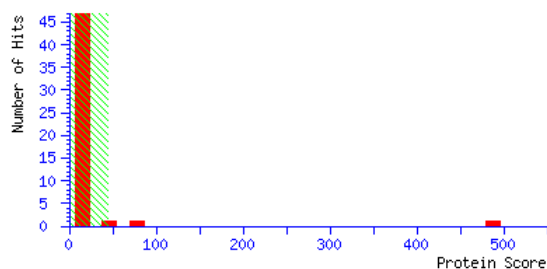
K.EGLLQLPTDTVLVTDVPVFRPYVEK.Y

Calculated Mr: 27526

Calculated pI: 5.78

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTKNYPKVSE EYQKAIDKAK RKLRFIAEK GCAPLMRIA WHSAGTYDAN
51 TKTGGPFGTM RHAAEQAHAA NNGLDIAVRL LEPIKQQFPI LSYADFYQLA
101 GVVAVEITGG PEIPFHPGRE DKPEPPPEGR LPNATKGADH LREVFGKTMG
151 LSDKDIVVLS GGHTLGRCHK ERSGFDGPWT ANPLIFDNSF FTELLAGQKE
201 GLLQLPTDTV LVTDPVFRPY VEKYAADEDA FFADYAEAHV KLSELGFAEA
```

Spot No.: 177

NCBI accession No.: [gi|357480975](#) Species: *Medicago truncatula*

PFF score: [369]

Protein name: Proteasome subunit beta type

Matched peptides No.: [7] Sequence coverage %: [42]

Matched sequences: [K.NVALYQFR.N](#);

[R.VQFTEYIQK.N](#);

[R.LVVAPPNFVIK.I](#);

[R.NGIPLTTAAAANFTR.G](#);

[K.GAFGYGSYFSLSMMDR.H](#);

[K.ETGPSLYYIDYIATLHK.L](#);

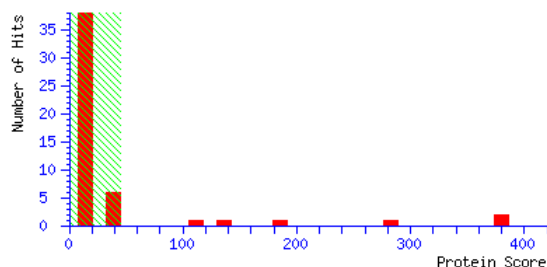
[K.LIAASGEPGDRVQFTEYIQK.N](#)

Calculated Mr: 22572

Calculated pI: 6.06

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MECVFGLVGN  GFAIVVADTS  AVHSILVHKS  NEDKIMFLDS  HKLIAASGEP
51  GDRVQFTEYI  QKNVALYQFR  NGIPLTTAAA  ANFTRGELAT  ALRKNPYSVN
101 ILLAGYDKET  GPSLYYIDYI  ATLHKLEKGA  FGYGSYFSL  MMDRHFHSGM
151 NVEEAIDLVD  KCILEIRSRL  VVAPPNFVIK  IVDKDGAREY  AWRESVKDTP
201 ASA
```

Spot No.: **178**

NCBI accession No.: **gi|255541320** Species: *Ricinus communis*

PFF score: **[302]**

Protein name: **proteasome subunit beta type, putative**

Matched peptides No.: **[4]** Sequence coverage %: **[28]**

Matched sequences: **K.HLIYQHQNK.Q;**

K.GCVYTYDAVGSYER.V;

R.FFPYYAFNVLGGLDSEGK.G;

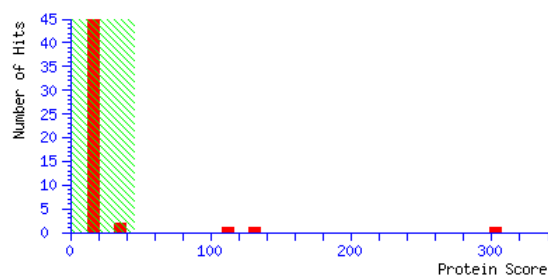
R.VGYSAQGSGSTLIMPFLDNQLK.S

Calculated Mr: **24880**

Calculated pI: **6.08**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MTKQQANWSP YDNNGGSCVA IAGADYCVIA ADTRMSTGYN ILTRDYSKIC
51 QLAEKSVMAS SGFQADVQAL QKHLKAKHLI YQHQNKQMS CPAMGQLLSN
101 TLYFKRFFPY YAFNVLGGLD SEGKGCVYTY DAVGSYERVG YSAQGSGSTL
151 IMPFLDNQLK SPSPLLLPAQ DAVTPLSEPE AVDLVKTVFA SATERDIYTG
201 DKVEIVVLNA DGIRREYMEL RKD
```

Spot No.: 179

NCBI accession No.: [gi|350537255](#)

Species: *Solanum lycopersicum*

Protein name: small zinc finger-like protein

PMF score: 82

Sequence coverage %: 70

Matched peptides No.: 7

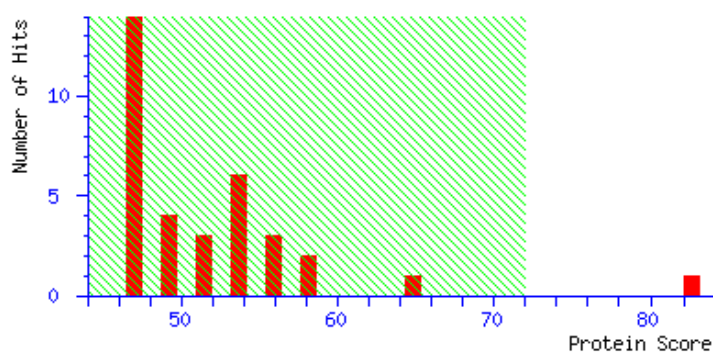
Total peptides No.: 40

Calculated Mr: 9669

Calculated pI: 6.56

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 73 are significant ($p < 0.05$).



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

1 **MAGVPSNLER** **EQIFSMAEKE** MEYRVEMFNK LHTTCFKKCV ENKYKDSLN
51 **MGENSCIDRC** **VSKYWQVTNL** VGTLLGNTRP M

Spot No.: **180**

NCBI accession No.: **gi|37622210** Species: *Hevea brasiliensis*

Protein name: **small rubber particle protein**

PMF Mascot score: **107**

Sequence coverage %: **60**

Matched peptides No.: **10**

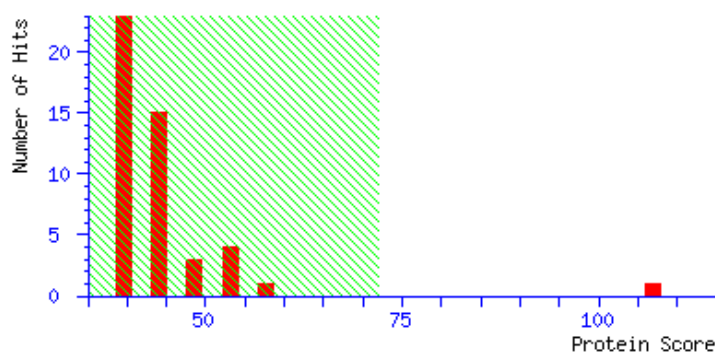
Total peptides No.: **38**

Calculated Mr: **18929**

Calculated pI: **8.99**

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 73 are significant ($p < 0.05$).



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

1 **KFHDVPNEVL** **KFVDRKVDDES** **VTSLDSRVPP** **VVKQVSAQAY** **SVAREAPVAA**
51 **RAVASEVHQSS** **GVKETASGLA** **KTLYTKYEPK** **AKELYSKYEP** **KAEQCAVTAW**
101 **RRLNQLPLFP** **QVAQVVVPTA** **AYCSEKYNQT** **VLSTFEKGYR** **VSSYLPLVPT**
151 **ERIAKVFSSD** **VAQSMPLVSS**

Spot No.: 181

NCBI accession No.: gi|168038495

Species: *Physcomitrella patens subsp. patens*

Protein name: predicted protein

PMF score: 81

Sequence coverage %: 36

Matched peptides No.: 18

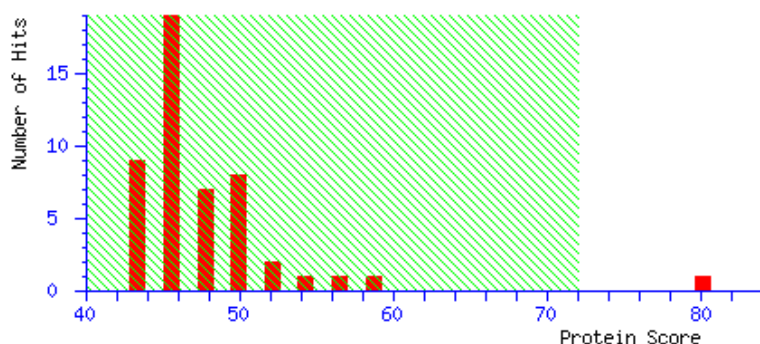
Total peptides No.: 81

Calculated Mr: 61349

Calculated pI: 5.80

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 73 are significant ($p < 0.05$).



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

```
1  MQAPVLVLNE  STKRETGGRV  HHANIQASKA  VADVIRTTLG  PRSMLKMLLD
51  ASGGIVLTND  GNAILRELDV  SHPAAKSMIE  LSRTQDEEVG  DGTTSVILLA
101 GEMLYVAEQF  LDRQFHP TVI  CRAYTKALED  AVAALKEIAF  DIDITDR TMM
151 LNIVRSCIGT  KFTSRFGTLI  ADLAIDSVAT  ISVDLGNGLR  EVDIKKYIKV
201 EKIPGGQLED  SKVLKGV M FN  KDVVSPGKMR  RKILNPRIIL  LDSPLEYKKG
251 ENQTNAEIMK  EEDWATLLRM  EEEYIEQLCV  QIIKFKPDLV  ITEKGLSDLA
301 SHYLSKAGIS  AIRRLRKT DN  NRIARACGAT  IVNRPEELQE  SDVGTRCGLF
351 EVK KIGDEYF  TFIVQCNEPK  ACTVLLRGPS  KDLLNEVERN  LADAMGVARN
401 VIKDAKLVPG  GGASEMAVSA  ILKKN SMSIE  GVEQWPYRAV  AQALEVIPRT
451 LAQNCGVNVI  RTMTALQAKH  ANAENPMFGI  DGNTGELTDM  KELGVWDSFG
501 VKLQTFKTAI  EAACMLLRID  DIVSGIKKKQ  APGAAPQPM  TSTGEDVDSE
551 QMIPE
```

Spot No.: **182**

NCBI accession No.: **gi|164472662** Species: *Triticum aestivum*

Protein name: **calcium-dependent protein kinase**

PMF Mascot score: **82**

Sequence coverage %: **28**

Matched peptides No.: **17**

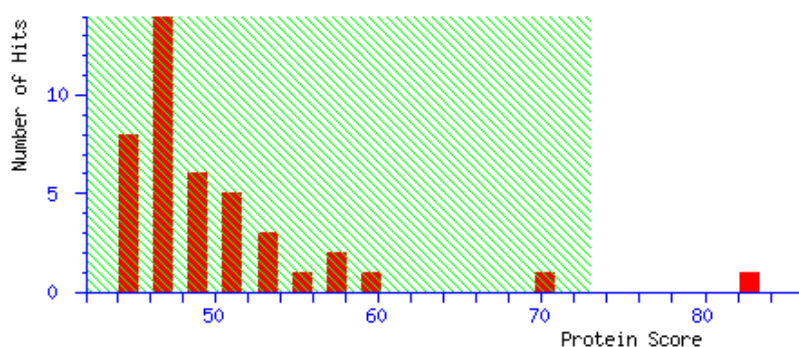
Total peptides No.: **74**

Calculated Mr: **61353**

Calculated pl: **6.04**

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 73 are significant ($p < 0.05$).



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

```
1  MGNCCRSPAA  AAREDVSSSH  FPASAGKRKP  HQARNGGGGG  AGGGGGGGGA
51 GAGGEKKRLS  VLGEEGPDVS  GGIDDKYALD  RELGRGEFGV  TYLCMDRGSK
101 ELLACKSISK  RKLRTPVDVE  DVRREVAIMR  HLPRSASIVT  LREACEDDGA
151 GHLVMELCEG  GELFDRIVAR  GHYTERAAAA  VTRTIVEVVQ  LCHHHGVIHR
201 DLKPENLFA  NKKENSPLKA  IDFGLSIFFK  PGEKFSEIVG  SPYYMAPEVL
251 KRNYGPEIDI  WSAGVILYIL  LCGVPPFWAE  TEQGVAQAIL  RGNIDFKREP
301 WPHVSDNAKD  LDRQMLQPDP  KIRLTAKQVL  EHTWLQNAKK  APNVPLGDIV
351 KSRLKQFSRM  NRFKRRALRV  IADHLSAEEV  EDIKEMFKVM  DTDNDGIVSY
401 EELKSGIAKF  GSHLAESEVQ  MLIEAVDTNG  RGALDYGEFL  AVSLHLQRMA
451 NDEHLRRAFL  FFDKDGDGFI  EPEELQEALA  EDGAVDITEV  VKDILQEVDT
501 DKDGKISFEE  FVAMMKTGTD  WRKASRHYSR  GRFNSLSIRL  IKDGSVKMGN
551 E
```

Spot No.: **183**

NCBI accession No.: **gi|32527831**

Species: *Populus tremula x Populus tremuloides*

Protein name: **UDP-glucose pyrophosphorylase**

PMF Mascot score: **92**

Sequence coverage %: **29**

Matched peptides No.: **12**

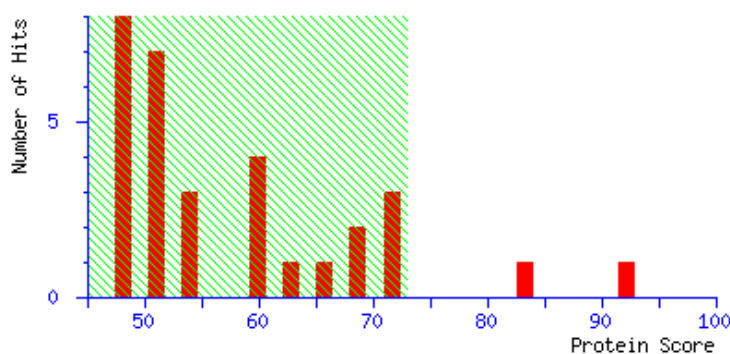
Total peptides No.: **45**

Calculated Mr: **51949**

Calculated pI: **5.68**

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 73 are significant ($p < 0.05$).



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

```
1 MATDTEKISQ LKSAVANLNQ ISESEKTGFV NLVSRYLSGE AQQVEWSKIQ
51 TPTDEVVVPY DTLESTPEDP EETKMLLDKL VVLKLNGGLG TTMGCTGPKS
101 VIEVRNGLTF LDLIVIQIES LNKKYGCSVP LLLMNSFNTH DDTQKIIEKY
151 SNSNIEIHTF NQSQYPRLVA DDFVPLPSKG HTDKDGWYPP GHGDVFPSLK
201 NSGKLDALLS QGKEYVFFVAN SDNLGAVVDL KILNHLIRNK NEYCMEVTPK
251 TLADVKGGTL ISYEGKVQLL EIAQVPDQHV NEFKSIEKFK IFNTNNLWVN
301 LKAIKRLVEA DALKMEIIPN PKEVDGVKVL QLETAAGAAI RFFDHAGIN
351 VPRSRFLPVK ASSDLLLVQS DIYTPVVDGF VIRNPGRANP ANPSIELGPE
401 FKKVASFLSR FKSIPSIIEL DSLKVAGDVW FGVNVTLKGK VSIVVKSGVK
451 LEIPEGVVLE NKEINGPKDL
```


Spot No.: **184**

NCBI accession No.: **gi|356576773** Species: *Glycine max*

Protein name: *seryl-tRNA synthetase-like*

PMF Mascot score: **92**

Sequence coverage %:**28**

Matched peptides No.: **17**

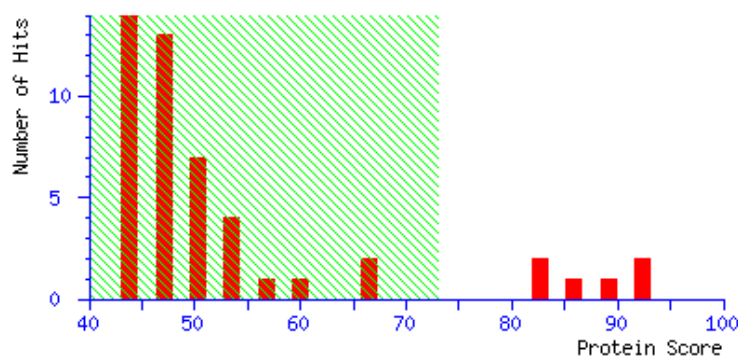
Total peptides No.: **53**

Calculated Mr: **51822**

Calculated pI:**6.04**

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 73 are significant ($p < 0.05$).



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

```
1  MLDINLFREE  KGHNPEFIRE  SQRRRFASVE  VVDEVINLDK  EWRKRQFELE
51 NLRKEFNKIN  KEVSKLKRAE  EDATKFISES  EETKKSSIGEK  EVEVRETLNL
101 LNSKLETIGN  LVHDSVPISQ  DEANNVVVRS  WGEKRVEPKL  KNHVDLVELL
151 GIADTKKGAD  VAGGRGFYLK  GDGVRLNQAL  INFGLDFLEK  REYTLLHTPF
201 FMRKDIMSKC  AQLAQFDEEL  YKVTGEGDDK  YLIATAEQPL  CAYHLDDWIH
251 PTQLPLRYAG  YSSCFRKEAG  SHGRDTLGIF  RVHQFVEQ  FCLTSPNDND
301 SWDMHEEMLK  NSEDFYKALN  LPYQVVSIVS  GALNDAAAKK  YDLEAWFPAS
351 QAYRELVSCS  NCTDYQARRL  EIRYGQKSN  EQMKQYVHLL  NSTLTATERT
401 ICCILENNQK  EDGVEIPEAL  RPFMGGKTFL  PFKNQPSNEA  KGKKSKA
```

Spot No.: **185**

NCBI accession No.: [gi|357514973](#) Species: *Medicago truncatula*

PFF score: **[51]**

Protein name: **annexin, putative**

Matched peptides No.: **[2]**

Sequence coverage %: **[7]**

Matched sequences: [R.SSEELLGAR.K](#);

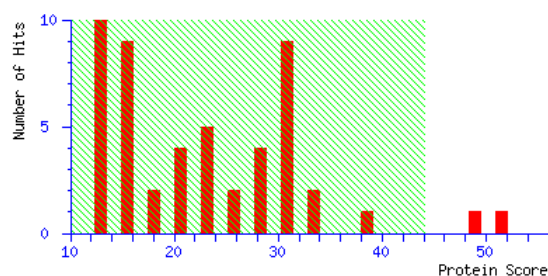
[R.FENALVIWAMHPWER.D + Oxidation \(M\)](#)

Calculated Mr: **35872**

Calculated pI: **6.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAHPPELEAL TKAFSGLGVD EKSLISILGK SHPEHRKSFR KGSPHLFIED
51 ERSFERWDDD SVHLLRQEFA RFENALVIWA MHPWERDARL IYEALREGPQ
101 SYGVIVEIAC TRSSEELLGA RKAYHSLFDH SIEEDVATHI SGTERKLLVA
151 LASAYRYEGP KVKEDSAKFE AKIFANAVKN GDKTNPIEDD EVIRILSTRS
201 KPHLKAVYKH YKEISGNGII EDLGAANLIL KETVECLCTP HAFFSKVLDK
251 AMRKDADHNT KKALTRVIVT QADIDLKEIS EQYNSLYGIP LSKKVEETAN
301 GNYKDFLLAL ISREN
```

Spot No.: **186**

NCBI accession No.: **gi| 1351887** Species: *Malus x domestica*

PFF score: **[63]**

Protein name: **Alcohol dehydrogenase**

Matched peptides No.: **[1]** Sequence coverage %: **[7]**

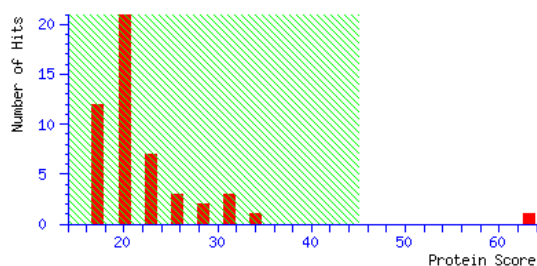
Matched sequences: **K.SMGMPDEDEAAVELAWSR.F**

Calculated Mr: **42066**

Calculated *pI*: **6.48**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAAAIRSLS  PSSTSSIFNK  SALPPLLRSL  SPSLNSRFQ  IRSMADSASS
51  PFKKVQIHRD  NTTFDAYVIG  KDDAPGIVVV  QEWVGVD FEI  KNHAEKISQL
101 EPGFKALIPD  LYRGKVGLDV  AEAQHLM DGL  DWQGAVKDIG  ASVNWLKANG
151 SKKAGVTGFC  MGGALAIASS  VLVPEVDAVV  AFYGVPPSEL  ADATQAKAPI
201 QAHFGELDNF  VGFADITAAK  ALEEKLKASG  VPSEVHIYPG  NAHAFMNRSA
251 EGVKRRKSMG MPDEDEAAVE LAWSRFRSWM  NQYLSA
```

Spot No.: **187**

NCBI accession No.: **gi|380468126** Species: *Hevea brasiliensis*

PFF score: **[123]**

Protein name: **caffeic acid 3-O-methyltransferase**

Matched peptides No.: **[3]** Sequence coverage %: **[11]**

Matched sequences: **K.NPEAPVLLDR.M;**

K.SWYHLNEAILEGGTPFNR.A;

R.AYGMNQFEYPGTDQR.F + Oxidation (M)

Calculated Mr: **40957**

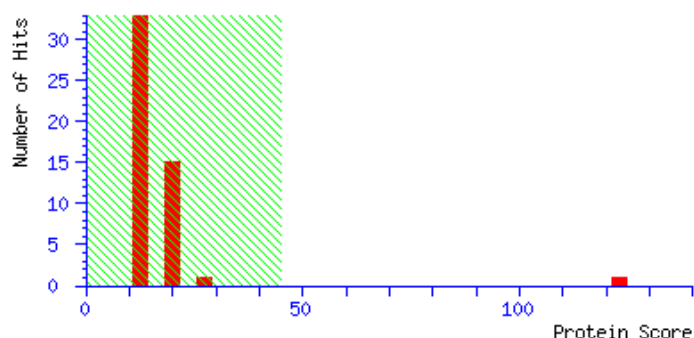
Calculated pI: **5.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTGSEQNSA  SIMSGRSDEE  TWNLAIDLAN  TVILPMVLKS  ALELNVIDII
51  STAGNSGASL  SAPEIAQRIP  EAKNPEAPVL  LDRMLRLLAT  YDIVKCSSNT
101 KENGEVERLY  APGPICKFLT  KNKNGSGSAA  PLLLLHHDEV  FMKSWYHLNE
151 AILEGGTPFN  RAYGMNQFEY  PGTDQRFNRV  FNDAMSSYTT  YLVKKILDAY
201 KGF DGLKSLV  DVG GNSGVTL  NSITSKYPHI  KGINYDLPHV  LADAPSYPGV
251 EHVAGDMFKS  VPKGDAILLK  WVLHDWDDDL  CLKLLKNCWE  ALPSNGKVIV
301 VESILPTVPE  NNVTSQVLHK  EDLMLLSFNV  G GKERTRQEF  EALASKSGFS
351 SCEFICCAYN  SWVIEFHK
```

Spot No.: **188**

NCBI accession No.: **gi|380468126** Species: *Hevea brasiliensis*

PFF score: **[117]**

Protein name: **caffeic acid 3-O-methyltransferase**

Matched peptides No.: **[2]**

Sequence coverage %: **[8]**

Matched sequences: **K.SWYHLNEAILEGGTPFNR.A;**

R.AYGMNQFEYPGTDQR.F + Oxidation (M)

Calculated Mr: **40957**

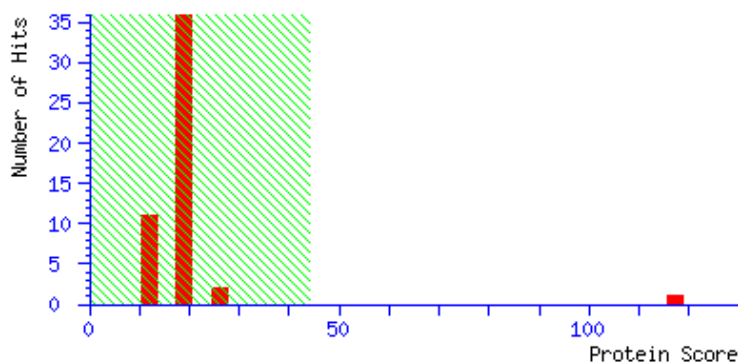
Calculated pl: **5.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTGSEQSNSA  SIMSGRSDEE  TWNLAIIDLAN  TVILPMVLKS  ALELNVIDII
51  STAGNSGASL  SAPEIAQRIP  EAKNPEAPVL  LDRMLRLLAT  YDIVKCSSNT
101 KENGEVERLY  APGPICKFLT  KNKNGSGSAA  PLLLLHHDEV  FMKSWYHLNE
151 AILEGGTPFN  RAYGMNQFEY  PGTDQRFNRV  FNDAMSSYTT  YLVKKILDAY
201  KGF DGLKSLV  DVG GNSGVTL  NSITSKYPHI  KGINYDLPHV  LADAPSYPGV
251  EHVAGDMFKS  VPKGDAILK  WVLHDWNDL  CLKLLKNCWE  ALPSNGKVIV
301  VESILPTVPE  NNVTSQVLHK  EDLMLLSFNV  G GKERTRQEF  EALASKSGFS
351  SCEFICCAYN  SWVIEFHK
```

Spot No.: **189**

NCBI accession No.: **gi|284433794** Species: *Jatropha curcas*

PFF score: **[159]**

Protein name: **glutathione S-transferase omega**

Matched peptides No.: **[3]**

Sequence coverage %: **[10]**

Matched sequences: **K.IIGESLDLIK.Y;**

K.YDITAGRPK.L;

K.ELVEFYK.K

Calculated Mr: **27480**

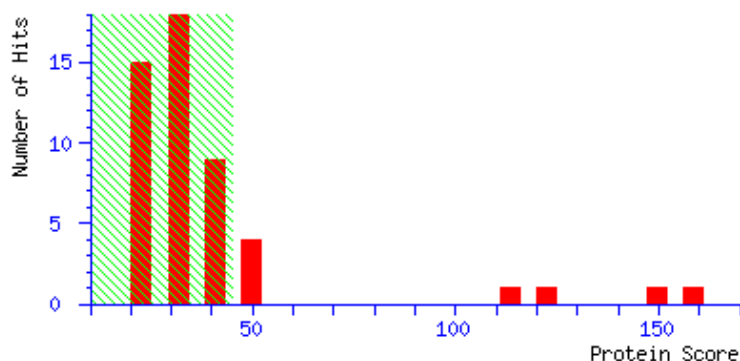
Calculated pI: **5.41**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAATALDKSL  PEKLPPIIDA  TAEQPPLFDG  TIRLYTSYAC  PFAQRVWITR
51  NYKGLQDKIK  LVPLNLQNRP  SWYGEKVYPA  NKVPALEHNG  KIIGESLDLI
101 KYIDANFEGP  SLLPDDPAKK  EFAEELFSYT  DTFTKTVFTS  FKGDVAKDAS
151  PAFDYLENAL  HKFEDGPFL  GQFSLVDIAY  IPFVERFQIF  FSEVFKYDIT
201 AGRPKLAAWI  EEMNKIEAYK  QTKTDPKELV  EFYKKRLLAQ
```

Spot No.: **190**

NCBI accession No.: **gi|255567721** Species: *Ricinus communis*

PFF score: **[52]**

Protein name: **carboxymethylenebutenolidase, putative**

Matched peptides No.: **[1]** Sequence coverage %: **[6]**

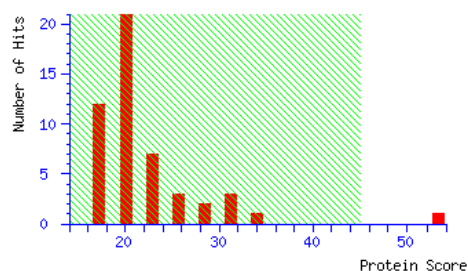
Matched sequences: **K.SMGMPDEDEAAVELAWSR.F + 2 Oxidation (M)**

Calculated Mr: **30833**

Calculated pI: **6.09**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAAAIRSLS  PSSTSSIFNK  SALPPLLRSL  SPSLNSRFQ  IRSMADSASS
51  PFKKVQIHRD  NTTFDAYVIG  KDDAPGIVVV  QEWWGVDFEI  KNHAEKISQL
101 EPGFKALIPD  LYRGKVGLDV  AEAQHLM DGL  DWQGAVKDIG  ASVNWLKANG
151 SKKAGVTGFC  MGGALAIASS  VLVPEVDAVV  AFYGVPPSEL  ADATQAKAPI
201 QAHFGELDNF  VGFADITAAK  ALEEKLKASG  VPSEVHIYPG  NAHAFMNRSA
251 EGVKRRKSMG MPDEDEAAVE LAWSRFRSWM NQYLSA
```

Spot No.: **191**

NCBI accession No.: **gi|125573095**

Species: *Oryza sativa Japonica Group*

PFF score: **[59]** Protein name: **hypothetical protein OsJ_04535**

Matched peptides No.: **[1]** Sequence coverage %: **[8]**

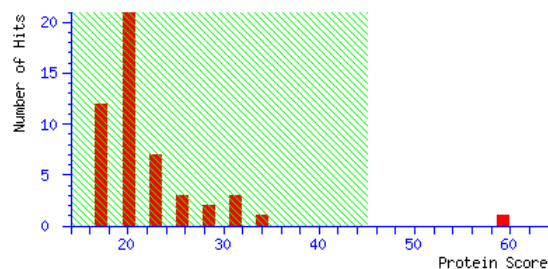
Matched sequences: **M.SSWNSPYDYDTSSYGAGSGGGGGGGR.R**

Calculated Mr: **29680**

Calculated pI: **10.36**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSSWNSPYDY TSSYGAGSGG GGGGGRRSSS PPRGAGDKKE TKTKDYQSYT
51 SNNNNNGSDD DKDKNKHKIT SSKHKKDEK DRNNHSDSH GGGNSSNYNK
101 DSYGGNSGNP NNYGSSSTGV VAGSGSYYGG GGGYGGNTS YGGSLSYGKD
151 GGYGGNSNPY GGGSSIIISG AAPIPHNFG FYLNRLAGSA AAAGRVRVGG
201 AGVHPRGGGE GHLPPHAARP RLIVVVVLAV AEVRERGRQE EERRRWIRIR
251 KQQRRRRRRV LRPSVPRRRR LHRPVCVN
```


Spot No.: **192**

NCBI accession No.: **gi|255542380** Species: *Ricinus communis*

Protein name: *cysteine synthase, putative*

PMF Mascot score: **82**

Sequence coverage %: **37**

Matched peptides No.: **13**

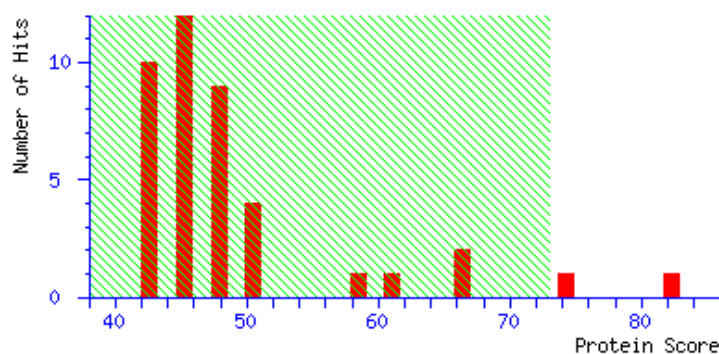
Total peptides No.: **59**

Calculated Mr: **34435**

Calculated pI: **5.50**

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 73 are significant ($p < 0.05$).



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

```
1  MVEEKSAIAK  DVTELVGKTP  LVYLNHVVDG  CVARIAAKLE  MMEPCSSVKD
51  RIGYSMITDA  EEKGLIKPGE  SVLIEPTSGN  TGIGLAFMAA  AKGYKLIITM
101 PASMSLERRM  VLRAFGAELV  LTDPARGMKG  AVQKAEIILA  KTPNSYILQQ
151  FENPANPKIH  YETTGPEIWK  GSGGKVDFV  SGIGTGGTVT  GAGGYLREQN
201  PDIKLIGVEP  VESAVLSGGK  PGPHKIQGIG  AGFIPGVLDV  SLLDEVVQIS
251  SEEAIETAKL  LALKEGLLVG  ISSGAAAAAA  IKIARRPENA  GKLIVVIFPS
301  FGERYLSSVL  FESVKREAES  MVFEP
```

Spot No.: **193**

NCBI accession No.: **gi|255562276** Species: *Ricinus communis*

PFF score: **[57]**

Protein name: **pyridoxine kinase, putative**

Matched peptides No.: **[1]** Sequence coverage %: **[4]**

Matched sequences: **K.LYVPELVAVYR.E**

Calculated Mr: **32436**

Calculated pI: **5.56**

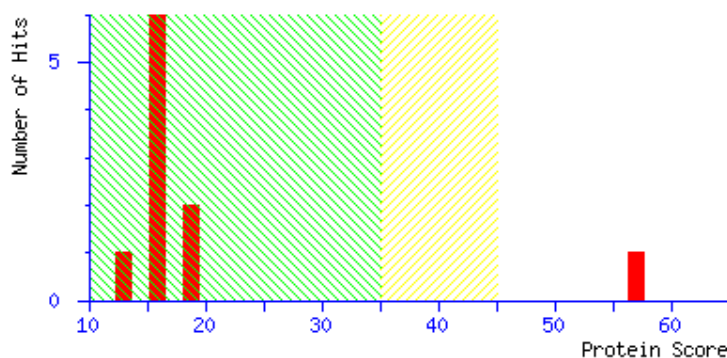
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 35 indicate peptides with significant homology.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAPPILSLAL  PSGTGRVLSI  QSHTVQGYVG  NKSAVFPLQI  LGYDVDPINS
51  VQFSNHTGYP  SVKGQVLNGQ  QLWDLIEGLE  GNDLLYYTHL  LTGYIGSVSF
101 LNTILEVVNK  LRSINPKLTY  VCDPVMGDEG  KLYVPELVA  VYREKVVPVA
151 SMLTPNQFEA  EQLTGFRIVT  EKDGREACNT  LHAAGPSKVI  ITSINIDGNL
201 LLVGSHQKEK  DQPPEQFKIE  IPKIPAYFTK  YPDNLGTAAE  LAVSSLQALL
251 QRTVNDYRSV  GYDPQSSSLE  IRLIQSQDDI  RHPQVKFKAE  KYD
```

Spot No.: **194**

NCBI accession No.: **gi|255552291** Species: *Ricinus communis*

PFF score: **[303]**

Protein name: **short chain dehydrogenase, putative**

Matched peptides No.: **[3]** Sequence coverage %: **[11]**

Matched sequences: **K.VALVTGGDSGIGR.A;**

K.DPIAIPTDVGFEENCR.K;

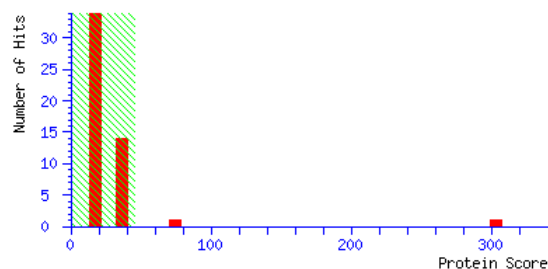
K.AEGAKDPIAIPTDVGFEENCR.K

Calculated Mr: **32148**

Calculated *pI*: **6.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATRRGYRFP  PQSQDKQPGK  EYLMHPLPEF  INPHYKPSNK  LQDKVALVTG
51  GDSGIGRAVS  YYFTLEGATV  AFTYVKGRED  KDKDHILKIL  HEVKAEGAKD
101 PIAIPTDVGF  EENCRKVIDQ  IMSEYGKIDI  LVNNAGEAHY  STTIEDITDP
151 MLERVFRTNI  FGHHFMSRHA  LKHMKEGGCI  INTASVAAYA  GFSFMVDYSS
201 TKGAVVAFTR  SLALQLIDRG  IRVNAVAPGS  VWTFFQPSTL  SAEQVAQVGS
251 GVPMDRAAQP  YEIAPSEVFL  ASNDCSSYFT  GQVLHPNGMF
```

Spot No.: **195**

NCBI accession No.: [gi|255543357](#) Species: *Ricinus communis*

Protein name: [heat shock protein, putative](#)

PMF Mascot score: **102**

Sequence coverage %: **27**

Matched peptides No.: **18**

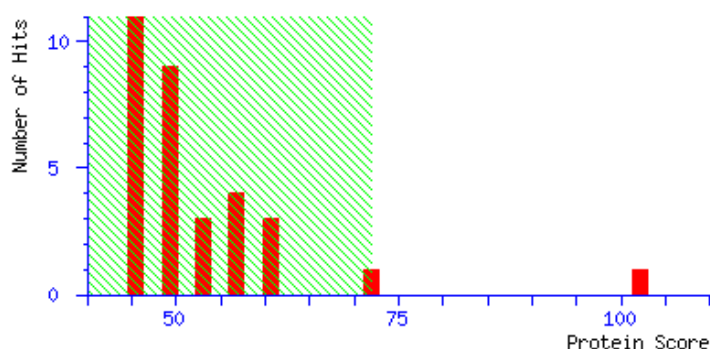
Total peptides No.: **61**

Calculated Mr: **71.965**

Calculated pI: **5.27**

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 73 are significant ($p < 0.05$).



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

```
1  MAKTEGKAVG  IDLGTTYSCV  GVWQNDRVEI  IANDQGNRTT  PSYVAFTDTE
51 RLIGDAAKNQ  VAMNPQNTVF  DAKRLIGRRF  SDPSVQSDMK  HWPFKVVPGP
101 GDKPMIVVLY KGEKQFAPE  EISSMVLIKM  KEIAEAYLGQ  TVKNAVITVP
151 AYFNDSQRQA TKDAGAISGL NVMRIINEPT AAAIAYGLDK  KGSRSGEKNV
201 LIFDLGGGTF  DVSLLTIEEG  IFEVKATAGD  THLGGEDFDN  RLVNHFVAEF
251 RRKHKKDIST  NARALRRLRT  ACERAKRTLS  STSQTTIEID  SLYEGIDFYS
301 TITRARFEEL  NMDLFRKME  PVEKCLRDSK  IDKSQVDDIV  LVGGSTRIPK
351 VQQLLQDFFN  GKELCKSINP  DEAVAYGAAV  QAAILSGEGD  QKVQELLLLD
401 VTPLSLGIET  AGGVMTVLIP  RNTIIPAKKE  QIFSTYSDNQ  PGVLIQVYEG
451 ERARTKDNNL  LGTFELKGIP  PAPRGVPQIN  VCFDIDANGI  LNVS AEDKTA
501 GVKNKITITN  DKGRLSKEDI  ERMVQEAEKY  KAEDQVKKK  VEAKNALENY
551 AYNMRNTVKD  EKFAGKLSA  DKQKIEKAID  ETIEWLDGNQ  LAEVDEFEDK
601 LKELEGLCNP  IVSKMYQGGA  GGDVPMGGGA  KPGSGYGNAS  SGGSGSGPKI
651  EEVD
```

Spot No.: 196

NCBI accession No.: [gi|224139936](#) Species: *Populus trichocarpa*

Protein name: predicted protein

PMF score: 82

Sequence coverage %: 15

Matched peptides No.: 80

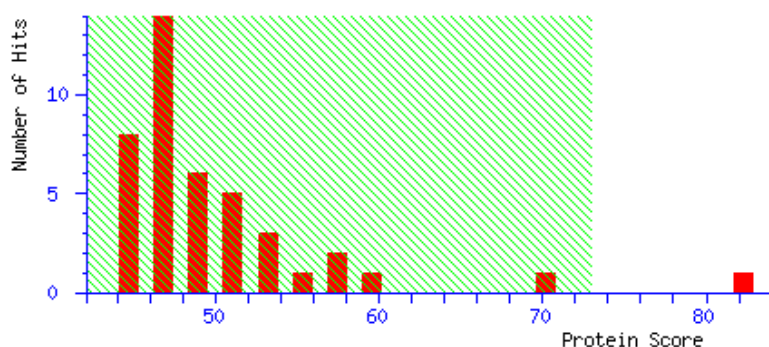
Total peptides No.: 22

Calculated Mr: 68859

Calculated pI: 7.90

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 73 are significant ($p < 0.05$).



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

```
1  MGSMFLNSPL  PASNKLIRVS  SKCDWCFLRW  RKRNVVVYCQ  GGGGKAIRSS
51  GFPSVLTERS  AVVSDQEHIA  SVRDAGSLVL  SPNEKGQPEI  AVEDFVPYGG
101 PTSSSLLEMQ  DGIGIVKFLR  GKGLFISGAT  GFLAKVLIEK  ILRTMPDVGK
151 IYVLIKAESK  EAAITRLKNE  IINAELFKL  RQTHGKSYQS  FMLNKLVPVV
201 GNVCESNLGL  EEDLADKIAN  EVDIIVNSAA  NTTFDERYDV  AIDVNTRGIC
251 HLMSFAKKCP  KLKLFLQVST  AYVNGQRQGR  IMEKPFLFGD  CIARENLIS
301 ESTPRFAPAL  DIEHEMNLAL  DSKEAFQENE  VAQKMKELGL  ERARKYGWQD
351 TYVFTKAMGE  MVVDNMRGDI  PVVIIRPSVI  ESTCKEPFPG  WMEGNRMMDP
401 IVLYYGKGQL  TGFLVDPNGV  LDVVPADMVV  NATLAAMAWH  GMEQKPDINV
451 YQIASSVVNP  LVFQDLATLL  HEHYNSSPYM  DSNGRPIHVP  SMKLFSSMEE
501 FSAHLWRYVT  QRSRLAGMAT  SDRKLSQKHE  NICRKSVEQA  KYLASIYEPY
551 TFYGGRFDNS  NTQKLMERMS  ENEKGIFGFD  VGSIDWRDYI  TNVHIPGLRR
601 HVMKGRGMCG
```

Spot No.: 197

NCBI accession No.: [gi|351727028](#) Species: *Glycine max*

Protein name: [cell division cycle protein 48 homolog](#)

PMF Mascot score: 174

Sequence coverage %: 42

Matched peptides No.: 37

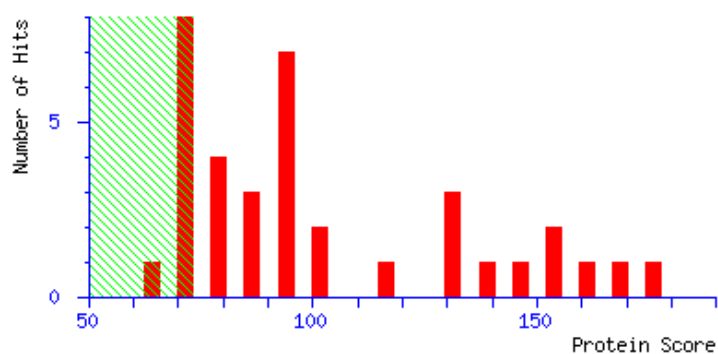
Total peptides No.: 90

Calculated Mr: 90512

Calculated pI: 5.18

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 73 are significant ($p < 0.05$).



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

```
1 MSQQGESSDF KSGKKDFSTA ILERKKSPNR LVVDEAVNDD NSVVTMHPQT
51 MEKLQLFRGD TILIKGKRRK DTICIALADE NCEEPKIRMN KVVRSNLRVR
101 LGDVVSVHQC PDVKYGKRVH ILPIDDTIEG VTGNLFD AFL KPYFLEAYRP
151 VRKGDLFLVR GGMRSVEFKV VETDPGEYCV VAPDTEIFCE GEPLKREDEE
201 RLDEVGYYDDV GGVRKQMAQI RELVELPLRH PQLFKSIGVK PPKGILLYGP
251 PGSGKTLIAR AVANETGAFF FCINGPEIMS KLAGESESNL RKAFEEAEKN
301 APSIIFIDEI DSIAPKREKT HGEVERRIVS QLLTLMDGLK SRAHVIVIGA
351 TNRPNSIDPA LRRFGRFDRE IDIGVPDEVG RLEVLRIHTK NMKLSDDVDL
401 ERIAKDTHGY VGADLAALCT EAALQCIREK MDVIDLEDET IDAEVLNSMA
451 VTNEHFQTAL GTSNPSALRE TVVEVPNVSW EDIGGLENVK RELQETVQYP
501 VEHPEKFEKF GMSPSKGVLF YGPPGCGKTL LAKAIANECQ ANFISVKGPE
551 LLTMWFGESE ANVREIFDKA RQSAPCVLFF DELDSIATQR GSSVGDAGGA
601 ADRVLNQLLT EMDGMSAKKT VFIIGATNRP DIIDPALLRP GRLDQLIYIP
651 LPDEDSRHQI FKACLRKSPI AKNVDLRALA RHTQGFSGAD ITEICQRACK
701 YAIRENIEKD IERERKSREN PEAMDEDTV DEVAEIKAAH FEESMKFARR
751 SVSDADIRKY QAFAQTLQQS RGFGEFRFP ESGDRTTTGS DPFAASAGGA
801 DEDDLYS
```


Spot No.: **198**

NCBI accession No.: **gi|4235430** Species: *Hevea brasiliensis*

Protein name: latex-abundant protein

PMF Mascot score: **180**

Sequence coverage %: **76**

Matched peptides No.: **22**

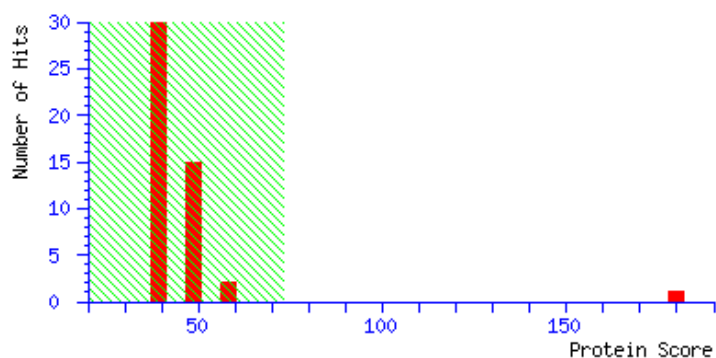
Total peptides No.: **58**

Calculated Mr: **46443**

Calculated pI: **5.01**

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 73 are significant ($p < 0.05$).



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

```
1  MAKKAVLIGI  NYPGTKAELK  GCINDVKRMY  RCLVDRYGFS  EEDITVLLDI
51  DESYIQPTGK  NIRRVLTDLV  RSAEPGDLLF  VHYSGHGTRL  PAETGEDDDT
101 GFDECIVPCD  MNLITDDDFR  EFVDQVPHGC  RITVVSDSCH  SGGLIDEAKE
151 QIGESTKRKE  EESESGFGFK  SFLKQTIQDA  FESRGVHLPS  DLHHHHGHRD
201 EEDFDNRVVE  EDYGDSGYVK  SKSLPLSTLI  EILKQKTGKD  DIDVGKLRPT
251 LDFMFGDDAS  PRVKKFMKVI  LNKLRHGDGE  SGGGGFLGMV  GSLAQEFLKH
301 KLDENDESIV  KPALETEVDS  KQEVYAGKTK  RSLPDGGILI  SGCQTDQ TSA
351 DASPSGKSSE  AYGALSNAIQ  TIIAETDGAV  TNQELVLKAR  KMLKKQGFTQ
401 KPGLYCSDDH  VEASFVC
```

Spot No.: 199

NCBI accession No.: [gi|198400319](#) Species: *Camellia sinensis*

PFF score: [57]

Protein name: [senescence-related protein](#)

Matched peptides No.: [1]

Sequence coverage %: [2]

Matched sequences: [K.GILWCGDVTVDRL](#)

Calculated Mr: 48662

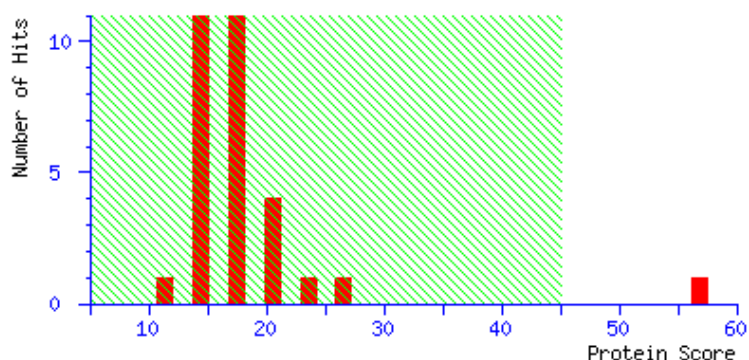
Calculated pI: 4.96

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSSQNPKNSL  YPQVDQSNPE  AISSSSSSPS  SSTIYPSIDM  KDLAENLFPD
51  NDSQNPNSQS  QLESSEEILI  RVPGTIVHLI  DKEQSVELAC  GELTIVRLLQ
101 GGNVVAVLAR  IDDQIQWPLA  KDEAAVKLDE  SHYFFTLRVP  SEAGFDNEED
151 NDEVNMESEN  LLNYGVTIAS  KGQEGLEAF  DSILEHYSAF  SVQKVSEAVD
201 GSVVARETSP  EEMESEEEKR  EMMEGSSAAY  WTLAPNVED  YSGNVARMIA
251 VGSQQLIKGI  LWCGDVTVDRL  LKWGNEFLKK  KLGPAQTKI  SPQAMRRMKR
301 VKLLTKMSEE  VATGILSGVV  KVSQFFTSSI  VNSSVGKKFF  SLLPGEIVLA
351 SLDGFNKVCD  AVEVAGRNVN  STTSVVTGL  VSQRYGEQAA  KVTNEGFDA
401 GHAIGIAWAV  FKIRKALNPK  SVIKPTTLAK  AAAETNYAAL  KAKSNKQT
```


Spot No.: **200**

NCBI accession No.: **gi|255570457** Species: *Ricinus communis*

PFF score: **[282]**

Protein name: **protease C56, putative**

Matched peptides No.: **[3]**

Sequence coverage %: **[8]**

Matched sequences: **R.APEYLAMNESVLDCVR.K;**

R.APEYLAMNESVLDCVR.K + Oxidation (M);

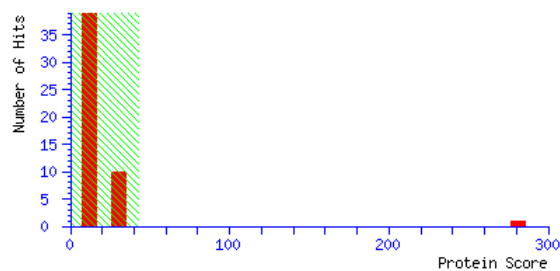
R.APEYLALDETVIALVK.Q

Calculated Mr: **42437**

Calculated pI: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSHQKTVFLL  CGDYMEDYEA  MVPFQALLAY  GVAVDAACPG  KKAGDYCRTA
51  IHESSEGHQTY  SESRGNFTL   NSTFDDIDFG  KYDGLVIPGG  RAPEYLAMNE
101 SVLDCVRKFA  DAGKPIASVC  HGQLILAAAG  LVKGRKCTAY  PPVRPVLIAA
151  GAHWVEPETM  ASCVADGNLI  TGATYEGHPE  FIQLFVKALG  GSITGADKRI
201  LFLCGDYMED  YEVTVPFQSL  QALGCHVNAV  CPKKKAGDSC  PTAVHDFEGD
251  QTYSEKPGHH  FTLTASYVGL  DVSSYDALVL  PGGRRAPEYLA  LDETVIALVK
301  QFMQSKKPVA  SICHGQQILA  AAGVLKGGKC  TAYPAVKLVN  VLSGATWLEP
351  DPIDRCYTDE  NLVTGAAWPG  HPEFISQLMA  LLGIRVSF
```

Spot No.: **201**

NCBI accession No.: **gi|32186896** Species: *Gossypium hirsutum*

Protein name: **actin**

PMF Mascot score: **149**

Sequence coverage %: **57**

Matched peptides No.: **21**

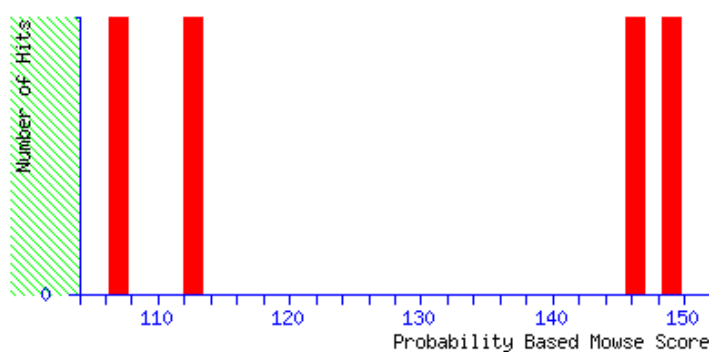
Total peptides No.: **38**

Calculated Mr: **41935**

Calculated pl: **5.44**

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 73 are significant ($p < 0.05$).



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

1 MADGEDIQPL VCDNGTGMVK **AGFAGDDAPR** **AVFPSIVGRP** **RHTGVMVGMG**
51 **HKDAYVGDEA** **QSKRGILTLK** YPIEHGIVSN WDDMEKIWHH TFYNELRVAP
101 **EEHPVLLTEA** **PLNPKANREK** MTHIMFETFN VPAMYVAIQV VLSLYASGRT
151 **TGIVLDSDGD** **VSHTVPIYEG** **YALPHAILRL** **DLAGRDLTDA** **LMKILTERGY**
201 **MFTTTAEREI** **VRDMKEKLAY** **VALDYEQELE** **TAKSSSSVEK** **NYELPDGQVI**
251 **TIGAERFRCP** EVLFQPSFIG MEAAGIHETT YNSIMKCDVD IRKDLYGNIV
301 **LSGGSTMFPF** **IAD RMSKEIT** ALAPSSMKIK **VVAPPERKYS** VWIGGSILAS
351 LSTFQQMWIS **KGEYDESGPS** **IVHRKCF**

Spot No.: **202**

NCBI accession No.: **gi|255560725** Species: *Ricinus communis*

Protein name: **dead box ATP-dependent RNA helicase, putative**

PMF Mascot score: **109**

Sequence coverage %: **54**

Matched peptides No.: **21**

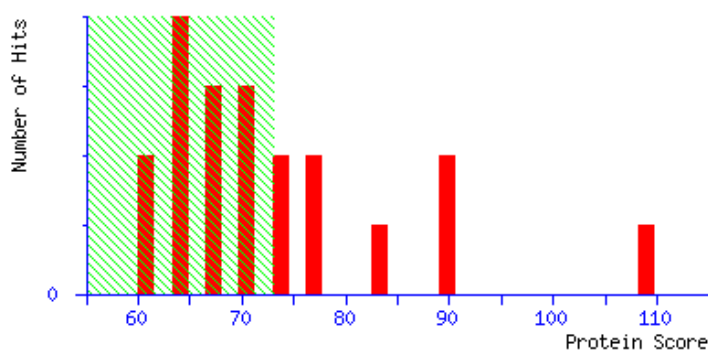
Total peptides No.: **76**

Calculated Mr: **47097**

Calculated pI: **5.49**

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 73 are significant ($p < 0.05$).



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

```
1  MAGLAPEGSQ  FDAKQYDAKM  SELLSTEGQE  FFTTYDEVYD  SFDAMGLQEN
51  LLRGIYAYGF  EKPSAIQQRG  IVPFCKGLDV  IQQAQSGTGK  TATFCSGILQ
101 QLDYGLVQCQ  ALVLAPTREL  AQQIEKVMRA  LG DYLGVKVH  ACVGGTSVRE
151 DQRILQAGVH  VVVGTPGRVF  DMLRRQSLRP  DYIKMFVLDE  ADEMLSRGFK
201 DQIYDIFQLL  PAKVQGVFVS  ATMPPEALEI  TRKFMNKPVR  ILVKRDELTL
251 EGIKQFYVNV  EKEEWKLETL  CDLYETLAIT  QSVIFVNTRR  KVDWLTDKMR
301 SRDHTVSATH  GDMDQNTRDI  IMREFRSGSS  RVLITDILLA  RGIDVQQVSL
351 VINYDLPTQP  ENYLHRIGRG  GRFGRKGVAI  NEVTRDDERM  LFDIQKFYNV
401 VIEELPSNVA  DLL
```

Spot No.: **203**

NCBI accession No.: **gi|14423688** Species: *Hevea brasiliensis*

PFF score: **[229]** Protein name: **Enolase 1**

Matched peptides No.: **[3]** Sequence coverage %: **[10]**

Matched sequences: **R.AGWGVMASHR.S + Oxidation (M);**

R.AAVPSGASTGIYEALR.D;

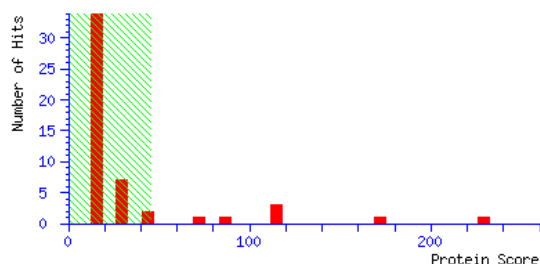
R.IEEELGSEAVYAGANFR.K

Calculated Mr: **48029**

Calculated pI: **5.57**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAITIVSVRA RQIFDSRGNP TVEADVKLSD GYLARAAAVPS GASTGIYEAL
51 ELRDGGSDYL GKGVSKAVEN VNIIIGPALV GKDPTDQVGI DNFMVQQLDG
101 TVNEWGWCKQ KLGANAILAV SLAVCKAGAH VKGIPLYEHI ANLAGNKNLV
151 LPVPAFNVIN GGS HAGNKLA MQEFMILPVG ASSFKEAMKM GAEVYHHLKS
201 VIKKKYGQDA TNVGDEGGFA PNIQENKEGL ELLKTAIAKA GYTGVVIGM
251 DVAASEFYGS DQTYDLNFKE ENNNGSQKIS GEALKDLYKS FVAEYPIVSI
301 EDPFDQDDWA HYAKLTSEIG EKVQIVGDDL LVTNPKRVEK AIKEKACNAL
351 LLKVNQIGSV TESIEAVKMS KRAGWGMAS HRSGETEDTF IADLSVGLAT
401 GQIKTGAPCR SERLAKYNQL LRIEEELGSE AVYAGANFRK PVEPY
```

Spot No.: **204**

NCBI accession No.: **gi|186898205** Species: *Hevea brasiliensis*

PFF score: **[311]** Protein name: **senescence-related protein**

Matched peptides No.: **[10]** Sequence coverage %: **[13]**

Matched sequences: **R.LSKEEIER.M;**

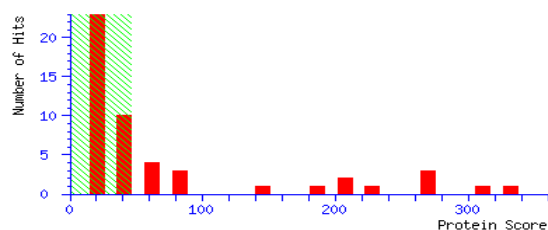
R.LVNHFVAEFK.G;
R.FEELNMDLFR.K;
R.FEELNMDLFR.K + Oxidation (M);
R.TTPSYVAFTDTER.L;
R.ARFEELNMDLFR.K;
R.ARFEELNMDLFR.K + Oxidation (M);
K.ATAGDTHLGGEDFDNR.L;
K.NAVITVPA YFNDSQR.Q;
R.IINEPTAAAIA YGLDKK.G

Calculated Mr: **72036**

Calculated *pl*: **5.27**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAPKTEGKAI GIDLGTIYSC VGVWQNDRVE IIANQGNRT TSPSYVAFTDT
51 ERLIGDAAKN QVAMNPQNTV FDAKRLIGRR FSDPSVQSDM KHWPFKVISG
101 PGDKPMIVVQ YKGEEKQFAP EEISSMVLTK MKEIAEAYLG QTVKNAVITV
151 PAYFNDSQRQ ATKDAGAIAG VNVMRIIINEP TAAAIA YGLD KKGSSTGEKN
201 VLIFDLGGGT FVSLLTIEE GIFEVKATAG DTHLGGEDFD NRLVNHFVAE
251 FKGKHKKDIS TNARALRRLR TARERAKRTL SSTSQTIEI DSYEGIDFY
301 ATITRARFEE LNMDLFRKCM EPVEKCLRDS KIDKSQVHDV VLVGGSTRIP
351 KVQQLLQDIF NGKELCKSIN PDEAVAYGAA VQAAILSSEG DEKVQDLLLL
401 DVTPLSLGIE TAGGVMTVLI PRNTIPTKK EQIFSTYS DN QPGVLIQVYE
451 GERARTKDNN LLGKFELTGI PPAPRGVPQI NVCFDIDANG IVNVAEDKT
501 AGVKNKITIT NDKGRLSKEE IERMVQEA EK YKAEDEEVKK KVEAKNSLEN
551 YAYNMRNTVK DDKFAGKLAP ADKGKIEKAI DETIEWLDRN QLAEVEEFED
601 KLKELEGLCN PIIAKMYQGG AGGDVPVGGGA EMPNSNYGKT SSGGSGAGPK
651 IEEVD
```

Spot No.: **205**

NCBI accession No.: **gi|255537027** Species: *Ricinus communis*

PFF score: **[63]**

Protein name: **heat shock protein 70 (HSP70)-interacting protein,**

Matched peptides No.: **[2]** Sequence coverage %: **[5]**

Matched sequences: **K.LVNAGIVQIR.-;**

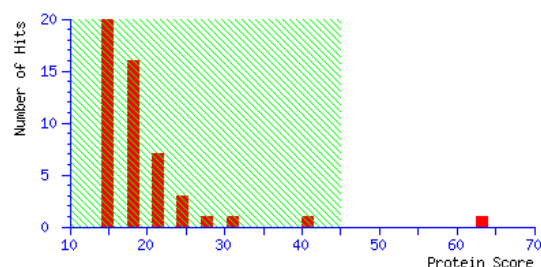
K.HDPQNQELLDGVR.R

Calculated Mr: **65386**

Calculated *pl*: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEAKAKGN AAFSAGDFTT AVKHFTEAIS IAPSNHVLYS NRSAAALASLH
51 NYADALTDK KTVELKPDWS KGYSRLGAAY LGLNQTQDAI SAYKKGLDID
101 PSNEALKSGL ADAQARFSAP PPPSPFGDA FNGPEMWAKL TADPSTRMYL
151 QQPDFVKMMQ EIQKNPNNLN LYLKQQRVMQ ALGVLLNLKF RAPNAGAEDM
201 EVPQEDDHSS SPPPQAEQPA KKAPQPEPEP EPMDVITEED KEAKERKAQA
251 VKEKELGNAA YKQKDFETAI SHYTTALELD DEDISYLTNR AAVYLEMGKY
301 EDCIKDCDKA VERGRELRSD FKMIARALTR KGTALVKMAK SSKDYDSAIE
351 TFQKALTEHR NPETLKKLNE AERAKKELEQ QEYFDPKLAD EEREKGNEYF
401 KQQKYPEAVK HYTESLRRNP EDPRAYSNRA ACYTKLGALP EGLKDAEKCI
451 ELDPTFTKGY TRKGAVQFFM KEYDKALETY QEGLKHDPQN QELLDGVRRC
501 VEQLNKASRG DLSPEELKER QAKAMQDPEI QNILSDPVMR QVLVDFQENP
551 KSAQDHMKNP MVMNKIQKLV NAGIVQIR
```

Spot No.: 206

NCBI accession No.: gi|302853426

Species: *Volvox carteri f. nagariensis*

Protein name: **hypothetical protein VOLCADRAFT_77867**

PMF score: 81

Sequence coverage %: 33

Matched peptides No.:14

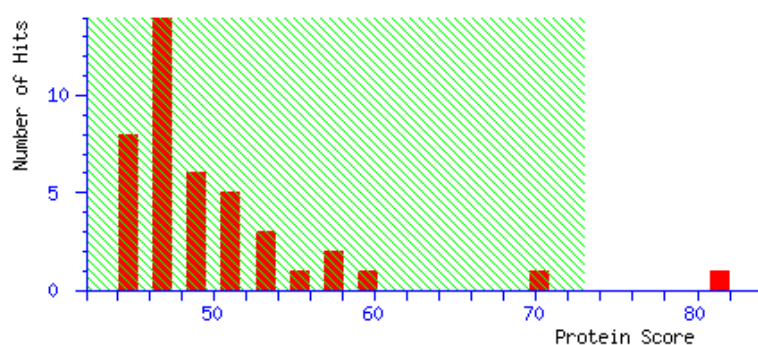
Total peptides No.:69

Calculated Mr: 65036

Calculated pI:8.96

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 73 are significant ($p < 0.05$).



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

```
1  MIKQQYLGQE  KIKKRVSRNG  GMGSRCSRW  RRGRWSLKPI  VTNTPLTPCS
51 EAALMFGRGM RAGIDRREQK  KAAASLEAEL  LRKARSAAGL  VETAETREHD
101 RERKRLLADQY DGFDMRIEKH  WTEKSLEEMT  ERDWRIFRED  FNIGYRGVNT
151 VLPIRKWEES  GLPSLLIKAI  DRVGYKKPSP  IQMAAIPLGL  QQRDVIGIAE
201 TGSGKTAA FV  LPMSYIMRQ  PPMTEENEAD  GPYAVVLAPT  RELAQQIEEE
251 THKLAYYTNY  RIASVVGQS  IEEQGAKLRK  GCEIVIATPG  RLDLCIDRHY
301 AVLNQCNYVV  LDEADRMIDL  GFEPQVIGVL  DAMPSSFLKP  DEDGAVLEAN
351 RTYRTTYMFS  ATMPPAVERL  AKKYLRRPVV  VVIGSAGKVT  DNVTQRVFVV
401 KENEKPRVLE  QEMESVDEKR  VIVFVNTQRQ  CDNVRHLEE  LGYRCTILHG
451 GKTQDQREAG  IKGFRDGTYN  CLIATDVAGR  GIDVPDVALV  INYDMPNNIE
501 NYTHRIGRTG  RAGKKGAVT  FLTLGDTGVF  YDLKKLEES  KAAVPELAR
551 HEASKLKPGS  IEAKSRKDQT  VFAA
```


Spot No.: **207**

NCBI accession No.: **gi|255537027** Species: *Ricinus communis*

PFF score: **[266]**

Protein name: **heat shock protein 70 (HSP70)-interacting protein,**

Matched peptides No.: **[3]** Sequence coverage %: **[5]**

Matched sequences: **K.LVNAGIVQIR.-;**

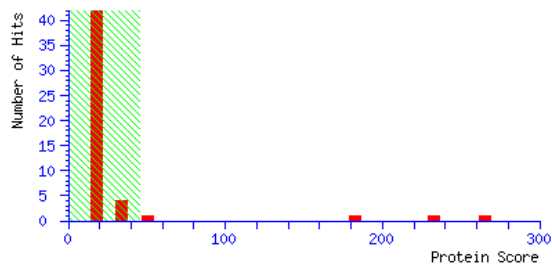
K.NPNNLNLYLK.D;
R.MYLQQPDFVK.M + Oxidation (M);
R.QVLVDFQENPK.S;
K.LGALPEGLKDAEK.C;
K.HDPQNQELLDGVR.R;
K.ALETYQGLKHDPQNQELLDGVR.R

Calculated Mr: **65386**

Calculated *pI*: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEAKAKGN AAFSAGDFTT AVKHFTEAIS IAPSNHVLYS NRSAALASLH
51 NYADALTDAK KTVELKPDWS KGYSRLGAAY LGLNQTQDAI SAYKKGLDID
101 PSNEALKSGL ADAQARFSAP PPPSPFGDA FNGPEMWAKL TADPSTRMYL
151 QQPDFVKMMQ EIQKNPNNLN LYLKDQRMQ ALGVLLNLKF RAPNAGAEDM
201 EVPQEDDHSS SPPPQAEQPA KKAPQPEPEP EPMDVITEED KEAKERKAQA
251 VKEKELGNAA YKQKFETAI SHYTTALELD DEDISYLTNR AAVYLEMGKY
301 EDCIKDCDKA VERGRELRS DFKMIARALTR KGTALVKMAK SSKDYDSAIE
351 TFQKALTEHR NPETLKKLNE AERAKKELEQ QEYFDPKLAD EEREKGNEYF
401 KQQKYPEAVK HYTESLRRNP EDPRAYSNRA ACYTKLGALP EGLKDAEKCI
451 ELDPFTFKGY TRKGAVQFFM KEYDKALETY QEGLKHDPQN QELLDGVRRC
501 VEQLNKASRG DLSPEELKER QAKAMQDPEI QNILSDPVMR QVLVDFQENP
551 KSAQDHMKNP MVMNKIQKLV NAGIVQIR
```


Spot No.: **208**

NCBI accession No.: **gi|255537027** Species: *Ricinus communis*

PFF score: **[68]**

Protein name: **heat shock protein 70 (HSP70)-interacting protein,**

Matched peptides No.: **[2]** Sequence coverage %: **[5]**

Matched sequences: **K.LVNAGIVQIR.-;**

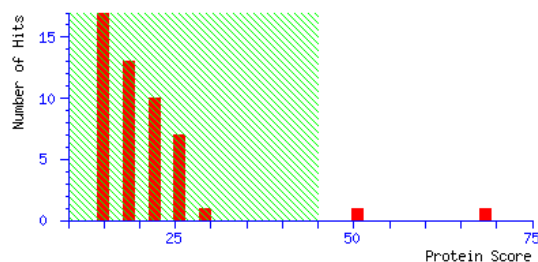
K.HDPQNQELLDGVR.R

Calculated Mr: **65386**

Calculated pI: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEAKAKGN AAFSAGDFTT AVKHFTEAIS IAPSNHVLYS NRSAALASLH
51 NYADALTDK KTVELKPDWS KGYSRLGAA Y LGLNQTQDAI SAYKKGLDID
101 PSNEALKSGL ADAQARFSAP PPPSPFGDA FNGPEMWAKL TADPSTRMYL
151 QQPDFVKMMQ EIQKNPNNLN LYLKDQRMVQ ALGVLLNLKF RAPNAGAEDM
201 EVPQEDDHSS SPPPQAEQPA KKAPQPEPEP EPMDVITEED KEAKERKAQA
251 VKEKELGNAA YKQKDFETAI SHYTTALELD DEDISYLTNR AAVYLEMGKY
301 EDCIKDCDKA VERGRELRS D FKMIARALTR KGTALVKMAK SSKDYDSAIE
351 TFQKALTEHR NPETLKKLNE AERAKKELEQ QEYFDPKLAD EEREKNEYF
401 KQQKYPEAVK HYTESLRRNP EDPRAYSNRA ACYTKLGALP EGLKDAEKCI
451 ELDPTFTKGY TRKGAVQFFM KEYDKALETY QEGLKHDPQN QELLDGVRRC
501 VEQLNKASRG DLSPEELKER QAKAMQDPEI QNILSDPVMR QVLVDFQENP
551 KSAQDHMKNP MVMNKIQKLV NAGIVQIR
```

Spot No.: **209**

NCBI accession No.: **gi|1346735** Species: *Ricinus communis*

PFF score: **[161]**

Protein name: **2,3-bisphosphoglycerate-independent
phosphoglycerate mutase**

Matched peptides No.: **[3]** Sequence coverage %: **[9]**

Matched sequences: **K.FGHVTFFWNGNR.S;**

K.LPSHYLVSPPEIER.T;

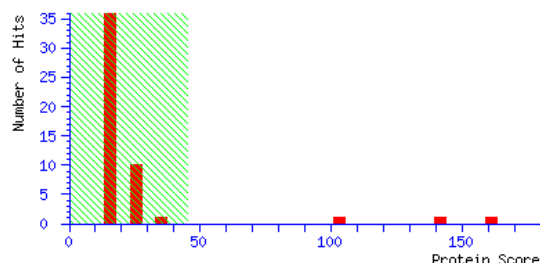
K.AHGTAVGLPTEDDMGNSEVGHNALGAGR.I + Oxidation (M)

Calculated Mr: **57374**

Calculated pI: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  GEFTWKLADH  PKLPKGKTIA  MVVLDGWGEA  KPDQYNCIHV  AETPTMDSFK
51  KTAPERWRLI  KAHGTAVGLP TEDDMGNSEV GHNALGAGRI YAQGAKLVDL
101 ALASGKIYEG  EGFKYVKECF  DKGTLHLIGL  LSDGGVHSRL  DQLQLLLKGA
151 AEHGAKRIRV  HVLTDGRDVI  DGTSVGFAET  LEKDLENLRE  KGVDAQVASG
201 GGRMYVTMDR  YENDWNVVKR  GWDAQVLGEA  PYKFKSAVEA  IKKLREEPKA
251 NDQYLPPFVI  VDENGKPVGP  IVDGDAVVTI  NFRADRMVML  AKALEYENFD
301 TFDVRVFPKI  HYAGMLQYDG  ELKLP SHYLV SPPEIERTSG EYLVHNGVHT
351 FACSETVKFG HVTFFWNGNR SGYFNPEMEE  YVEIPSDVGI  TFNVQPKMKA
401 IEIAEKARDA  ILSGKFQQVR  VNIPNGDMVG  HTGDVEATVV  GCKAADEAVK
451 MIIDAIEQVG  GIYVVTADHG  NAEDMVKRDK  SGKPMADKSG  KIQILTSHTL
501 QVPVIAIGGP  GLTPGVRFRS  DIPTGGLANV  AATVMNLHGF  EAPSDYEPTL
551 IEAVDN
```

Spot No.: **210**

NCBI accession No.: **gi|255537027** Species: *Ricinus communis*

PFF score: **[69]**

Protein name: **heat shock protein 70 (HSP70)-interacting protein**

Matched peptides No.: **[3]** Sequence coverage %: **[5]**

Matched sequences: **K.LVNAGIVQIR.-;**

K.HDPQNQELLDGVR.R;

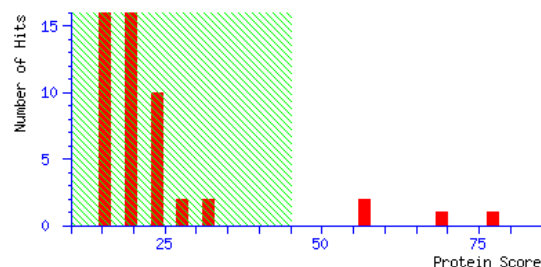
K.ALETYQEGLKHDPQNQELLDGVR.R

Calculated Mr: **65386**

Calculated *pI*: **5.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEAKAKGN AAFSAGDFTT AVKHFTEAIS IAPSNHVLYS NRSAAALASLH
51 NYADALTDK KTVELKPDWS KGYSRLGAAY LGLNQTQDAI SAYKKGLDID
101 PSNEALKSGL ADAQARFSAP PPPSPFGDA FNGPEMWAKL TADPSTRMYL
151 QQPDFVKMMQ EIQKNPNNLN LYLKDQVMQ ALGVLLNLKF RAPNAGAEDM
201 EVPQEDDHSS SPPPQAEQPA KKAPQPEPEP EPMDVITEED KEAKERKAQA
251 VKEKELGNAA YKQKDFETAI SHYTTALELD DEDISYLTNR AAVYLEMGKY
301 EDCIKDCDKA VERGRELRS DFKMIARALTR KGTALVKMAK SSKDYDSAIE
351 TFQKALTEHR NPETLKKLNE AERAKKELEQ QEYFDPKLAD EEREKGNEYF
401 KQQKYPEAVK HYTESLRRNP EDPRAYSNRA ACYTKLGALP EGLKDAEKCI
451 ELDPTFTKGY TRKGAVQFFM KEYDKALETY QEGLKHDPQN QELLDGVRRC
501 VEQLNKASRG DLSPEELKER QAKAMQDPEI QNILSDPVMR QVLVDFQENP
551 KSAQDHMKNP MVMNKIQKLV NAGIVQIR
```

Spot No.: **211**

NCBI accession No.: [gi|255556934](https://www.ncbi.nlm.nih.gov/nuccore/gi|255556934) Species: *Ricinus communis*

PFF score: **[1185]**

Protein name: **Transitional endoplasmic reticulum ATPase, putative**

Matched peptides No.: **[15]** Sequence coverage %: **[26]**

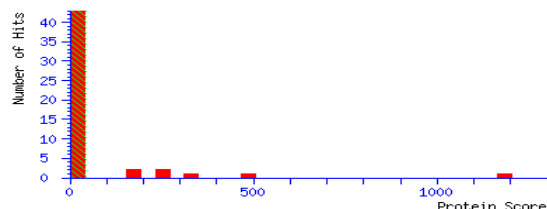
Matched sequences: **R.DFSTAILER.K;** **K.GVLFGYPPGCGK.T;**
R.EIDIGVPDEVGR.L; **R.LDEVGYYDDVGGVR.K;**
K.YQAFQAQTLQQSR.G; **R.LGDVVSVHQCPDVK.Y;**
R.KYQAFQAQTLQQSR.G; **R.LDQLIYIPLDEDSR.H;**
K.YTQGFSGADITEICQR.A; **R.EDENRLDEVGYYDDVGGVR.K;**
R.AHVIVIGATNRPN SIDPALR.R; **R.QSAPCVLFFDELDSIATQR.G;**
R.ELQETVQYPVEHPEKFEK.F; **R.ETVVEVPNVSWEDIGGLENVKR.E;**
K.DTHGYVGADLAALCTEALQCIR.E

Calculated Mr: **90355**

Calculated pI: **5.13**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSNQAESSDS KGTKRDFSTA ILERKKSPNR LVVDEAINDD NSVVS LHPET
51 MEK LQLFRGD TILIKGKRRK DTICIALADD SCDEPKIRMN KVVR SNLRVR
101 LGDVVSVHQC PDVKYGKRVH ILPIDDTIEG VTGNLFDAYL KPYFLEAYRP
151 VRKGD LFLVR GGMR SVEFKV IETDPAEYCV VAPDTEIFCE GEPVRREDEN
201 RLDEVGYDDV GGVRKQMAQI RELVELPLRH PQLFKSIGVK PPKGILLYGP
251 PGSGKTLIAR AVANETGAFF FCINGPEIMS KLAGESESNL RKAFAEEAEKN
301 APSIIFIDEI DSIAPKREKT HGEVERRIVS QLLTLM DGLK SRAHVIVIGA
351 TNRPNSIDPA LRRFGRFDRE IDIGVPDEVG RLEVLRIHTK NMKLAEDVDL
401 ERISKDTHGY VGADLAALCT EAALQCIREK MDVIDLEDET IDAEILNSMA
451 VSNEHFQIAL GTSNPSALRE TVVEVPNVSW EDIGGLENVK RELQETVQYP
501 VEHPEKPEKF GMSPSKGVLF YGPPGCGKTL LAKAIANECQ ANFISVKGPE
551 LLTMWFG ESE ANVREIFDKA RQSAPCVLFF DELDSIATQR GSSVGDAGGA
601 ADRVLNQ LLLT EMDGMSAKKT VFIIGATNRP DIIDPALLRP GRLDQLIYIP
651 LPDESRHQI FKACLRKSPV SKDVDLRALA KYTQGFSGAD ITEICQRACK
701 YAIRENIEKD IERERRRRDN PEAMEEDVED DVAEIKAAHF EESMKYARRS
751 VSDADIRKYQ AFAQTLQQSR GFGSEFRFSE ATGAAAGADP FAASAGGEAD
801 DDDLYS
```

Spot No.: **212**

NCBI accession No.: [gi|4588474](#)

Species: *Brassica napus*

PFF score: **[166]**

Protein name: [phosphoinositide-specific phospholipase C](#)

Matched peptides No.: **[3]**

Sequence coverage %: **[3]**

Matched sequences: [K.NDIDVLHGR.T](#);

[R.VIELDIWPNSNK.N](#);

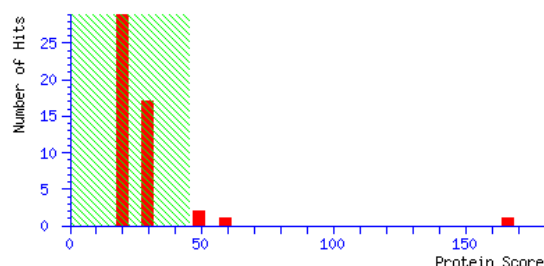
[R.VIELDIWPNSNKNDIDVLHGR.T](#)

Calculated Mr: **66632**

Calculated pI: **5.79**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSKQTYK VCF CFNRRFRYTA SEAPRDVKTL FDKYSENGVM TVDHLQRFLI
51 DVQKQDKATK EDAQSIINAA SSLLHSNGLH LDAFFKYLFG DSNPPLALHE
101 VHQMDAPIS HYFIFTGHNS YLTGNQLSSD CSEVPIIDAL KKGVRVIELD
151 IWPNSNKNDI DVLHGRTLTS PVELIKCLRA IKTHAFEVSD YPVVVTLEDH
201 LTPELQSKVA EMVTEIFGEI LFTPPVGESL KEFPSPNSLK RRIIISTKPP
251 KEYKEGKDED VVQKGKALGD EEVWGREVPS FIERNKSGDK DDLDEEDND
301 EDDVVEKFKK NAPPQYKHLI AIHAGKPKGS ITACLKVDPD KVRRLSLSEE
351 QLEKAAEKYA KQIVRFTQQN LLRIYPKGTR VTSSNYNPLV GWSHGAQMVA
401 FNMQGYGRSL WLMQGMFRAN GCGYIKKPD ILLKGGSDSD IFDPKTTLPV
451 KTTLRVTIYM GEGWYDFDRH THFDQYSPPD FYTRVGIAGV PADTVMKKTK
501 TLEDNWVPSW DEVFEFPLTV PELALLRLEV HEYDMSEKDD FGGQTCLPVW
551 ELQEGIRSFV LHNRRKEEKYK SVKLLVKVEF V
```

Spot No.: **213**

NCBI accession No.: [gi|4588474](#)

Species: *Brassica napus*

PFF score: **[116]**

Protein name: [phosphoinositide-specific phospholipase C](#)

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: [K.NDIDVLHGR.T](#);

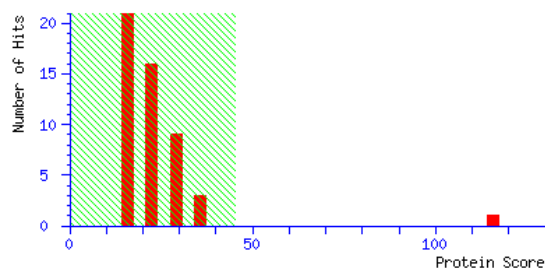
[R.VIELDIWPNSNKNDIDVLHGR.T](#)

Calculated Mr: **66632**

Calculated pl: **5.79**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSKQTYKVCF CFNRRFRYTA SEAPRDVKTL FDKYSENGVM TVDHLQRFLI
51 DVQKQDKATK EDAQSIINAA SLLHSNGLH LDAFFKYLFG DSNPPLALHE
101 VHQMDAPIS HYFIFTGHNS YLTGNQLSSD CSEVPIIDAL KKGVRVIELD
151 IWPNSNKNDI DVLHGRTLTS PVELIKCLRA IKTHAFEVSD YPVVVTLEDH
201 LTPELQSKVA EMVTEIFGEI LFTPPVGESL KEFSPNSLK RRIIISTKPP
251 KEYKEGKDED VVQKGKALGD EEVWGREVPS FIERNKSGDK DDLDEEDND
301 EDDVEKFKK NAPPQYKHLI AIHAGKPKGS ITACLKVDPD KVRRLSLSEE
351 QLEKAAEKYA KQIVRFTQQN LLRIYPKGR VTSSNYNPLV GWSHGAQMVA
401 FNMQGYGRSL WLMQGMFRAN GGCGYIKKPD ILLKGGSDSD IFDPKTTLPV
451 KTTLRVTIYM GEGWYDFDRH THFDQYSPPD FYTRVGIAGV PADTVMKKTG
501 TLEDNWVPSW DEVFEFPLTV PELALLRLEV HEYDMSEKDD FGGQTCLPVW
551 ELQEGIRSFP LHNKKEEKYK SVKLLVKVEF V
```

Spot No.: 215

NCBI accession No.: gi|32967699 Species: *Arabidopsis thaliana*

PFF score: [289]

Protein name: S-adenosyl-L-homocystein hydrolase

Matched peptides No.: [4] Sequence coverage %: [10]

Matched sequences: R.ITIKPQTDR.W;

K.SKFDNLYGCR.H;

K.GETLQEYWWCTER.A;

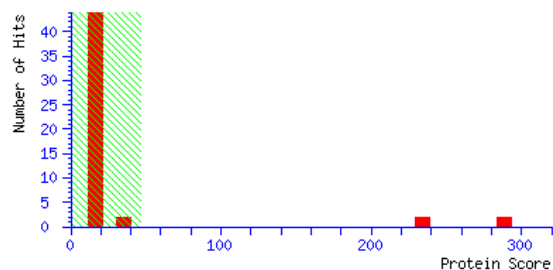
R.WVFPDTKSGIIVLAEGR.L

Calculated Mr: 53776

Calculated pI: 5.66

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALIVEKTSG GREYKVKDMS QADFGRLLE LAEVEMPGLM ACRTEFGPAQ
51 PFKGARITGS LHMTIQTAVL IETLTALGAE VRWCSCNIFS TQDHAAAAIA
101 RDSAAVFAWK GETLQEYWWC TERALDWGPG GGPDLIVDDG GDATLLIHEG
151 VKAEEIFEKT GQVPDPTSTD NPEFQIVLSI IKEGLQVDPK KYHKMKGRLV
201 GVSEETTTGV KRLYQMQESG ALLFPAINVN DSVTKSKFDN LYGCRHSLPD
251 GLMRATDVM IAGKVAVICGY GDVVGKCAAA MKTAGARVIV TEIDPICALQ
301 AMMEGLQVLT LEDVVSEADI FVTTTGNKDI IMVDHMRKMK NNAIVCNIGH
351 FDNEIDMQGL ETFFGVKRIT IKPQTDRWVF PDTKSGIIVL AEGRLMNLGC
401 ATGHPSFVMS CSFTNQVIAQ LELWNEKSSG KYEKKVYVLP KHLDEKVAAL
451 HLGKLGAKLT KLTKDQSDYV SIPIEGPYKP PHYRY
```


Spot No.: **216**

NCBI accession No.: [gi|336390551](#) Species: *Glycine max*

PFF score: **[327]**

Protein name: [adenosylhomocysteinase](#)

Matched peptides No.: **[7]** Sequence coverage %: **[21]**

Matched sequences: [R.HSLPDGLMR.A + Oxidation \(M\)](#);

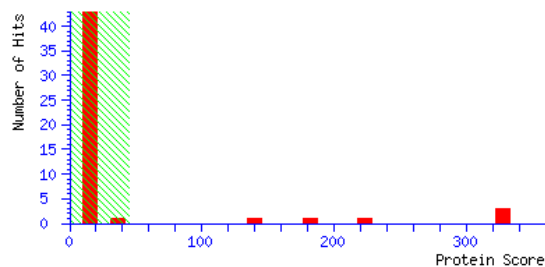
[R.ITIKPQTDR.W](#);
[K.SKFDNLYGCR.H](#);
[K.GETLQEYWWCTER.A](#);
[R.WVFPETNTGIIVLAEGR.L](#);
[R.WCSCNIFSTQDHAAAAIAR.D](#);
[R.ALDWGPGGPDLIVDDGGDATLLIHEGVK.A](#)

Calculated Mr: **53761**

Calculated pl: **5.69**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALLVEKTTS GREYKVKDLS QADFGRLIEE LAEVEMPGLM ACRTEFGPSQ
51 PFKGARITGS LHMTIQTAVL IETLTALGAE VRWCSCNIFS TQDHAAAAIA
101 RDSAAVFAWK GETLQEYWWC TERALDWGPG GGPDLIVDDG GDATLLIHEG
151 VKAEELYEKT GELPDPNSTD NAEFQIVLTI IRDGLKTDPT RYRKMKERLV
201 GVSEETTTGV KRLYQMANG TLLFPAINVN DSVTKSKFDN LYGCRHSLPD
251 GLMRATDVMI AGKVAVVAGY GDVGKGCAAA MKQAGARVIV TEIDPICALQ
301 ALMEGLQVLT LEDVVSEADI FVTTTGNKDI IMVDHMRKMK NNAIVCNIGH
351 FDNEIDMLGL ENYPGVKRIT IKPQTDRWVF PETNTGIIVL AEGRLMNLGC
401 ATGHPSFVMS CSFTNQVIAQ LGLWKEKSIG KYEKKVYVLP KHLDEKVAAL
451 HLGKLGAKLT QLSKSQADYI SVPVEGPKYP AHYRY
```


Spot No.: **217**

NCBI accession No.: [gi|6136111](#) Species: *Hordeum vulgare*

PFF score: **[52]**

Protein name: [UTP--glucose-1-phosphate uridylyltransferase](#)

Matched peptides No.: **[1]** Sequence coverage %: **[2]**

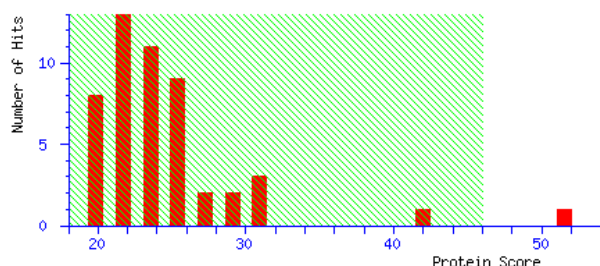
Matched sequences: [R.FFEKAIGINVPR.S](#)

Calculated Mr: **51783**

Calculated pI: **5.20**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAAAAVAADS  KIDGLRDAVA  KLGEISENEK  AGFISLVSRY  LSGEAEQIEW
51  SKIQTPTEV  VVPYDTLAPP  PEDLDAMKAL  LDKLVVLKLN  GGLGTTMGCT
101  GPKSVIEVRN  GFTFLDLIVI  QIESLNKKYG  CSVPLLLMNS  FNTHDDTQKI
151  VEKYSNSNIE  IHTFNQSQYP  RIVTEDFLPL  PSKGQTGKDG  WYPPGHGDVDF
201  PSLNNSGKLD  TLLSQGKEYV  FVANSNDLGA  IVDIKILNHL  IHNQNEYCME
251  VTPKTLADV  GGTLLSYEGR  VQLLEIAQVP  DEHVDEFKSI  EKFKIFNTNN
301  LWVNLKAIKR  LVDAEALKME  IIPNPKEVDG  VKVLQLETAA  GAAIRFFEKA
351  IGINVPRSRF  LPVKATSDLL  LVQSDLYTLV  DGYVIRNPAR  VKPSNPSIEL
401  GPEFKKVANF  LARFKSIPSI  VELDSLKVSG  DVSGSGVVL  KGNVTIAAKA
451  GVKLEIPDGA  VLENKDINGP  EDI
```

Spot No.: 218

NCBI accession No.: gi|14916100 Species: *Hevea brasiliensis*

PFF score: [802]

Protein name: hydroxymethylglutaryl coenzyme A

Matched peptides No.: [10] Sequence coverage %: [35]

Matched sequences: R.LVFNDFVR.N;

K.ARHELPPEK.F;

K.TFLMQIFEK.F + Oxidation (M);

K.VSQQVAKPLYDAK.V;

K.LAPFSNLSGDESYQNR.D;

R.YGLVVCTDSAVYAEGPAR.P;

K.QFSISDAEYFVFHSPYNK.L;

K.DCSLLASGTYYLTEVDSLVR.R;

R.GSHMSHAYDFYKPNLASEYPPVVDGK.L + Oxidation (M);

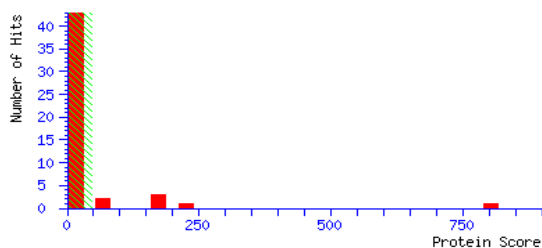
K.NVGILAVDIYFPPTFVQQEALAHGASK.G

Calculated Mr: 51761

Calculated pI: 6.86

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAKNVGILAV  DIYFPPTFVQ  QEALAHGGA  SKGKYIIGLG  QDCMAFCTEV
51  EDVISMSLTA  VTSLLDKYNI  DPKQIGRLEV  GSETVIDKSK  SIKTFLMQIF
101 EKFGNTDIEG  VDSTNACYGG  TAALFNCVNW  VESSWDGRY  GLVVCTDSAV
151 YAEGPARPTG  GAAAIAILVG  PDAPIAFESK  FRGSHMSHAY  DFYKPNLASE
201 YPVVDGKLSQ  TCYLMALDSC  YKHFCAYEK  FEGKQFSISD  AEYFVFHSPY
251 NKLVQKSFAR  LVFNDFVRNA  RSIDETAKEK  LAPFSNLSGD  ESYQNRDLEK
301 VSQQVAKPLY  DAKVKPTTLI  PKQVGNMYTA  SLYAAFASLL  HSKHTELAGK
351 RVTLFSYSGS  LTATMFSLRL  HEGQHPFSL  NIASVMNVAG  KLKARHELPP
401 EKFVNIMKLM  EHRYGAKDFV  RSKDCSLLAS  GTYYLTEVDS  LYRRFYAQA
451 VGNTVENGLL  ANGH
```

Spot No.: **219**

NCBI accession No.: [gi|307707110](#) Species: *Prunus armeniaca*

PFF score: **[181]**

Protein name: **NAD-dependent malate dehydrogenase**

Matched peptides No.: **[4]** Sequence coverage %: **[19]**

Matched sequences: [R.LNVQVSDVK.N](#);

[K.VLVVANPANTNALILK.E](#);

[R.KLSSALSAASSACDHIR.D](#);

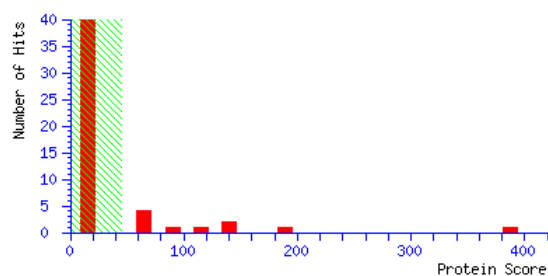
[K.NVIIWGNHSSTQYPDVNHATVK.T](#)

Calculated Mr: **34812**

Calculated pI: **5.92**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 VTGAAGQIGY ALVPMIARGV MLGADQPVIL HLLDIPPAAE ALNGVKMELV
51 DAAFPLLKGV VATTDVVEAC TGVNIAVMVG GFPRKEGMER KDVMSKNVSI
101 YKSQASALEK HAAANCKVLV VANPANTNAL ILKEFAPSIP EKNITCLTRL
151 DHNRALGQVS ERLNVQVSDV KNVIIWGNHS STQYPDVNHA TVKTPSGEKA
201 VRELVADDAW LTGEFITTQV QRGAAIIKAR KLSSALSAAS SACDHIRDWV
251 LGTPEGTWVS MGVYSDGSYN VPSGLIYSFP VTCQNGEWKN VQGLSIDEFS
301 RKKLDATADE LSEEKALAYS CLS
```

Spot No.: **220**

NCBI accession No.: **gi|357137038**

Species: *Brachypodium distachyon*

PFF score: **[357]**

Protein name: **phosphoglycerate kinase, cytosolic-like**

Matched peptides No.: **[6]**

Sequence coverage %: **[20]**

Matched sequences: **K.KPFAAIVGGSK.V;**

K.ELDYLVGAVANPK.K;

K.GVTTIIGGGDSVAAVEK.A;

K.LASVADLYVNDAFGTAHR.A;

K.KLASVADLYVNDAFGTAHR.A;

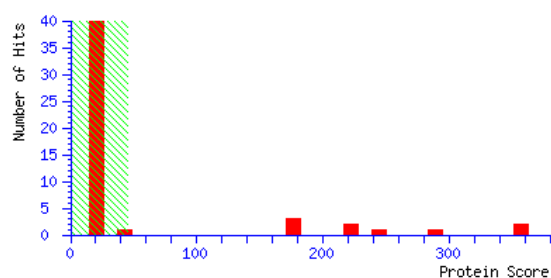
K.VVPASAIPDGWMGLDVGPDAIK.T + Oxidation (M)

Calculated Mr: **42207**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATKRSVGTL  GEADLKGKKV  FVRADLNVPL  DDAQKITDDT  RIRASVPTIK
51  FLLEKGAKVI  LASHLGRPKG  VTPKFSLKPL  VPRLSELLGI  DVVMANDCIG
101 EEVEKLAAAL  PDGGVLLLEN  VRFYKEEEKN  DPEFAKKLAS  VADLYVNDAF
151 GTAHRAHAST  EGVTKFLRPS  VAGFLMQKEL  DYLVGAVANP  KKPFAAIVGG
201 SKVSSKIGVI  ESLLAKVDIL  ILGGGMIFTF  YKAQGLAVGK  SLVEEDKLEL
251 ATSLIETAKA  KGVKLLLPID  VVVADKFAAD  AESKVVPASA  IPDGWMGLDV
301 GPDAIKTFSE  ALDTCKTIIW  NGPMTGFVFE  KFAAGTDAIA  KQLAELTAKG
351 VTTIIGGGDS  VAAVEKAGLA  DKMSHISTGG  GASLELLEGK  PLPGVLALDE
401  A
```

Spot No.: **221**

NCBI accession No.: [gi|357514973](#) Species: *Medicago truncatula*

PFF score: **[99]**

Protein name: **Annexin D4**

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: [K.LLVALVSAYR.Y](#);

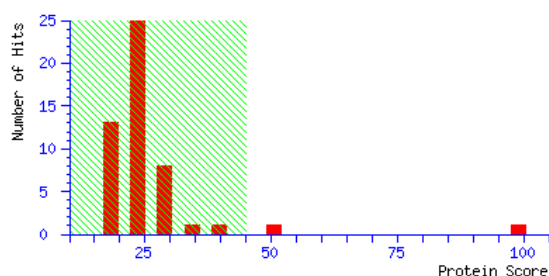
[R.KLLVALVSAYR.Y](#)

Calculated Mr: **36283**

Calculated pI: **8.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAFNQELEAI  TQAFSGHGVD  EKSLIAVLGK  WDPLERETYR  KKTSHFFIED
51  HERQFQRWND  HCVRLKHEF  VRFKNAVVLW  SMHPWERDAR  LAKEALKKGS
101 ISYGVLEIEA  CTRSSEELG  ARKAYHSLFD  HSIEEDVASH  IHGNDRKLLV
151 ALVSAYRYEG  TKVKDDTAKS  EAKTLSNAIK  NAQNKPIVED  DEVIRILATR
201 SKLHLQAVYK  HYKEISGKNL  EEDLNDLRFK  ETVQCLCTPQ  VYFSKVLDAE
251 LKNDVNKNIK  KSLTRVIVTR  ADIDMKEIKA  EYNNLYGVSL  PQKIEETAKG
301 NYKDFLLTLI  ARGG
```

Spot No.: 222

NCBI accession No.: gi|21536853 Species: *Arabidopsis thaliana*

PFF score: [314]

Protein name: phosphoglycerate kinase, putative

Matched peptides No.: [6] Sequence coverage %: [17]

Matched sequences: K.YSLKPLVPR.L;

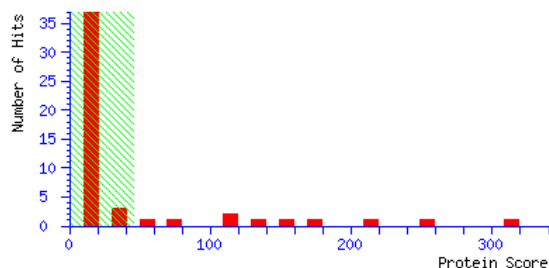
K.ELDYLVGAVANPK.K;
K.YLKPSVAGFLMQK.E + Oxidation (M);
K.GVSLLLPTDVVIADK.F;
K.LAALADVYVNDVAFGTAHR.A;
K.KLAALADVYVNDVAFGTAHR.A

Calculated Mr: 42178

Calculated pI: 5.49

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATKRSVGTI KEADLKGKSV FVRVDLNVPL DDNSNITDDT RIRAAVPTIK
51  YLMGNGSRVV LCSHLGRPKG VTPKYSLKPL VPRLSELLGV EVVMANDSIG
101 EEVQQLVAGL PEGGVLLLEN VRFYAEEEKN DPEFAKKLAA LADVYVNDVAF
151 GTAHRAHAST EGVAKYLKPS VAGFLMQKEL DYLVGAVANP KKPFAAIVGG
201 SKVSTKIGVI ELLNTVDIL LLGGGMIFTF YKAQGLSVGS SLVEEDKLDL
251 AKSLMEKAKA KGVSLLLPTD VVIADKFAPD ANSKIVPATA IPDGWMGLDI
301 GPDSIKTFSE ALDTTKTIIW NGPMGVFEFD KFAAGTEAVA KQLAELSGKG
351 VTTIIGGGDS VAAVEKVGLA DKMSHISTGG GASLELIEGK PLPGVLALDE
401 A
```

Spot No.: 223

NCBI accession No.: gi|255547137 Species: *Ricinus communis*

PFF score: [77]

Protein name: Alpha-1,4-glucan-protein synthase

Matched peptides No.: [2] Sequence coverage %: [5]

Matched sequences: K.DINALEQHIK.N;

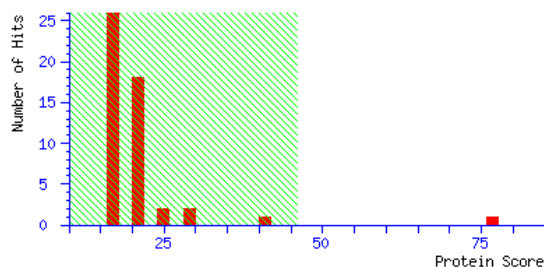
K.VICDHLGFGVK.T

Calculated Mr: 41557

Calculated pI: 5.82

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MADFAAISPT PLLKDELDIRV IPTIRNLDFL EMWRPFFQPY HLIIVQDGDV
51 SKIIKVPEGF DYELYNRNDI NRILGPKASC ISFKDSACRC FGYMVSKKKY
101 IYTIDDDCFV AKDPSGKDIN ALEQHIKNLL CPSTPFFFNT LYDPYRTGAD
151 FVRGYPFSLR EGVPTAVSHG LWLNIPDYDA PTQLVKPLER NTRYVDAVMT
201 IPKGTLFPMC GMNLAFNREL IGPAMYFGLM GDGQPIGRYD DMWAGWCTKV
251 ICDHLGFGVK TGLPYIYHSK ASNPFVNLKK EYKGIYWQEE LIPFFQSAVL
301 PKECTTVQKC YIELSKQVRA KLGKIDEYFV KLADAMVTWV EAWDELNPSG
351 NSGELPNGAA K
```

Spot No.: 224

NCBI accession No.: gi|380468126 Species: *Hevea brasiliensis*

PFF score: [922]

Protein name: caffeic acid 3-O-methyltransferase

Matched peptides No.: [9] Sequence coverage %: [42]

Matched sequences: R.LYAPGICK.F;

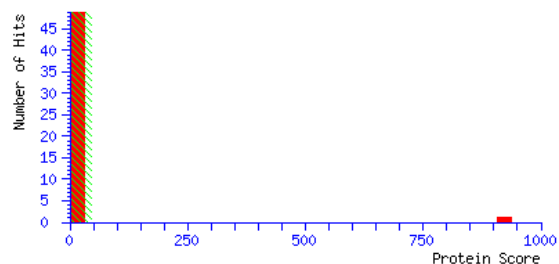
K.NPEAPVLLDR.M;
R.TRQEFALASK.S;
K.WVLHDWDDCLCLK.L;
R.AYGMNQFEYPGTDQR.F + Oxidation (M);
K.SWYHLNEAILEGGTPFNR.A;
K.VIVVESILPTVPENNVTSQVLHK.E;
K.SALELNVIDIISTAGNSGASLSAPEIAQR.I;
K.GINYDLPHVLADAPSYPGVEHVAGDMFK.S + Oxidation (M)

Calculated Mr: 40957

Calculated pI: 5.54

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTGSEQNSA  SIMSGRSDEE  TWNLAIDLAN  TVILPMVLKS  ALELNVIDII
51 STAGNSGASL SAPEIAQRIP EAKNPEAPVL LDRMLRLLAT YDIVKCSNT
101 KENGEVERLY APGPICKFLT KNKNGSGSAA PLLLLHHDEV FMKSWYHLNE
151 AILEGGTPFN RAYGMNQFEY PGTDQRFNRV FNDAMSSYTT YLVKKILDAY
201 KGF DGLKSLV  DVGGNSGVTL  NSITSKYPHI  KGINYDLPHV LADAPSYPGV
251 EHVAGDMFKS VPKGDAILLK WVLHDWDDL CLKLLKNCWE ALPSNGKVIV
301 VESILPTVPE NNVTSQVLHK EDLMLLSFNV  GGKERTRQEF  EALASKSGFS
351 SCEFICCAYN  SWVIEFHK
```


Spot No.: 225

NCBI accession No.: gi|255570457 Species: *Ricinus communis*

PFF score: [237]

Protein name: protease C56, putative

Matched peptides No.: [3] Sequence coverage %: [10]

Matched sequences: K.YDGLVIPGGR.A;

R.APEYLALDETVIALVK.Q;

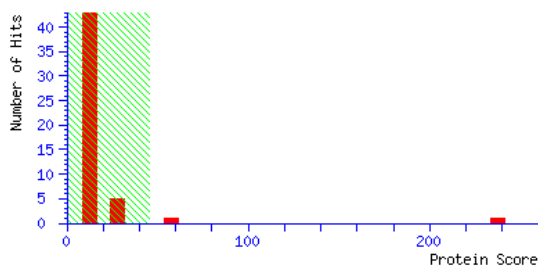
R.APEYLAMNESVLDCVR.K + Oxidation (M)

Calculated Mr: 42437

Calculated pI: 5.60

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSHQKTVFLL CGDYMEDYEA MVPFQALLAY GVAVDAACPG KKAGDYCRTA
51 IHESSGHQTY SESRGNFTL NSTFDDIDFG KYDGLVIPGG RAPEYLAMNE
101 SVLDCVRKFA DAGKPIASVC HGQLILAAAG LVKGRKCTAY PPVRPVLIAA
151 GAHWVEPETM ASCVADGNLI TGATYEGHPE FIQLFVKALG GSITGADKRI
201 LFLCGDYMED YEVTVPFQSL QALGCHVNAV CPKKKAGDSC PTAVHDFEGD
251 QTYSEKPGHH FTLTASYVGL DVSSYDALVL PGGRRAPEYLA LDETVIALVK
301 QFMQSKKPVA SICHGQQILA AAGVLKGGKC TAYPAVKLNV VLSGATWLEP
351 DPIDRCYTDE NLVTGAAWPG HPEFISQLMA LLGIRVSF
```

Spot No.: 226

NCBI accession No.: gi|224131618 Species: *Populus trichocarpa*

PFF score: [172]

Protein name: predicted protein

Matched peptides No.: [2] Sequence coverage %: [18]

Matched sequences: K.ASGIPYEVHIYPGNAHAFMNR.S + Oxidation (M);

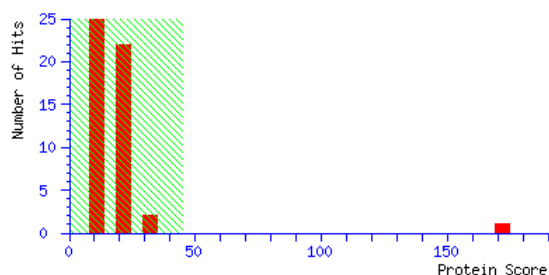
K.APVQAHFGELDNFVGFSDVTAAK.A

Calculated Mr: 26246

Calculated pI: 5.24

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAGSASQPFK  KIQIQRDDTT  FDAYVVGKED  APGIVVLQEW  WGVDFEIKNH
51  AVKISQLGPG  FKALIPDLR  GKVGLDVAEA  QHLMGGLDWQ  GAVKDIQASV
101  NWLKTNGSSK  AGVTGFCMGG  ALSIASSVLV  PEVDAVAFY  GVPSSQLADP
151  AQAKAPVQAH  FGELDNFVGF  SDVTAAKALE  EKLKASGIPY  EVHIYPGNAH
201  AFMNRSPEGV  MRRKGMGLPD  EDEASAELAW  SRFTTWMTRY  LSA
```

Spot No.: 227

NCBI accession No.: gi|333690873 Species: *Hevea brasiliensis*

PFF score: [386]

Protein name: glutathione-S-transferase tau 1

Matched peptides No.: [8] Sequence coverage %: [29]

Matched sequences: R.FWADFIDK.K;

K.VYEFVLVLK.K;

R.FWADFIDKK.I;

K.YEYREEDLR.N;

K.SPFLPSDPYQR.A;

K.SPLLLQMNPNVHK.K + Oxidation (M);

K.DKSPFLPSDPYQR.A;

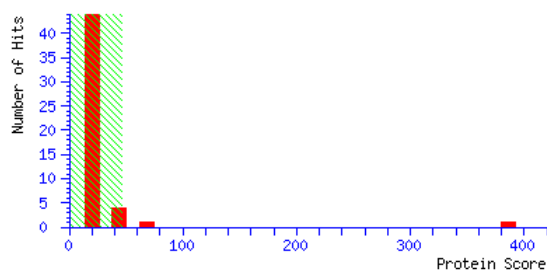
K.ESVSESVPDPEKVYEFVLVLK.K

Calculated Mr: 25595

Calculated pI: 5.48

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVILLDF WSPSPFGMRVR IALAEKGVKY EYREEDLRNK SPLLLQMNPNV
51 HKKIPVLIHN GKPICESLIA VQYVDEVWKD KSPFLPSDPY QRAQARFWAD
101 FIDKKIYDIG RKIWTTKGDE QEAAKKEFIE ALKLELEGELG NKPYFGGESH
151 GYVDVALIPF YSWFYAYETC GNFSIEPECP VLIAWAKRCL QESVSESVP
201 DPEKVYEFVL VLKKKFGIE
```

Spot No.: 228

NCBI accession No.: gi|211906460 Species: *Gossypium hirsutum*

PFF score: [243]

Protein name: triosephosphate isomerase

Matched peptides No.: [2] Sequence coverage %: [15]

Matched sequences: K.VIACIGETLEQR.E;

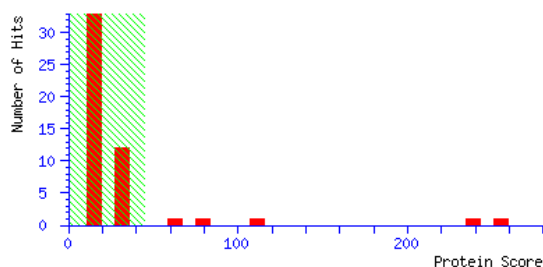
K.ELAAQPDVDGFLVGGASLKPEFIDIHK.S

Calculated Mr: 27472

Calculated pl: 6.00

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MGRKFFVGGN WKCNGTTEEV NKIVSTLNAG EVPSQDVVEV VVSPPFVFLP
51 LVKTSLRPDF HVAAQNCWVK KGGAFTEGEVS AEMLVNLSIP WVIIGHSERR
101 LILKESNEFV ADKVAYALAQ GLKVIACIGE TLEQREAGST VAVVAEQTKA
151 IAAKISNWD VVLAYEPWA IGTGKVATPA QAQEVHCELR KWLQANVSPE
201 VAASTRIIYG GSVTAANCKE LAAQPDVDGF LVGGASLKPE FIDIKSAEV
251 KKNA
```

Spot No.: 229

NCBI accession No.: gi|255568460 Species: *Ricinus communis*

PFF score: [93]

Protein name: glutathione-s-transferase omega, putative

Matched peptides No.: [2] Sequence coverage %: [13]

Matched sequences: K.YDITAGRPK.L;

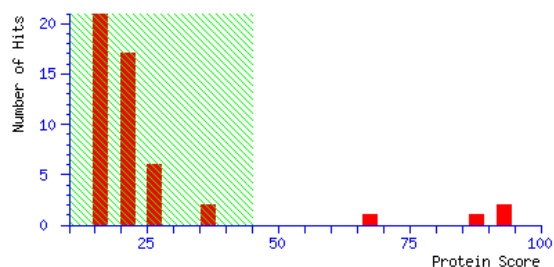
K.FDDGPFLLGQFSLVDIA YIPFVER.L

Calculated Mr: 27477

Calculated pI: 5.13

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAAATALDKS AQENLPPILD AAADQPPLFD GTIRLYTAYA CPFAQRVWIT
51 RNYKGLQDSI KLVPLNLQNR PSWYPEKVYS VNKVPALEHN GKIIGESLDL
101 IKYVDSNFEG PSLFPDDPAK REFAEELFSY TDTFSRTVFT SFKGDVAKEA
151 GPAFDYLENA LQKFDDGPFL LGQFSLVDIA YIPFVERLEI FLSEVFKYDI
201 TAGRPKLAAW VGEVNKIGAY KQTKTDPKEL VEYYKKRFFA QQ
```

Spot No.: 230

NCBI accession No.: gi|2970051 Species: *Vigna radiata*

PFF score: [104]

Protein name: ARG10

Matched peptides No.: [2] Sequence coverage %: [12]

Matched sequences: K.SANEVILVIEAYK.A;

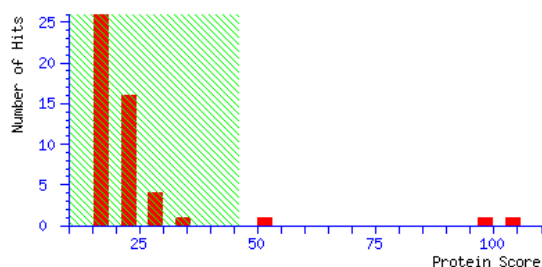
K.ITAVPAEEEEIIWGATFK.V

Calculated Mr: 25750

Calculated pI: 5.62

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLGIFSSSVV  SPPEELVAAG  SRTSPKTTA  GKLLTRFVES  KASAVSLQVG
51  EHVQLAYTHH  SESPWYPRSF  AVKDEIFCLF  EGALDNLGSL  RQQYGLAKSA
101 NEVILVIEAY  KALRDRAPYP  ANRVVCHLSG  SFAFIVFDKS  TSTVAVASDQ
151  AGKVPLYWGI  TADGYVAFAD  DADLLKGSCG  KSLASFPQGC  FYSTAVGGLR
201  CYENPKNKIT  AVPAEEEEIIW  GATFKVEGSA  VLAATEY
```

Spot No.: 231

NCBI accession No.: gi|2832430

Species: *Hevea brasiliensis*

PFF score: [217]

Protein name: prohevein

Matched peptides No.: [2]

Sequence coverage %: [20]

Matched sequences: R.IVDQCSNGGLDLVNVFR.Q;

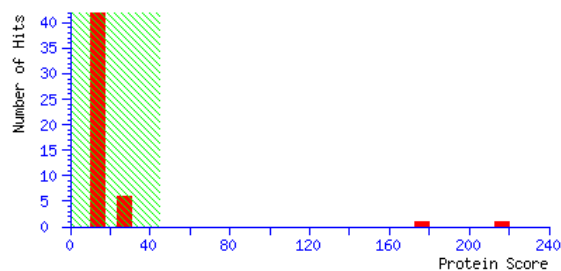
K.YGWTAFCGPVGAHGQPSCGK.C

Calculated Mr: 20852

Calculated pI: 5.64

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAAAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151  TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: 232

NCBI accession No.: gi|2832430

Species: *Hevea brasiliensis*

PFF score: [112]

Protein name: prohevein

Matched peptides No.: [2]

Sequence coverage %: [16]

Matched sequences: R.QLDTDGKGYER.G;

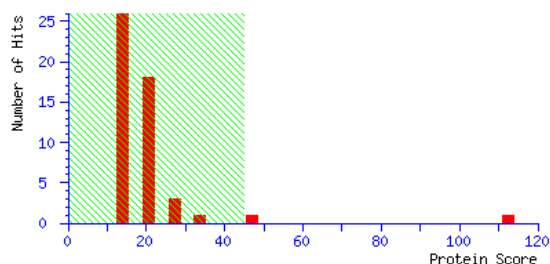
K.YGWTAFCGPVGHAHGQPSCGK.C

Calculated Mr: 20852

Calculated pI: 5.64

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51 GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```


Spot No.: 233

NCBI accession No.: gi|14423933

Species: *Hevea brasiliensis*

PFF score: [384]

Protein name: Small rubber particle protein

Matched peptides No.: [5]

Sequence coverage %: [36]

Matched sequences: K.AEQYAVITWR.A;

R.VSSYLPLLPEK.I;

K.QVSAQTYVAQDAPR.I;

K.DISGPLKPGVDTIENVVK.T;

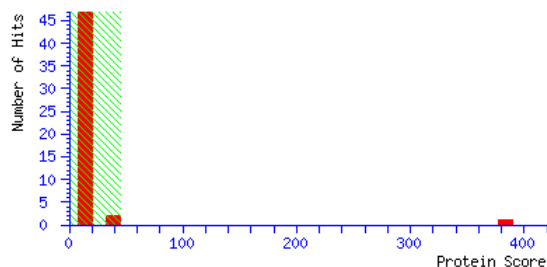
R.IVLDVASSVNTGVQEGAK.A

Calculated Mr: 22331

Calculated pI: 4.80

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKIVVTPVY YIPLEAVKFV DKTVDVSVTS LDGVVPPVIK QVSAQTYVA
101 QDAPRIVLDV ASSVNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTTEQG YRVSSYLPLL PTEKITKVFG
201 DEAS
```

Spot No.: 234

NCBI accession No.: gi|132270

Species: *Hevea brasiliensis*

PFF score: [379]

Protein name: Rubber elongation factor protein

Matched peptides No.: [4]

Sequence coverage %: [38]

Matched sequences: K.NVAVPLYNR.F;

K.DASIQVVS AIR.A;

K.FVDSTVVASVTIHDR.S;

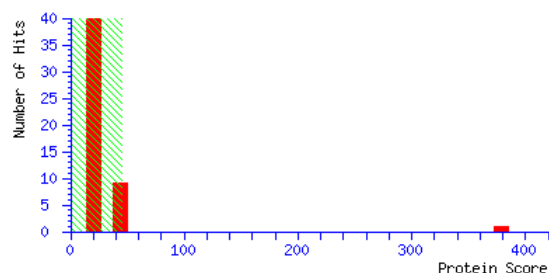
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: 14713

Calculated pI: 5.04

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGCLKYLG F VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: 235

NCBI accession No.: gi|123550 Species: *Pisum sativum*

PFF score: [128]

Protein name: 17.1 kDa class II heat shock protein

Matched peptides No.: [1] Sequence coverage %: [9]

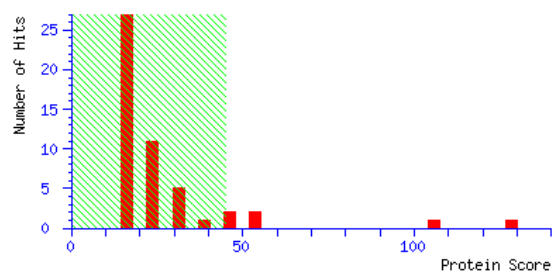
Matched sequences: K.VQVEDENVLLISGER.K

Calculated Mr: 17059

Calculated pI: 6.32

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDLDSPLFNT LHHIMDLTDD TTEKLNAPT RTYVRDAKAM AATPADVKEH
51 PNSYVFMVDM PGVKSGDIK VQVEDENVLLI SGERKREEEK EGVKYLKMER
101 RIGKLMRKFV LPENANIEAI SAISQDGVLT VTVNKLPPPE PKKPKTIQVK
151 VA
```

Spot No.: 236

NCBI accession No.: gi|312985293

Species: *Hevea brasiliensis*

PFF score: [272]

Protein name: nucleoside diphosphate kinase 2

Matched peptides No.: [5]

Sequence coverage %: [27]

Matched sequences: K.LMSVERPFAEK.H;

K.LMSVERPFAEK.H + Oxidation (M);

R.NVIHGSDSVENAK.K;

R.NVIHGSDSVENAKK.E;

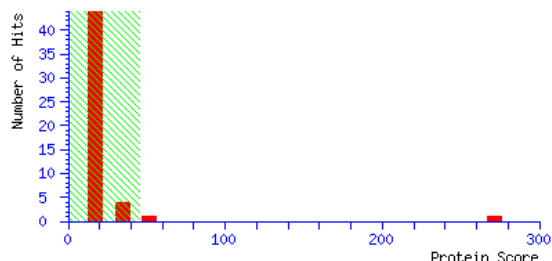
K.IIGATKPSESDPGTIR.G

Calculated Mr: 16463

Calculated pI: 5.96

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEQTFIMIKP  DGVQRGLVGE  IISRFEEKGF  SLKGLKMSV  ERPFAEKHYE
51  ELSSKPFPEG  LVDYIISGPV  AAMVWEGKNV  VATGRKIIGA  TKPSESDPGT
101 IRGDFAVEVG RNVIHGSDSV ENAKKEIALW  FPDGTVNWQS  SLHSWIYE
```

Spot No.: 237

NCBI accession No.: gi|132270

Species: *Hevea brasiliensis*

PFF score: [90]

Protein name: Rubber elongation factor protein

Matched peptides No.: [2]

Sequence coverage %: [23]

Matched sequences: K.FVDSTVVASVTIIDR.S;

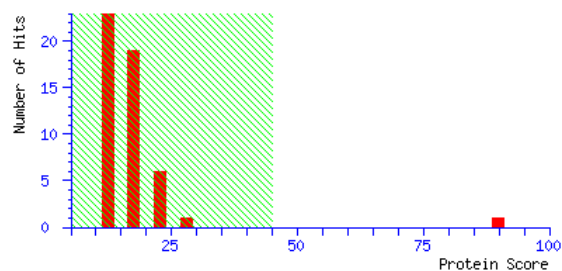
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: 14713

Calculated pI: 5.04

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLG FVQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR APEAARSLA SSLPGQTKIL AKV FYGEN
```

Spot No.: 238

NCBI accession No.: gi|2832430

Species: *Hevea brasiliensis*

PFF score: [344]

Protein name: prohevein

Matched peptides No.: [3]

Sequence coverage %: [26]

Matched sequences: R.QLDTDGKGYER.G;

R.IVDQCSNGGLDLVDNVFR.Q;

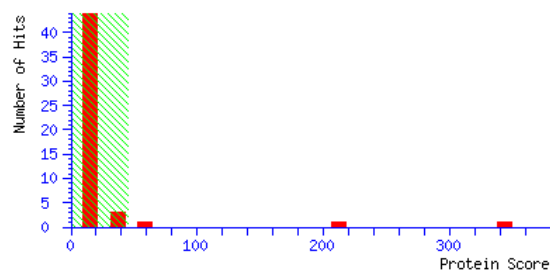
K.YGWTAFCGPVGAHGQPSGK.C

Calculated Mr: 20852

Calculated pI: 5.64

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ  WGWCGSTDEY  CSPDHNCQSN  CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW  DLNAASAYCS  TWDANKPYSW  RSKYYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT  GTGAKATVRI  VDQCSNGGLD  LDVNVFRQLD
151 TDGKGYERGH  LTVNYQFVDC  GDSFNPLFSV  MKSSVIN
```

Spot No.: 239

NCBI accession No.: gi|255570457

Species: *Ricinus communis*

PFF score: [193]

Protein name: protease C56, putative

Matched peptides No.: [2]

Sequence coverage %: [8]

Matched sequences: R.APEYLALDETVIALVK.E;

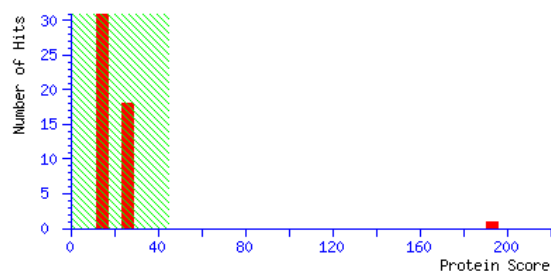
R.APEYLAMNESVLDCVR.K + Oxidation (M)

Calculated Mr: 42437

Calculated pI: 5.60

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSHQKTVFLL  CGDYMEDYEA  MVPFQALLAY  GVAVDAACPG  KKAGDYCRTA
51  IHESGHQTY   SESRGNFTL   NSTFDDIDFG  KYDGLVIPGG  RAPEYLAMNE
101 SVLDCVRKFA  DAGKPIASVC  HGQLILAAAG  LVKGRKCTAY  PPVRPVLIAA
151  GAHWVEPETM  ASCVADGNLI  TGATYEGHPE  FIQLFVKALG  GSITGADKRI
201  LFLCGDYMED  YEVTVPFQSL  QALGCHVNAV  CPKKKAGDSC  PTAVHDFEGD
251  QTYSEKPGHH  FTLTASYVGL  DVSSYDALVL  PGGRRAPEYLA  LDETVIALVK
301  QFMQSKKPVA  SICHGQQILA  AAGVLKGGKC  TAYPAVKLNV  VLSGATWLEP
351  DPIDRCYTDE  NLVTGAAWPG  HPEFISQLMA  LLGIRVSF
```

Spot No.: 240

NCBI accession No.: gi|727357

Species: *Arabidopsis thaliana*

PFF score: [58]

Protein name: DnaJ homolog

Matched peptides No.: [2]

Sequence coverage %: [6]

Matched sequences: R.EIYDQYGEDALK.E;

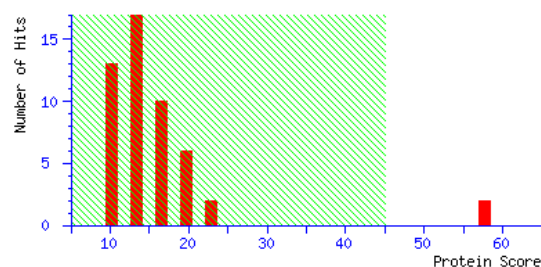
K.ELAQAQAYEVLSDPEKRE

Calculated Mr: 47042

Calculated pI: 5.68

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MFGRGSPSKKS DNTKFEIILG VPKSASPEDL KKAYKKAIAIK NHPDKGGDPE
51 KFKELAQAQAYE VLSDPEKREI YDQYGEDALK EGMGGGGGGH DPFDFSSFF
101 GGGPFGGNTS RQRRQRRGED VVHPLKVSLE DVYLGTMKKL SLSRNALCSK
151 CNGKGSKSGA SLKCGGCQGS GMKVSIRQLG PGMIQQMQHA CNECKGTGET
201 INDRDRCPQC KGDKVIPEKK VLEVNVEKGM QHSQKITFEG QADEAPDITV
251 GDIVFVLQOK EHPQFKRKGE DLFVEHTLSL TEALCGFQFV LTHLDGRSLL
301 IKSNPGEVVK PDSYKAISDE GMPIYQRPFM KGKLYIHFTV EFPDSLSPDQ
351 TKALEAVLPK PSTAQLSDME IDECEETTLH DVNIEDEMRR KAQAQREAYD
401 DDEDDDDHPG GAQRVQCAQQ
```


Spot No.: 241

NCBI accession No.: gi|255568794 Species: *Ricinus communis*

PFF score: [100]

Protein name: nucleoredoxin, putative

Matched peptides No.: [3] Sequence coverage %: [5]

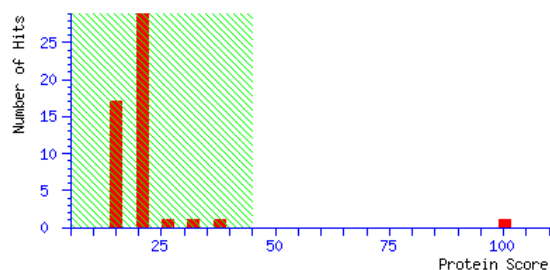
Matched sequences: K.LIEAYHEIK.A;
K.KCDFDLHPK.C;
R.VEYFRQEEENAK.K

Calculated Mr: 63728

Calculated pI: 5.46

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MADDPVIDVS HDLLSLLSSD DRDFLIRSNG DQVKISNLVG KIVGLYFSGS
51 WCGPCRHFTP NLVQVYEELS LKGDFFVVFV SDRDAESFD AYFSKMPWLA
101 IPFSDQETCK HLKDLFKVRG IPNLVFLDAD GKVSCDQGVR FIREYGAEGY
151 PFTPERVEYF RQEEENAKKN QTLSSILVSS SRDFLISKDG TKIPVSELEG
201 KMGVLYFSVH SHRLCLDFTP RLEEVYKKLK EKGEKFEVVL ISMDYDENNF
251 KQGLETMPWL ALPFEDKSRE RLARYFELSA LPTLVIIGED GKTLNKNVAE
301 LIEGHGIQAY PFTPEKLVEL AEIEKARLEA QTLESVLVHG DKDFVIEESG
351 SKVPVSELVG KNILLYFSAK WCPPCRAFLP KLIEAYHEIK AKDNAFEIIF
401 ISSDRDQSSF DEFYTEMPWL ALPFGDDRKT ILQRKFKIKG IPAAIAISPT
451 GKILTKEARE HITAYGADAY PFNEDHLKQL NDKQEEIAKG WPEKVRHELH
501 PEHELVRMKR NGYGCDGCKE AGSGWSFYCK KCDFDLHPKC ALKKEENGEK
551 VKK
```

Spot No.: **242**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **93**

Sequence coverage %: **31**

Matched peptides No.: **9**

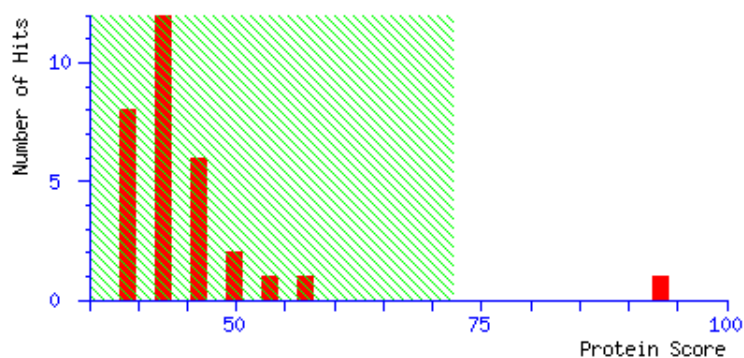
Total peptides No.: **33**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFDYPYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLNYEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNITVF NYFGIIEII DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLLT EATALG
```

Spot No.: **243**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **93**

Sequence coverage %: **36**

Matched peptides No.: **11**

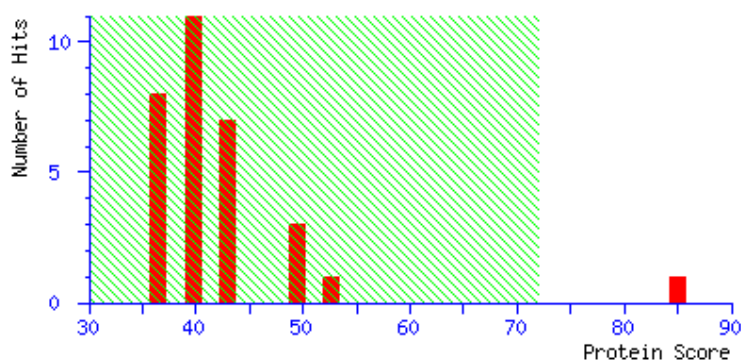
Total peptides No.: **44**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLNIEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNYTVF NYFGIIEII DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLT EATALG
```

Spot No.: **244**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **95**

Sequence coverage %: **42**

Matched peptides No.: **14**

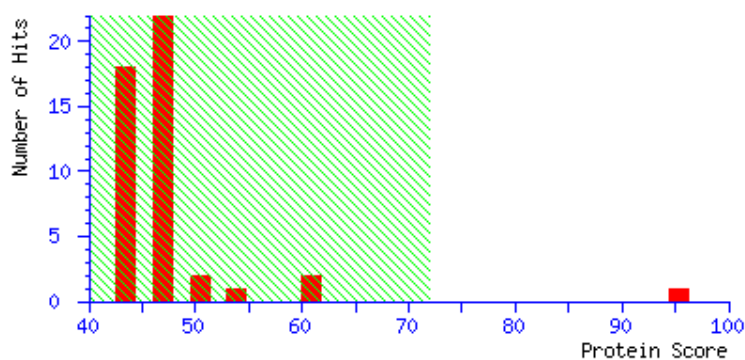
Total peptides No.: **66**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLYEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKEVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNITVF NYFGIIEII DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLT EATALG
```

Spot No.: **245**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **101**

Sequence coverage %: **49**

Matched peptides No.: **16**

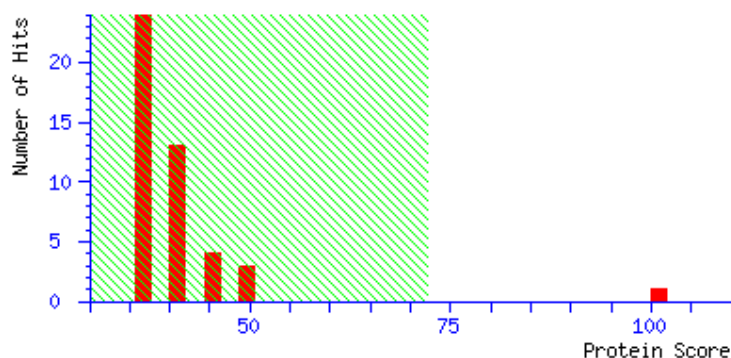
Total peptides No.: **67**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLNIEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNITVF NYFGIIKEII DAPGEHGFRY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLT EATALG
```

Spot No.: **246**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **118**

Sequence coverage %: **47**

Matched peptides No.: **15**

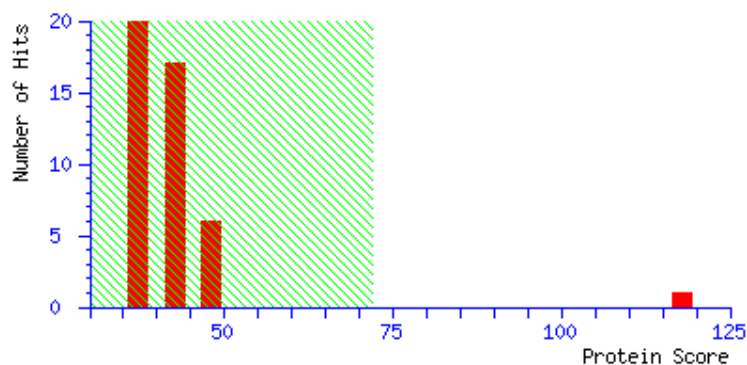
Total peptides No.: **46**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLNVEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPFNYTVF NYFGIIKELI DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFCVCGNKT EYLFFDGTHN TDAANNLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLT EATALG
```

Spot No.: **247**

NCBI accession No.: **gi|123062** Species: *Hevea brasiliensis*

PFF score: **[158]**

Protein name: **Pro-hevein**

Matched peptides No.: **[2]** Sequence coverage %: **[11]**

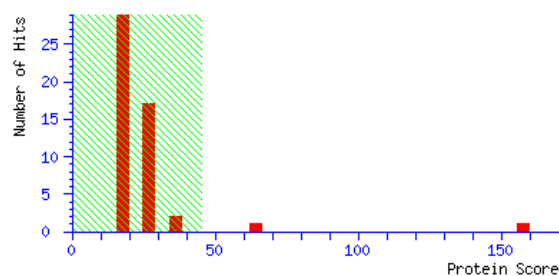
Matched sequences: **K.CLSVTNTGTGAK.T;**
R.QLDTDGKGYER.G

Calculated Mr: **22700**

Calculated pI: **5.63**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MNIFIVVLLC LTGVAIAEQC GRQAGGKLCF NNLCCSQWGW CGSTDEYCSP
51 DHNCQSNCKD SGEGVGGGSA SNVLATYHLY NSQDHGWDLN AASAYCSTWD
101 ANKPYSWRSK YGWTAFCGPV GAHGQSSCGK CLSVTNTGTG AKTTVRIVDQ
151 CSNGGLDLDV NVERQLDTDG KGYERGHITV NYQFVDCGDS FNPLFSVMKS
201 SVIN
```

Spot No.: **248**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[446]** Protein name: **prohevein**

Matched peptides No.: **[4]** Sequence coverage %: **[32]**

Matched sequences: **K.CLSVTNTGTGAK.A;**

R.QLDTDGKGYER.G;

R.IVDQCSNGGLDLVDNVFR.Q;

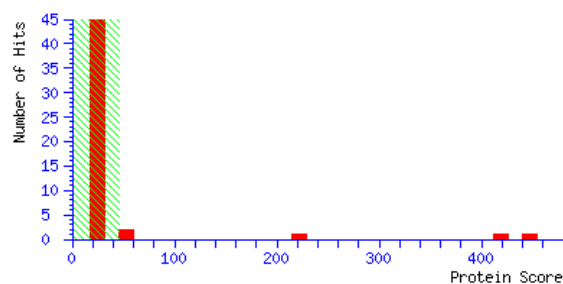
K.YGWTAFCGPVGAGHQPCGK.C

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHQPS CGRCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```


Spot No.: **249**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[405]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI DR.S;

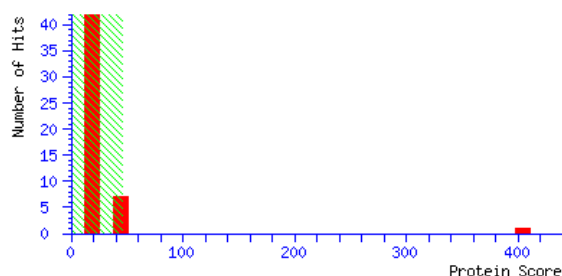
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QEGGLKYLGF VQDAATYAVT TFSNVYLF AK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **250**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[340]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI DR.S;

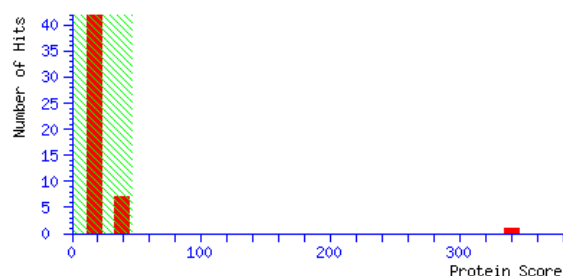
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGLYLGF VQDAATYAVT TFSNVYLF AK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRF SY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: **251**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[470]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[27]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.SGPLQPGVDIIEGPVK.N;

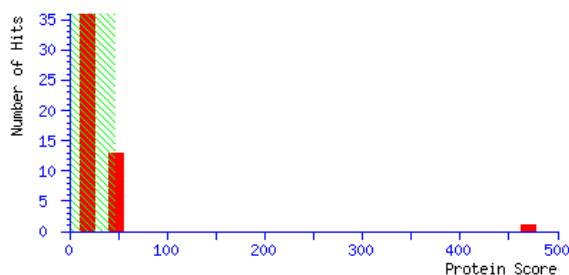
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGCLKYLGF VQDAATYAVI TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **252**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[402]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI DR.S;

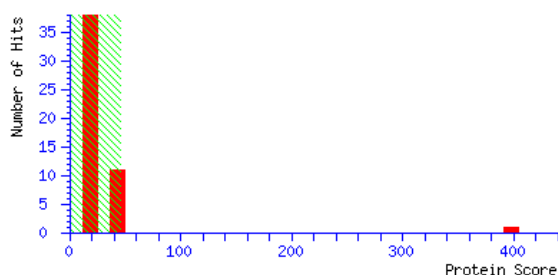
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Band No.: B1

NCBI accession No.: [gi|132270](#)

Species: *Hevea brasiliensis*

PFF score: [\[282\]](#)

Protein name: **Rubber elongation factor protein; Short=REF;**

AltName: Allergen=Hev b 1

Matched peptides No.: [\[4\]](#)

Sequence coverage %: [\[38\]](#)

Matched sequences: **K.DKSGPLQPGVDIIEGPVK.N; K.NVAVPLYNR.F;**

K.FVDSTVVASVTIIDR.S; K.DASIQVSAIR.A

Calculated Mr: **14713**

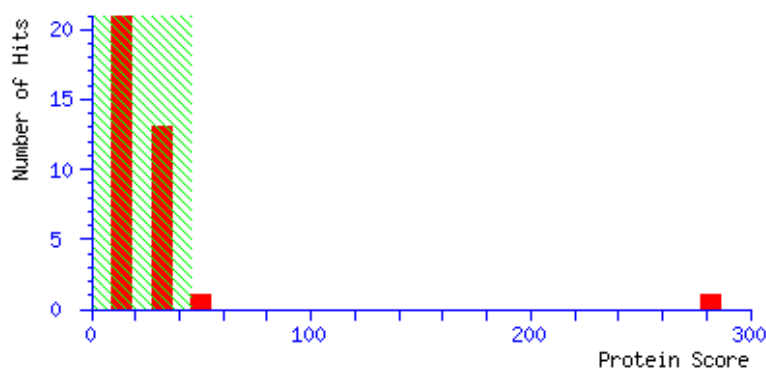
Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLG FVQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVSAIR AAPEAARSLA SSLPGQTKIL AKVfyGEN
```

Band No.: **B2**

NCBI accession No.: **gi|225440045**

Species: *Vitis vinifera*

Protein name: **cell division cycle protein 48 homolog**

PMF score: **90**

Sequence coverage %: **32**

Matched peptides No.: **23**

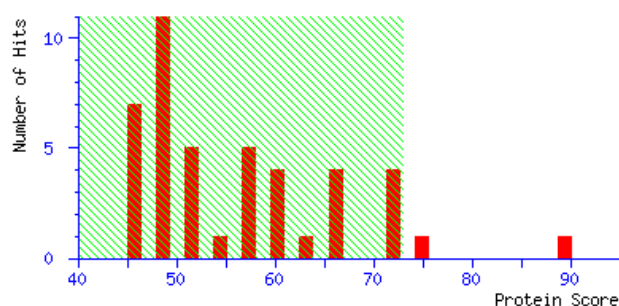
Total peptides No.: **49**

Calculated Mr: **90331**

Calculated pI: **5.14**

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 73 are significant ($p < 0.05$).



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

```
1 MSNQAESSDS KGTKRDFSTA ILERKKAA NR LVVDEAVNDD NSVVALHPDT
51 MEKLQLFRGD TILIKGKKRK DTICIALADD TCDEPKIRMN KVVRSNLRVR
101 LGDVVSVHQC PDVKYGKRVH ILPVDDTIEG VTGNLFDAYL KPYFLEAYRP
151 VRKGDLFLVR GGMRSVEFKV IETDPAEYCV VAPDTEIFCE GEPVREDED
201 RLDEVGYDDV GGVRKQMAQI RELVELPLRH PQLFKSIGVK PPKGILLYGP
251 PGSGKTLIAR AVANETGAFF FCINGPEIMS KLAGESESNL RKAFEEAEKN
301 APSIIFIDEI DSIAPKREKT HGEVERRIVS QLLTLMDGLK SRAHVIVIGA
351 TNRPNSIDPA LRRFGRFDRE IDIGVPDEVG RLEVLRIHTK NMKLSEVDL
401 ERIAKDTHGY VGADLAALCT EAALQCIREK MDVIDLEDES IDAEILNSMA
451 VTDEHFKTAL GTSNPSALRE TVVEVPNVSW EDIGGLENVK RELQETVQYP
501 VEHPEKFEKF GMSPSKGVLF YGPPGCGKTL LAKAIANECQ ANFISVKGPE
551 LLTMWFGESE ANVREIFDKA RQSAPCVLFF DELDSIATQR GSSVGDAGGA
601 ADRVLNQLLT EMDGMSAKKT VFIIGATNRP DIIDPALLRP GRLDQLIYIP
651 LPDEDSRHQI FKACLRKSPV SKDVDLRALA KYTQGFSGAD ITEICQRACK
701 YAIRENIEKD IERERRRREN PEAMEEDVDE EVAEIKAAHF EESMKYARRS
751 VSDADIRKYQ AFAQTLQQSR GFGTEFRFSE TSTGAAGSDP FAASAGGAAD
801 EDDLYS
```

Band No.: **B3**

NCBI accession No.: [gi|88193697](#) Species: *Arachis hypogaea*

PFF score: **[100]** Protein name: **phospholipase D alpha 2**

Matched peptides No.: **[2]** Sequence coverage %: **[2]**

Matched sequences: [R.SIDGGAAFPGFPEPEDAAR.A](#);

[R.SIDGGAAFPGFPEPEDAAR.A](#)

Calculated Mr: **92340**

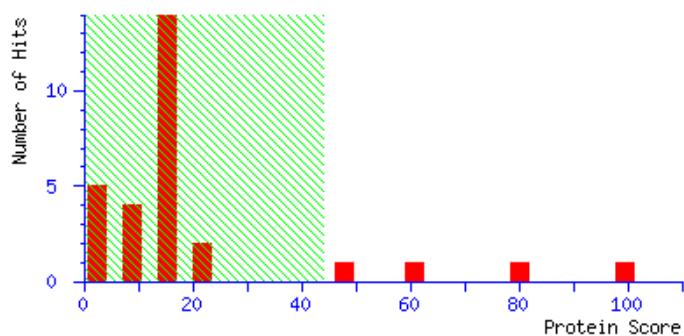
Calculated *pI*: **5.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAQILLHGTL HVTIYEVDKL KTSGGNVFTK LVQNIIEETVG FGKGVTKLYA
51 TIDLEKARVG RTRIIKDHNS NPRWYSEFHI YCAHMASNII FTVKDDNPIG
101 ATLIGRAYVP VEDVLDGEEV DRWVEILDED KNPIHGNSKI HVKLQYFDVT
151 KDKNWARGVR SAKFPGVPYT FFSQRRGCKV SLYQDAHVPD NFVPKIPLAG
201 GQTYQPHRCW EDVFDAIEKA RHLIYITGWS VYTEITLVRD SRRPKPGGDL
251 TIGELLKKKA NEGVRVLMV WDDRTSVPLL KKDGLMATHD EETEKYFQGT
301 EVHCILCPRN PDDGGSIIQD LQISTMFTHH QKIVVVDSDM PSGDSGKRRI
351 VSFVGGIDLC DGRYDTQFHS LFRTLDTAHH DDFHQPNFAG ASIMKGGPRE
401 PWHDIHSRLE GPIAWDVLFN FEQRWRKQGG KDLLIPLREL EDVIIPPSPV
451 TFAEDQETWN VQLFRSIDGG AAFGFPETPE DAARAGLVSG KDNIIDRSIQ
501 DAYIHAIRRA KNFIYIENQY FLGSCFGWSP DDIKPEDIGA LHLIPKELSL
551 KIVSKIEAGE RFTVYIVVPM WPEGFPESGS VQAILDWQRR TMEEMYKDIV
601 EALNAKGIVE DPRNYLTFFC LGNREVKKPG EYEPSERPDP DSDYIKAQEN
651 RRFMIYVHAK MIVDDEYII IGSANINQRS MDGARDSEIA MGAYQPYLIS
701 ARELARGQIH GFRLALWYEH LGMIRESEFLQ PESEECIKMV NQVADKYWDL
751 YSSESLDHDL PGHLLRYPVG ISGDGTVEL PGFEFFPDTK GRVLGKTIDY
801 LPPILTT
```

Band No.: **B4**

NCBI accession No.: **gi| 225440324** Species: **Vitis vinifera**

Protein name: **heat shock cognate 70 kDa protein isoform 1**

Mascot score: **102**

Sequence coverage %: **36**

Matched peptides No.: **22**

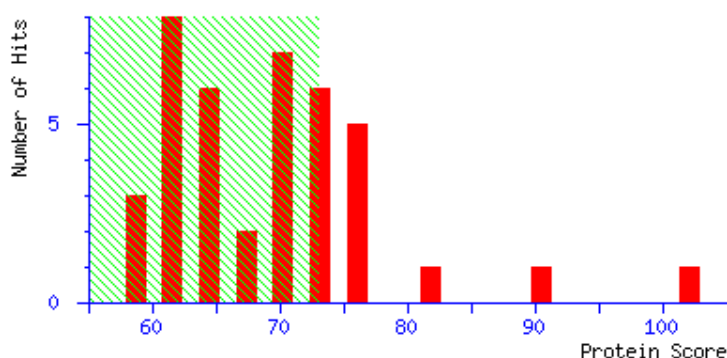
Total peptides No.: **68**

Calculated Mr: **71420**

Calculated pI: **5.17**

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 73 are significant ($p < 0.05$).



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

```
1  MAGKGEGPAI  GIDLGTTYSC  VGVWQHDRV  I IANDQGNRT  TPSYVAFTDT
51 ERLVGDAAKN QVAMNPINTV FDAKRLIGRR FSDATVQSDI KLWPFKVVAG
101 PGDKPMIVVN  YKGEEKQFAA  EEISSMVLTK MREIAEAYLG SAVKNNAVTV
151 PAYFNDSQRQ ATKDAGVIAG LNVMRIINEP TAAAIAYGLD KKATSVGEKN
201 VLIFDLGGGT  FDVSLTIEE  GIFEVKATAG  DTHLGGEDFD  NRMVNHVQVE
251 FKRKHKKDIS GNPRALRRLR TACERAKRTL  SSTAQTIEI  DSLYEGVDFY
301 TTITRARFEE  LNMDLFRKCM EPVEKCLRDA  KMDKSSVHDV  VLVGGSTRIP
351 KVQQLLQDFF  NGKELCKSIN  PDEAVAYGAA  VQAAILSSEG  NDKVQDLLLL
401 DVTPLSLGLE  TAGGVMTVLI  PRNTTIPTKK  EQVFSTFSDN QPGVLIQVYE
451 GERTRTRDNN LLGKFELSGI  PPAPRGVPQI  TVCFDIDANG  IILNVAEDKT
501 TGQKNKITIT  NDKGRLSKEE  IEKMVQEAEK  YKSEDEEHKK  KVDAKNALEN
551 YAYNMRNTVK DEKIGAKLPP  ADKKKIEDAI  EQAIQWLDNN  QLAEAEDEFD
601 KMKELESICN  PIIAKMYQGA  GGPDMGGGMD EDGPSAGGSG AGPKIEEVD
```


Band No.: B5

NCBI accession No.: gi|253760141 Species: *Sorghum bicolor*

Protein name: hypothetical protein SORBIDRAFT_1058s002010

Mascot score: 95

Sequence coverage %: 57

Matched peptides No.: 15

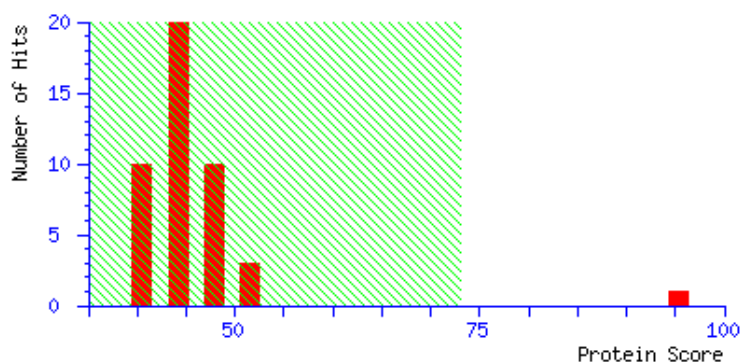
Total peptides No.: 59

Calculated Mr: 23743

Calculated pI: 6.77

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 73 are significant ($p < 0.05$).



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

1 **MASAVASMVA** **APKPVFLMDL** **LASPSASSRH** **LFRTGDARPR** **SSSDGVKDST**
51 **GKDDAAAADG** **RPERDPSIPK** **LFTGDVLDLF** **PEAAKRDLLL** **ALAEDGGGAG**
101 **SMITGLAPRG** **WWISKKDGDA** **LQLKVAMPGL** **GKEHVKMRAE** **KNVLVIKGEK**
151 **DKDAEGDKDA** **EGDDDKVPVP** **VPVPARYIYR** **IGLPSQAFKM** **DQIKAEMKNG**
201 **VLILTMPKIK** **GEGRKDVFGI** **KIE**

Band No.: B6

NCBI accession No.: [gi|14423933](#) Species: *Hevea brasiliensis*

PFF score: [\[348\]](#)

Protein name: Small rubber particle protein; Short=SRPP; AltName:
Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName:
Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev
b 3; AltName: Allergen=Hev b 3

Matched peptides No.: [\[4\]](#) Sequence coverage %: [\[21\]](#)

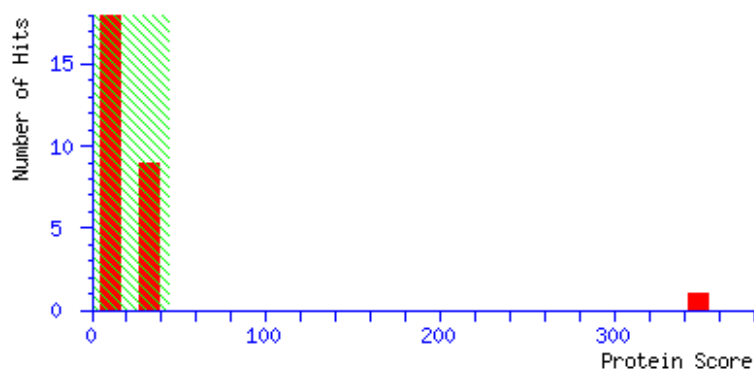
Matched sequences: **K.QVSAQTYSVAQDAPR.I; R.IVLDVASSVFNTGVQEGAK.A;**
R.IVLDVASSVFNTGVQEGAK.A; K.AEQYAVITWR.A

Calculated Mr: [22331](#)

Calculated pI: [4.80](#)

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.
Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).
Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVK FV DKTVDVSVTS LDGVVPPVIK QVSAQTYSVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVFG
201 DEAS
```

Band No.: **B7**

NCBI accession No.: **gi|260099871** Species: *Hevea Brasiliensis*

Protein name: **beta-1,3-glucanase**

Mascot score: **125**

Sequence coverage %: **40**

Matched peptides No.: **16**

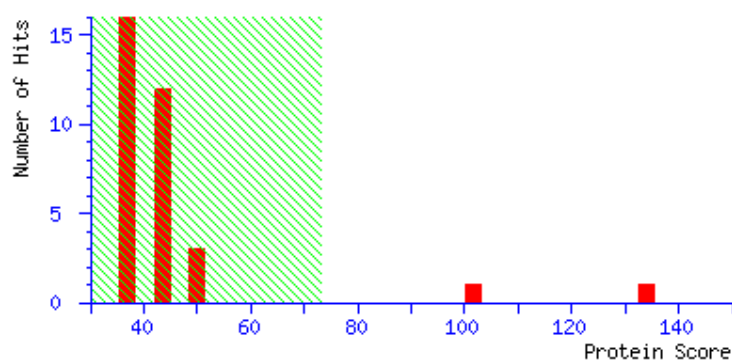
Total peptides No.: **38**

Calculated Mr: **41543**

Calculated pI: **9.40**

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT  SSSLPSRTTV  MLLFFFTAS  VGITDAQVGV  CYGMQGNNLP
51  PVSEVIALYK  KSNITRMRIY  DPNQAVLEAL  RGSNIELILG  VPNSDLQSLT
101 NPSNAKSWVQ  KNVRGFWSSV  RFRYIAVGNE  ISPVNRGTAW  LAQFVLPAMR
151 NIHDAIRSAG  LQDQIKVSTA  IDLTLVGNSY  PPSAGAFRDD  VRSYLNPIIR
201 FLSSIRSPLL  ANIYPYFTYA  GNPRDISLPY  ALFTSPSVVV  WDGQRGYKNL
251  FDATLDALYS  ALERASGGSL  EVVSESGWP  SAGAFAAFED  NGRTYLSNLI
301 QHVKRGTPKR  PKRAIETYLF  AMPDENKKQP  EVEKHFGLFF  PNKWQKYNLN
351  FSAEKNWDIS  TEHNATILFL  KSDM
```

Band No.: **B8**

NCBI accession No.: gi| **10946499** Species: *Hevea Brasiliensis*

Protein name: **beta-1,3-glucanase**

Mascot score: **187**

Sequence coverage %: **61**

Matched peptides No.: **20**

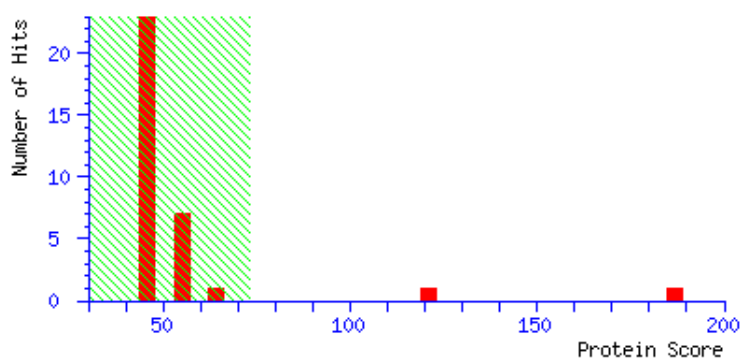
Total peptides No.: **62**

Calculated Mr: **35295**

Calculated pI: **9.46**

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 73 are significant ($p < 0.05$).



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

```
1  QVGVCYGMQG  NNLPPVSEVI  ALYKKSNIIR  MRIYDPNRAV  LEALRGSNIE
51  LILGVNSDL  QSLTNPSNAK  SWVQKNVRGF  WSSVLFYRIA  VGNEISPVNR
101 GTAWLAQFVL  PAMRNIHDAI  RSAGLQDQIK  VSTAILTLV  GNSYPPSAGA
151 FRDDVRSYLN  PIIRFLSSIR  SPLLANIYPY  FTYAGNPRDI  SLPYALFTSP
201 SVVVWDGQRG  YKNLFDATLD  VLYSALERAS  GGSLEVVVSE  SGWPSAGAFA
251 ATFDNGRTYL  SNLIQHVKRG  TPKRPNRAIE  TYLFAMFDEN  KKQPEVEKQF
301 GLFFPDKWQK  YNLNFG
```

Band No.: B9

NCBI accession No.: [gi|255540341](#) Species: *Ricinus communis*

Protein name: [glyceraldehyde 3-phosphate dehydrogenase, putative](#)

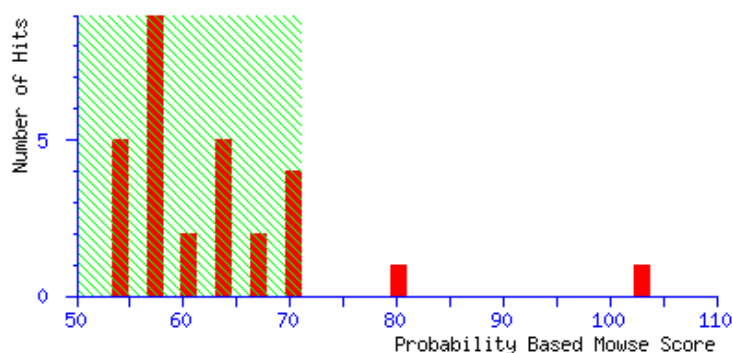
Mascot score: 103 Sequence coverage %: 48

Matched peptides No.: 15 Total peptides No.: 82

Calculated Mr: 36930 Calculated *pI*: 7.10

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 73 are significant ($p < 0.05$).



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

```
1 MAKIKIGING FGRIGRLVAR VALQRDDVEL VAVNDPFIST EYMTYMFKYD
51 TVHGQWKHHE LKIKDDKTL FGEKPVTVFG VRNPEEIPWA ETGAEYIVES
101 TGVFTDKDKA AAHLKGGAKK VIISAPSKDA PMFVVGVNEK EYTPDLHIIS
151 NASCTTNCLA PLAKVINDRF GIVEGLMTTV HSITATQKTV DGPSMKDWRG
201 GRAASFNIIP SSTGAAKAVG KVLPSLNGKL TGMSFRVPTV DVSVVDLTVR
251 LEKSATYEQI KAAIKEESEG KLGILGYTE DDVVSTDFIG DKRSSIFDAK
301 AGIALNDRKFV KLVSWYDNEW GYSTRVVDLI VHVASVH
```

Band No.: **B10**

NCBI accession No.: **gi|14423933** Species: **Hevea**

Brasiliensis

Protein name: **Small rubber particle protein**

Mascot score: **160**

Sequence coverage %: **77**

Matched peptides No.: **13**

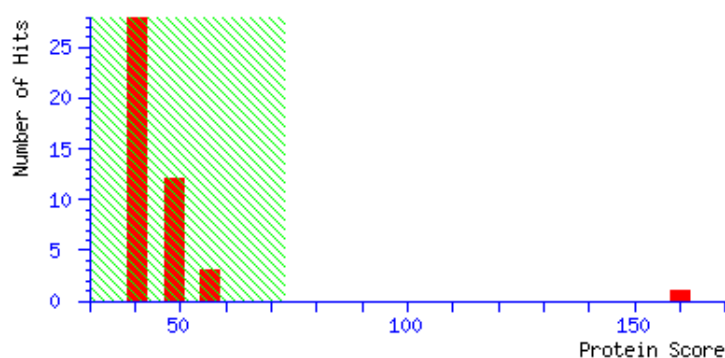
Total peptides No.: **44**

Calculated Mr: **22331**

Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKEV DKTVDVSVTS LDGVVPPVIK QVSAQTYSVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVFG
201 DEAS
```


Band No.: **B11**

NCBI accession No.: **gi| 38122474** Species: **Hevea Brasiliensis**

Protein name: **rubber elongation factor**

Mascot score: **106**

Sequence coverage %: **42**

Matched peptides No.: **10**

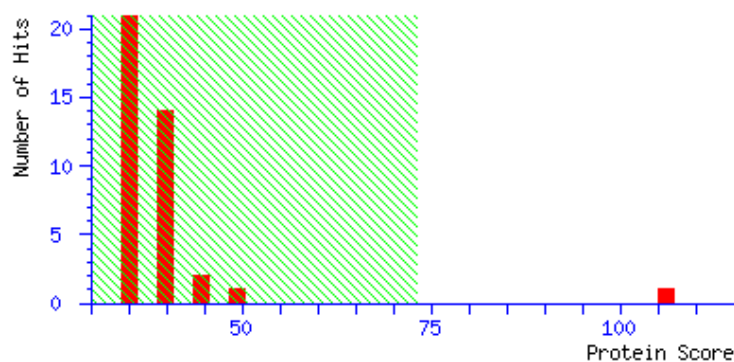
Total peptides No.: **29**

Calculated Mr: **19570**

Calculated pI: **5.06**

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 73 are significant ($p < 0.05$).



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

```
1 MAEGEEEVNI QEEANKGEEN PQEEANIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKPAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```


Band No.: B12

NCBI accession No.: gi|3288200

Species: *Hevea brasiliensis*

Protein name: latex allergen

Mascot score: 87

Sequence coverage %: 41

Matched peptides No.: 12

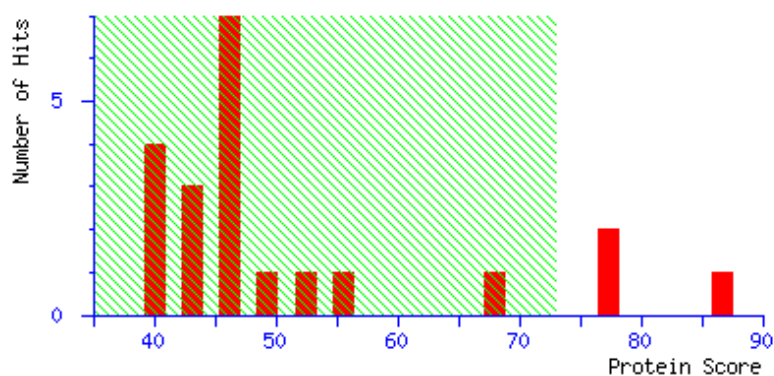
Total peptides No.: 43

Calculated Mr: 43020

Calculated pI: 5.00

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 73 are significant ($p < 0.05$).



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

```
1  MATGSTTLTQ  GKKITVLSID  GGGIRGIIPG  IILASLESKL  QDLGPDARI
51  ADYFDIIAGT  STGGLITTML  TAPNEDKKPI  YQAKDIKDFY  LENCPKIFPK
101  ESRDTYDPIH  SIGPIYDGEY  LRELCNNLLK  DLTVKDTLTD  VIIPAFDIKL
151  LLPVIFSSDD  AKCNALKNAR  LADVCISTSA  APVLLPAHSF  TTEDDKNIHT
201  FELIDGGVAA  ANPTLLALTH  IRNEIIRQNP  RFIGANLTES  KSRLVLSLGT
251  GKSEYKEKYN  ADMTSKWRLY  NWALYNGNSP  AVDIFSNASS  DMVDFHLSAL
301  FKSLDCEDYY  LRIQDDTLTG  EESSGHIATE  ENLQRLVEIG  TELLEKQESR
351  INLDTGRLES  IPGAPTNEAA  IAKFAKLLSE  ERKLRQLK
```

Band No.: B13

NCBI accession No.: [gi|334854628](#) Species: *Hevea brasiliensis*

PFF score: [\[271\]](#) Protein name: **rubber elongation factor**

Matched peptides No.: [\[3\]](#) Sequence coverage %: [\[27\]](#)

Matched sequences: **K.DKSGPLQPGVDIIEGPVK.N; K.NVAVPLYNR.F;**
K.DASIQVVS AIR.A

Calculated Mr: **14889**

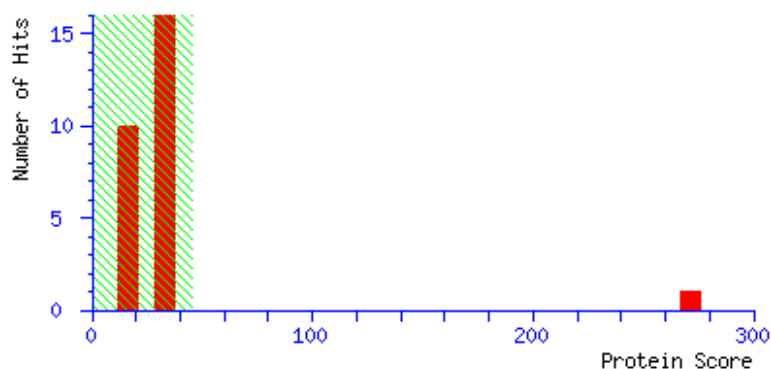
Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGCLKYLG FVQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD SPVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEEARFLA FFLPGQTKIL AKVIFYGEN
```

Band No.: **B14**

NCBI accession No.: [gi|14423688](#) Species: *Hevea brasiliensis*

Protein name: Enolase 1; AltName: Full=2-phospho-D-glycerate hydro-lyase 1; AltName: Full=2-phosphoglycerate dehydratase 1; AltName: Allergen=Hev b 9

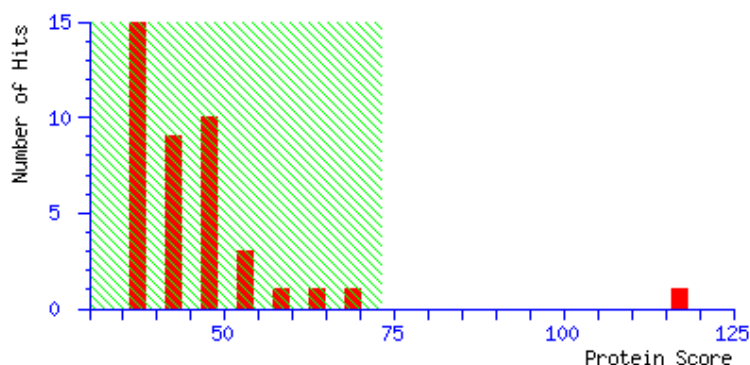
Mascot score: **117** Sequence coverage %: **48**

Matched peptides No.: **20** Total peptides No.: **71**

Calculated Mr: **48029** Calculated pI: **5.57**

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 73 are significant ($p < 0.05$).



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

```
1 MAITIVSVRA RQIFDSRGNP TVEADVKLSD GYLARAAVPS GASTGIYEAL
51 ELRDGGSDDL GKGVSKAVEN VNIIIGPALV GKDPTDQVGI DNFMVQQLDG
101 TVNEWGWCKQ KLGANAILAV SLAVCKAGAH VKGIPLYEHI ANLAGNKNLV
151 LPVPAFNVIN GGSHAGNKLA MQEFMILPVG ASSFKEAMKM GAEVYHHLKS
201 VIKKKYQDA TNVGDEGGFA PNIQENKEGL ELLKTAIAKA GYTGKVVIGM
251 DVAASEFYGS DQTYDLNFKE ENNNGSQKIS GEALKDLYKS FVAEYPIVSI
301 EDPFDQDDWA HYAKLTSEIG EKVQIVGDDL LVTNPKRVEK AIKEKACNAL
351 LLKVNQIGSV TESIEAVKMS KRAGWGMAS HRSGETEDTF IADLSVGLAT
401 GQIKTGAPCR SERLAKYNQL LRIIEELGSE AVYAGANFRK PVEPY
```

Band No.: B15

NCBI accession No.: [gi|255543357](#) Species: *Ricinus communis*

Protein name: [heat shock protein, putative](#)

Mascot score: 85

Sequence coverage %: 22

Matched peptides No.: 9

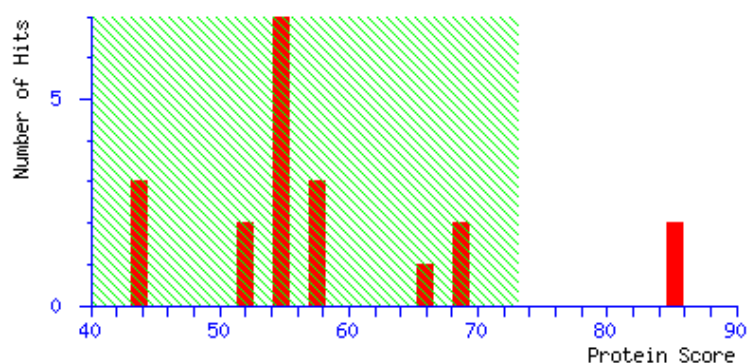
Total peptides No.: 17

Calculated Mr: 71965

Calculated pI: 5.27

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 73 are significant ($p < 0.05$).



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

```
1  MAKTEGKAVG  IDLGTTYSCV  GVWQNDRVEI  IANDQGNRTT  PSYVAFTDTE
51  RLIGDAAKNQ  VAMNPQNTVF  DAKRLIGRRF  SDPSVQSDMK  HWPFKVVPGP
101  GDKPMIVVLY  KGEEKQFAPE  EISSMVLIKM  KEIAEAYLGQ  TVKNAVITVP
151  AYFNDSQRQA  TKDAGAISGL  NVMRIINEPT  AAAIAYGLDK  KGSRSGEKNV
201  LIFDLGGGTF  DVSLLTIEEG  IFEVKATAGD  THLGGEDFDN  RLVNHFVAEF
251  RRKHKKDIST  NARALRRLRT  ACERAKRTLS  STSQTTIEID  SLYEGIDFYS
301  TITRARFEEL  NMDLFRKCME  PVEKCLRDSK  IDKSQVDDIV  LVGGSTRIPK
351  VQQLLQDFFN  GKELCKSINP  DEAVAYGAAV  QAAILSGEGD  QKVQELLLLD
401  VTPLSLGIET  AGGVMTVLIP  RNTTIPAKKE  QIFSTYSDNQ  PGVLIQVYEG
451  ERARTKDNNL  LGTFELKGIP  PAPRGVPQIN  VCFDIDANGI  LNVSAEDKTA
501  GVKNKITITN  DKGRLSKEDI  ERMVQEAKEY  KAEDQVKKK  VEAKNALENY
551  AYNMRNTVKD  EKFAKGLDSA  DKQKIEKAID  ETIEWLDGNQ  LAEVDEFEDK
601  LKELEGLCNP  IVSKMYQGGA  GGDVPMGGGA  KPGSGYGNAS  SGGSGSGPKI
651  EEVD
```

Band No.: B16

NCBI accession No.: gi|225456951

Species: *Vitis vinifera*

Protein name: cell division cycle protein 48 homolog

Mascot score: 88

Sequence coverage %: 33

Matched peptides No.: 27

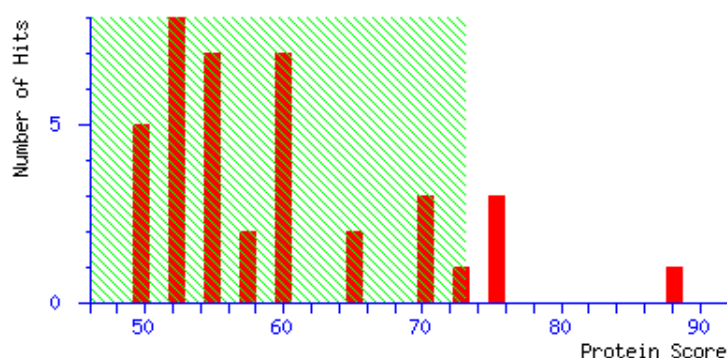
Total peptides No.: 121

Calculated Mr: 91020

Calculated pI: 5.12

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 73 are significant ($p < 0.05$).



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

```
1  MADPSSSGPS  SSPEVKSVKK  DFSTAILERK  KSPNRLVVDE  AVNDDNSVVS
51  MNPATMEKLQ  FFRGDTVLIK  GKRRKDTVCI  VLVDEQCEEP  KIRMNKVVRA
101 NLRVRLGDVV  SVHQCPDVKY  GKR VHILPID  DTIEGVTGNL  FDAYLKPYPFL
151 ESYRPFVRKGD  LFLVRGGMRS  VEFKVIETDP  GEYCVVAPDT  EIFCEGEPIK
201 REDEERLNEV  GYDDVGGVRK  QMAQIRELVE  LPLRHPQLFK  SIGVKPPKGI
251 LLYGPPGSGK  TLIARAVANE  TGAFFFLING  PEIMSKLAGE  SESNLRKAFE
301 EAEKNAPSII  FIDELDSIAP  KREKTHGEVE  RRIVSQLLTL  MDGLKTRAHV
351 IVIGATNRPN  SIDPALRRFG  RFDREIDIGV  PDEVGRLEVL  RIHTKNMKLS
401 DDVDLERVAK  DTHGYVGADL  AALCTEALQ  CIREKMDVID  LEDETIDAEV
451 LNSMAVTNEH  FQTALGSSNP  SALRETVVEV  PNVSWEDIGG  LDNVKRELQE
501 TVQYPVEHPE  KFEKFGMSPS  KGVLFYGPFG  CGKTL LAKAI  ANECQANFIS
551 VKGPELLTMW  FGESEANVRE  IFDKARQSAP  CVLFFDELDS  IATQRGSSVG
601 DAGGAADRVL  NQLLTEM DGM  TAKKT VFIIG  ATNRPDIIDP  ALLRPGRLDQ
651 LIYIPLPDEA  SRLQIFKA CL  RKSPVSRDVD  LVALARYTHG  FSGADITEIC
701 QRSCKYAIRE  NIEKDIERER  KKTENPEAME  EDDVDDVPEI  KAAHFEE SMK
751 FARRSVSDAD  IRKYQLFAQT  LQQSRGFGSE  FRFPDQP NNA  TAASTAADPF
801 SSAAAAGDDD  DLYS
```

Band No.: B17

NCBI accession No.: [gi|66735596](#) Species: *Arachis hypogaea*

PFF score: [67] Protein name: phospholipase D alpha

Matched peptides No.: [1] Sequence coverage %: [10]

Matched sequences: **R.SIDGGAAFGFPETPEDAAR.A**

Calculated Mr: 21036

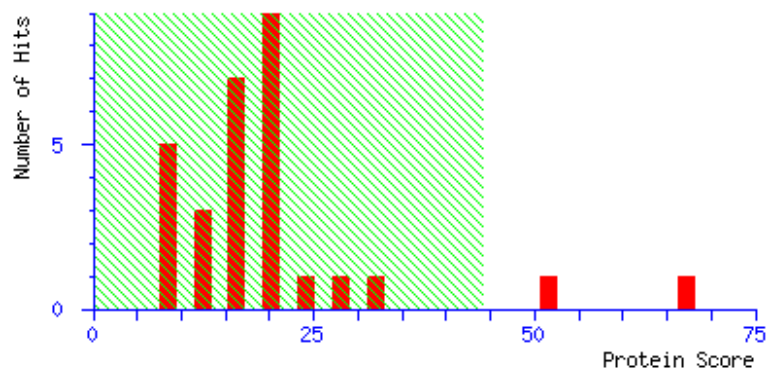
Calculated pI: 5.22

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  HHDDFHQPNF  AGASIMKGGP  REPWHDIHSR  LEGPIAWDVL  FNFEQRWRKQ
51 GGDLLIPLR   ELEDVIIPPS  PVTFAEDQET  WNVQLFRSID  GGAAFGFPET
101 PEDAARAGLV  SGKDNIIDRS  IQDAYIHAIR  RAKNFIYIEN  QYFLGSCFGW
151 SPDDIKPEDI  GALHLIPKEL  SLKNVSKIEA  GERFT
```


Band No.: B18

NCBI accession No.: [gi|33326375](#)

Species: *Hevea brasiliensis*

Protein name: [heat shock protein](#)

Mascot score: 90

Sequence coverage %: 28

Matched peptides No.: 17

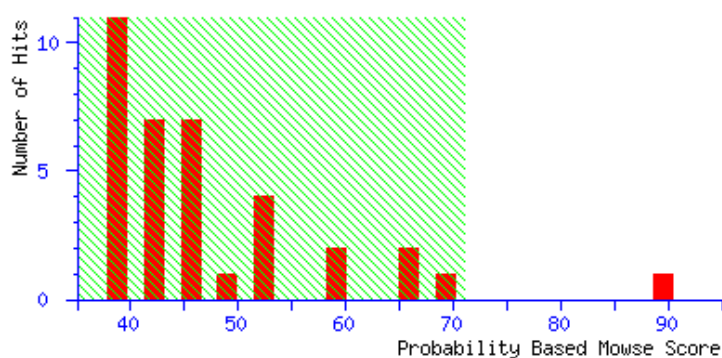
Total peptides No.: 52

Calculated Mr: 80380

Calculated *pI*: 5.02

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 73 are significant ($p < 0.05$).



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

```
1  MADAETFFAFQ AEINQLLSLI INTFYSNKEI FLREIISNAS DALDKIRFES
51 LTDKSKLDAQ PELFIRLVPD KANKTLSIID SGIGMTKADL VNNLGTIARS
101 GTKEFMEALQ AGADVSMIGQ FGVGFYSAYL VAEKVIVITK HNDDEQYIWE
151 SQAGGSFTVT RDVNGDQLGR GTKITLFLKE DQLEYLEERR IKDLVKKHSE
201 FISYPIYLWT EKTTEKEISD DEDDEPKKEE EGDVEDVDEE KETKSKKKKI
251 KEVSHWQLI NKQKPIWLRK PEEITKEEYA SFYKSLTNDW EDHLAVKHFS
301 VEGQLEFKAI LFPVKRAPFD LFDTRKKMSN IKLYVRRVFI MDNCEELIPE
351 YLGFKVGVVD SDDLPLNISR EMLQQNKILK VIRKNLVKKC IEMFNEIAEN
401 KEDYNKFYEA FSKNLKLGIIH EDSQNRKLA DLLRYHSTKS GDEMTSLKDY
451 VTRMKEGQKD IYYITGESKK AVENSPFLER LKKKGYEVLF MVDAIDEYAV
501 GQLKEYDGKK LVSATKEGLK LDDETEEEKK KKEEKKKSFE NLCKTIKDIL
551 GDKVEKVVVS DRIVDSPCCL VTGEYGWTAN MERIMKAQAL RDSSMSSYMS
601 SKKTMEINPD NVIVEELRKR AEADKNDKSV KDLVLLLFET ALLTSGFSLD
651 DPNTFSARIH RMLKLGLSID DDETAGDDAD MPALEEDGAE ESKMEEVD
```

Band No.: B19

NCBI accession No.: [gi|450880](#) Species: *Arabidopsis thaliana*

Protein name: [heat shock cognate 70-1](#)

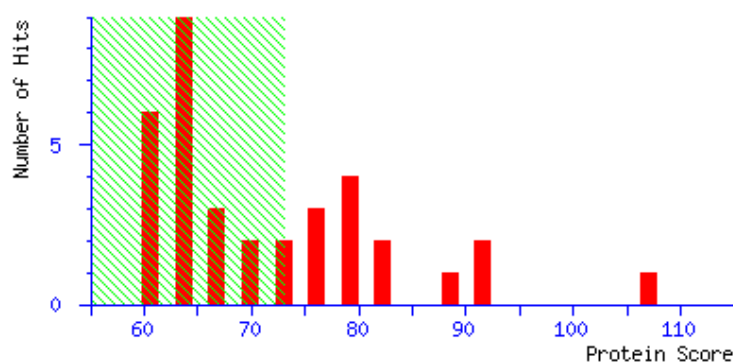
Mascot score: [107](#) Sequence coverage %: [47](#)

Matched peptides No.: [28](#) Total peptides No.: [83](#)

Calculated Mr: [70427](#) Calculated pI: [5.11](#)

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 73 are significant ($p < 0.05$).



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

```
1  GTTYSCVGVW  QHDRVEIIAN  DQGNRTTPSY  VAFDTSERLI  GDAARNQVAM
51  SPVNTVFDAK  RLIGRRFSDS  SVQSDMKLWP  FKIQAGPADK  PMIYVEYKGE
101 EKEFAAEEIS  SMVLIKMREI AEAYLGVTIK NAVVTVPAYF NDSQRQATKD
151 AGVIAGLNVM  RIINEPTAAA IAYGLDKKAT RVGEKNVLIF  DLGGGTFDVS
201 LLTIEEGIFE  VKATAGDTHL  GGEDFDNRMV  NHFVQEFKRR  SKKDITGNPR
251 ALRRLRTSCE  RAKRTLSTA  QTTIEIDSLY  EGIDFYSTIT  RARFEELNMD
301 LFRKCMEPVE  KCLRDAKMDK  STVHDVVLVG GSTRIPKVQQ LLQDFPNGKE
351 LCKSINPVEA  VVYGAAVQGA  ILSGEGNEKV  QDLLLLDVTP  LSLGLETAGG
401 VMTTLIPRNT  TIPTKKEQVF  STYSDNQPGV LIQVYEGERA  RTKDNLLGK
451 FELSGIPPAP  RGVPQITVCF DIDANGILNV SAEDKTTGQK  NKVTITNDKG
501 RLSKDEIEKM  VQEAEKYKSE  DEEHKKKVEA  KNALENYAYN  MRNTIQDEKI
551 GEKLPAADKK  KIEDSIEQAI  QWLEGNQLAE  ADEFEDKMKE  LESICNPIIA
601 KMYQGAGGGEA  GGPGASGMDD  DAPPASGGAG  PKIEEVD
```


Band No.: B20

NCBI accession No.: [gi|379068234](#)

Species: *Rhododendron formosanum*

Protein name: nucleotide-binding site leucine-rich repeat protein

Mascot score: 81

Sequence coverage %: 56

Matched peptides No.: 12

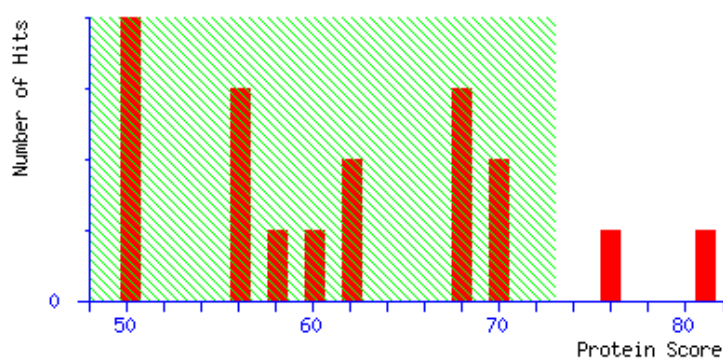
Total peptides No.: 60

Calculated Mr: 28360

Calculated pI: 7.01

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 73 are significant ($p < 0.05$).



Matched peptide sequences: shown in **bold red**:

```
1 QVAKNTKEEK LFDDVVMATV SQNLDARKIQ GEIADLLGFK FEQESDSGRA
51 DVLRGHLKQK ARVLVILDDV WKRFELNDIG IPFGEDHKGC KILVTSRNEE
101 VCNDMGAQKN FPVQILHKEE AWNLFKEMAG IPEDETNFRS TKMAVANECG
151 GLPIALVTVA RALKGKGKSS WGSALALRK SIGKNVREVV DKVFKSLELS
201 FNFLKSKEAQ RCFLLCSLYS EDYDIPIEDL VRYGYGQKLF GGIKSVGEAR
251 A
```

Band No.: B21

NCBI accession No.: [gi|14423688](#) Species: *Hevea brasiliensis*

Protein name: [Enolase 1; 2-phosphoglycerate dehydratase 1](#)

Mascot score: 101

Sequence coverage %: 35

Matched peptides No.: 10

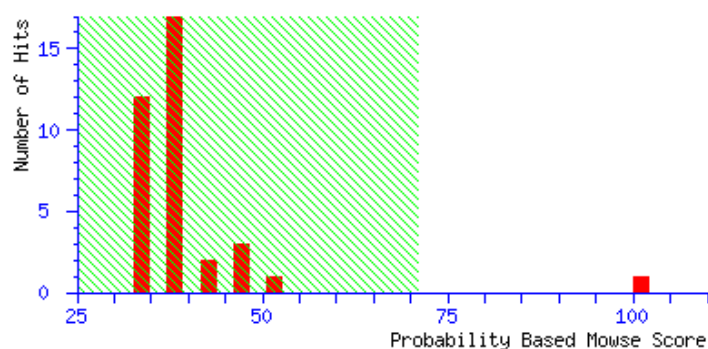
Total peptides No.: 21

Calculated Mr: 48029

Calculated pl: 5.57

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 73 are significant ($p < 0.05$).



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

```
1 MAITIVSVRA RQIFDSRGNP TVEADVKLSD GYLARAAVPS GASTGIYEAL
51 ELRDGGSDYL GKGVSKAVEN VNIIIGPALV GKDPTDQVGI DNFMVQQLDG
101 TVNEWGWCKQ KLGANAILAV SLAVCKAGAH VKGIPLYEHI ANLAGNKNLV
151 LPVPAFNVIN GGSHAGNKLA MQEFMILPVG ASSFKEAMKM GAEVYHHLKS
201 VIKKKYQDA TNVGDEGGFA PNIQENKEGL ELLKTAIAKA GYTGKVVIGM
251 DVAASEFYGS DQTYDLNFKE ENNNGSQKIS GEALKDLYKS FVAEYPIVSI
301 EDPFDQDDWA HYAKLTSEIG EKVQIVGDDL LVTNPKRVEK AIKEKACNAL
351 LLKVNQIGSV TESIEAVKMS KRAGWGVMAS HRSGETEDTF IADLSVGLAT
401 GQIKTGAPCR SERLAKYNQL LRIEEELGSE AVYAGANFRK PVEPY
```

Band No.: B22

NCBI accession No.: [gi|3288200](#) Species: *Hevea brasiliensis*

Protein name: latex allergen

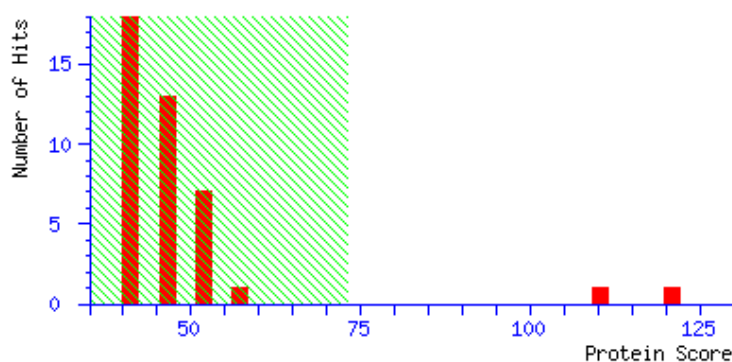
Mascot score: 121 Sequence coverage %: 47

Matched peptides No.: 16 Total peptides No.: 62

Calculated Mr: 43020 Calculated pI: 5.00

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 73 are significant ($p < 0.05$).



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

1	MATGSTTLTQ	GKKITVLSID	GGGIRGIIPG	IILASLESKL	QDLGPDARI
51	ADYFDIIAGT	STGGLITTML	TAPNEDKKPI	YQAKDIKDFY	LENCPK I FPK
101	ESRDTYDPIH	SIGPIYDGEY	LRELCNNLLK	DLTVKDTLTD	VIIPAFDIKL
151	LLPVIFSSDD	AKCNALKNAR	LADVCISTSA	APVLLPAHSF	TTEDDKNIHT
201	FELIDGGVAA	ANPTLLALTH	IRNEIIRQNP	RFIGANLTES	KSRLVLSLGT
251	GKSEYKEKYN	ADMTSKWRLY	NWALYNGNSP	AVDIFSNASS	DMVDFHLSAL
301	FKSLDCEDYY	LRIQDDTLTG	EESSGHIATE	ENLQRLVEIG	TELLEKQESR
351	INLDTGRLES	IPGAPTNEAA	IAKFAKLLSE	ERKLRQLK	

Band No.: B23

NCBI accession No.: gi|113217

Species: *Daucus carota*

PFF score: [81]

Protein name: Actin-1

Matched peptides No.: [2]

Sequence coverage %: [7]

Matched sequences: R.AVFPSIVGRPR.H; K.NYELPDGQVITIGAER.F

Calculated Mr: 42246

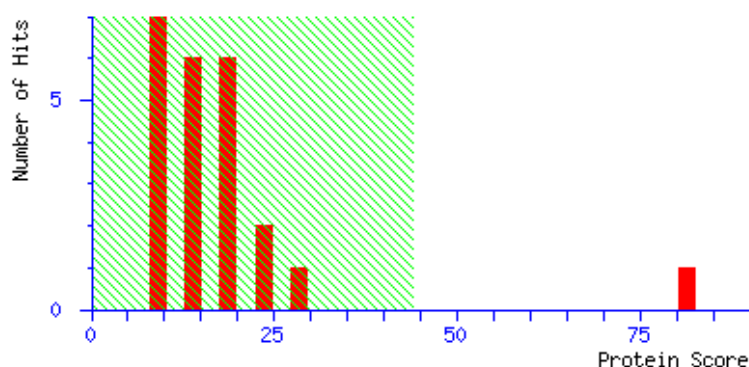
Calculated pI: 5.64

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MADGEDIQPL  VCDNGTGMVK  AGFAGDDAPR  AVFPSIVGRP  RHTGVMVGMG
51  QKDAYVGDEA  QSKRGIITLK  YPIEHGIVSN  WDDMRIWHHT  FYNELRASPE
101 EHPVLLTEAP  LNPKANREKM  TQIMIETFNV  PAMYVAIQAV  LSLYASGRTT
151 GIVLDSDGDV  SHTVPIYEGY  ALPHAILRLD  LAGRDLTDGL  MKILTEKSIC
201 HYTTAEREIV  RDMKEKLAYV  ALDYEQELET  AKRRSAVEKN  YELPDGQVIT
251 IGAERFRCPQ  VLFQPSMIGM  ESAGIHETTY  NSIMKCDVDI  RKDLYGNIVL
301 SGGSTMFFGI  ADRMSKEITA  LAPSSMKIKV  VAPPERKYSD  LWIGGSILAS
351 LSTFQQMWIS  KGEYDESGPS  IVHRKCLLAG
```

Band No.: B24

NCBI accession No.: [gi|147835357](#) Species: *Vitis vinifera*

Protein name: [hypothetical protein](#)

Mascot score: 84

Sequence coverage %: 34

Matched peptides No.: 25

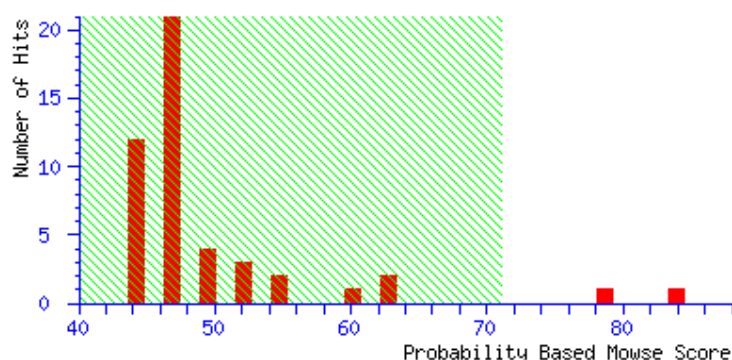
Total peptides No.: 106

Calculated Mr: 97236

Calculated pI: 6.08

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 73 are significant ($p < 0.05$).



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

```
1  MVDVVTVFL  EKLLNALEE  GRVLFDFREQ  FERLRDELRL  MQSFLKDAER
51  LKRKNETLRT  VMIGLRELIY  EAEDILADCK  VQSEGSQDIS  GWYAVCFYPT
101 NLPFKYQTGK  RLREINEKIT  RIKQNIPSFL  GVPILSQAEI  ADSRNLVDR
151 WSSSVFDHSQ  VVGIEGDTRK  VKNWLLLEAKD  GILAIQVVGGM  GGVGKTTLAQ
201 VVFNDREMEA  RFERRMWSV  TGTPNEKRIL  RSMRLNLGDM  NVGDDCGELL
251 RKINQYLLGK  RFLVMDDVG  ENTNTWWRKI  SDGLPKGNGS  SIIITRTKE
301 VATMMGVEEE  RTHRPKVLSK  DDSWLLFRNV  AFAANGGICT  SSELENIGRE
351 IVXKCGGLPL  AIKAAGGMML  YQQPYHDWK  RIADHFRDEL  AEEDGSVMAS
401 LELSYEELPS  HLKSCFLCLS  LYPEDCEITK  EQLIHWIAE  GFVPLRRGRL
451 STEAGEDCFS  GLTNRCLIEV  VEKSYTGAIQ  TCKIHDMVRD  LVIKKAEDDA
501 FSGPTTASCR  HLGIEGDIDR  KYDMPNQKLR  ALLSTIKTGE  VNKVASSNAK
551 KFCDCRYLRV  LDXSKTIFDK  SLTGLLDHIG  FLQHLTYSLS  SNTHPLTEVP
601 PALEXLRNLQ  VLDLSYCQNL  KMLPSYVTF  EKLTVLDVSH  CGSLRYPKQ
651 LGSLSNLQVL  LGFKPSKSNQ  LEGCRIAELR  SLTKLRRRLGL  QLTQGDEIGD
701 NDDNVLVGLR  GLQFLVISCF  DSHGDDLIPK  LDKLSPPQQL  HELRLRFYPG
751 KMNPGWLNPF  SLPILRYLSI  SSGNLTNMSQ  RFWGDGDNTW  KIEGLMLESL
801 SDLGMEWSMV  QQVMPRLRIV  NVSWCPDLDS  FPIEDVGRG  GVWKKGERPS
```

Band No.: B25

NCBI accession No.: [gi|170525118](#) Species: *Physalis mendocina*

Protein name: [geranylgeranyl reductase](#)

Mascot score: 81

Sequence coverage %: 76

Matched peptides No.: 7

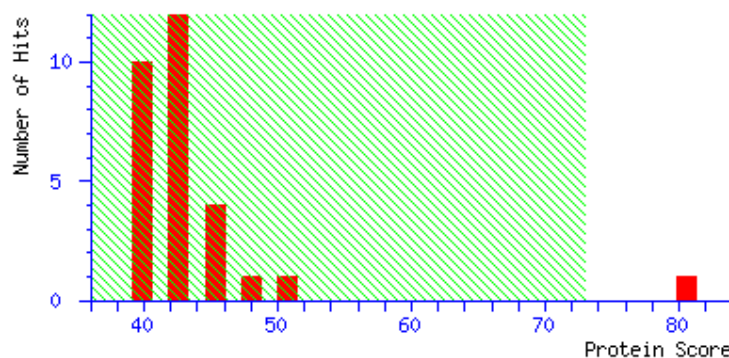
Total peptides No.: 54

Calculated Mr: 5.67

Calculated pI: 11741

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 73 are significant ($p < 0.05$).



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

1 LKPHEYIGMV RREVLDAYLR DRAAEAGASV LNGLFLKMDM PKAPNAPYVL
51 HYSAYDSKTN GAGEKRTPEV DAVIGADGAN SRVAKSINAG DYEYAIAPQE
101 RIRISDD

Band No.: B26

NCBI accession No.: [gij145346735](#)

Species: *Ostreococcus lucimarinus CCE9901*

Protein name: [predicted protein](#)

Mascot score: 83

Sequence coverage %: 22

Matched peptides No.: 9

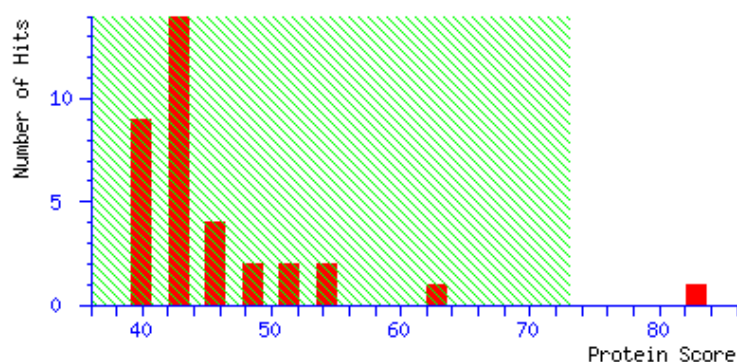
Total peptides No.: 25

Calculated Mr: 43211

Calculated pI: 8.11

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 73 are significant ($p < 0.05$).



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

```
1  MSGGARCNVL  PTSATANDFT  TESANRRLKA  VLASWSVERC  REWLETEIGL
51  GLGIEIASNK  YFPLSNSSRE  VRDRLVAACE  KAGVEFKYET  SVDGVVRGSD
101 GMGWTLRVRG  SGDERARAIV  LAMGGLSFPA  VGTDTGTGYAI  ARRDLGHALH
151  EPYPALVPLT  GPHPGGEPLP  GVSVEVELKV  AAANADGGGG  KKKAQAIRKG
201  FLFTHRGYSG  PSVLDLSHHL  VRPLVRANES  KGGSLRDEDF  DAPTSSSPRM
251  VINWSGIKRE  EWQERLTAPP  GRALVVSRLR  EALPSRLADA  LVAESGVDSR
301  CKIAELKKDD  RAKLLRVLTE  YEIAVKGHQG  YRKAEVTTGGG  VALDELDTAS
351  MASLKAPGIY  MCGEVCDVFG  RIGGFNFLWA  WCSGRLAGMS  AAKAISSADD
401  E
```

Band No.: B27

NCBI accession No.: gi| 37903393

Species: *Saccharum hybrid cultivar CP65-357*

PFF score: [101]

Protein name: 14-3-3-like protein

Matched peptides No.: [1]

Sequence coverage %: [4]

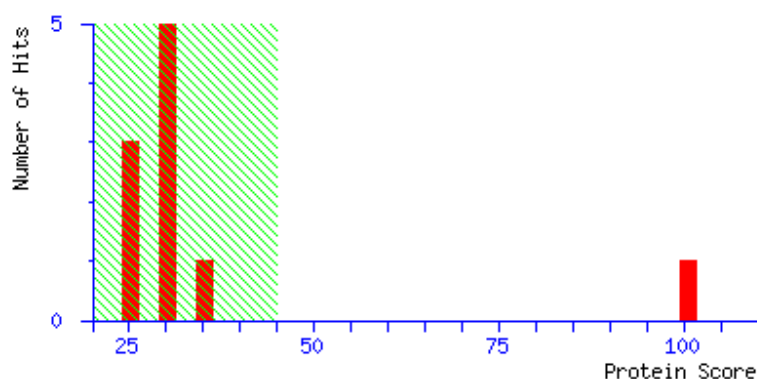
Matched sequences: **K.TVDVEELTV**EER.N

Calculated Mr: 28978

Calculated pI: 4.79

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSREENVYMA KLAEQAERYE EMVEYMEKVA KTVDVEELTV EERNLLSVAY
51 KNVIGARRAS WRIVSSIEQK EESRKNEEHV NLIKEYRGKI EAELSNICDG
101 ILKLLDShLV PSSTAAESKV FYLKMKGDYH RYLAEFKTGA ERKESAESTM
151 VAYKAAQDIA LAELAPTHPI RLGLALNFSV FYYEILNSPD KACNLAKQAF
201 DEAISELDTL GEESYKDSTL IMQLLRDNLN LWTSDLTEDG ADEGKEASKG
251 DAGEGQ
```


Band No.: **B28**

NCBI accession No.: **gi|10946499**

Species: *Hevea brasiliensis*

Protein name: **beta-1,3-glucanase**

Mascot score: **181**

Sequence coverage %: **66**

Matched peptides No.: **18**

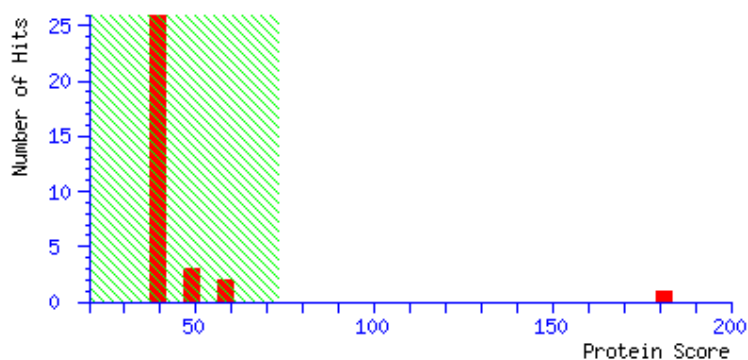
Total peptides No.: **45**

Calculated Mr: **35295**

Calculated pl: **9.46**

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 73 are significant ($p < 0.05$).



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

```
1  QVGVCYGMQG  NNLPPVSEVI  ALYKKSNIIR  MRIYDPNRAV  LEALRGSNIE
51  LILGVPNSDL  QSLTNPSNAK  SWVQKNVRGF  WSSVLFYRIA  VGNEISPVNR
101  GTAWLAQFVL  PAMRNIHDAI  RSAGLQDQIK  VSTAILTLV  GNSYPPSAGA
151  FRDDVRSYLN  PIIRFLSSIR  SPLLANIYPY  FTYAGNPRDI  SLPYALFTSP
201  SVVWWDGQRG  YKNLFDATLD  VLYSALERAS  GGSLEVVVSE  SGWPSAGAFV
251  AFDNGRITYL  SNLIQHVKRG  TPKRPNRAIE  TYLFAMFDEN  KKQPEVEKQF
301  GLFFPKWQK  YNLNFG
```

Band No.: B29

NCBI accession No.: [gij124365253](#) Species: *Hevea brasiliensis*

Protein name: [beta-1,3-glucanase](#)

Mascot score: 105

Sequence coverage %: 38

Matched peptides No.: 10

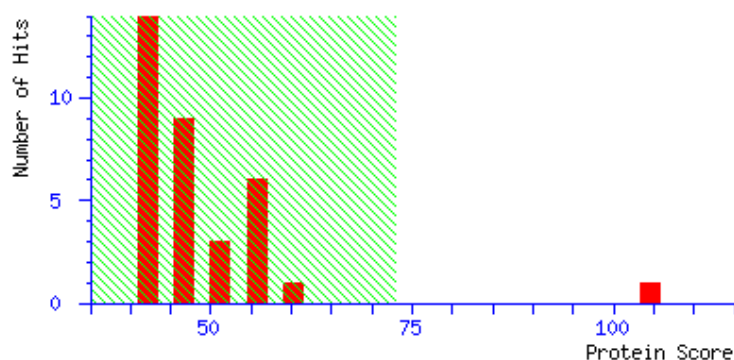
Total peptides No.: 35

Calculated Mr: 41543

Calculated pI: 9.4

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 73 are significant ($p < 0.05$).



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

```
1 MAISSSTSGT SSSLPSRTTV MLLFFFTAS VGITDAQVGV CYGMQGNNLP
51 PVSEVIALYK KSNITRMRIY DPNQAVLEAL RGSNIELILG VPNSDLQSLT
101 NPSNAKSWVQ KNVRGFWSSV RFRYIAVGNE ISPVNRGTAW LAQFVLPAMR
151 NIHDAIRSAG LQDQIKVSTA IDLTLVGNSY PPSAGAFRDD VRSYLNPIIR
201 FLSSIRSPLL ANIYPYFTYA GNPRDISLPY ALFTSPSVVV WDGQRGYKNL
251 FDATLDALYS ALERASGGSL EVVSESGWP SAGAFATFD NGRTYLSNLI
301 QHVKRGTPKR PKRAIETYLF AMFDENKKQP EVEKHFGLFF PNKWQKYNLN
351 FSAEKNWDIS TEHNATILFL KSDM
```

Band No.: **B30**

NCBI accession No.: [gi|14423933](#) Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein; Short=SRPP; AltName: Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName: Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev b 3; AltName: Allergen=Hev b 3

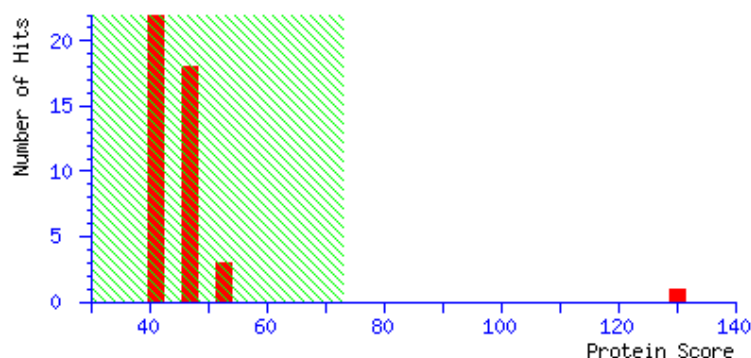
Mascot score: **130** Sequence coverage %: **51**

Matched peptides No.: **10** Total peptides No.: **26**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYARDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVIS LDGVVPPVIK QVSAQTYsVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVEG
201 DEAS
```

Band No.: B31

NCBI accession No.: gi|313586569 Species: *Hevea brasiliensis*

Protein name: hypothetical protein 19

Mascot score: 132

Sequence coverage %: 48

Matched peptides No.: 12

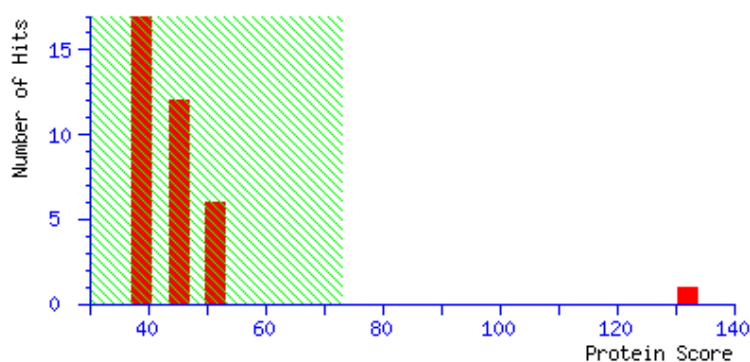
Total peptides No.: 36

Calculated Mr: 20724

Calculated pI: 7.77

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 73 are significant ($p < 0.05$).



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

```
1 MEELGSSHEK TESESSHCRK PHLPSGSYLS KKPSYKVYCK ADPNFFLTIR
51 DGKVVLAPPD PSDEFQHWYK DEKFSTMVKD EEGFPSFALV NKASGKALKH
101 SFGPTHVLL TPYDPDDLEA SILWTESKDL GDGYRIVRML NNIRLNVEAL
151 RGDKKSGGVS NGTKVVLAYW NKGDHQKRWRI APL
```

Band No.: B32

NCBI accession No.: gi|327492451

Species: *Mesembryanthemum crystallinum*

Protein name: N-terminal end of polyubiquitin

Mascot score: 162

Sequence coverage %: 96

Matched peptides No.: 12

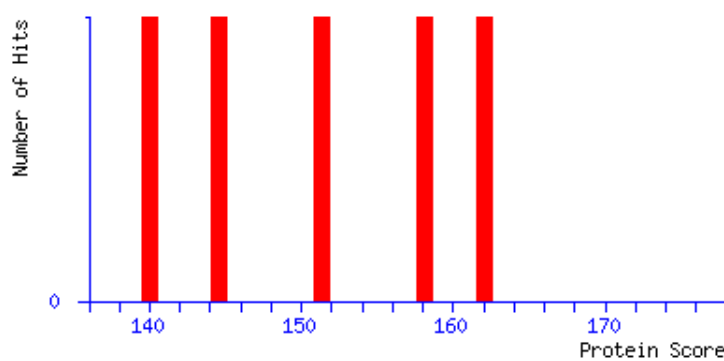
Total peptides No.: 38

Calculated Mr: 8463

Calculated pI: 6.56

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 73 are significant ($p < 0.05$).



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

1 MQIFVKTLTG KTITLEVESS DTIDNVKAKI QDKEGIPPDQ QRLIFAGKQL
51 EDGRTLADYN IQKESTLHLV LRLRG

Band No.: [B33](#)

NCBI accession No.: [gi|27449246](#) Species: *Hevea brasiliensis*

Protein name: [Cu/Zn superoxide dismutase](#)

Mascot score: [87](#)

Sequence coverage %: [38](#)

Matched peptides No.: [6](#)

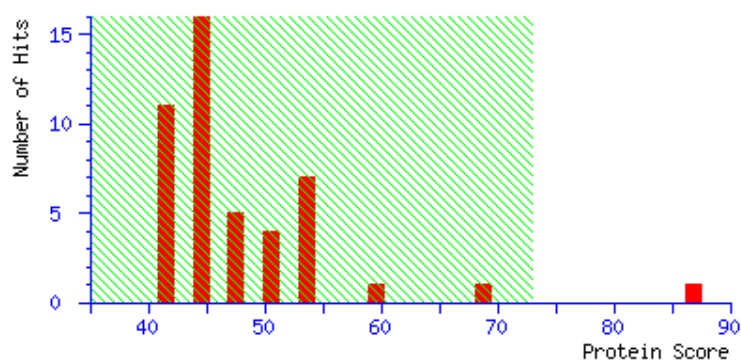
Total peptides No.: [22](#)

Calculated Mr: [15726](#)

Calculated pI: [5.73](#)

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 73 are significant ($p < 0.05$).



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

```
1  MLKAVAVITS  SEGISGKIFF  TQEGDGPTTV  TGSVSGLKPG  LHGFHVHTFG
51  DTINGCLSTG  LHFNPASKDH  GGPEDENRHA  GDLGNVNVGD  DGTANFTIVD
101 KHIPLSGPHS  IAGRSVVFHE  GRDDLGRGGH  ELSKITGNAG  DRIACGIIGL
151  QE
```

Band No.: B34

NCBI accession No.: [gi| 29170601](#) Species: *Hevea brasiliensis*

Protein name: [small rubber particle protein](#)

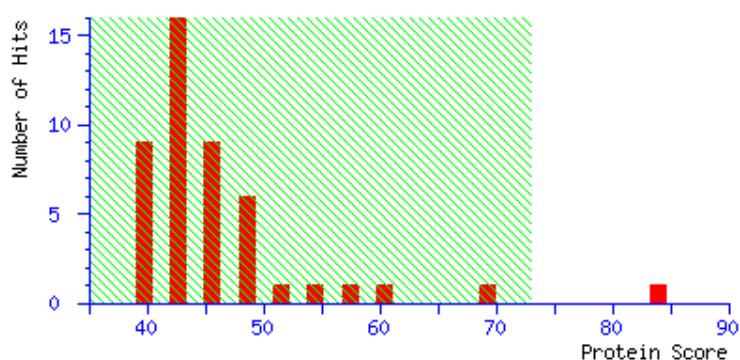
Mascot score: 84 Sequence coverage %: 61

Matched peptides No.: 7 Total peptides No.: 31

Calculated Mr: 12769 Calculated pI: 4.61

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 73 are significant ($p < 0.05$).



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

1 MAEGKENENF **QQEANEQEEK** LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 **PLKPGVETIE** **GVAKTVVIPA** SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 **KQLPTQACDT** SVKESAE

Spot No.: B35

NCBI accession No.: gi|242080683 Species: *Sorghum bicolor*

PFF score: [118]

Protein name: hypothetical protein SORBIDRAFT_07g004260

Matched peptides No.: [2] Sequence coverage %: [15]

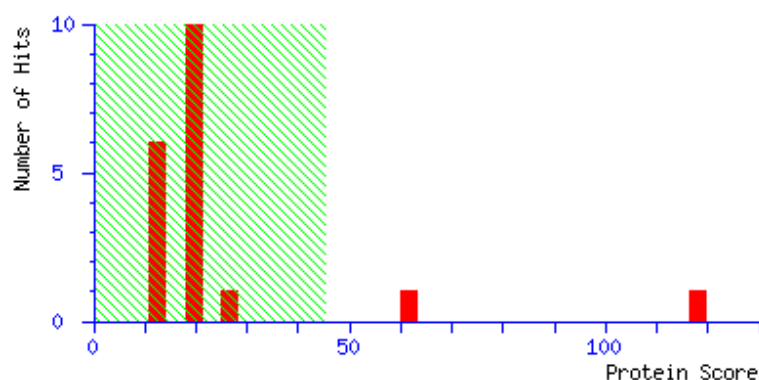
Matched sequences: **M.GLQEEFEEYAEK.A; M.GLQEEFEEYAEKAK.T**

Calculated Mr: 10341

Calculated pI: 5.01

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 **MGLQEEFEEY AEKAK**TLPES TSNENKLILY GLYKQATVGN VNTDRPGIFY
51 QKDRAKWDAW KAVEGKPKKE AMNDYITKVK QLQEEAAAAT S

Supplementary Figure S2

Figure S2:

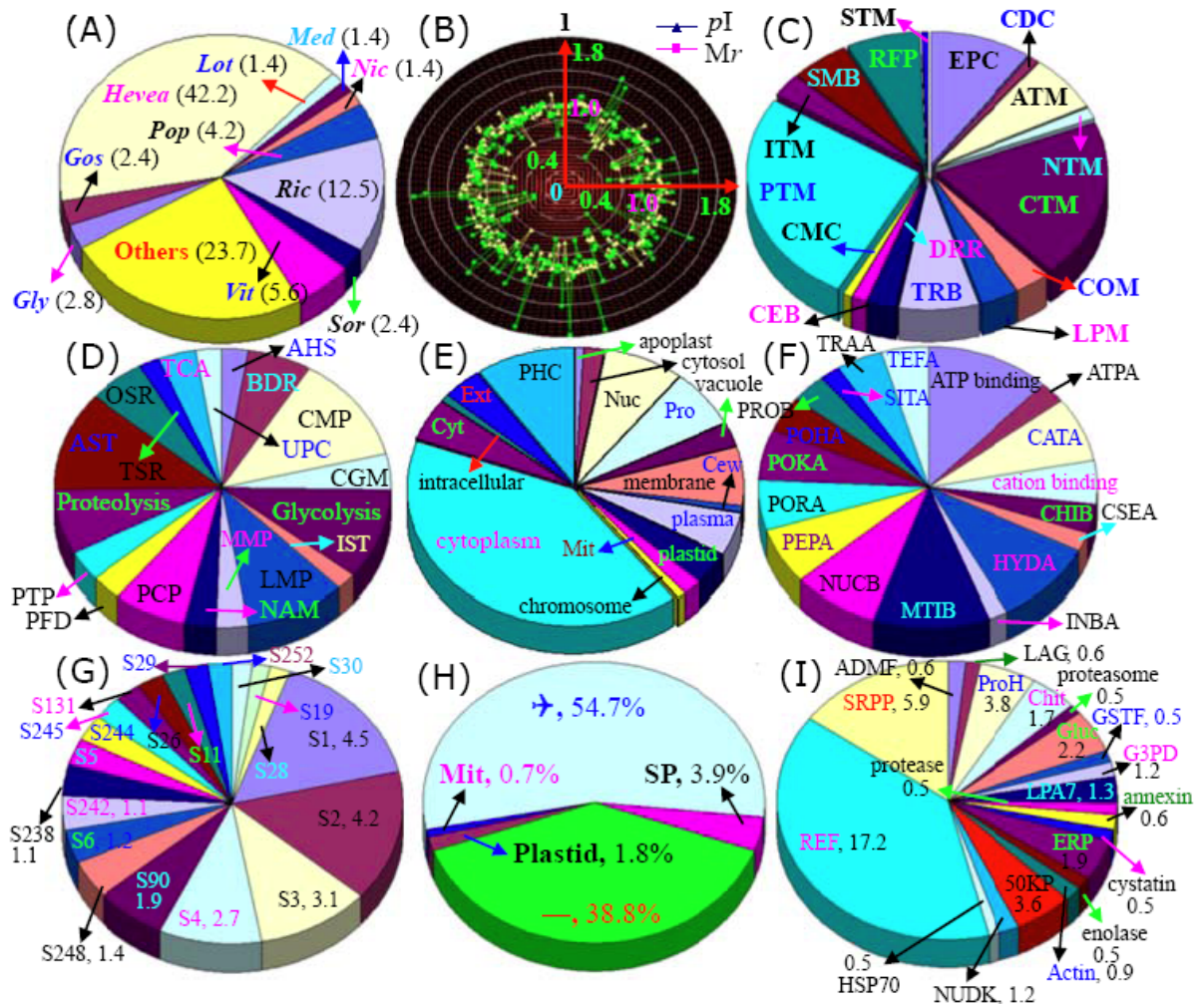


Figure S2: Classification and functional analysis of the identified main latex proteins. A total of 287 proteins including 184 unique proteins were positively identified from 252 spots and 35 bands by MS. The distributions of the identified proteins in different plant species were demonstrated (A). To evaluate the quality of identified proteins, the theoretical and experimental ratios of molecular mass (M_r) and isoelectric point (pI) were calculated and presented in radial chart and annular radar axis labels respectively (B). Then, each protein was functionally classified by COG and the proportion of each functional category was shown (C). The GO classification results including biological process (D), cellular component (E), and molecular function (F) were presented. The cellular locations of all the identified

proteins were also determined by TargetP (H). To detect the protein expression abundance in rubber latex, the most abundant 20 protein spots (G) as well as the most abundant 20 kinds of proteins on the reference 2-DE gel were also determined. The spot number (S), protein name and the volume value (Vol%) in the reference 2-DE gel were presented.

The abbreviations used in this study were listed as the following.

The abbreviations for proteins:

ABAS, abscisic acid stress ripening-related protein; ACAT, Acetyl-CoA C-acetyltransferase; ACPX, ascorbate peroxidase; ADMF, actin depolymerizing factor; ADPF, actin-depolymerizing factor; APTS, asparaginyl-tRNA synthetase; ATPS, ATP synthase subunit beta; CAMT, caffeic acid 3-O-methyltransferase; CDCP, cell division cycle protein; CDPK, calcium-dependent protein kinase; Chit, chitinase; CIAD, cinnamyl alcohol dehydrogenase; CIBP, citrate-binding protein; CIPT, cis-prenyl transferase; CLBP, calcium lipid binding protein; COPC, COP9 signalosome complex subunit 1; COPT, copper transport protein; CVMP, coated vesicle membrane protein; CYAS, beta-cyanoalanine synthase; CYSP, cysteine protease; DMAPP, dimethylallyl diphosphate; ELRP, elicitor-responsive protein; ETEF, eukaryotic translation elongation factor; ETIF, eukaryotic translation initiation factor; ETHI, ethylene-inducible protein; ETHR, ethylene receptor; FADS, farnesyl diphosphate synthase; GLUD, glutaredoxin; GGCS, gamma-glutamylcysteine synthetase; GGDS, geranylgeranyl diphosphate synthase; Gluc, beta-1,3-glucanase; GLUR, glutathione reductase; GLUS, glutamine synthetase; GSGT, galactinol-sucrose galactosyltransferase; GSTF, glutathione-S-transferase; G3PD, glyceraldehyde 3-phosphate dehydrogenase; G6PD, glucose-6-phosphate dehydrogenase; G6PE, glucose-6-phosphate 1-epimerase; G6PI, glucose-6-phosphate isomerase; HMGR, hydroxymethylglutaryl coenzyme A reductase; HMGS, hHydroxymethylglutaryl coenzyme A synthase; HSP 70, heat shock protein 70; HYDL, hydroxynitrile lyase; LACG, latex cyanogenic beta glucosidase; LACT, latex cystatin; LAP, latex abundant protein; LAG, latex allergen; LPA7, latex protein allergen Hev b 7; MEVD, mevalonate disphosphate decarboxylase; MEVK, mevalonate kinase; MIPS, myo-inositol-1-phosphate synthase; NUDK, nucleoside diphosphate kinase; PDBP, pyridoxal biosynthesis protein; PHOK, phosphomevalonate kinase; PHOT, phosphoglyceride transfer family protei; PMPP, pyrophosphate-energized membrane proton pump; PPCI, peptidyl-prolyl cis-trans isomerase; ProH, prohevein; PROI, protease inhibitor protein; PseuH, pseudo-hevein; RAPK, receptor for activated protein kinase; REF, rubber elongation factor; RRMP, RNA recognition motif-containing protein; SOD, superoxide dismutase; SRPP, small rubber particle protein; SUCT, sucrose transporter; TMAP, translation machinery-associated protein; UBCE, ubiquitin-conjugating enzyme; UBPL,

ubiquitin-protein ligase; VHAE, V-type proton ATPase subunit E; VHAF, V-type proton ATPase subunit; V-PPase, vacuolar-type inorganic pyrophosphatase; 50KP, 50 kDa protein.

The abbreviations for COG classification of each protein:

EPC, Energy production and conversion; CDC, Cell division and chromosome partitioning; ATM, Amino acid transport and metabolism; NTM, Nucleotide transport and metabolism; CTM, Carbohydrate transport and metabolism; COM, Coenzyme transport and metabolism; LPM, Lipid metabolism; TRB, Translation, ribosomal structure and biogenesis; DRR, DNA replication, recombination and repair; CMC, Cell envelope biogenesis, outer membrane/ G Carbohydrate transport and metabolism; PTM, Posttranslational modification, protein turnover, chaperones.

The abbreviations for GO-Biological process:

AHS, ATP hydrolysis and synthesis; BDR, biotic defense response; CMP, carbohydrate metabolic process; CGM, cellulose biosynthetic and glucose metabolic process; IST, intracellular signal transduction; LMP, lipid metabolic process; MMP, malate metabolic process; NAM, nuclear acid metabolic process; PCP, protein catabolic process; PFD, protein folding; PTP, protein transport; AST, abiotic stress response; OSR, oxidative stress response; TRR, translational regulation; TCA, tricarboxylic acid cycle; UPC, ubiquitin-dependent protein catabolic process.

The abbreviations for GO-Cellular component:

Nuc, nucleus; Pro, proteasome; Cew, cell wall; Mit, mitochondria; Cyt, cytoskeleton; Ext, extracellular region; PHC, phosphopyruvate hydratase complex.

The abbreviations for GO-Molecular function:

ATPA, ATPase activity; CATA, catalytic activity; CHIB, chitin binding; CSEA, cysteine synthase and endopeptidase activity; HYDA, hydrolase activity; INBA, inhibitor activity; MTIB, metal ion binding; NUCB, nucleotide binding; PEPA, peptidase activity; PORA, peroxidase and reductase activity; POKA, phosphate kinase activity; POHY, phosphopyruvate hydratase activity; PROB, protein binding; SITA, signal transducer activity; TRAA, transferase activity; TEFA, translation elongation factor activity.

The abbreviations for the cellular location in TargetP:

Mit, Mitochondrion, i.e. the sequence contains mTP, a mitochondrial targeting peptide; Plastid, Chloroplast or other plastids, i.e. the sequence contains cTP, a chloroplast transit peptide; _, Any other location; Q, Don't know location, indicates that cutoff restrictions were set and the winning network output score was below the requested cutoff for that category; SP, Secretory pathway, i.e. the sequence contains SP, a signal peptide.

Supplementary Figure S3

Supplemental spectra and MALDI TOF/TOF MS
/MS identification information for the ethylene
responsive latex proteins

Annotated spectra [143](#) differential latex proteins on DIGE gels
identified by PMF and the combination results of PMF and
PFF.

CID: collision induced desorption;

MALDI TOF:

matrix assisted laser desorption/ionization time of flight;

MS: mass spectrometry;

PMF: peptide mass fingerprinting;

PFF: peptide fragment fingerprinting.

Spot No.: **D1**

NCBI accession No.: **gi|255545912** Species: *Ricinus communis*

PFF score: **[278]**

Protein name: **14-3-3 protein, putative**

Matched peptides No.: **[3]** Sequence coverage %: **[17]**

Matched sequences: **R.IVSSIEQKEEGR.K;**

K.LVLGSTPSGELTVEER.N;

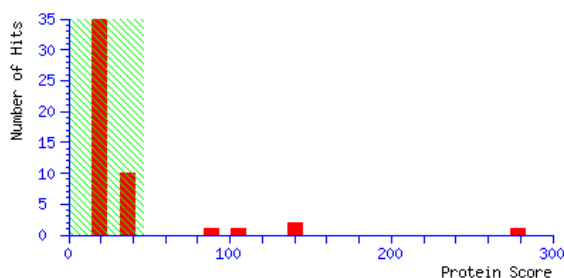
K.AAQDIALADLAPTHPIR.L

Calculated Mr: **28647**

Calculated pI: **4.71**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAAAATVPDN  LTRDQYVYLA  KLAEQAERYE  EMVQFMQKLV  LGSTPSGELT
51 VEERNLLSVA  YKNVIGSLRA  AWRIIVSSIEQ  KEEGRKNEEH  VVLVKEYRSK
101 VENELSDVCA  SILSLLDSNL  IPSASASESK  VFYLMKMGDY  HRYLAEFKAG
151 DERKTAAEDT  MLAYKAAQDI  ALADLAPTHP  IRLGLALNFS  VFYYEILNQS
201 DKACSMKQA  FEEAIAELDT  LGEESYKDST  LIMQLLRDNL  TLWTSQVQDQ
251 LDEP
```

Spot No.: **D2**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **93**

Sequence coverage %: **31**

Matched peptides No.: **9**

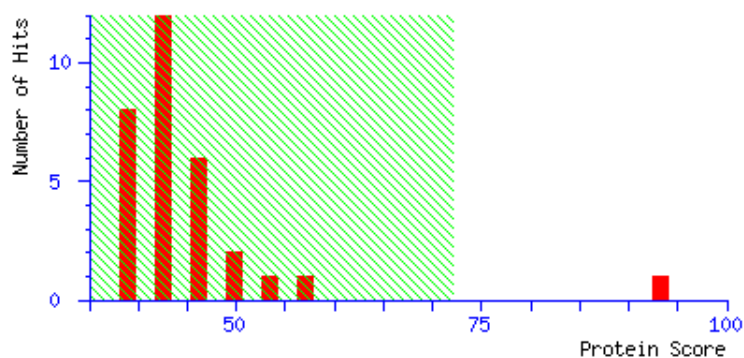
Total peptides No.: **33**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLNIEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNITVF NYFGIIEII DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLLT EATALG
```

Spot No.: **D3**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **93**

Sequence coverage %: **36**

Matched peptides No.: **11**

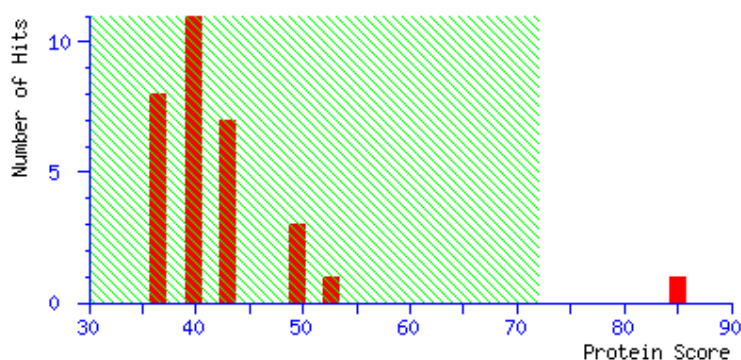
Total peptides No.: **44**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLNIEIP SEASREQLS IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNYTVF NYFGIIEII DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANNLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLT EATALG
```

Spot No.: **D4**

NCBI accession No.: **gi|147805616** Species: *Vitis vinifera*

PFF score: **[324]**

Protein name: **hypothetical protein VITISV_028800**

Matched peptides No.: **[4]** Sequence coverage %: **[14]**

Matched sequences: **R.GPYPADQVVR.D;**

K.GCFFTTSGGLR.S;

R.DRGPYPADQVVR.D;

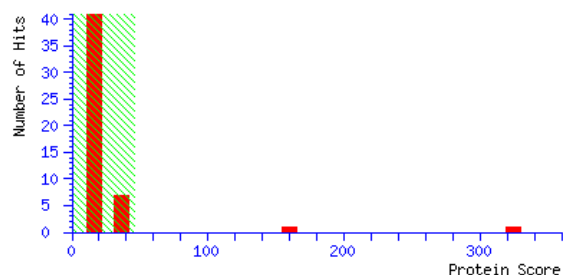
K.TANEVIIVIEAYR.T

Calculated Mr: **27385**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAVFHKSIA  EAPEGLRTPD  SASLPALKDG  FLPQFFASLH  PSAVTVNLGS
51  SGAISYSVDK  QNPLLPRLFA  VVDDIFCLFQ  GHIENVALLK  QQYGLNKTAN
101 EVIIVIEAYR  TLRDRGPYPA  DQVVRDLHGK  FAFVLYDSSN  RTAFLAADAD
151  ESVPFFWGVD  SEGHLVLSDD  EETVKKGCGK  SFAPFPKGCF  FTTSGGLRSF
201  EHPLNELRAE  PRVDSSGQVC  GANFKVDVEA  KKETGMPRVG  SAANWSTHY
```


Spot No.: **D5**

NCBI accession No.: **gi|224137430**

Species: *Populus trichocarpa*

Protein name: **predicted protein**

PFF score: [122]

Matched peptides No.: **[2]**

Sequence coverage %: **[6]**

Matched sequences: **R.VYKDG TIER.L;**

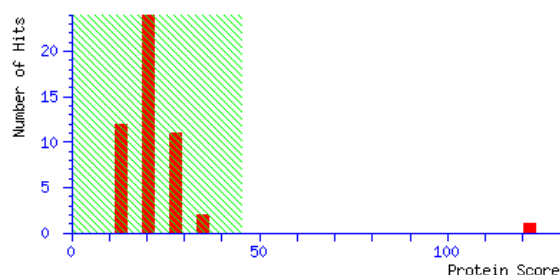
R.LLVIVA EK DILR.D

Calculated Mr: **35782**

Calculated pI: **5.30**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDQSKEIARD VFPFLRVYKD GTIERLAGTE VSHAGLDPET GVLSKDTVIV
51 PETGVSARLY RPNSAKGNRK LPLVIYYHGG GFFISSAADP KYHNSLNRLV
101 AEANIVLVSV DYRIAPENPL PAAYDDSWAA LQWVA AHAKE DGGSEAWLKD
151 YVDFGRVFLA GDSCGANVAH HFALKLKDCE LGHQINIQA I AMIFPYFWGK
201 DFIGVEVTDQ ARKSMVDNWW LLVCPSEKGC DDPLINPFAD GSPSLES LAC
251 KRLLVIVA EK DILRDRGRLY YEKMVNSEWQ GTAEFMEVQG EDHVFHIHNP
301 DCENAKSMFK GLASFINQA
```

Spot No.: D6

NCBI accession No.: [gi|14423688](#) Species: *Hevea brasiliensis*

PFF score: [229] Protein name: Enolase 1

Matched peptides No.: [3] Sequence coverage %: [10]

Matched sequences: [R.AGWGVMASHR.S + Oxidation \(M\)](#);

[R.AAVPSGASTGIYEALRLR.D](#);

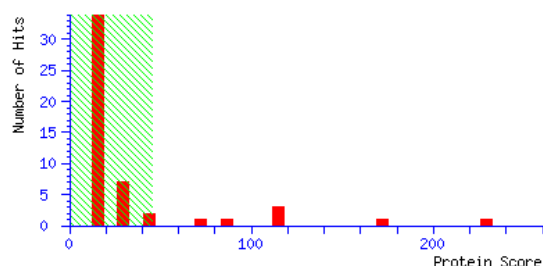
[R.IEEELGSEAVYAGANFR.K](#)

Calculated Mr: 48029

Calculated pI: 5.57

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAITIVSVRA  RQIFDSRGNP  TVEADVKLSD  GYLARAAVPS  GASTGIYEAL
51  ELRDGGSDYL  GKGVSKAVEN  VNIIIGPALV  GKDPTDQVGI  DNFMVQQLDG
101 TVNEGWCKQ  KLGANAILAV  SLAVCKAGAH  VKGIPLYEHI  ANLAGNKNLV
151 LPVPAFNVIN  GGSHAGNKLA  MQEFMILPVG  ASSFKEAMKM  GAEVYHHLKS
201 VIKKKYQDA  TNVGDEGGFA  PNIQENKEGL  ELLKTAIAKA  GYTGKVVIGM
251 DVAASEFYGS  DQTYDLNFKE  ENNGSQKIS  GEALKDLYKS  FVAEYPIVSI
301 EDPFDQDDWA  HYAKLTSEIG  EKVQIVGDDL  LVTNPKRVEK  AIKEKACNAL
351 LLKVNQIGSV  TESIEAVKMS  KRAGWGMAS  HRSGETEDTF  IADLSVGLAT
401 GQIKTGAPCR  SERLAKYNQL  LRIEEELGSE  AVYAGANFRK  PVEPY
```

Spot No.: **D7**

NCBI accession No.: **gi|37719658** Species: *Hevea brasiliensis*

Protein name: **50 kDa protein**

Mascot score: **95**

Sequence coverage %: **42**

Matched peptides No.: **14**

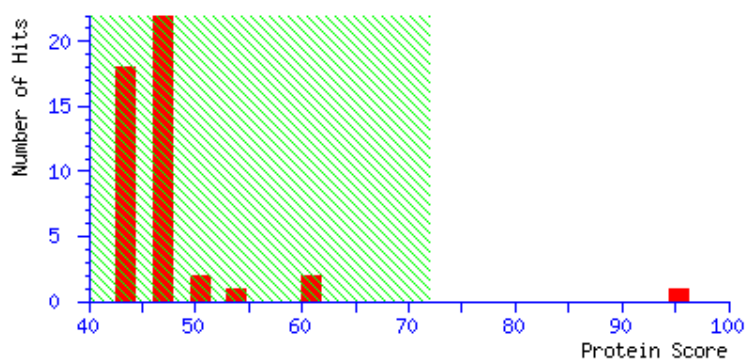
Total peptides No.: **66**

Calculated Mr: **41480**

Calculated pI: **4.60**

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 73 are significant ($p < 0.05$).



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

```
1 MASLAYSLEFI LSLFTFTLLN PVCSELDEYL FSFGDGLYDA GNAKFIYPDK
51 YLPSYHHPYG TTFDYPTGR FSDGRTVVDF VAENVSLPRI PPFKNKEANF
101 TYGANFASEG ATASDSNPLI DFRSQIRDFG ELKLEWAVQL VNVTELARRL
151 KKAVYLISFG ADDYLYNEIP SEASREQLES IVDVVLGNIS DRIKELYDFG
201 ARKFVVENVA PLGLIPFIKQ TSDNSTLFYE LASLHAMKLP QILEKIQDGY
251 LFPEFNYTVF NYFGIIEKII DAPGEHGFKY GDIACCGNST YRGQACGFLD
301 YEFVCVGNKT EYLFFDGTHN TDAANLLAE LMWDKESGFI SPYGVKDFFP
351 SPTTIQTLT EATALG
```

Spot No.: **D8**

NCBI accession No.: **gi|255565836** Species: *Ricinus communis*

Protein name: eukaryotic translation elongation factor, putative

Mascot score: **123**

Sequence coverage %: **30**

Matched peptides No.: **26**

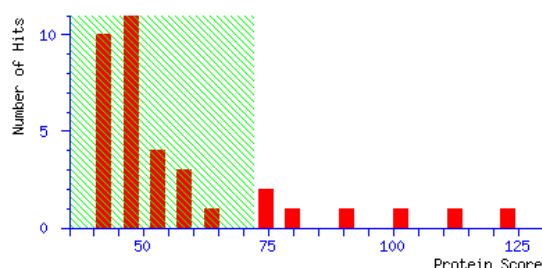
Total peptides No.: **56**

Calculated Mr: **94981**

Calculated pI: **5.87**

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  MVKFTAEELR RIMDYKHNIR NMSVIAHVDH GKSTLTDSLV AAAGIIAQEV
51  AGDVRMTDTR QDEAERGITI KSTGISLYE MTDEALKSFK GERQGNEYLI
101 NLIDSPGHVD FSSEVTAALR ITDGALVVVD CIEGVCVQTE TVLRQALGER
151 IRPVLTVNKM DRCFLELQVD GEEAYQTFSR VIENANVIMA TYEDPLLGDC
201 QVYPEKGTVA FSAGLHGWAF TLINFAKMYA SKFGVDESKM MERLWGENFF
251 DPATKKWTSK NTGSPTCKRG FVQFCYEPIK QIINTCMNDQ KDKLWPLQK
301 LGVTMKSDEK ELMGKALMKR VMQTWLPASS ALLEMMIFHL PSPAKAQRYR
351 VENLYEGPLD DPYATAIRNC DPEGPLMLYV SKMIPASDKG RFFAFGRVFA
401 GKVSTGLKVR IMGPNYVPGE KKDLYVKSVQ RTVIWMGKKQ ETVEDVPCGN
451 TVALVGLDQF ITKNATLTNE KEVDAHPIRA MKFSVSPVVR VAVQCKVASD
501 LPKLVEGLKR LAKSDPMVVC TIESGEHII AGAGELHLEI CLKDLQDDFM
551 GGAEIIKSDP VVSFRETVLE KSCRVVMSKS PNKHNRLYME ARPMEEGLAE
601 AIDEGRIGPR DDPKARAKIL SEEFGWDKDL AKKIWCFGPE TTGPNMVVDM
651 CKGVQYLNEI KDSVVAGFQW ASKEGALAEE NMRGICFEVC DVVLHADAIH
701 RGGGQVIPTA RRVIYASQLT AKPRLLEPVY LVEIQAPEQA LGGIYSVLNQ
751 KRGHVFEELQ RPGTPLYNIK AYLPVIESFG FSGTLRAATS GQAFPQCVFD
801 HWDMMSSDPM EPGSQAANLV TEIRKRKGLK EQMTPLSEFE DKL
```

Spot No.: **D9**

NCBI accession No.: **gi|225428086** Species: *Vitis vinifera*

Protein name: **PREDICTED: V-type proton ATPase subunit B 1**

Mascot score: **146**

Sequence coverage %: **52**

Matched peptides No.: **29**

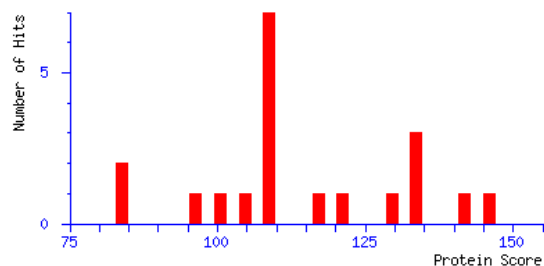
Total peptides No.: **52**

Calculated Mr: **54367**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

```
1  MGVEQNNHDA  EEGTLLVGME  YRTVSGVAGP  LVILEKVKGP  KYQEIVNIRL
51  GDGTTRRGQV  LEVDGEKAVV  QVFEGTSGID  NKYTTVQFTG  EVLKTFPVSLD
101 MLGRIFNGSG  KPIDNGPPIL  PEAYLDISGS  SINPSERTYP  EEMIQTGIST
151 IDVMNSIARG  QKIPLFSAAG  LPHNEIAAQI  CRQAGLVKRL  EKSGSLLEDV
201  EEDNFAIVFA  AMGVNMETAQ  FFKRDFEENG  SMERVTLFLN  LANDPTIERI
251  ITPRIALTTA  EYLAYECGKH  VLVILDMSS  YADALREVSA  AREEVPGRRG
301  YPGYMYTDLA  TIYERAGRIE  GRKGSITQIP  ILTMPNDDIT  HPTPDLTGYI
351  TEGQIYIDRQ  LHNRQIYPPI  NVLPSLSRLM  KSAIGEGMTR  RDHADVSNQL
401  YANYAIGKDV  QAMKAVVGEE  ALSSDLLYL  EFLDKFERKF  VAQGAYDTRN
451  IFQSLDLAWT  LLRIFPRELL  HRIPAKTLDQ  YYSREASN
```

Spot No.: **D10**

NCBI accession No.: **gi| 2832430** Species: *Hevea brasiliensis*

PFF score: **[446]**

Protein name: **Pro-hevein**

Matched peptides No.: **[4]**

Sequence coverage %: **[32]**

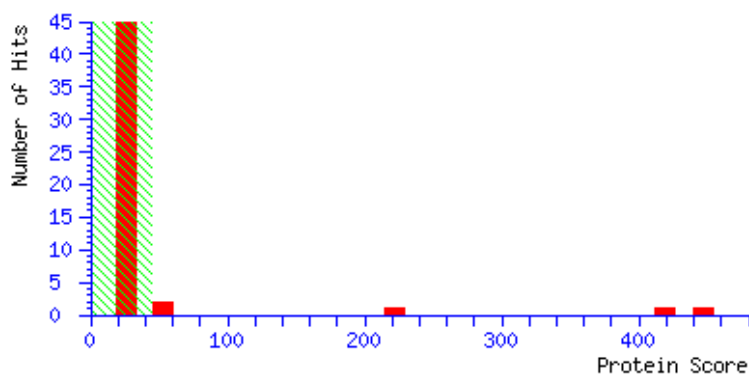
Matched sequences: **K.YGWTAFCGPVGAHGQPS**CGK.C; **K.CLSVTNTGTGAK**.A;
R.IVDQCSNGGLDLDVNVFR.Q; **R.QLDTDGKGYER**.G

Calculated Mr: **20852**

Calculated pI: **5.65**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: **D11**

NCBI accession No.: **gi|123062** Species: *Hevea brasiliensis*

PFF score: **[158]**

Protein name: **Pro-hevein**

Matched peptides No.: **[2]** Sequence coverage %: **[11]**

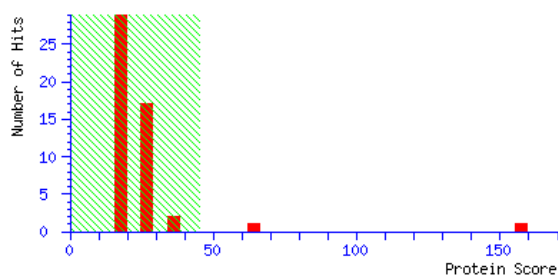
Matched sequences: **K.CLSVTNTGTGAK.T;**
R.QLDTDGKGYER.G

Calculated Mr: **22700**

Calculated pI: **5.63**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MNIFIVVLLC  LTGVAIAEQC  GRQAGGKLCF  NNLCCSQWGW  CGSTDEYCSP
51 DHNCQSNCKD  SGEGVGGGSA  SNVLATYHLY  NSQDHGWDLN  AASAYCSTWD
101 ANKPYSWRSK  YGWTAFCGPV  GAHGQSSCGK  CLSVTNTGTG  AKTTVRIVDQ
151 CSNGGLDLDV  NVERQLDTDG  KGYERGHITV  NYQFVDCGDS  FNPLFSVMKS
201 SVIN
```

Spot No.: **D12**

NCBI accession No.: **gi|15237159** Species: *Arabidopsis thaliana*

PFF score: **[77]**

Protein name: **regulatory particle triple-A ATPase 3**

Matched peptides No.: **[4]** Sequence coverage %: **[13]**

Matched sequences: **K.AVANHTTAAFIR.V;**

K.KPDTDFEFYK.-;

R.EAVELPLTHHELYK.Q;

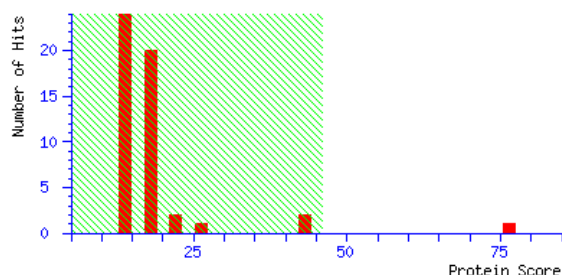
K.ENAPAIIFIDEVDAIATAR.F

Calculated Mr: **45894**

Calculated pI: **5.42**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MASAAVASMV  LDPKASPALM  DLSTADEEDL  YGRLKSLERQ  LEFTDIQEEY
51  VKDEQKNLKR  ELLRAQEEVK  RIQSVPLVIG  QFMEMVDQNN  GIVGSTTGSN
101  YYVRILSTIN  RELLKPSASV  ALHRHSNALV  DVLPPPEADSS  ISLLSQSEKP
151  DVSYNDIGGC  DIQKQEIREA  VELPLTHHEL  YKQIGIDPPR  GVLlyGPPGT
201  GKTMLAKAVA  NHTTAAFIRV  VGSEFVQKYL  GEGPRMVRDV  FRLAKENAPA
251  IIFIDEVDAI  ATARFDAQTG  ADREVQRILM  ELLNQMDGFD  QTVNVKVIMA
301  TNRADTLDPA  LLRPGRDRK  IEFPLPDRRQ  KRLVFQVCTS  KMNLSDEVDL
351  EDYVSRPDKI  SAAEIAAICQ  EAGMHA VRKN  RYVILPKDFE  KGYRANVKKP
401  DTDFEFYK
```


Spot No.: **D13**

NCBI accession No.: **gi|123062** Species: *Hevea brasiliensis*

PFF score: **[129]**

Protein name: **Pro-hevein**

Matched peptides No.: **[1]**

Sequence coverage %: **[8]**

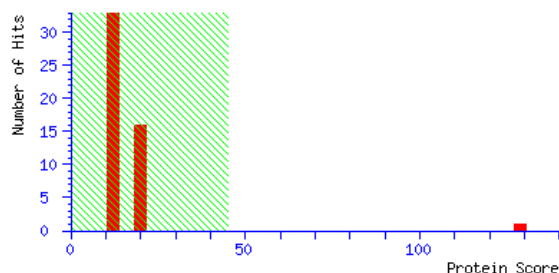
Matched sequences: **R.IVDQCSNGGLDLDVNVFR.Q**

Calculated Mr: **22700**

Calculated pI: **5.63**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MNIFIVLLC  LTGVAIAEQC  GRQAGGKLCF  NNLCCSQWGW  CGSTDEYCSP
51  DHNCQSNCKD  SGEVGGGSA  SNVLATYHLY  NSQDHGWDLN  AASAYCSTWD
101 ANKPYSWRSK  YGWTAFCGPV  GAHQSSCGK  CLSVTNTGTG  AKTTVRIVDQ
151 CSNGGLDLDV NVFRQLDIDG  KGYERGHITV  NYQFVDCGDS  FNPLFSVMKS
201  SVIN
```

Spot No.: **D14**

NCBI accession No.: **gi|225446010** Species: *Vitis vinifera*

PFF score: **[196]**

Protein name: **putative glucose-6-phosphate 1-epimerase**

Matched peptides No.: **[4]** Sequence coverage %: **[14]**

Matched sequences: **R.VALGPGGDLMLTSR.I;**

R.VALGPGGDLMLTSR.I + Oxidation (M);

K.DGLPDAVVWNPWDKK.A;

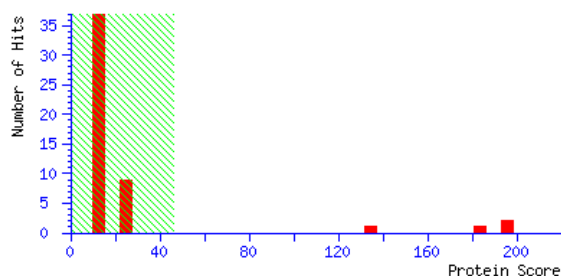
R.VEGLETLDYLDNLQNK.E

Calculated Mr: **35638**

Calculated pI: **5.75**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSSERVPVEL  CKGINGLEKV  VLREVRGSSA  EVYLYGGQVT  SWKNDHGEEL
51  LfvSSKAIFK  PPKAIRGGIP  ICFPQFGNHG  SLEQHGfARN  RVWSIDVDPP
101 PFPTNTSSRA  FIDLILKPSE  EDMKIWPHSY  EFRLRVALGP  GGDLMLTSRI
151 RNTSTEGKPL  TTFAYHTYF  SVSDISEVRV  EGLETLDYLD  NLQNKERFTE
201 QGDAITFESE  VDKIYVSTPT  KIAILDHEKK  RTFVIRKDGL  PDAVVWNPWD
251 KKAKAMADFG  DDEYKHMLCV  EAAAVEKPIT  LKPGEEWRGR  QELSAVPSSY
301 CSGQLDPQKV  LQCS
```

Spot No.: **D15**

NCBI accession No.: **gi|1143427** Species: *Cucumis sativus*

PFF score: **[338]** Protein name: **heat shock protein 70**

Matched peptides No.: **[5]** Sequence coverage %: **[8]**

Matched sequences: **K.DIDEVILVGGSTR.I;**

K.QFAAEEISAQVLR.K;

K.AVVTVPAYFNDSQR.T;

K.LSFKDIDEVILVGGSTR.I;

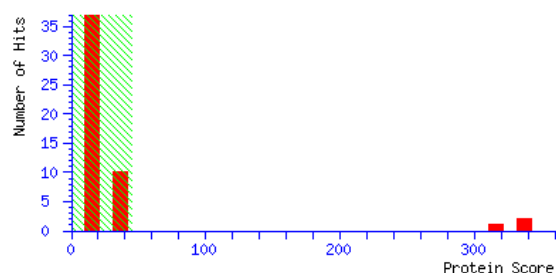
K.KQDITITGASTLPSDEVER.M

Calculated Mr: **75480**

Calculated pI: **5.15**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGASTAQIHG  LGAPSFAAAS  MRKSNNVSSR  SVFFGQKLG  N  SSAFPAAAF  L
51  NLRNNTSRRN  SSVRPLRIVN  EKVVGIDLGT  TNSAVAAMEG  GKPTIVTNAE
101 GQRITPSVVA  YTKNGDRLVG  QIAKRQAVVN  PENTFFSVKR  FIGRKMSEVD
151 EESKQVSYRV  ERDENG NVKL  ECPAIGQFA  AEEISAQVLR  KLVDDASKFL
201 NDKVTKAVVT  VPAYFNDSQR  TATKDAGRIA  GLEVLRIINE  PTAASLAYGF
251 EKKSNETILV  FDLGGGTFDV  SVLEVGDGVF  EVLSTSGDTH  LGGDDDFDKRI
301 VDWLAANFKR  DEGIDLLKDK  QALQRLTETA  EKAKMELSSL  TQANISLPFI
351 TATADGPKHI  ETTITRAKFE  ELCSDLLDRL  KTPVENSLRD  AKLSFKDIDE
401 VILVGGSTRI  PAVQELVKKM  TGKEPNVTVN  PDEVVALGAA  VQAGVLAGDV
451 SDIVLLDVSP  LSLGLETGG  VMTKIIPRNT  TLPTSKSEVF  STAADGQTSV
501 EINVLQGERE  FVRDNKSLGS  FRLDGIPPAP  RGV PQIEVKF  DIDANGILSV
551 TAIDKSGGK  QDITITGAST  LPSDEVERMV  SEADKFAKED  KEKRDAIDTK
601 NQADSVVYQT  EKQLKELGDK  VPGPVKEKVE  SKLGELKEAI  SGGSTEAIKE
651 AMAALNQEVM  QLGQSLYNQP  GAGAAPGPGA  SSES GPSEST  GKGPEGDVID
701 ADFS DSK
```

Spot No.: **D16**

NCBI accession No.: **gi|255558037** Species: *Ricinus communis*

PFF score: **[198]**

Protein name: **nucleic acid binding protein, putative**

Matched peptides No.: **[2]** Sequence coverage %: **[9]**

Matched sequences: **K.HQFTSTATSK.V;**

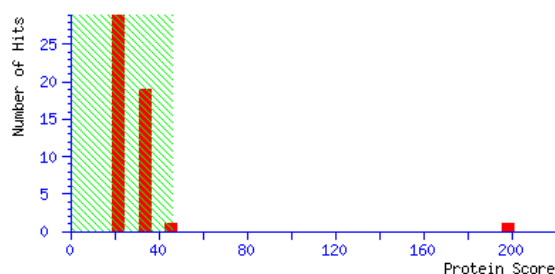
R.YVLTGASWVTGAFNR.V

Calculated Mr: **67285**

Calculated pI: **5.36**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAITTVKVSN VSLGATEQDI KEFFSFSGDI DYVELLDGNE RSQIAYVTFK
51 DQQGAETAVL LSGATIVDQS VTIELAPDYK LPAAASVPTT ATESSSTASGA
101 ESAFQKAEDI VSSMLAKGFI LGKDAVNKAK AFDEKHQFTS TATSKVASLD
151 EKIGLTEKIS AGTTLVNDKV REVDEKFRVS ETTKSAFAAA EQTVSNAGSA
201 IMKNRYVLTG ASWVTGAFNR VAKAAGEVGQ KTKEKVLAE EQNQVAEGYT
251 QIHGTDSPNM SEQMSKSSH
```

Spot No.: **D17**

NCBI accession No.: **gi|27449246** Species: *Hevea brasiliensis*

PFF score: **[105]** Protein name: **heat shock protein 70**

Matched peptides No.: **[3]** Sequence coverage %: **[23]**

Matched sequences: **K.DHGGPEDENR.H;**

K.HIPLSGPHSIAGR.S;

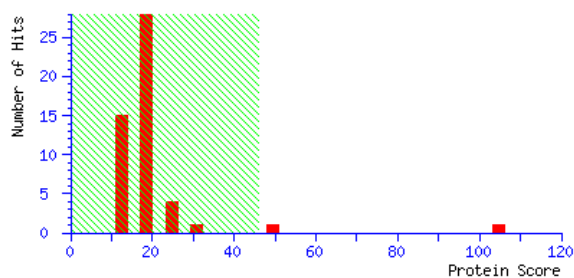
R.SVVFHEGRDDLK.G

Calculated Mr: **15726**

Calculated pI: **5.73**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLKAVAVITS  SEGISGKIFF  TQEGDGPTTV  TGSVSGLKPG  LHGFHVHTFG
51  DTTNGCLSTG  LHFNPASKDH  GGPEDENRHA  GDLGNVNVGD  DGTANFTIVD
101 KHIPLSGPHS IAGRSVVFHE GRDDLKGGH  ELSKITGNAG  DRIACGIIGL
151  QE
```

Spot No.: **D18**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[446]** Protein name: **prohevein**

Matched peptides No.: **[4]** Sequence coverage %: **[32]**

Matched sequences: **K.CLSVTNTGTGAK.A;**

R.QLDTDGKGYER.G;

R.IVDQCSNGGLDLVDNVFR.Q;

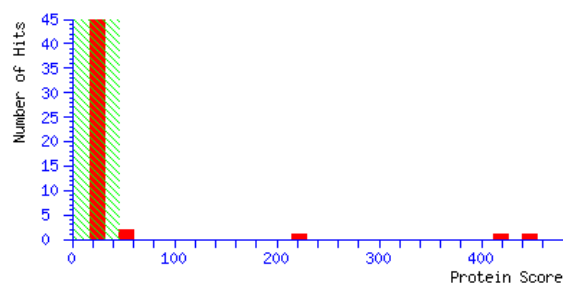
K.YGWTAFCGPVGAGHQPCGK.C

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYYGWTAFC
101 GPVGAHGQPS CGRCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: **D19**

NCBI accession No.: **gi|255551408** Species: *Ricinus communis*

PFF score: **[301]**

Protein name: **chaperonin containing t-complex protein 1**

Matched peptides No.: **[6]** Sequence coverage %: **[14]**

Matched sequences: **R.HKFDVDTRL**;

K.GPNDHTIAQIK.D;

K.GIDPPSLDLLAR.A;

R.LVEGLVLDHGSR.H;

K.SEINAGFFYSNAEQR.E;

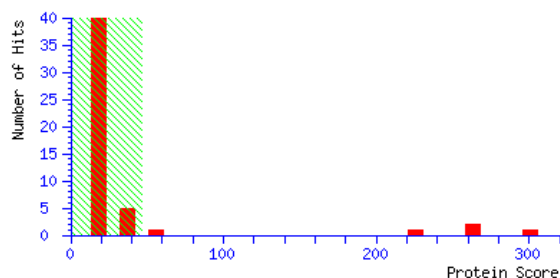
K.NTIEDEAVVLGAGAFELAR.K

Calculated Mr: **59556**

Calculated pI: **6.08**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSLRVLNPNA  EVLNKSAALH  MNINAAGLQ  DVLKSNLGP  GTIKMLVGG
51  GDIKLTKDG  TLLKEMQIQ  PTAIMIART  VAQDDISGD  TTSTVIFIG
101 LMKQSERYIG  EGMHPRVLD  GFEIAKRAT  QFLEKFKTP  VMGDEPDKE
151 LKMVARTTLR  TKLYETLAD  LTDIVVNAV  CIRKPEEAID  LFMVEIMHM
201 HKFDVDTRLV EGLVLDHGSR  HPGMKRRAE  CYILTCNVSL  EYDKSEINAG
251 FFYSNAEQR  KMVAAERRQ  DERVEKIEL  KNKVCSGND  NFVVINQGI
301 DPPSLDLLAR  AGIIALRRA  RRNMERLVA  CGGEAVNSV  DLTPDCLGWA
351 GLVYEHILGE  EKYTFVEHV  NPHSCTILIK  GPNDHTIAQI  KDAVRDGLRA
401 VKNTIEDEAV VLGAGAFELA  ARKYLISEVK  KTVKGRAQL  IEAFADALL
451 IPKTLAENSG  LDTQDEIVS  TGEHDRENIV  GLNLQTTGG  DPQMEGIFDN
501 YSVKRQLINS  GPVIASQLL  VDEVIRAGRN  MRKPN
```

Spot No.: **D20**

NCBI accession No.: **gi|225438145** Species: *Vitis vinifera*

PFF score: **[75]**

Protein name: **PREDICTED: malate dehydrogenase, cytoplasmic**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

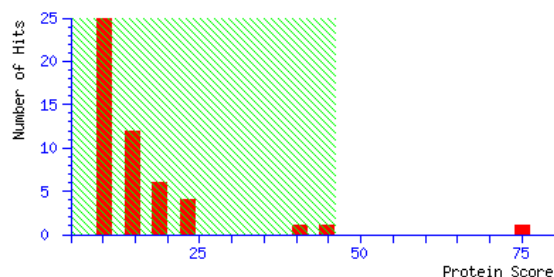
Matched sequences: **K.IVQGLHIDEFSR.K**

Calculated Mr: **35881**

Calculated pI: **6.18**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAKEPVRVLV TGAAGQIGYA LVPMIARGVM LGADQPVILH MLDIPPAAEA
51 LNGVKMELVD AAFPLLKGVV ATTDVVEACT GVNIAMVGG FPRKEGMERK
101 DVMSKNVSIY KSQASALENH AAANCKVLV ANPANTNALI LKEFAPSIPE
151 KNISCLTRLD HNRALGQVSE RLVNQVSDVK NVIIWGNHSS TQYPDVNHAT
201 VKTPAGEKPV RGLVGDDAWL NGEFITTQQ RGAAIKARK LSSALSAASA
251 ACDHIRDWL GTPEGTWVSM GVYS DGSYNV PAGLIYSFPV TCCAGEWKIV
301 QGLHIDEFSR KKLDLTAQEL SEEKELAYSC LS
```


Spot No.: **D21**

NCBI accession No.: **gi|224056377** Species: *Ricinus communis*

PFF score: **[116]**

Protein name: **Aspartic proteinase precursor**

Matched peptides No.: **[3]** Sequence coverage %: **[7]**

Matched sequences: **K.GEHTYVPVTQK.G;**

K.EPVFSFWFNR.N;

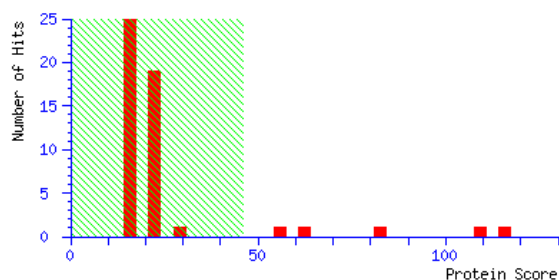
K.NYMDAQYFGEIGIGTPPQK.F + Oxidation (M)

Calculated Mr: **56596**

Calculated pI: **5.19**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGTIFKPALF  FCLILLPLVC  ATASSNDGL  VRIGLKKRKF  DQNNRVAAQF
51  ESKEGEAFRA  SIKKYHIRGN  LGDAEDIDIV  SLKNYMDAQY FGEIGIGTPP
101 QKFTVIFDTG  SSNLWVPSSK  CYFSVACYFH  SKYKSGQSS  YKKNKGSADI
151  HYG TGAISGF  FSQDNVKVGE  LVIKNQEFIE  ATREPSITFL  VAKFDGILGL
201  GFQEISVGNA  VPVWYNMVNQ  GLVKEPVFSF WFNRNADEDE  GGEIVFGGMD
251  PNHYGEHTY  VPVTQKGYWQ  FDMGDVLIDG  KITGICSSGC  AAIADSGTSL
301  LAGPTTIITE  VNHAIGATGV  VSQECKAVVA  QYGETIIAML  LAKDQPQKIC
351  SQIGLCTFDG  SRGVSMGIES  VVNEKIQEVA  GGLHDAMCST  CEMAVVWMQN
401  QLKQNQTQEH  ILNYVNELCE  RLPSPMGESA  VDCGSLSTMP  NVSFTIGGRV
451  FDLAPEQYVL  KVG DGEAAQC  ISGFTALDVP  PPRGPLWILG  DVFMGPFHTV
501  FDYGNKRVGF  AEVA
```

Spot No.: **D22**

NCBI accession No.: **gi|255554865** Species: *Ricinus communis*

PFF score: **[145]**

Protein name: **lactoylglutathione lyase, putative**

Matched peptides No.: **[4]** Sequence coverage %: **[16]**

Matched sequences: **K.FYTECFGMK.L;**

K.ITSFLDPDGWK.T;

K.DPDGYIFELIQR.G;

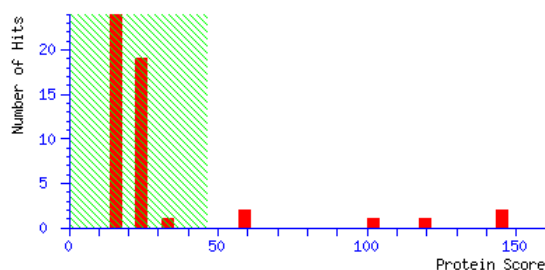
R.GPTPEPLCQVMLR.V + Oxidation (M)

Calculated Mr: **31641**

Calculated pI: **7.63**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAAEATAPNA  DVLEWPKKDK  RLLHAVYRV  GLDRTIKFY  TECFGMKLLR
51  KRDIPEEKYS  NAFLGFGPEE  TNFVVELTYN  YGVTSYDIGT  GFGHFAIATQ
101  DVYKLVEEVL  AKGGAVTREP  GPVKGGTTVI  AFVKDPGYI  FELIQRGPTP
151  EPLCQVMLRV  GDLDRSIRFY  EKALGMKLLR  KVDKPEYKYT  LAMMGYADEY
201  ETTVLELTYN  YGVTEYTKGN  AYAQVAISTD  DVYKSAEVDN  LVTQELGGKI
251  TRQPGPIPL  NTKITSFLDP  DGWKTKRKR
```

Spot No.: **D23**

NCBI accession No.: **gi|356517215** Species: *Glycine max*

PFF score: **[466]**

Protein name: **uncharacterized protein LOC100817735**

Matched peptides No.: **[5]** Sequence coverage %: **[22]**

Matched sequences: **R.LGLSAVIMGSR.G;**

K.IHIVKDHDMK.E + Oxidation (M);

K.IGVAVDLSDESAYAVR.W;

R.KIGVAVDLSDESAYAVR.W;

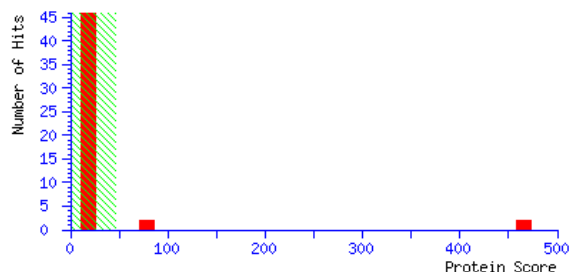
K.LGSVSDYCVHHCVPVVVVR.Y

Calculated Mr: **27677**

Calculated pI: **5.83**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MQPHQNPPAL  DSDPQLPQIK  IHHPASPRHH  HPSSAGAATP  TPTAGARRKI
51  GVAVDLSDES  AYAVRWAVQH  YIRPGDAVIL  LHVSATNVLF  GADWGSIDLS
101 INTDPNSDED  AVSAVNNSND  HNSKRKLEDD  FDAFTASKAA  DLAKPLRELQ
151 IPFKIHIVKD  HDMKERLCLE  VERLGLSAVI  MGSRGFGAVR  RGSDGKLGSV
201 SDYCVHHCVC  PVVVVRYPDD  KDAVAAATTA  EPVAVKGDG  EGEAVVQVPV
251  HKKED
```

Spot No.: **D24**

NCBI accession No.: **gi|356569000** Species: *Glycine max*

PFF score: **[505]**

Protein name: **heat shock cognate 70 kDa protein-like**

Matched peptides No.: **[11]** Sequence coverage %: **[19]**

Matched sequences:

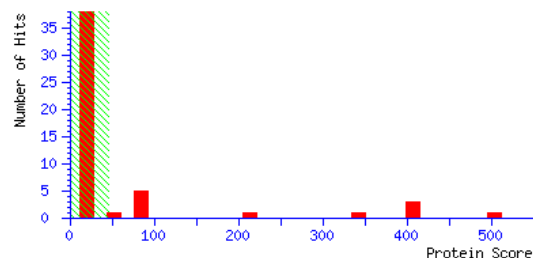
K.ITITNDKGR.L;K.DAGVIAGLNVMR.I;K.DAGVIAGLNVMR.I + Oxidation (M);R.MVNHFVQEFK.R + Oxidation (M);K.NALENYAYNMR.N;K.NALENYAYNMR.N (M);K.SSVHDEVVLVGGSTR.I;R.TPSYVAFTDTER.L;K.ATAGDTHLGGEDFDNR.M; R.IINEPTAAAIAYGLDKK.A;K.EQVFSTYSDNQPGVLIQVYEGER.T

Calculated Mr: **71194**

Calculated pI: **5.10**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAGKGEGLAI  GIDLGTTYSC  VGVWQHDRV  I IANDQGNRT  TPSYVAFTDT
51  ERLIGDAAKN  QVAMNPINTV  FDAKRLIGRR  VSDPSVQSDM  KLWPFKVTAG
101  AGEKPMIGVN  YKGEKQFAA  EEISSMVLTK  MREIAEAYLG  STVKNAVTV
151  PAYFNDSQRQ  ATKDAGVIAG  LVNMRINEP  TAAAIAYGLD  KKATSVGEKN
201  VLIFDLGGGT  FDVSLTIEE  GIFEVKATAG  DTHLGGEDFD  NRMVNHVQVE
251  FKRKNKKDIT  GNPRLRRLR  TSCERAKRTL  SSTAQTIEI  DSLFEGIDFY
301  STITRARFEE  LNMDLFRKCM  EPVEKCLRDA  KMDKSSVHDV  VLVGGSTRIP
351  KVQQLLQDF  NGKDLCKSIN  PDEAVAYGAA  VQAAILSGEG  NEKVQDLLL
401  DVTPLSLGLE  TAGGVMTVLI  PRNTTIPTKK  EQVFSTYSDN  QPGVLIQVYE
451  GERTRTRDNN  LLGKFELSGI  PPAPRGVPQI  TVCFDIDANG  ILNVAEDKT
501  TGQKNKITIT  NDKGRLSKEE  IEKMQEAEK  YKSEDEEHKK  KVEGKNALEN
551  YAYNMRNTIK  DEKISSKLSS  EDKTKIDNAI  EQAIQWLDTN  QLAEDEFED
601  KMKELEGICN  PIIAKMYQGG  AGTGGDVDDD  APPAGGSGAG  EKIEEVD
```

Spot No.: **D25**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[405]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI DR.S;

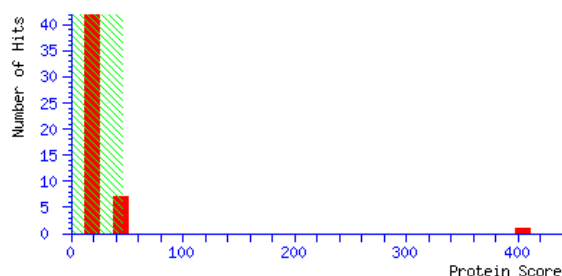
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QEGGLKYLGF VQDAATYAVT TFSNVYLF AK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRF SY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **D26**

NCBI accession No.: **gi|6624721** Species: *Pisum sativum*

PFF score: **[79]**

Protein name: **putative cysteine protease**

Matched peptides No.: **[2]** Sequence coverage %: **[7]**

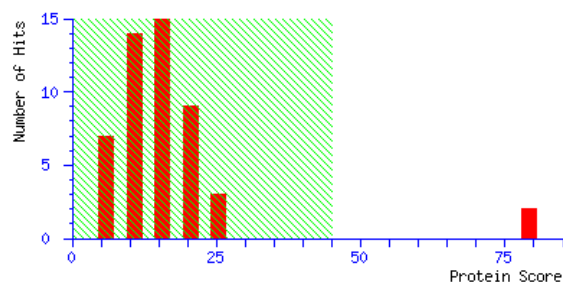
Matched sequences: **R.SGQIDSNELR.D;**
R.ALSSYNQSFSLR.T

Calculated Mr: **31321**

Calculated pI: **7.81**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  RFFLLLGKTL  SPFNMSGYPN  QSPNYGYGYN  APPPTQSYGA  PPSQSYGAP
51  PPSQSYGAPP  PSQYGAPPPG  QSYSASPYGQ  PSAPYAAPHQ  KPPKEESHSS
101 GGGAYPPPAH  GSPFASLLPS  TFPPGTDPSI  VACFQVADQD  GSGLIDDKEL
151 QRALSSYNQS FSLRTVHLLM  YHFTNTSVKI  GPKEFTSLFY  SLQSWRGIFE
201 RFDKDRSGQI DSNELRDALL  SLGYAVSPTV  LDLLVSKFDK  TGGKHKAVEY
251 DNFIECCLTV  KGLTDKFKEK  DTGILALQHF  PMRRLC
```

Spot No.: **D27**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[340]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI I DR.S;

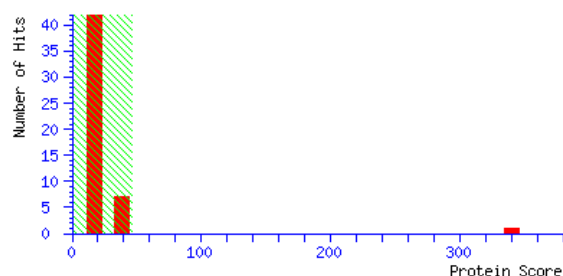
K.DKSGPLQPGVDI I EGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGLYLGF VQDAATYAVT TFSNVYLF AK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: **D28**

NCBI accession No.: **gi|314991144**

Species: *Gossypium hirsutum*

PFF score: **[115]**

Protein name: **mitogen-activated protein kinase**

Matched peptides No.: **[3]**

Sequence coverage %: **[9]**

Matched sequences: **K.YIHSANVLHR.D;**

R.HMDHENVVAIR.D;

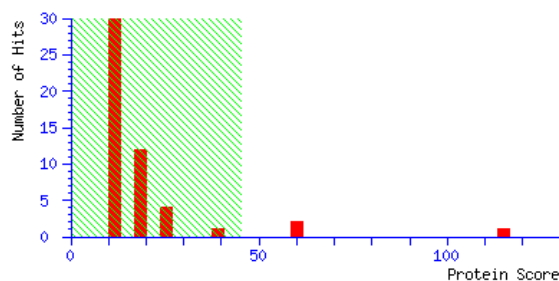
R.VTSEDFMTEYVVTR.W

Calculated Mr: **46237**

Calculated pI: **5.47**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEGGGPPQAA  DTEMAEAAQQ  QPQHHQQRPP  QVAAGLENIP  ATLSHGGRFI
51  QYNIFGNIFE  VTAKYKPPIM  PIGKGAYGIV  CSALNSETNE  HVALKKIANA
101 FDNKIDAKRT  LREIKLLRHM DHENVVAIRD  IIPPPQRECF  NDVYIAYELM
151 DTDLHQIIRS  NQALSEEHCQ  YFPYQILRGL  KYIHSANVLH RDLKPSNLLL
201 NANCDLKICD  FGLARVTSES DFMTEYVVTR  WYRPPPELLN  SSDYTAAIDV
251 WSVGCIEMEL  MDRKPLFPGR  DHVHQLRLLM  ELIGTPSEAE  LEFLNENAKR
301 YIRQLPLYRR  QSFTEKFPNV  PPLAIDLVEK  MLTFDPRQRI  TVEDALAHPY
351 LITSLHDISDE  PVCMTPFSPD  FEQHALTEEQ  MKELIYREAL  AFNPEYLQQ
```


Spot No.: **D29**

NCBI accession No.: **gi|118485535**

Species: *Populus trichocarpa*

PFF score: **[82]**

Protein name: **unknown**

Matched peptides No.: **[1]**

Sequence coverage %: **[8]**

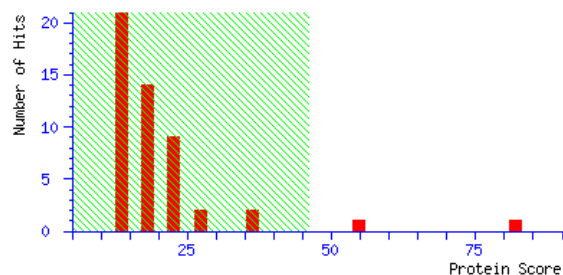
Matched sequences: **K.VATPAQAQEVHLELR.K**

Calculated Mr: **18429**

Calculated pI: **5.59**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLVNLGIPWV ILGHSERRSL LNESNEFVGD KVAYALSLGL KVIACVGETL
51 QQRESGSTMA VVAAQTKAIA ANVSYWDNVV MAYEPVWAIG TGKVATPAQA
101 QEVHLELRKW FHDNVGAEVA ASTRIIYGGV VNGANCKELA GQPDVDGFLV
151 GGASLKPEFI DIIKSATVKS QL
```

Spot No.: **D30**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[470]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[27]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.SGPLQPGVDIIEGPVK.N;

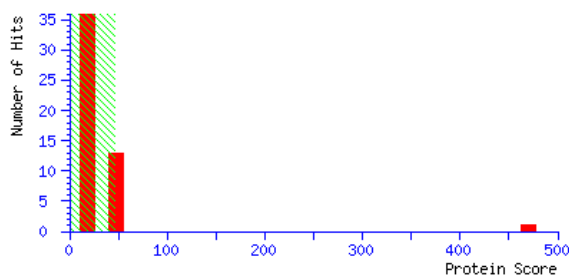
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLGF VQDAATYAVI TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **D31**

NCBI accession No.: **gi|470127750**

Species: *Fragaria vesca subsp. Vesca* PFF score: **[80]**

Protein name: **uncharacterized protein LOC101300446**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

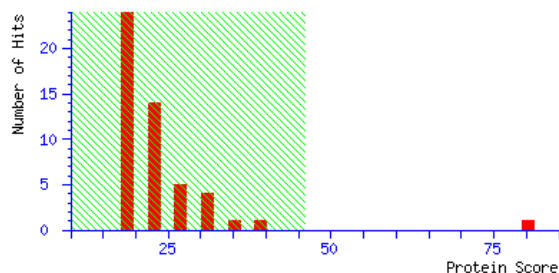
Matched sequences: **K.KLDLVITSPLLR.T**

Calculated Mr: **36660**

Calculated pI: **6.43**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTVSISSIYT  PHISLIPLSV  PTSTSPSSKF  PKS KHHSILL  CFSSPPDMA
51  AGATSLYPLH  RSKTIHLVRH  AQGIHNVEGE  KDHLAYMSHD  LFDAHLTPLG
101  WKQVDNLHKH  VQACGLTKKL DLVITSPLLR  TMQTAVGVFG  GEAYTDGIDV
151  PPLMVENAGN  SLHAAISSLN  CPPFVAVELC  REHLGVHPCD  KRRSISEYRP
201  LFPAIDFSLI  ENDDDILWTP  DIREKNEEVA  ARGLKFLNWL  WTREEKNIAI
251  VTHSGFLYHT  LSAFGNDCHS  SIKNEISTHF  ANCELRSMVI  VDRGLIGSNS
301  TSATNYPGKN  PQGLDLPSDL  ADKKNPVSK
```

Spot No.: **D32**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[398]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI DR.S;

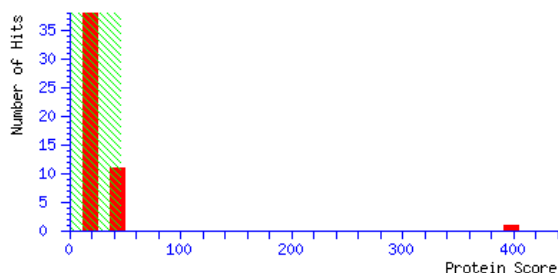
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: **D33**

NCBI accession No.: **gi|351724891** Species: *Glycine max*

PFF score: **[106]**

Protein name: **enolase**

Matched peptides No.: **[2]**

Sequence coverage %: **[7]**

Matched sequences: **R.AAVPSGASTGIYEALR.D;**

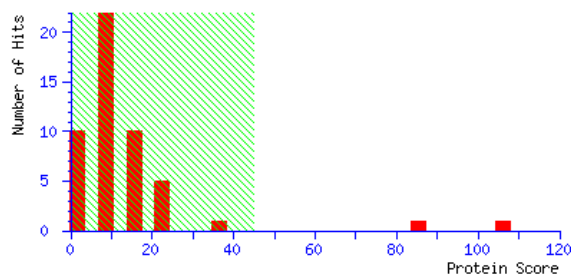
R.IEEELGAEAVYAGANFR.T

Calculated Mr: **47975**

Calculated pI: **5.31**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATIVSINAR QIFDSRGNPT VEVDLTCS DG TFARAAAVPSG ASTGIYEALE
51 LRDGGSDYL G KGVSKAVDNV NTVIGPALIG KDPTEQTAID NLMVQQLDGT
101 VNEWGWCKQK LGANAILAVF LAVCKAGASV LKIPLYKHIA NIAGNKKLVL
151 PVPAFNVI NG GSHAGNKLAM QEFMVLPGA SSFKEAMKMG VEVYHNLKSV
201 IKKKGQDAI NVGDEGGFAP NIQENKEGLE LLKTAIAKAG YTGKVVIGMD
251 VAASEFYKED KTYDLNFKED NNDGSQRISG DALKDLYKSF VSEYPIVSIE
301 DPFQDDWEH YAKLTAEVGA NVQIVGDDLL VTNPKRVQKA IDTKACNALL
351 LKVNQIGSVT ESIEAVRMSK KAGWGMASH RSGETEDTFI ADLSVGLATG
401 QIKTGAPCRS ERLAKYNQLL RIEEELGAEA VYAGANFRTP VEPY
```

Spot No.: **D34**

NCBI accession No.: **gi|255578278** Species: *Ricinus communis*

PFF score: **[154]**

Protein name: **hypothetical protein RCOM_0537780**

Matched peptides No.: **[2]** Sequence coverage %: **[6]**

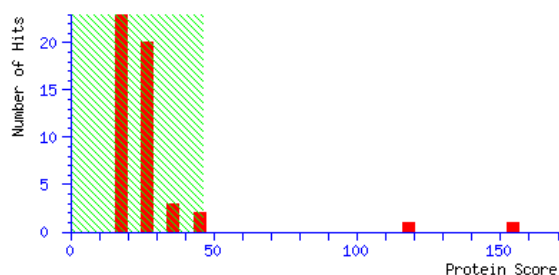
Matched sequences: **K.QESEYGSGGYGR.R;**
R.KPSYGEEGGYGER.T

Calculated Mr: **41389**

Calculated pI: **4.65**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRSEDD  VDNDFDFDPT  PYGGGYDLAL  TYGRPLPPSD  ETCYQNSAIA
51  DDDVDYDRPN  FTSYAEPSAY  NDDILQEEYN  SYSRPKPRPG  FIPGGGIGGD
101 PYSRPHAAPG  FQPGSGGYGG  VSEYEKPSGY  GRRPDSEYGS  GGYGGGTEYE
151 RPSGEDYDGS  HGRKQDSEYG  SGGYGRRPES  EYGSGGGYER  PSSEEYSGSY
201 GRKQESEYGS GGYGRRPEAE YGSGYGGRPE  TEYGGGGGSE  YGGGYGRKPS
251 YGEEGGYGER TEYERPSYGD  DPPRRPGYGR  QDDEYERPSY  ERKSDDDNDG
301 SRRKYGDGDD  EKGYQKKYGG  YGDDDDDEEGS  RRKYGYGGEE  ESYGRKKYGD
351 DGSDDDEKHH  HRHKHHQHKH  SDDE
```

Spot No.: **D35**

NCBI accession No.: **gi|1143427** Species: *Cucumis sativus*

PFF score: **[378]** Protein name: **heat shock protein 70**

Matched peptides No.: **[5]** Sequence coverage %: **[8]**

Matched sequences: **K.DIDEVILVGGSTR.I;**

K.QFAAEEISAQVLR.K;

K.AVVTVPAYFNDSQR.T;

K.LSFKDIDEVILVGGSTR.I;

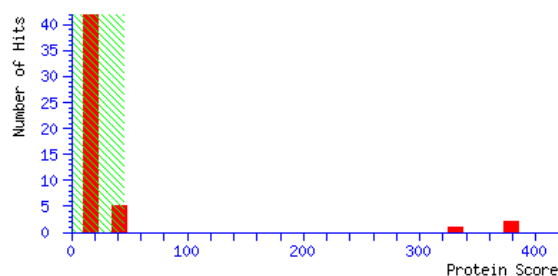
K.KQDITITGASTLPSDEVER.M

Calculated Mr: **75480**

Calculated pI: **5.15**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGASTAQIHG  LGAPSF AAAS  MRKSNNVSSR  SVFFGQKLG N  SSAFPAAAF L
51  NLRNNTSRRN  SSVRPLRIV N  EKVVGIDLGT  TNSAVAAMEG  GKPTIVTNA E
101 GQRITPSVVA  YTKNGDRLV G  QIAKRQAVVN  PENTFFSVKR  FIGRKMSEV D
151 EESKQVSYRV  ERDENG NVKL  ECPAIGKQFA AEEISAQVLR  KLVDDASKFL
201 NDKVTKAVVT VPAYFNDSQR  TATKDAGRIA  GLEVLRIINE  PTAASLAYGF
251 EKKSNETILV  FDLGGGTFD V  SVLEVGDGVF  EVLSTSGDTH  LGGDDDFDK RI
301 VDWLAANFKR  DEGIDLLKDK  QALQRLTETA  EKAKMELSSL  TQANISLPFI
351 TATADGPKHI  ETTITRAKFE  ELCSDLLDRL  KTPVENSLRD  AKLSFKDIDE
401 VILVGGSTR I  PAVQELVKKM  TGKEPNVTVN  PDEVVALGAA  VQAGVLAGDV
451 SDIVLLDVSP  LSLGLETLGG  VMTKIIPRNT  TLPTSKSEVF  STAADGQTSV
501 EINVLQGERE  FVRDNKSLGS  FRLDGIPPAP  RGV PQIEVKF  DIDANGILSV
551 TAIDKGSGK K QDITITGAST LPSDEVERMV  SEADKFAKED  KEKRDAIDTK
601 NQADSVVYQT  EKQLKELGDK  VPGPVKEKVE  SKLGELKEAI  SGGSTEAIKE
651 AMAALNQEV M  QLGQSLYNQP  GAGAAPGPGA  SSES GPSEST  GKGPEGDVID
701 ADFSDSK
```

Spot No.: **D36**

NCBI accession No.: **gi|164604960** Species: *Hevea brasiliensis*

PFF score: **[120]** Protein name: **acetyl-CoA C-acetyltransferase**

Matched peptides No.: **[2]** Sequence coverage %: **[5]**

Matched sequences: **R.ILVTLGVLK**;

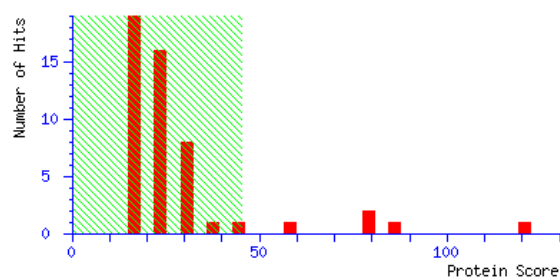
M.APVAAAEIKPR.D

Calculated Mr: **41798**

Calculated pI: **6.96**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAPVAAAEIK PRDVCIVGVA RTPMGGFLGL LSTLPATKLG SIAIEAALKR
51 ASVDPSLVQE VFFGNVLSAN LGQAPARQAA LGAGIPNSV CTTVNKVCAS
101 GMKATMLAAQ SIQLGINDVV VAGGMESMSN APKYLAEARK GSRLGHDSL
151 DGMLKDGLWD VYNDVGMGSC AEICADNHSI TREDQDKFAI HSFERGI
201 ESGAFaweiv PVEVSGGRGK PLTIIVDKDEG LGKFDPVKLR KLRPSFKENG
251 GTVTAGNASS ISDGAAALIL VSGETALKLG LQVIKIRGY ADAAQAPELF
301 TTAPALAI PK TIANAGLDAS QVDYYEINEA FAVVALANQK LLGLNPEKVN
351 VHGGAVSLGH PLGCSGARIL VTLLGVLRKK NAKYGVGGVC NGGGGASALV
401 VELL
```


Spot No.: **D37**

NCBI accession No.: **gi|37622210** Species: *Hevea brasiliensis*

PFF score: **[77]** Protein name: **small rubber particle protein**

Matched peptides No.: **[2]** Sequence coverage %: **[14]**

Matched sequences: **R.AVASEVHQSGVK.E;**

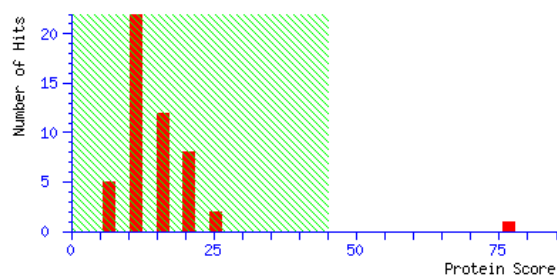
R.VSSYLPLVPTER.I

Calculated Mr: **18929**

Calculated pI: **8.99**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  KFHDVPNEVL  KFVDRKVDDES  VTSLDSRVPP  VVKQVSAQAY  SVAREAPVAA
51  RAVASEVHQS  GVKETASGLA  KTLYTKYEPK  AKELYSKYEP  KAEQCAVTAW
101 RRLNQLPLFP  QVAQVVVPTA  AYCSEKYNQT  VLSTFEKGYR  VSSYLPLVPT
151 ERIAKVFSDD  VAQSMPLVSS
```

Spot No.: **D38**

NCBI accession No.: **gi|255555641** Species: *Ricinus communis*

PFF score: **[109]**

Protein name: **26S proteasome non-atpase regulatory subunit**

Matched peptides No.: **[2]** Sequence coverage %: **[12]**

Matched sequences: **K.HAVELEQSFMEGAYNR.V + Oxidation (M);**

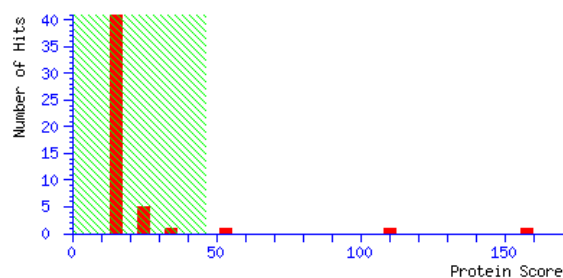
R.LPPSSQEYMILGLNLLR.L + Oxidation (M)

Calculated Mr: **30793**

Calculated pI: **4.87**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MDPKITEASQ  LFERFKAACV  REDVDACTKL  LSSLKVMLTE  FRSLPPLFED
51  TPNAIQELTL  ARDIYEHAVL  LNVKIGDQDA  FERDFQQLKP  YYTDASGRLP
101 PSSQEYMILG  LNLLRLLVQN  RIAEFHTELE  LLSPAALNP  AIKHAVELEQ
151 SFMEGAYNRV  LSAKQTVPYK  GYDYFMDLLA  KTVRDEIAGC  SEKAYDYLSI
201  NDARQMLLFS  SDTELLQYIK  EDHPEWEVKN  GVVIFQKAKE  SAPCKEIPSL
251  QLINQTLSYA  RELERIV
```

Spot No.: **D39**

NCBI accession No.: **gi|255541320** Species: *Ricinus communis*

PFF score: **[157]**

Protein name: **proteasome subunit beta type, putative**

Matched peptides No.: **[2]** Sequence coverage %: **[10]**

Matched sequences: **K.HLIYQHQNK.Q;**

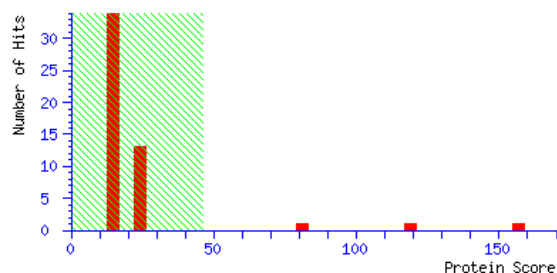
K.GCVYTYDAVGSYER.V

Calculated Mr: **24880**

Calculated pI: **6.08**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MTKQQANWSP YDNNGGSCVA IAGADYCVIA ADTRMSTGYN ILTRDYSKIC
51 QLAEKSVMAS SGFQADVQAL QKHLKAKHLI YQHQNKQMS CPAMGQLLSN
101 TLYFKRFFPY YAFNVLGGLD SEGKGCVYTY DAVGSYERVG YSAQGSSTL
151 IMPFLDNQLK SPSPLLLPAQ DAVTPLSEPE AVDLVKTVFA SATERDIYTG
201 DKVEIVVLNA DGIRREYMEL RKD
```

Spot No.: **D40**

NCBI accession No.: **gi|255570990** Species: *Ricinus communis*

PFF score: **[459]** Protein name: **heat shock protein, putative**

Matched peptides No.: **[8]** Sequence coverage %: **[16]**

Matched sequences: **K.DIDEVILVGGSTR.I;K.QFAAEEISAQVLR.K;**

K.AVVTVPAYFNDSQR.T;K.MSEVDEESKQVSYSR.V + Oxidation (M);

R.QAVVNPENTFFSVKR.F;K.LSFKDIDEVILVGGSTR.I;

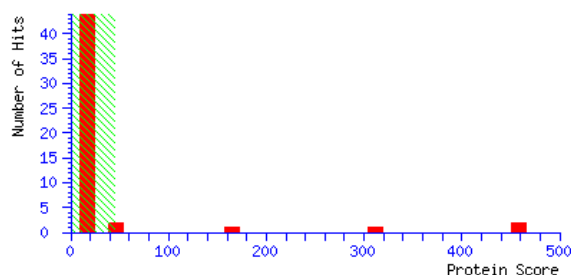
K.KQDITITGASTLPSDEVER.M;K.SEVFSTAADGQTSVEINVLQGER.E

Calculated Mr: **75431**

Calculated pl: **5.35**

Probability Based Mowse Score:

Ions score is $-10*\text{Log}(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MASSTAQIHV LGGIGFPSSK SRKPSFSFPK KTVFLGSNLK SHQTAAFLRQ
51 SNTNARRKYG PLRVVNEKVV GIDLGTNSA VAAMEGGKPT IVTNAEGQRT
101 TPSVVAITKN GDRLVGQIAK RQAVVNPENT FFSVKRFIGR KMSEVDEESK
151 QVSYSRVVRDE NGNVKLDCPA IGKQFAAEEI SAQVLRKLVD DASKFLNDKV
201 TKAVVTVPAY FNDSQRTATK DAGRIAGLEV LRIINEPTAA SLAYGFEKKN
251 NETILVFDLG GGTIFDVSVLE VGDGVFEVLS TSGDTHLGGD DFDKRIVDWL
301 AGNFKRDEGI DLLKDKQALQ RLTETAEKAK MELSSLTQTN ISLPFITATA
351 DGPKHIIETI TRAKFEELCS DLLDRLKTPV ENSLRDAKLS FKDIDEVILV
401 GGSTRIPAVQ ELVKKMTGKD PNVTVNPDEV VALGAAVQAG VLSGDVSDIV
451 LLDVTPLSLG LETLGGVMTK IIPRNTTLPT SKSEVFSTAA DGQTSVEINV
501 LQGEREFVRD NKSLGSFRLD GIPPAPRGVP QIEVKFDIDA NGILSVTAID
551 KGTGKKQDIT ITGASTLPSD EVERMVSEAE RFAKEDKEKR DAIDTKNQAD
601 SVVYQTEKQL KELGDKVPAP VKEKVEAKLK ELKDAIEGGS TQGMKDAMAA
651 LNQEVMQLGQ SLYNQPGAGG AGPAPGGEAG PSSDSSSKGP EGDVIDADFT
701 DSK
```

Spot No.: **D41**

NCBI accession No.: **gi|351726646** Species: *Glycine max*

PFF score: **[97]**

Protein name: **uncharacterized protein LOC100499738**

Matched peptides No.: **[5]** Sequence coverage %: **[28]**

Matched sequences: **K.NVALYQFR.N;**

K.LIAASGEPGDR.V;

K.SNEDKIMLLDSHK.L + Oxidation (M);

R.HYHSGMSVEEAIDLVDK.C;

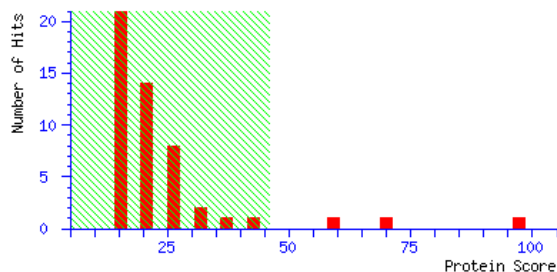
K.LIAASGEPGDRVQFTEYIQK.N

Calculated Mr: **22699**

Calculated pI: **5.86**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MECVFGLVGN  GFAIVVADSS  AVHSILVHKS  NEDKIMLLDS  HKLIAASGEP
51  GDRVQFTEYI  QKNVALYQFR  NGIPLTTAAA  ANFTRGELAT  ALRKNPYSVN
101 ILLAGYDKET  GPELYIDYI  ATLHKLEKGA  FGYGSYFSL  MMDRHYHSGM
151 SVEEAIDLVD  KCIMEIRSRL  VVAPPNEVIK  IVDKDGAREY  AWRESVKDTP
201 VPSA
```

Spot No.: **D42**

NCBI accession No.: **gi|166627** Species: *Arabidopsis thaliana*

PFF score: **[111]**

Protein name: **nucleotide-binding subunit of vacuolar ATPase**

Matched peptides No.: **[3]** Sequence coverage %: **[7]**

Matched sequences: **K.YQEIVNIR.L;**

R.QIYPPINVLPSLR.L;

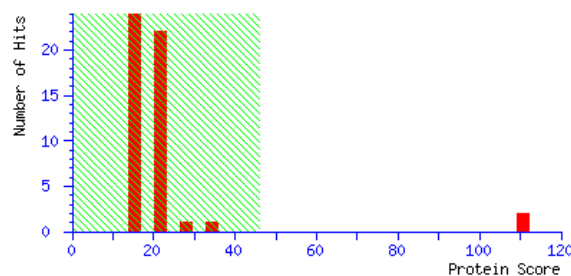
R.GYPGYMYTDLATYER.A + Oxidation (M)

Calculated Mr: **54819**

Calculated pI: **4.98**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSLSVNMGTN  DLDIEEGTLE  IGMEYRTVSG  VAGPLVILDK  VKGPKYQEIV
51  NIRLGDGSTR  RGQVLEVDGE  KAVVQVFEGT  SGIDNKFTTV  QFTGEVLKTP
101 VSLDMLGRIF  NGSGKPIDNG  PPILPEAYLD  ISGSSINPSE  RTYPEEMIQT
151 GISTIDVMNS  IARGQKIPLF  SAAGLPHNEI  AAQICRQAGL  VKRLEKTVDL
201 LEDHGEDNFA  IVFAAMGVNM  ETAQFFKRDF  EENGSMERVT  LFLNLANDPT
251 IERIIIPRIA  LTTAEYLAYE  CGKHVLVILT  DMSSYADALR  EVSAAREEVP
301 GRRGYPGYMY TDLATYERA  GRIEGRKGS  TQIPILTMPN  DDITHPTPDL
351 TGYITEGQIY  IDRQLHNRQI YPPINVLPSL SRLMKSAIGE  GMTRKDHSV
401 SNQLYANYAI  GKDVQAMKAV  VGEEALSSD  LLYLEFLDKF  ERKFVMQAY
451 DTRNIFQSLD  LAWTLRIFP  RELLHRIPAK  TLDQFYSRDS  TS
```

Spot No.: **D43**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[55]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[2]** Sequence coverage %: **[17]**

Matched sequences: **K.NVAVPLYNR.F;**

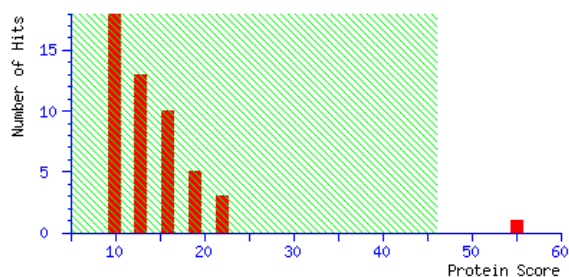
K.FVDSTVVASVTIIDR.S

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGCLKYLG FVQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVFGYEN
```

Spot No.: **D44**

NCBI accession No.: **gi|255583952** Species: *Ricinus communis*

PFF score: **[366]**

Protein name: **proteasome subunit alpha type, putative**

Matched peptides No.: **[6]** Sequence coverage %: **[26]**

Matched sequences: **K.ATEIEVGVVR.T;R.HITIFSPEGR.L;**

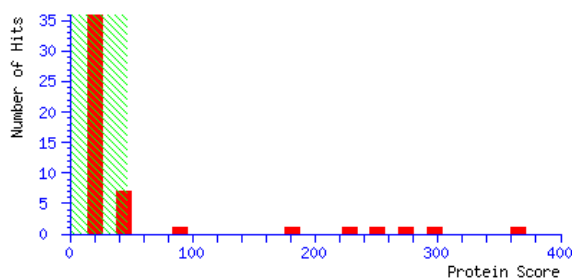
**K.EQEAINFLEK.K;K.YGYEMPVDVLAK.W + Oxidation (M);
K.LLDHTSVTHLFPITK.Y;K.ATSAGLKEQEAINFLEK.K**

Calculated Mr: **27504**

Calculated pI: **5.84**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSRGS GGGYD RHITIFSPEG RLFQVEYAFK AVKASGVTSI GVC GKDSVCV
51  VTQKKVPDKL LDHTSVTHLF PITKYLGLLA TGMTADARTL VQ QARNEAAE
101 FRFKYGYEMP VDVLAKWIAD KSQIYTQHAY MRPLGVVAMV LGIDDEYGPR
151 LYKCDPAGHF FGHKATSAGL KEQEAINFLE KKMKNDPAFT YEETVQTAIS
201 ALQSVLQEDF KATEIEVGVV RTENPVFRVL STEEIDEHLT AISERD
```


Spot No.: **D45**

NCBI accession No.: **gi|356547978** Species: *Glycine max*

PFF score: **[189]**

Protein name: **eukaryotic translation initiation factor 3 subunit K-like**

Matched peptides No.: **[3]** Sequence coverage %: **[11]**

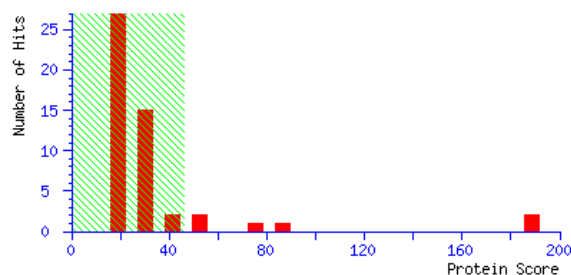
Matched sequences: **K.NAADSVPLEHITR.I;**
K.TLIVLSHYLETGR.F;
K.KNAADSVPLEHITR.I

Calculated Mr: **26266**

Calculated pI: **5.48**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGREKETTKV  AYAVEQLVAF  NRYNPDILPD  LENYVNDQVS  SQTYSLDANL
51  CLLRLYQFEP  EKMSSQIVAR  ILVKALMAMP  APDFSCLCLFL  IPERVQMEEQ
101 FKTLIVLSHY LETGRFRQFW  DEAAKSRHIV  EAVPGFEQAI  QGYAIHVLSL
151  TYQRIPRTL  AEAINIEGLS  LDKFLENQVA  NNGWVIEKSQ  GRAQLIVLPR
201  NEFNDPALKK NAADSVPLEH ITRIFPILS
```

Spot No.: **D46**

NCBI accession No.: **gi|310772392** Species: *Malpighia glabra*

PFF score: **[78]**

Protein name: **dehydroascorbate reductase**

Matched peptides No.: **[1]** Sequence coverage %: **[4]**

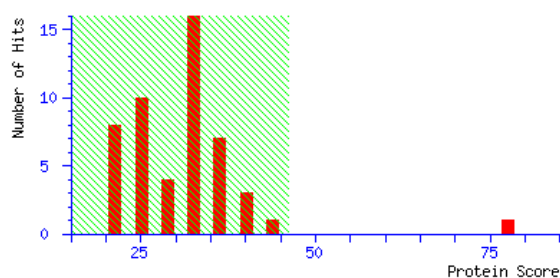
Matched sequences: **K.EHVIAGWEPK.V**

Calculated Mr: **23725**

Calculated pI: **6.40**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALEICVKAA VGAPNVLGDC PFSQRALLTL EEKLSYKRH LFDLSNKPQW
51 FLEISPEGKV PVLKLDKQW ADSDVIVGLL EEKYPEPSLK TPPEFSSVGS
101 NIFSSFVKFL KSKDANDGTE KALLEELVAL DDHLKAHGPV VAGERVTAVD
151 LSLAPKLYHL EIALGHFKKW TVPESLSHVR NYMKALFARE SFEKTKAAKE
201 HVIAGWEPKV NA
```

Spot No.: **D47**

NCBI accession No.: **gi|255547584** Species: *Ricinus communis*

PFF score: **[370]**

Protein name: **Regulator of ribonuclease activity A, putative**

Matched peptides No.: **[5]** Sequence coverage %: **[33]**

Matched sequences: **R.VLVVDGGGSLR.C;**

K.VFEDNVLIR.E;

R.ALQPIFQIYGR.R;

R.RQVFSGPVVTLK.V;

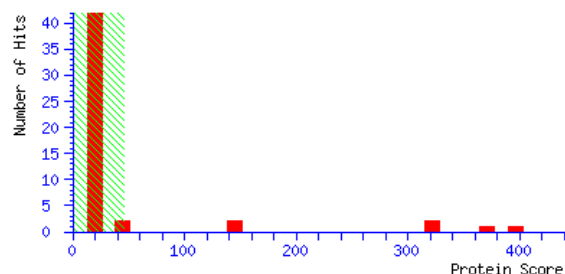
R.DVDEINGCDIGVR.A

Calculated Mr: **17958**

Calculated pI: **5.39**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALVTTAEVC DANPQLIVSG ELRALQPIFQ IYGRRQVFSG PVVTLKVFED
51 NVLIREFLEE KGNGRVLVVD GGGSLRCAIL GGNPVVQAQN NGWAGILVNG
101 CIRDVDEING CDIGVRALAS HPMKANKKGI GEKHVPITIG GTRISDGEFL
151 YADTDGILIS RNELSV
```

Spot No.: **D48**

NCBI accession No.: **gi|255568992** Species: *Ricinus communis*

PFF score: **[128]**

Protein name: **conserved hypothetical protein**

Matched peptides No.: **[2]** Sequence coverage %: **[8]**

Matched sequences: **K.WNKGDNR.W;**

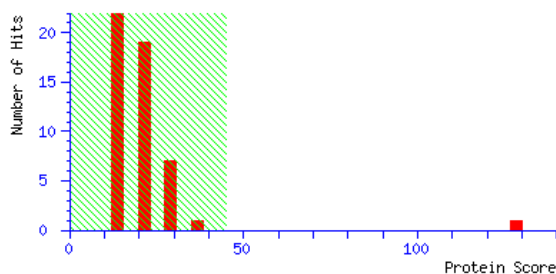
R.MVNNIHLNVDAFHGDKK.S

Calculated Mr: **35473**

Calculated pI: **6.29**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEFFFGHQSH THHHHQRNNA DDDDESQFY PPPASAPPPP YTRDNEFAPP
51 PPYFQEPDFP PSPTRPYYRE NEYAPPPPPP PVQQAHVYHS SHNQELDSY
101 YPPRPPTQVT HVSHERIGTE TQTHHSFQPH FPSFLQHHTH QSGSASGLDL
151 SNKPTYKVYS KAEPNFHLTI RDGKVV LAPS DPSDEFQNWY KDERYSTRVK
201 DEEGFPCFAL VNKASGQAMK HSI GGTHPVQ LIPYNPVLD ESILWTESKD
251 LGDGYRAVRM VNNIHLNVDA FHGDKKSGGV HNGTTIVLWK WNKGDNRWR
301 ITPHCKSLN
```

Spot No.: **D49**

NCBI accession No.: **gi|356522666** Species: *Glycine max*

PFF score: **[206]**

Protein name: **ubiquitin carboxyl-terminal hydrolase 6-like**

Matched peptides No.: **[3]** Sequence coverage %: **[7]**

Matched sequences: **R.YLTVQFVR.F;**

K.CQLYDLTGVPPE.R.Q;

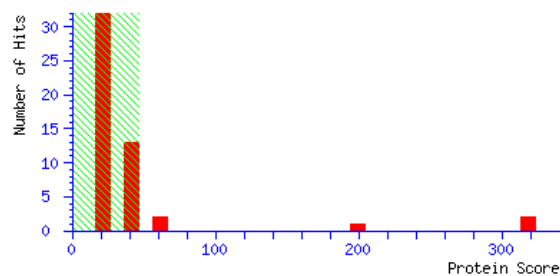
K.CHISQEVNHLHEGIK.H

Calculated Mr: **54602**

Calculated pI: **5.78**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MITVSVRWQK EIFKDVLDLT TQSPYVFKCQ LYDLTGVPPE RQKIMVKGGL
51 LKDDADWSTV GVKEGQKLMM MGTADVVKT PEKGTVFVED LPEEEQVVAV
101 GHTAGLFNLG NTCYMNSTLQ CLHSVPELKS ALTNYSHSGR NNDVDQSSHL
151 LTIATRDLFS ELDKSVKPVA PMQFWMVLRK KYPQFGQLHN GVFMQQDAEE
201 CWTQLLYTSL QSLRSPGSSE NPDAVKALFG IELISRIHCQ ESKEESSEAE
251 SVYSLKCHIS QEVNHLHEGI KHGLKSELEK ASLVLGRSAI HLKESRINAL
301 PRYLTVQFVR FFWKRESNQK AKILRKVDYP LELDVFDFCS DELRKKLEAP
351 RQILRNEEGK KLGLKVNEKS SVQKENDVKM SDAEGATSGG GEPSVPMEE
401 GEKETQMTGI YDLVAVLTHK GRSADSGHYV GWVKQENGKW IEFDDDNPKP
451 KLEEDITRLS GGGDWHMAYI IMYKARVVSV
```

Spot No.: **D50**

NCBI accession No.: **gi|224099853**

Species: *Populus trichocarpa* PFF score: **[120]**

Protein name: **conserved hypothetical protein**

Matched peptides No.: **[2]** Sequence coverage %: **[9]**

Matched sequences: **K.GCFFTTSGGLR.S;**

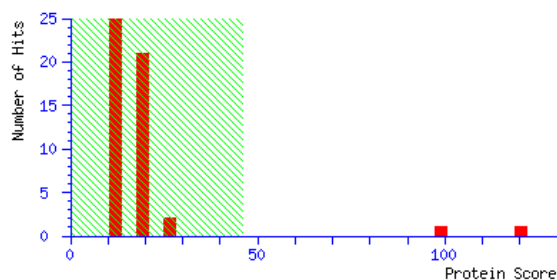
R.SFEHPLNELKPVPR.V

Calculated Mr: **27448**

Calculated pI: **5.84**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAVFDNTVA  KCPDALQSPH  SAPASSALKD  GFLANHFASQ  HPGSVTVNLG
51  TSGLISHSVE  KQNPFLPRLF  AVVDDIFCLF  QGHIDNVAVL  KQQYGLNKTA
101 NEVIVVIEAY  RTLDRGPYP  ADQVVKDIQG  KFAFILDST  SKATFFAADA
151 DGSVPFFWGA  DSEGNLVLSD  DVQIVQKGC  KSFAPFPKGC  FFTTSGGLRS
201 FEHPLNELKP  VPRVDSSGQV  CGATFKVDAE  TKKESVGMPR  VDSSYNWSSN
251  Y
```

Spot No.: **D51**

NCBI accession No.: **gi|255568794**

Species: *Ricinus communis*

Protein name: **nucleoredoxin, putative** PFF score: **[380]**

Matched peptides No.: **[6]** Sequence coverage %: **[9]**

Matched sequences: **K.LIEAYHEIK.A;K.KCDFDLHPK.C;**

K.LVELAEIEKAR.L;K.NQTLSSILVSSSR.D;

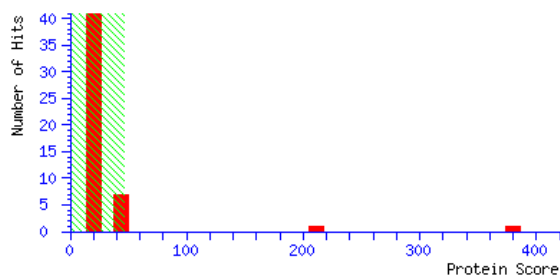
K.KNQTLSSILVSSSR.D;R.VEYFRQEEENAK.K

Calculated Mr: **63728**

Calculated pI: **5.46**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
 1 MADDPVIDVS HDLLSLLSSD DRDFLIRSNG DQVKISNLVG KIVGLYFSGS
51 WCGPCRHFTP NLVQVYEELS LKGDFFVFI SDDRDAESFD AYFSKMPWLA
101 IPFSDQETCK HLKDLFKVRG IPNLVFLDAD GKVSCDQGVR FIREYGAEGY
151 PFTPERVEYF RQEEENAKKN QTLSSILVSS SRDFLISKDG TKIPVSELEG
201 KMGVLYFSVH SHRLCLDFTP RLEEVYKKLK EKGEKFEVVL ISMDYDENNF
251 KQGLETMPWL ALPFEDKSRE RLARYFELSA LPTLVIIGED GKTLNKNVAE
301 LIEGHGIQAY PFTPEKLVEL AEIEKARLEA QTLESVLVHG DKDFVIEESG
351 SKVPVSELVG KNILLYFSAK WCPPCRAFLP KLIEAYHEIK AKDNAFEIIF
401 ISSDRDQSSF DEFYTEMPWL ALPFGDDRKT ILQRKFKIKG IPAAIAISPT
451 GKTLTKEARE HITAYGADAY PFNEDHLKQL NDKQEEIAKG WPEKVRHELH
501 PEHELVRMKR NGYGCDGCKE AGSGWSFYCK KCDFDLHPKC ALKKEENGEK
551 VKK
```

Spot No.: **D52**

NCBI accession No.: **gi|14423933** Species: *Hevea brasiliensis*

Protein name: **Small rubber particle protein** PFF score: **[137]**

Matched peptides No.: **[2]** Sequence coverage %: **[16]**

Matched sequences: **K.QVSAQTY SVAQDAPR.I;**

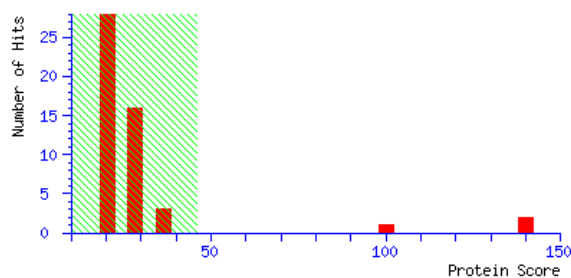
K.DISGPLKPGVDTIENVVK.T

Calculated Mr: **22331**

Calculated pI: **4.80**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKFV DKTVDVSVTS LDGVVPPVIK QVSAQTY SVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTEQG YRVSSYLPLL PTEKITKVFQ
201 DEAS
```


Spot No.: **D53**

NCBI accession No.: **gi|333690873** Species: *Hevea brasiliensis*

PFF score: **[132]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[4]** Sequence coverage %: **[18]**

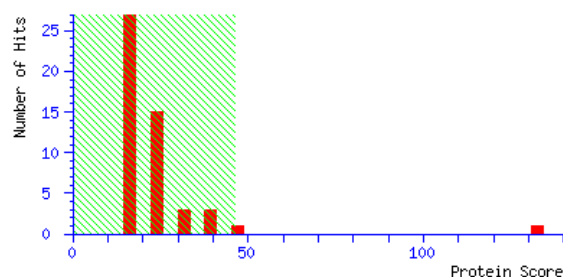
Matched sequences: **R.FWADFIDKK.I;**
K.YEYREEDLR.N;
K.SPFLPSDPYQR.A;
K.SPLLLQMNVPVHK.K + Oxidation (M)

Calculated Mr: **25595**

Calculated pI: **5.48**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVILLDF WSPFGRMRV IALAEKGVKY EYREEDLRNK SPLLLQMNVP
51 HKIPVLIHN GKPICESLIA VQYVDEVWKD KSPFLPSDPY QRAQARFWAD
101 FIDKKIYDIG RKIWTTKGDE QEAAKKEFIE ALKLELGEIG NKPYFGGESH
151 GYVDVALIPF YSWFYAYETC GNFSIEPECP VLIAWAKRCL QKESVSESVP
201 DPEKVYEFVL VLKKKFGIE
```

Spot No.: **D54**

NCBI accession No.: **gi|356543702** Species: *Glycine max*

PFF score: **[105]**

Protein name: **PREDICTED: (+)-pulegone reductase-like**

Matched peptides No.: **[1]** Sequence coverage %: **[4]**

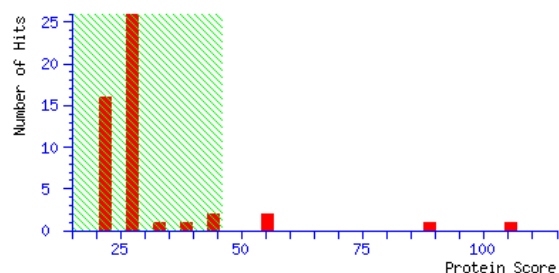
Matched sequences: **K.YFPDGIDVYLDNVGGK.M**

Calculated Mr: **38361**

Calculated pI: **5.71**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGSVVESREW YLAAYSPHGV PNSDNLKLRT VALSLSSDSI PDGHVSLQIL
51 FLSVDPYLRT RLTGTL DGLY IQQYPLNEVI TAYGVGRVIG SKDSKYTEGD
101 LILTPSAPVA EYCILPSSRV IRKIDAASGI SLPDYLSALG VPGFAAWVGI
151 VVLGDPKPGS NVFISAASGA VGMSAGQLAK IRGCRVIGST GSDEKVKLIK
201 EEFYDDGFN YNKESDFDAA LSKYFPDGID VYLDNVGGKM LESVLNHVNK
251 YARIPLCGMI SQYNKVTWTER EGVRNLLNMV GKEVRMEGFM LESYWHRFED
301 FAKEMEGYIK EGKVT SKNKI NIGIESFLDS LASLFSSSNI GKVVVQVNKA
```

Spot No.: **D55**

NCBI accession No.: **gi|351721881** Species: *Glycine max*

PFF score: **[56]**

Protein name: **18.5 kDa class I heat shock protein**

Matched peptides No.: **[3]** Sequence coverage %: **[16]**

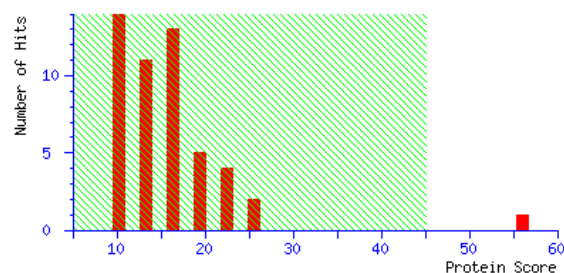
Matched sequences: **R.ENS**AFVSTR.V;
K.ETPEAHVFK.A;
K.EDKNDTWHR.V

Calculated Mr: **18491**

Calculated pI: **5.82**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSLIPNFFGG  RRNVFDPFS  LDVWDPFKDF  PFPNTLSSAS  FPEFSRENSA
51 FVSTRVDWKE TPEAHVFKAD IPGLKKEEVK  VQIEDDKVLQ  ISGERNVEKE
101 DKNDTWHRVE RSSGKFMRRF  RLPENAKVEQ  VKASMENGVL  TVTVPKEEVK
151 KPDVKAIEIS  G
```

Spot No.: **D56**

NCBI accession No.: **gi|462406561** Species: *Prunus persica*

PFF score: **[96]**

Protein name: **hypothetical protein PRUPE_ppa020028mg, partial**

Matched peptides No.: **[2]** Sequence coverage %: **[5]**

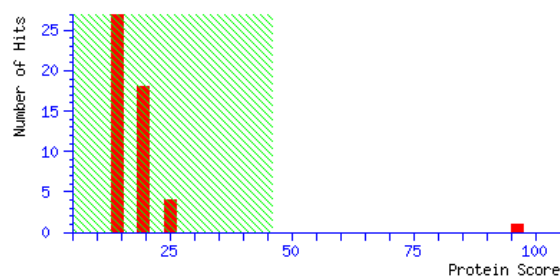
Matched sequences: **R.VDYQGYIFPR.R;**
K.QEQAAFIEEISR.T

Calculated Mr: **48394**

Calculated pl: **5.02**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEGLIKGLID  VALGHDENRN  EDPGPRDRQE  QSRSTWAQVV  SGEEQDENDS
51  DRPHGSKQSH  WNRQEQSHLG  RAEWDNVDSE  PSRRPHKAAH  EGYERNDDGG
101 RHGYNQNYSR  RKDEEENKDG  WETVGKRPPR  QQPHKIQMGQ  WNGYKRPSTE
151 QEYSDEAEVG  AKIEPSEEEL  SDLSQACSKI  WELDLNRLVP  GKDYEIDCGG
201 GKKVYQKEDL  AEGSLFTWLS  EDIFRRPTFS  RFCSLLDNYN  PNEGCKEVIT
251 SEEKQEQAAF IEEISRTAPI  KYLHKYLSRK  GILSESYQDF  KRTLTTLWFD
301 LYGRGGASAS  SSAFEHVFVG  EIKQRGEEEV  SGFHNWLQFY  LEEAKGRVDY
351 QGYIFPRRRG  QTPDSETQLL  TIQFEWNGVL  KAVSSTLVGV  SPEFEIALYT
401 LCFFMGGEDN  HIELGPYQ
```

Spot No.: **D57**

NCBI accession No.: **gi|255570177** Species: *Ricinus communis*

PFF score: **[56]**

Protein name: **proteasome subunit beta type 7,10, putative**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

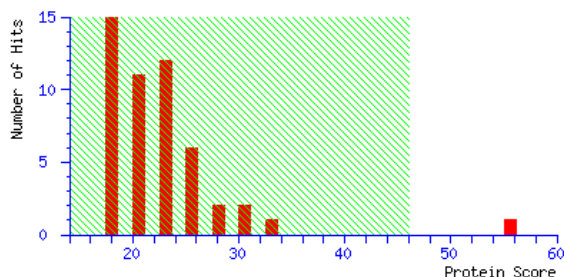
Matched sequences: **R.EGLNRDEGIK.L**

Calculated Mr: **30600**

Calculated pI: **7.60**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSKSAIDVPP KGGFSFDLCK RNEMLAKKGV NLPSSYRKTG TTIVGLIFQD
51 GVILGADTRA TEGPIVCDKN CEKIHYPAPN IYCCGAGTAA DTEAVTDMVS
101 SQLQLHRYHT GRESRVITAL TLLKKHLFNY QGYVQAALVL GGVDCTGPHL
151 HTIYPHGSTD TLPFATMGSG SLAAMAIFES KYREGLNRDE GIKLVTEAIC
201 SGVFNDLGSG SNVDVCVITK GHKEYLRNHL LPNPRTYINP KGYVFSKKTE
251 VLLTKITPLK EPSKEKEGVS EGGEAMEE
```

Spot No.: **D58**

NCBI accession No.: **gi|3834310** Species: *Arabidopsis thaliana*

PFF score: **[197]**

Protein name: **Similar to Ubiquitin-conjugating enzyme E2-17 KD
gb|D83004 from Homo sapiens**

Matched peptides No.: **[3]** Sequence coverage %: **[24]**

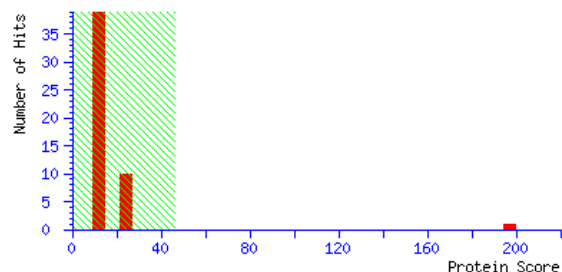
Matched sequences: **K.DKWSPALQIR.T;**
K.IYHPNIDKLGR.I;
R.LLSEPAPGISASPSEDNMR.Y + Oxidation (M)

Calculated Mr: **18339**

Calculated pI: **5.93**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MANSNLPRI  IKETQRLLE PAPGISASPS  EDNMRYFNVM  ILGPTQSPYE
51  GGVEKLELFL  PEEYPMAAPK  VRFLTKIYHP  NIDKLGRICL  DILKDKWSPA
101 LQIRTVLLRS  IQALLSAPNP  DDPLSENIAK  HWKSNEAEAV  DTGDLRNGPV
151  FMQAAHDKLE  GEN
```

Spot No.: **D59**

NCBI accession No.: **gi|315937232** Species: *Jatropha curcas*

PFF score: **[256]**

Protein name: **ubiquitin-conjugating family protein**

Matched peptides No.: **[6]** Sequence coverage %: **[48]**

Matched sequences: **K.KEMAAPHNR.K + Oxidation (M);**

K.FGLLANWQR.E;

M.TLGSGGSSVVVPR.N;

R.KLVQPPEGTYF.-;

R.EYTMEDILTQLK.K + Oxidation (M);

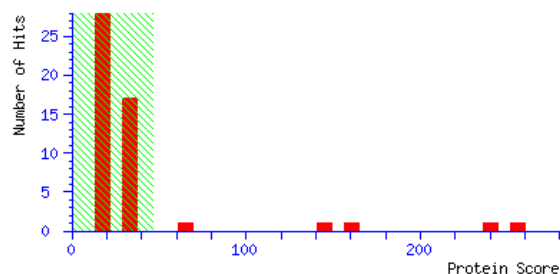
R.SWTGTIIGPHNTVHEGR.I

Calculated Mr: **16706**

Calculated *pI*: **6.20**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 **MTLGSGGSSV** **VVPRNFRLL** **ELERGEKGIG** **DGTVSYGMDD** **GDDIYMR****SWT**
51 **G****TIIGPHNTV** **HEGRIYQLKL** **FCDKDYPEKP** **PSVRFHSRIN** **MTCVNHEIGV**
101 **VEPKK****FGLLA** **NWQREYTMED** **ILTQLKKEMA** **APHNRKLVQP** **PEGTYF**

Spot No.: **D60**

NCBI accession No.: **gi|226531470** Species: *Zea mays*

PFF score: **[271]**

Protein name: **vacuolar ATP synthase subunit B**

Matched peptides No.: **[8]** Sequence coverage %: **[20]**

Matched sequences: **K.YQEIVNIR.L;**

K.TLDQYYSR.D;

K.FVTQGAYDTR.N;

R.RGQVLEVDGEK.A;

R.QIYPPINVLPSLSR.L;

R.VTLFLNLANDPTIER.I;

R.GYPGYMYTDLATYIER.A + Oxidation (M);

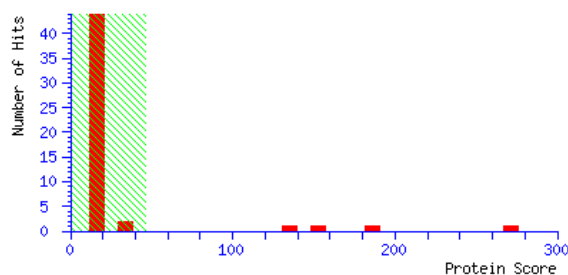
K.IPLFSAAGLPHNEIAAQICR.Q

Calculated Mr: **54142**

Calculated pI: **5.07**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGLVKEGVDM  EEGTLEIGME  YRTVSGVAGP  LVILDKVKGP  KYQEIVNIRL
51  GDGTTRRGQV  LEVDGEKAVV  QVFEGTSGID  NKYTTVQFTG  EVLKTPVSLD
101 MLGRIFNGSG  KPIDNGPPIL  PEAYLDISGS  SINPSERTYP  EEMIQTGIST
151 IDVMNSIARG  QKIPLFSAAG  LPHNEIAAQI  CRQAGLVKTL  EKGKHAEGGE
201 DDNFAIVFAA  MGVNMETAQF  FKRDFEENG  MERVTLFLNL  ANDPTIERII
251 TPRIALTAE  YLAYECGKHV  LVILDTMSSY  ADALREVSAA  REEVPGRRGY
301 PGYMYTDLAT  IYERAGRIEG  RTGSITQIPI  LTMPNDDITH  PTPDLTGYIT
351 EGQIYIDRQL  HNRQIYPPIN  VLPSLSRLMK  SAIGEGMTRR  DHSVSNQLY
401 ANYAIGKDVQ  AMKAVVGEEA  LSSEDLLYLE  FLDKFERKFV  TQGAYDTRNI
451 FQSLDLAWTL  LRIFPRELLH  RIPAKTLDQY  YSRDASH
```


Spot No.: **D61**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[175]** Protein name: **prohevein**

Matched peptides No.: **[3]** Sequence coverage %: **[22]**

Matched sequences: **K.CLSVTNTGTGAK.A;**

R.QLDTDGKGYER.G;

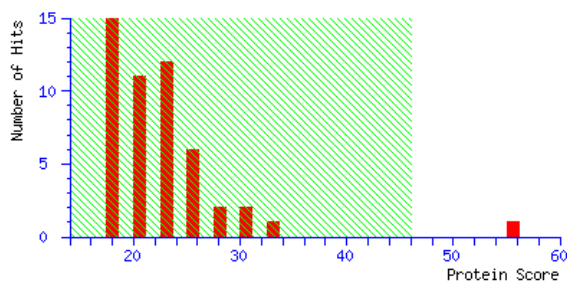
K.YGWTAFCGPVGAHGQPSCGK.C

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSKSAIDVPP KGGFSFDLCK RNEMLAKKGV NLPSSYRKTG TTIVGLIFQD
51 GVILGADTRA TEGPIVCDKN CEKIHYPAPN IYCCGAGTAA DTEAVTDMVS
101 SQLQLHRYHT GRESRVITAL TLLKKHLFNY QGYVQAALVL GGVDCTGPHL
151 HTIYPHGSTD TLPFATMGSG SLAAMAIFES KYREGLNRDE GIKLVTEAIC
201 SGVFNDLGSG SNVDVCVITK GHKEYLRNHL LPNPRTYINP KGYVFSKITE
251 VLLTKITPLK EPSKEKEGVS EGGEAMEE
```

Spot No.: **D62**

NCBI accession No.: **gi|114199044** Species: *Malus x domestica*

PFF score: **[195]**

Protein name: **caffeic acid O-methyltransferase**

Matched peptides No.: **[4]** Sequence coverage %: **[12]**

Matched sequences: **R.TLPDGKVER.L;**

R.TEKEFEALAK.G;

R.VLASYSILTYSLR.T;

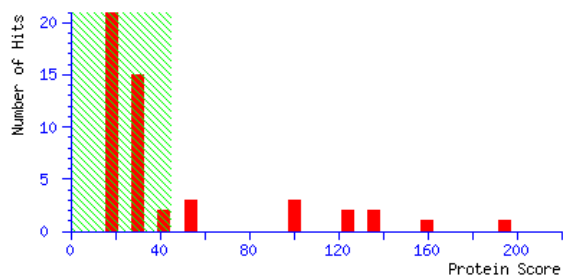
K.AYGMTAFEYHGTDPR.F + Oxidation (M)

Calculated Mr: **40047**

Calculated pI: **5.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGSTPETQMT  PTQVSDEEAN  LFAMQLASAS  VLPMLKAAI  ELDLLEIMAK
51  AGPGAFFVSPA  DLSSQLPTKN  PDAPVMLDRM  LRVLASYSIL  TYSRLTLPDG
101 KVERLYGLGP  VCKFLTKSVD  GASIGSLCLM  NQDKVLMESW  YNLKDAVLEG
151  GIPFNKAYGM  TAFEYHGTDP  RFNRVFNKGM  ADHSTITMKK  LLENYNGFEG
201  LTIIVDVGGG  TGAVLNMIVS  KYPSIKGINF  DLPHVIEDAP  QYPGVEHVGG
251  DMFVSVPKGD  AIFMKWICHD  WSDEHCLKFL  KNCYAALPDN  GKVIVAECIL
301  FVAPDSSLAT  KGVVHIDAIM  LAHNPPGKER  TEKEFEALAK  GSGFQGFRVV
351  CSAFNTYAIE  FLKKN
```

Spot No.: **D63**

NCBI accession No.: **gi|255538084** Species: *Ricinus communis*

PFF score: **[77]**

Protein name: **Adenine phosphoribosyltransferase, putative**

Matched peptides No.: **[1]** Sequence coverage %: **[7]**

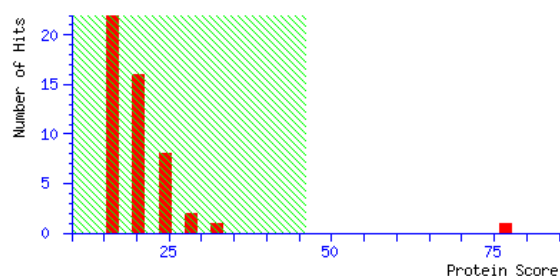
Matched sequences: **R.ALVIDDLIATGGTLCAAIR.L**

Calculated Mr: **27683**

Calculated pI: **8.33**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLKSIHLRAP  NSILPSRQLS  PPSPNKQLSA  RIVIAAPSTG  QQAPSISLRN
51  YPPARPSLRC  SAGGSDSQNQ  KMAAQDDKDN  RIERISSSIR  VIPDFPKPGI
101 LFQDITLLLL  DTKAFKDTID  LFVERYKERD  ISVVAGIEAR  GFIFGPPIAL
151 AIGAKFVPMR  KPNKLPGEVV  SEEYSLEYGT  DKMEMHVGAV  QAGERALVID
201 DLIATGGTLC AAIRLLERVG VEVVECACVI  ELPKLGRRER  LGQTPLFVLV
251  SSA
```

Spot No.: **D64**

NCBI accession No.: **gi|255546213** Species: *Ricinus communis*

PFF score: **[94]**

Protein name: **o-methyltransferase, putative**

Matched peptides No.: **[1]** Sequence coverage %: **[7]**

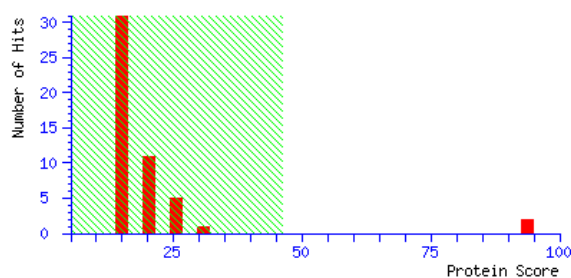
Matched sequences: **R.VQISHASLGDGITICR.R**

Calculated Mr: **25951**

Calculated pI: **5.55**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MQKGLLKSEE  LYQYVLETSV  FPREPEPLRE  LRNITANHPW  AKMATSPDAG
51  QFMAMLLQLV  NAKKTIEVGV  FTGYSLLLLTA  LSIPEDGKIV  AIDVDREAYE
101 IGLPIIRKAG  VEHKIDFMES  EALPVLDKLL  KEHGNESSFD  FAFVDADKIN
151 YWNYHERLLK  LVKVGIVIIY  DNSLWRGSVA  VPEEEAPEHL  RFCRQLTIEH
201 NKFLAADSRV  QISHASLGDG  ITICRRIC
```

Spot No.: **D65 (S3)**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

Protein name: Rubber elongation factor protein; Short=REF;

AltName: Allergen=Hev b 1

Mascot score: **95**

Sequence coverage %: **56**

Matched peptides No.: **8**

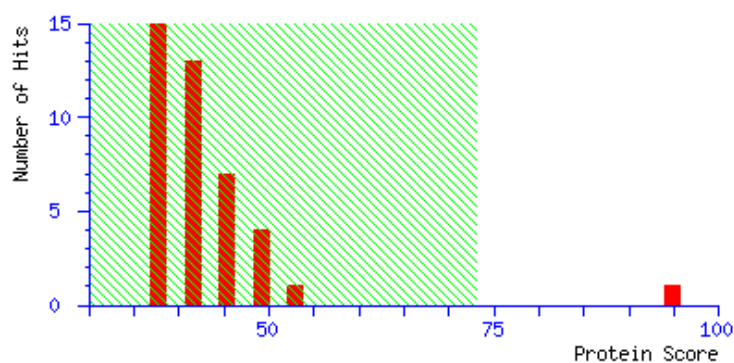
Total peptides No.: **42**

Calculated Mr: **14713**

Calculated pI: **5.04**

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 73 are significant ($p < 0.05$).



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

1 MAEDEDNQQG QGEGLKYLGF VQDAATYAVT TFSNVYLFAK **DKSGPLQPGV**
51 **DIIEGPVKNV** AVPLYNRFSY IPNGALKFVD **STVVASVTII** DRSLPPIVKD
101 **ASIQVVS AIR** APEAARSLA **SSLPGQTKIL** AKVFGYEN

Spot No.: **D66 (S5)**

NCBI accession No.: **gi|14423933** Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein; Short=SRPP; AltName: Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName: Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev b 3

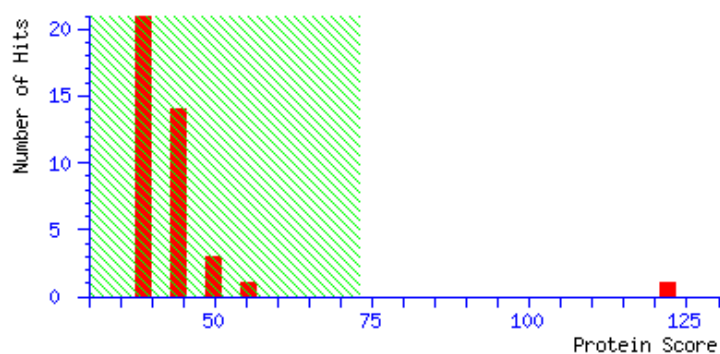
Mascot score: **122** Sequence coverage %: **85**

Matched peptides No.: **13** Total peptides No.: **55**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVK FV DKTVDVSVTS LDGVVPPVIK QVSAQTY SVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITK VFG
201 DEAS
```

Spot No.: **D67 (S6)**

NCBI accession No.: **gi|14423933** Species: *Hevea brasiliensis*

Protein name: Small rubber particle protein; Short=SRPP; AltName: Full=22 kDa rubber particle protein; Short=22 kDa RPP; AltName: Full=27 kDa natural rubber allergen; AltName: Full=Latex allergen Hev b 3

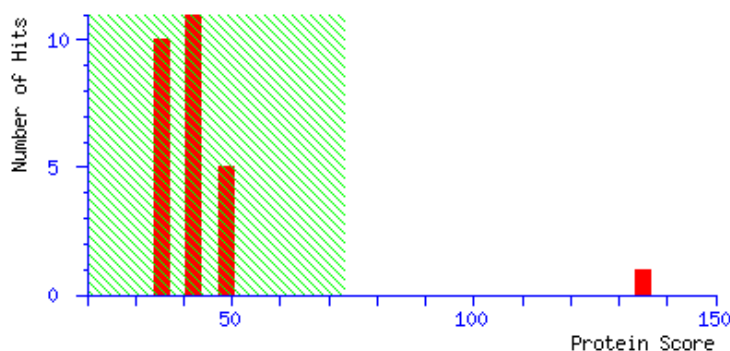
Mascot score: **135** Sequence coverage %: **75**

Matched peptides No.: **12** Total peptides No.: **31**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVK FV DKTVDVSVTS LDGVVPPVIK QVSAQTY SVA
101 QDAPRIVLDV ASSVFN TGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITK VFG
201 DEAS
```

Spot No.: **D68 (S9)**

NCBI accession No.: **gi|388503664** Species: *Lotus japonicus*

Protein name: **unknown**

Mascot score: **93**

Sequence coverage %: **45**

Matched peptides No.: **13**

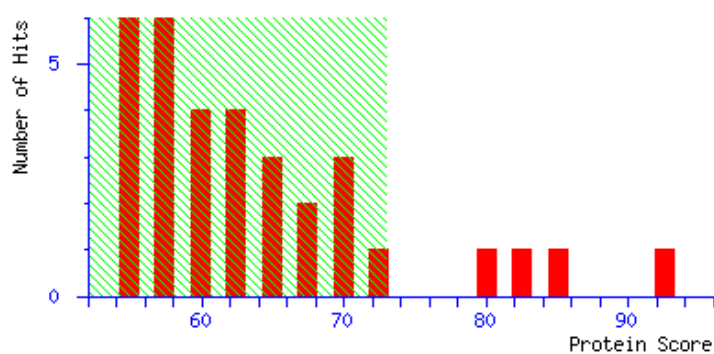
Total peptides No.: **48**

Calculated Mr: **29537**

Calculated pl: **4.79**

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 73 are significant ($p < 0.05$).



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

```
1  MASSKDRGTF VYVAKLAEQA ERYEEMVDSM KKVANLDVEL TVEERNLLSV
51 GYKNVIGARR ASWRILSSIE QKEETKGNDV NAKRIKEYRQ KVESELADIC
101 NDVMRVIDEH LIPSATAGES TVFYKMKGD YYRYLAEFKS GNEKKEAADQ
151 SMKAYESATT AAEALPPTH PIRLGLALNF SVFYYEILNS PERACHLAKQ
201 AFDEAISELD TLNEESYKDS TLIMQLLRDN LTLWTSDIPE EGEDSLKAND
251 TAKVGGGEDA E
```


Spot No.: Spot No.: **D69 (S13)**

NCBI accession No.: **gi|4235430** Species: *Hevea brasiliensis*

Protein name: **latex-abundant protein**

Mascot score: **96**

Sequence coverage %: **54**

Matched peptides No.: **15**

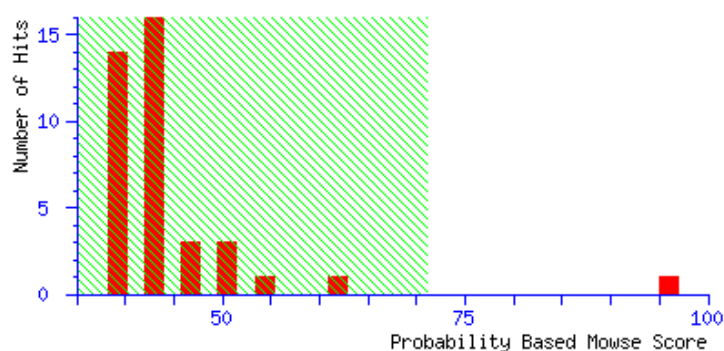
Total peptides No.: **37**

Calculated Mr: **46443**

Calculated pI: **5.01**

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 73 are significant ($p < 0.05$).



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

```
1  MAKKAVLIGI  NYPGTKAELK  GCINDVKRMY  RCLVDRYGFS  EEDITVVLIDI
51  DESYIQPTGK  NIRRVLTDLV  RSAEPGDLLF  VHYSGHGTRL  PAETGEDDDT
101 GFDECIVPCD  MNLITDDDFR  EFVDQVPHGC  RITVVSDSCH  SGGLIDEAKE
151 QIGESTKRKE  EESESGFGFK  SFLKQTIQDA  FESRGVHLPS  DLHHHHGHRD
201 EEDFDNRVVE  EDYGDSGYVK  SKSLPLSTLI  EILKQKTGKD  DIDVGKLRPT
251 LFDMPGDDAS  PKVKKFMKVI  LNKLRHGDGE  SGGGGFLGMV  GSLAQEFLKH
301 KLDENDESIV  KPALETEVDS  KQEVYAGKTK  RSLPDGGILI  SGCQTDQ TSA
351 DASPSGKSSE  AYGALSNAIQ  TIIAETDGAV  TNQELVLKAR  KMLKKQGFTQ
401 KPGLYCSDDH  VEASFVC
```

Spot No.: **D70 (S20)**

NCBI accession No.: [gi|30575570](#) Species: *Citrus x paradisi*

PFF score: **[86]** Protein name: HSP19 class II, partial

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

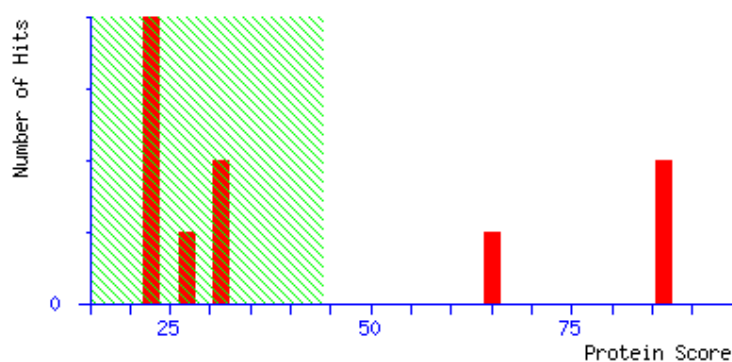
Matched sequences: [K.VQVEDDNVLLISGER.K;](#)

Calculated Mr: **11191**

Calculated pI: **8.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 YVFIVDMPGL KSGDIKVQVE DDNVLLISGE RKREEEKDGA KYVRMERRVG  
51 KFMRKFLVPE NANVEAISAV CQDGVLTITV DKLPPPEPKK PKTIEVKIA
```

Spot No.: **D71 (S22)**

NCBI accession No.: [gi|37806305](#)

Species: *Oryza sativa Japonica Group*

PFF score: **[60]** Protein name: [hypothetical protein](#)

Matched peptides No.: **[2]** Sequence coverage %: **[3]**

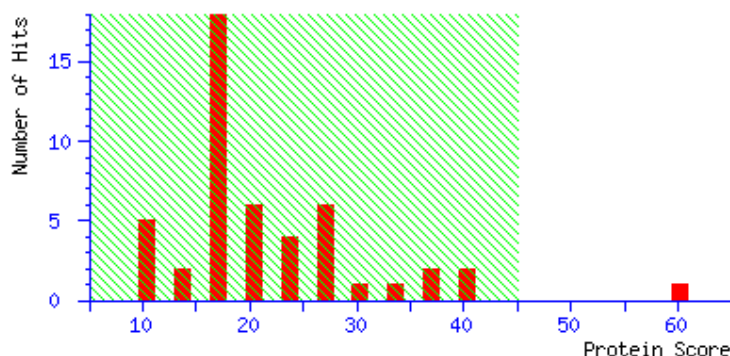
Matched sequences: [K.LGTLVLGDRPRL](#) ; [K.LGTLVLGDRPRL](#)

Calculated Mr: **35105**

Calculated pI: **8.29**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MEVFQGVQFA RLRNWEETY VTADEDGRSV YHYAPDRHRP AHEAIWAVQM
51 VLAGAPPTQY VLLRGAYGRY LGAPDAVRR WPLSCCWPAP VVGQRDFDQP
101 EVDAIMWRAV RRADHVLCLH DKSGRYLRGK LGTLVLGDRP RLTVGDGRLN
151 DDEKALRWEV LPVLPNPGRP ELPISIVPEA DLVGRLVKAC FLPLQREIQF
201 VEADDDGNIG EGQEVWDSFQ YEGRSVQLLR NELEDRVGYA ITVCVRAGRH
251 GQHSPLLINL PHSRETLHIV VLRRNSEADN QLTFFDPKAS SRRRYRHRRR
301 AIIQ
```

Spot No.: **D72 (S26)**

NCBI accession No.: [gi|3451147](#) Species: *Hevea brasiliensis*

PFF score: **[56]** Protein name: **chitinase**

Matched peptides No.: **[1]** Sequence coverage %: **[4]**

Matched sequences: [K.VYLTAAPQCPFPDR.Y](#)

Calculated Mr: **34138**

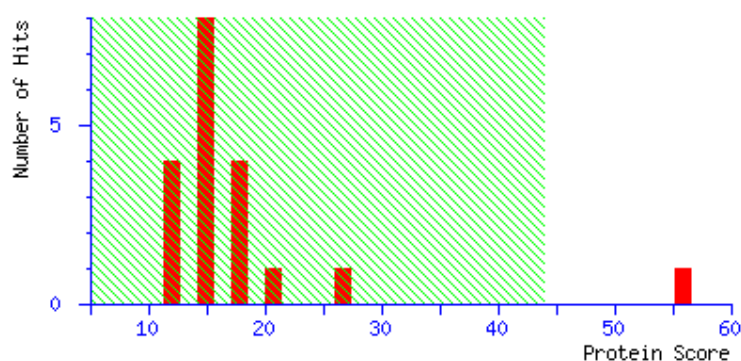
Calculated pI: **8.72**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAKRTQAILL  LLLAISLIMS  SSHVDGGGIA  IYWGQNGNEG  TLTQTCSTRK
51  YSYVNIAFLN  KFGNGQTPQI  NLAGHCNPAA  GGCTIVSNGI  RSCQIQGIKV
101 MLSLGGGIGS  YTLASQADAK  NVADYLWNNF  LGGKSSSRPL  GDAVLGDIDF
151 DIEHGSTLYW  DDLARYLSAY  SKQGKKVYLT  AAPQCPFPDR  YLGTALNTGL
201 FDYVWVQFYN  NPPCQYSSGN  INNIINSWNR  WTTSINAGKI  FLGLPAAPEA
251 AGSGYVPPDV  LISRILPEIK  KSPKYGGVML  WSKFYDDKNG  YSSSIRDSVL
301 FLHSEKMTV  L
```

Spot No.: **D73 (S30)**

NCBI accession No.: **gi|255540341** Species: *Ricinus communis*

Protein name: **glyceraldehyde 3-phosphate dehydrogenase, putative**

Mascot score: **86**

Sequence coverage %:**42**

Matched peptides No.: **14**

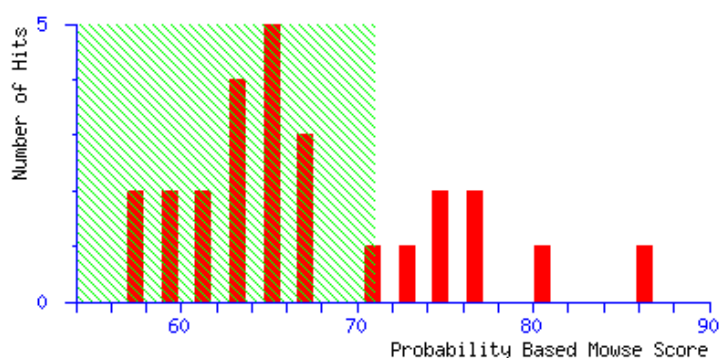
Total peptides No.: **57**

Calculated Mr: **36930**

Calculated pI: **7.10**

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 73 are significant ($p < 0.05$).



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

1 **MAKIKIGING** **FGRIGRLVAR** **VALQRDDVEL** VAVNDPFIST EYMTYMFKYD
51 **TVHGQWKHHE** LKIKDDKILL FGEKPVTVFG VRNPEEIPWA **ETGAEYIVES**
101 **TGVFTDKDKA** AAHLKGGAKK VIISAPSKDA **PMFVVGVNEK** EYTPDLHIIS
151 NASCTTNCLA PLAKVINDRF GIVEGLMTTV HSITATQKTV **DGPSMKDWRG**
201 **GRAASFNIIP** **SSTGAAKAVG** **KVLPSLNGKL** **TGMSFRVPTV** **DVSVDLTVR**
251 LEKSATYEQI **KAAIKEESEG** **KLKGILGYTE** DDVVSTDFIG DKRSSIFDAK
301 **AGIALNDKFFV** **KLVSWYDNEW** **GYSTRVVDLI** VHVASVH

Spot No.: **D74 (S35)**

NCBI accession No.: **gi|3288200** Species: *Hevea brasiliensis*

PFF score: [81]

Protein name: **latex allergen**

Matched peptides No.: [2] Sequence coverage %: [4]

Matched sequences: **R.DTYDPIHSIGPIYDGEYLR.E;**

R.DTYDPIHSIGPIYDGEYLR.E

Calculated Mr: **43020**

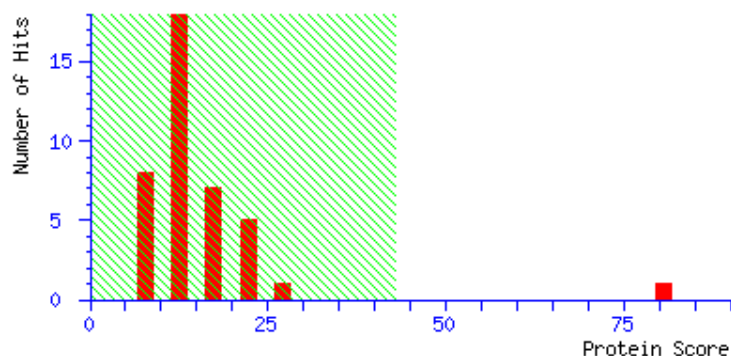
Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MATGSTITLQ GKKITVLSID GGGIRGIIPG IILASLESKL QDLGPDARI
51 ADYFDIIAGT STGGLITTML TAPNEDKKPI YQAKDIKDFY LENCPIKIFK
101 ESRDTYDPIH SIGPIYDGEY LRELCNLLK DLTVKDTLTD VIIPAFDIKL
151 LLPVIFSSDD AKCNALKNAR LADVCISTSA APVLLPAHSF TTEDDKNIHT
201 FELIDGGVAA ANPTLLALH IRNEIIRQNP RFIGANLTES KSRLVLSLGT
251 GKSEYKEKYN ADMTSKWRLY NWALYNGNSP AVDIFSNASS DMVDFHLSAL
301 FKSLDCEDYY LRIQDDITLG EESSGHIATE ENLQRLVEIG TELLEKQESR
351 INLDTGRLES IPGAPTNEAA IAKFAKLLSE ERKLRQLK
```

Spot No.: **D75 (S36)**

NCBI accession No.: **gi|1916805** Species: *Hevea brasiliensis*

PFF score: [138]

Protein name: **latex patatin homolog**

Matched peptides No.: [2] Sequence coverage %: [8]

Matched sequences: **K.SLDCEDYYLR.I;**

R.IQDDTLTGEESSGHIAATEENLQR.L

Calculated Mr: **43035**

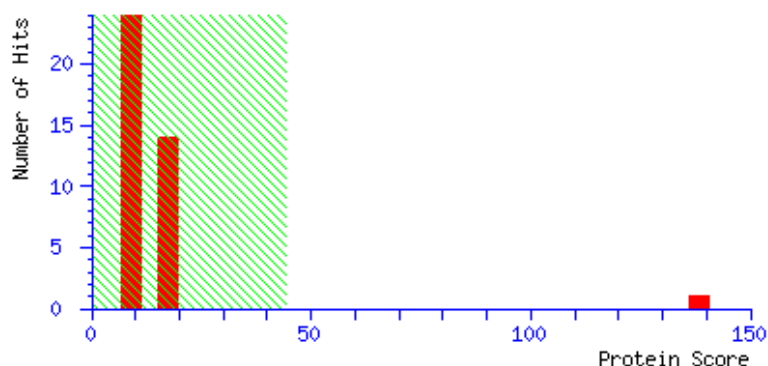
Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MATGSTTLTQ GKKITVLSID GGGIRGIIPG IILASLESKL QDLDGPDARI
51 ADYFDIIAGT STGGLITTML TAPNEDKKPM YQAKDIKDFY LENCPIKIFPK
101 ESRDNYDPIH SIGPIYDGEY LRELCNNLLK DLTVKDTSTD VIIPTFDIKL
151 LLPVIFPSDD AKCNALKNAR LADVCIESTA APVLLPAHSF TTEDDKNIHT
201 FELIDGGVAA TNPTLLALTH IRNEIIRQNP RFIGANLTES KSRLVLSLGT
251 GKSEYKEKYN ADMTSKWRLY NWALYNGNSP AVDIFSNASS DMVDSHLSAL
301 FKSLDCEDYY LRIQDDTLTG EESSGHIAE ENLQRLVEIG TELLEKQESR
351 INLDTGRLES IPGAPTNEAA IAKFAKLLSE ERKLRQLK
```


Spot No.: **D76 (S37)**

NCBI accession No.: **gi|41581137** Species: *Hevea brasiliensis*

Protein name: **putative latex allergen hev b 7.02**

PMF score: **152**

Sequence coverage %: **44**

Matched peptides No.: **16**

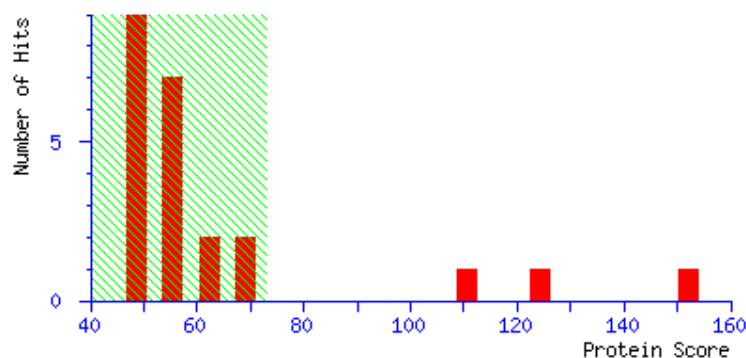
Total peptides No.: **39**

Calculated Mr: **43027**

Calculated pI: **5.12**

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 73 are significant ($p < 0.05$).



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

```
1  ATGSTTLTQG  KKITVLSIDG  GGIRGIIPGI  ILASLESKLQ  DLDGPDARIA
51  DYFDIIAGTS  TGGLITTMLT  APNEDKKPMY  QAKDIKDFYL  ENCPKIFPKE
101 SRDNYDPIHS  IGPIYDGEYL  RELCNLLKD  LTVKDTLTDV  IIPTFDIKLL
151 LPVIFSSDDA  KCNALKNARL  ADVCISTSAA  PVLLPAHSFT  TEDDKNIHTF
201 ELIDGGVAAT  NPTLLALTHI  RNEIIRQNPR  FIGANLTESK  SRLVLSLGTG
251 KSEYKEKYNA  DMTSKWRLYN  WALYNGNSPA  VDIFSNASSD  MVDFHLSALF
301 KSLDCEDYYL  RIQDDTLTGE  ESSGHIATEE  NLQRLVEIGT  RLEKQESRI
351 NLDTGRLESI  PGASTNEAAI  TKFAKLLSEE  RKLRQLK
```


Spot No.: **D77 (S38)**

NCBI accession No.: **gi|41581137** Species: *Hevea brasiliensis*

Protein name: **putative latex allergen hev b 7.02**

PMF score: **142**

Sequence coverage %: **42**

Matched peptides No.: **15**

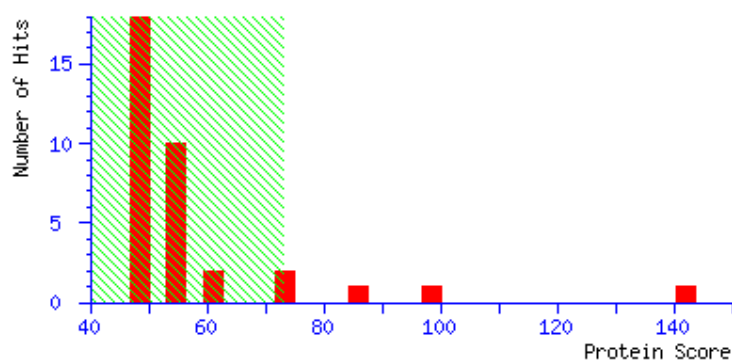
Total peptides No.: **51**

Calculated Mr: **43027**

Calculated *pI*: **5.12**

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 73 are significant ($p < 0.05$).



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

```
1  ATGSTTLTQG  KKITVLSIDG  GGIRGIIPGI  ILASLESKLQ  DLDGPDARIA
51  DYFDIIAGTS  TGGLITTMLT  APNEDKKPMY  QAKDIKDFYL  ENCPKIFPKE
101  SRDNYDPIHS  IGPIYDGEYL  RELCNNLLKD  LTVKDTLTDV  IIPTFDIKLL
151  LPVIFSSDDA  KCNALKNARL  ADVCISTSAA  PVLLPAHSFT  TEDDKNIHTF
201  ELIDGGVAAT  NPTLLALTHI  RNEIIRQNPR  FIGANLTESK  SRLVLSLGTG
251  KSEYKEKYNA  DMTSKWRLYN  WALYNGNSPA  VDIFSNASSD  MVDFHLSALF
301  KSLDCEDYYL  RIQDDTLTGE  ESSGHIATEE  NLQRLVEIGT  RLLEKQESRI
351  NLDTGRLESI  PGASTNEAAI  TKFAKLLSEE  RKLRQLK
```

Spot No.: **D78 (S46)**

NCBI accession No.: [gi|4469175](#) Species: *Hevea brasiliensis*

Protein name: [beta-1,3-glucanase](#)

PMF score: **126**

Sequence coverage %: **55**

Matched peptides No.: **19**

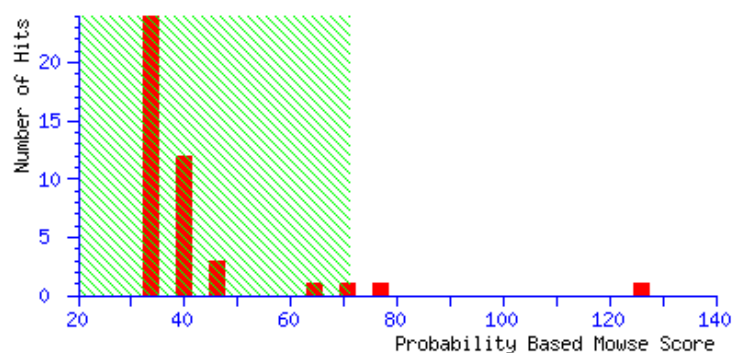
Total peptides No.: **37**

Calculated Mr: **38930**

Calculated pI: **9.45**

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 73 are significant ($p < 0.05$).



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

```
1  MAISSSTSGT  SSSLPSRTTV  MLLFFFAAS  VGITDAQVGV  CYGMQGNNLP
51  PVSEVIALYK  KSNITRMRIY  DPNRAVLEAL  RGSNIELILG  VPNSDLQSLT
101 NPSNAKSWVQ  KNVRGFWSSV  LFRYIAVGNE  ISPVNRGTAW  LAQFVLPAMR
151 NIHDAIRSAG  LQDQIKVSTA  IDLTLVGNSY  PPSAGAFRDD  VRSYLNPIIR
201 FLSSIRSPLL  ANIYPYFTYA  GNPRDISLPY  ALFTSPSVVV  WDGQRGYKNL
251 FDATELDVLYS  ALERASGGSL  EVVSESGWP  SAGAFATFD  NGRTYLSNLI
301 QHVKRGTPKR  PNRAIETYLE  AMFDENKKQP  EVEKQFGLFF  PDKWQKYNLN
351  FG
```

Spot No.: **D79 (S54)**

NCBI accession No.: **gi|34538473** Species: *Hordeum vulgare*

Protein name: **caleosin 1**

PMF score: **84**

Sequence coverage %: **19**

Matched peptides No.: **10**

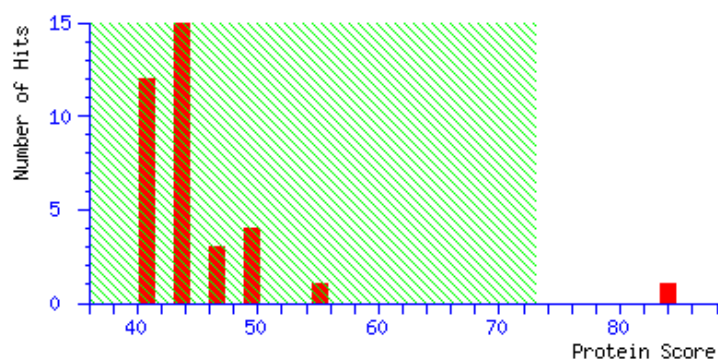
Total peptides No.: **37**

Calculated Mr: **34330**

Calculated pI: **6.11**

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 73 are significant ($p < 0.05$).



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

```
1  MATKARKVEV RDASRAEGKG DAADVHVLRE AMRADGKGDH DTAGGANRAD
51  GHGDAGGRVG DSRGVDGKDS LKMVALQAPV TVERPVRGDL EEHVPKPYLA
101 RALAAPDMYH PEGTTTDDHQ HHNMSVLQQH VAFFDRDNGG IIYPWETYDG
151 CRAVGFNVMF SAFIAFLVNL VMSYPTLPGW LPNPLFPIYV HNIHKSKHGS
201 DSGTYDKEGR FMPVNFENIF SKYARTYPDR LSYREEMWRMT EGCREVDFDF
251 GWVAMKLEWS ILYALARDEE GYLSREAIRR MYDGSLFEYM ERQRMEHVKM
301 S
```

Spot No.: **D80 (S61)**

NCBI accession No.: **gi|255560725** Species: *Ricinus communis*

Protein name: **dead box ATP-dependent RNA helicase, putative**

Mascot score: **144**

Sequence coverage %: **68**

Matched peptides No.: **25**

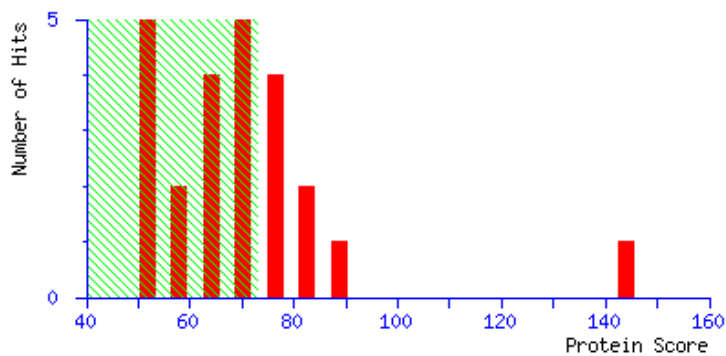
Total peptides No.: **91**

Calculated Mr: **47097**

Calculated pI: **5.49**

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 73 are significant ($p < 0.05$).



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

```
1  MAGLAPEGSQ FDAKQYDARM SELLSTEGQE FFTTYDEVYD SFDAMGLQEN
51 LLRGIYAYGF EKPSAIQQRG IVPFCKGLDV IQQAQSGTGK TATFCSGILQ
101 QLDYGLVQCQ ALVLAPTREL AQQIEKVMRA LGDYLGVKVH ACVGGTSVRE
151 DQRILQAGVH VVVGTPGRVF DMLRRQSLRP DYIKMFVLDE ADEMLSRGFK
201 DQIYDIFQLL PAKVQGVVFS ATMPPEALEI TRKFMNKPVR ILVCRDELTL
251 EGIKQFYVNV EKEEWKLETL CDLYETLAIT QSVIFVNTRR KVDWLTDKMR
301 SRDHTVSATH GDMDQNTRDI IMREFRSGSS RVLITTDLLA RGIDVQQVSL
351 VINYDLPTQP ENYLHRIGRG GRFGRKGVAI NFVTRDDERM LFDIQKFYNV
401 VIEELPSNVA DLL
```

Spot No.: **D81 (S63)**

NCBI accession No.: **gi|255578278** Species: *Ricinus communis*

PFF score: **[76]**

Protein name: **hypothetical protein RCOM_0537780**

Matched peptides No.: **[3]** Sequence coverage %: **[6]**

Matched sequences: **K.QESEYGSGGYGR.R;**
R.KPSYGEEGGYGER.T ;
R.KPSYGEEGGYGER.T

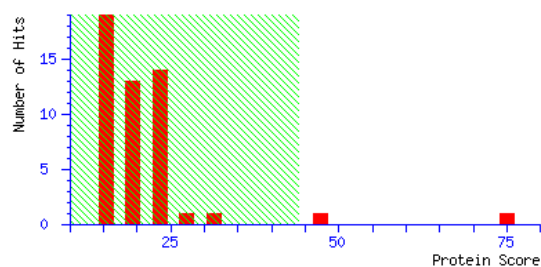
Calculated Mr: **41389**

Calculated pI: **4.65**

Probability Based Mowse Score:

Mascot Score Histogram

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRSEDD  VDNDFDFDPT  PYGGGYDLAL  TYGRPLPPSD  ETCYQNSAIA
51  DDDVDYDRPN  FTSYAEPSAY  NDDILQEEYN  SYSRPKPRPG  FIPGGGIGGD
101  PYSRPHAAPG  FQPGSGGYGG  VSEYEKPSGY  GRRPDSEYGS  GGYGGGTEYE
151  RPSGEDYGS  HGRKQDSEYG  SGGYGRRPES  EYGSGGGYER  PSSEEYGSY
201  GRKQESEYGS  GGYGRRPEAE  YGSGYGRPE  TEYGGGGGSE  YGGGYGRKPS
251  YGEEGGYGER  TEYERPSYGD  DPPRRPGYGR  QDDEYERPSY  ERKSDDDNDG
301  SRRKYGGDDD  EKGYQKKYGG  YGDDDDEEGS  RRYGYGGEE  ESYGRKKYGD
351  DGSDDDEKKH  HRHKHHQHKH  SDDE
```

Spot No.: **D82 (S69)**

NCBI accession No.: **gi|2501850** Species: *Nicotiana tabacum*

Protein name: **GDP dissociation inhibitor**

PMF score: **83**

Sequence coverage %: **34**

Matched peptides No.: **16**

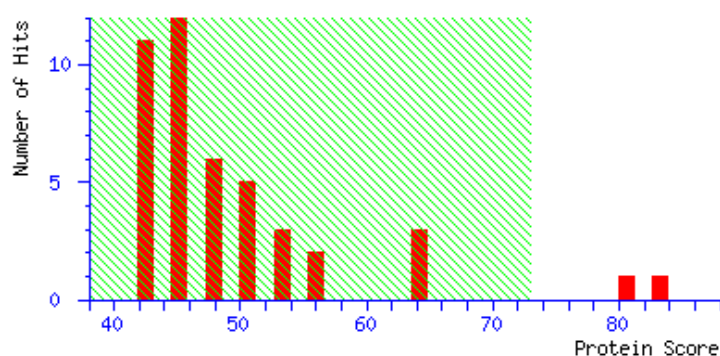
Total peptides No.: **62**

Calculated Mr: **50127**

Calculated pI: **5.44**

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 73 are significant ($p < 0.05$).



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

```
1  MDEEYDVIVL  GTGLKECILS  GLLSVDGLKV  LHMDRNDYYG  GESTSLNLVQ
51 LWKRFRGSDK  PPAELGSSRD  FNVDMIPKFI  MANGALVRVL  IHTDVTKYLY
101 FKAVDGSFVY  NKGKVHKVPA  TDMEALKSPL  MGIFEKRRAR  KFFIYVQDYN
151 ESDPKTHEGM  DLTRVTREL  IAKYGLDDNT  VDFIGHALAL  HRDDRYLDEP
201 AQDTVKRMKL  YAESLARFQG  GSPYIYPLYG  LGELPQAFAR  LSAVYGGTYM
251 LNKPECKVEF  DEEGKVCGVT  SEGETAKCKK  VVCDPSYLPN  KVRKVGKVAR
301 AIAIMSHPIP  NTNDSHSVQI  ILPQQLGRK  SDMYLFCCSY  THNVAPKGKF
351 IAFVSTEAE  DNPESLQKQ  VNLLGPVDEI  FYETYDRSEP  VNEPSLDNCF
401 ISTSYDATTH  FESTVDDVLN  LYTKITGKVL  DLNVDLSAAS  AAEE
```

Spot No.: **D83 (S75)**

NCBI accession No.: **gi|3264769** Species: *Prunus armeniaca*

PFF score: **[74]** Protein name: **late embryogenesis-like protein**

Matched peptides No.: **[1]** Sequence coverage %: **[8]**

Matched sequences: **K.LVSGGLIPDAGTIHAHGEETVK.V**

Calculated Mr: **28937**

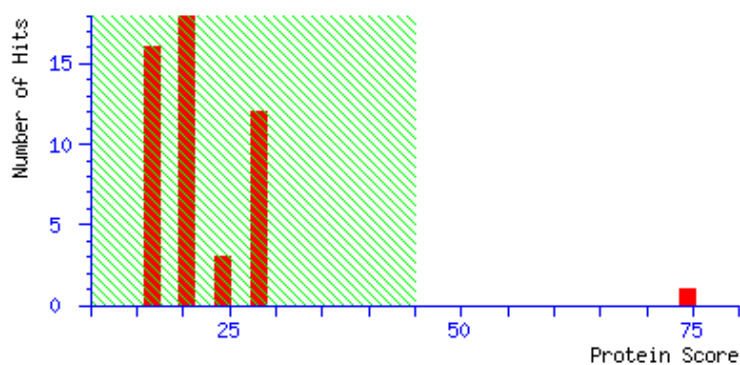
Calculated pI: **4.72**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  DVTAIHIPSI  NLEKAEIVVD  VLIKPNPVP  IPLIDINYLI  ESDGRKLVSG
51  LIPDAGTIHA  HGEETVKVPV  HLVDYDDIKNT  YDDIKPGSII  PYRFKVDLIV
101 DVPVVLGRLTL  PLEKTGEIPI  PYKPDVDVEK  IKFQAQSFEE  TVAVLHVKLE
151 NMNDFDLGLN  ALDYEIWLSE  VNIGGAQLSQ  SANLAKKGVT  FIELPITFRP
201 KDFGSALWDM  IRGKGTGYTI  KGNINVDTPF  GAMKLPIVKE  GGTTLRKKNK
251 EDGGDDDDDED  ED
```


Spot No.: **D84 (S85)**

NCBI accession No.: **gi|224099853** Species: *Populus trichocarpa*

PFF score: **[69]** Protein name: **putative protein**

Matched peptides No.: **[2]** Sequence coverage %: **[5]**

Matched sequences: **S FEHPLNELKP VPR**

Calculated Mr: **27448**

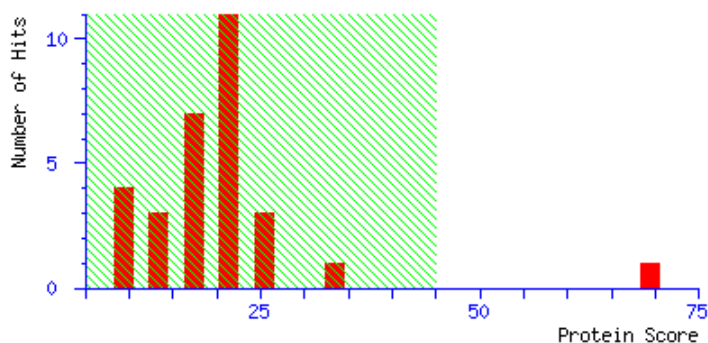
Calculated pI: **5.84**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLAVFDNTVA KCPDALQSPH SAPASSALKD GFLANHFASQ HPGSVTVNLG
51 TSGLISHSVE KQNPFLPRLF AVVDDIFCLF QGHIDNVAVL KQQYGLNKTA
101 NEVIVVIEAY RTLRDRGPYP ADQVVKDIQG KFAFILDST SKATFFAADA
151 DGSVPFFWGA DSEGNLVLSD DVQIVQKCG KSFAPFKGC FFTTSGGLRS
201 FEHPLNELKP VPRVDSSGQV CGATFKVDAE TKKESVGMPR VDSSYNWSSN
251 Y
```


Spot No.: **D85 (S86)**

NCBI accession No.: **gi|38122474** Species: *Hevea brasiliensis*

PFF score: **[410]** Protein name: rubber elongation factor

Matched peptides No.: **[4]** Sequence coverage %: **[26]**

Matched sequences: **YLDFVQAATVYAR** ;

SGPFKPGVNTVESR;

SVVRPVYNK ;

RVDAYVTVLDR

Calculated Mr: **19570**

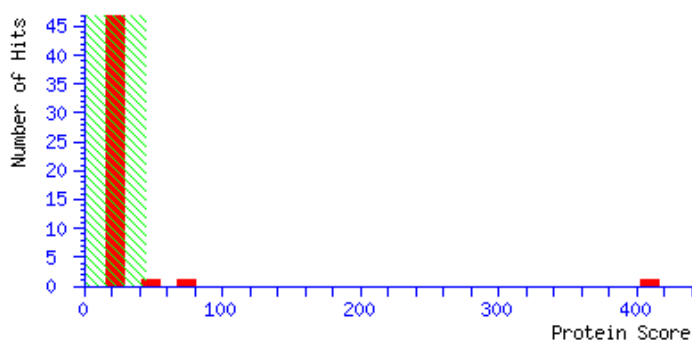
Calculated pI: **5.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGEEVNI QEEANKGEEN PQEEANIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFSV
101 VRPVYKFKQP VPNKVLKPAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: **D86 (S87)**

NCBI accession No.: **gi|38122474** Species: *Hevea brasiliensis*

PFF score: **[226]** Protein name: rubber elongation factor

Matched peptides No.: **[4]** Sequence coverage %: **[26]**

Matched sequences: **YLDFVQAATVYAR** ;

SGPFKPGVNTVESR;

SVVRPVYNK ;

RVDAYVTVLDR

Calculated Mr: **19570**

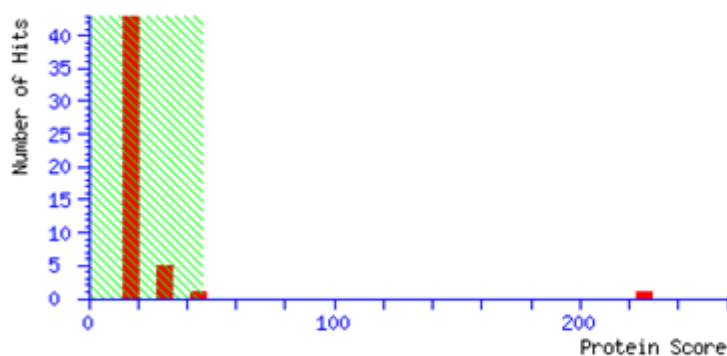
Calculated pI: **5.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGEEEVNI QEEANKGEEN PQEENIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: **D87 (S90)**

NCBI accession No.: [gi|334854634](#) Species: *Hevea brasiliensis*

PFF score: [490] Protein name: **elicitor-responsive protein**

Matched peptides No.: [3] Sequence coverage %: [59]

Matched sequences: **PLGTVEVLLVGAKGLENDFLNGVDPYVVLACR**;

GSEP EWNEKFSFEVSDGDTELTLK;

GEITVGLTFTPEVEMDNVVDGYDFRL

Calculated Mr: **15249**

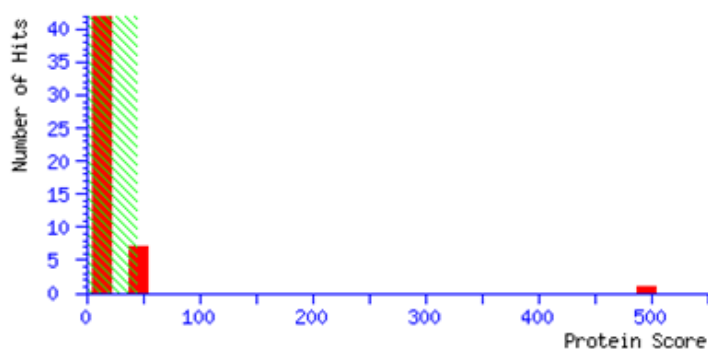
Calculated pI: **4.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 **MPLGTVEVLL VGAKGLENTD FLNGVDPYVV LACRTQEQKS SVASGKGSEP**
51 **EWNEKFSFEV SDGDTELTLK IMDSVGAAD DFGVGEATIPL EPLFLEGNLP**
101 **STAYKVVKEQ EYKGEITVGL TFTPEVEMDN VVDGYDFRL**

Spot No.: **D88 (S92)**

NCBI accession No.: [gi|224144943](#) Species: *Populus trichocarpa*

PFF score: **[180]** Protein name: **predicted protein**

Matched peptides No.: **[2]** Sequence coverage %: **[28]**

Matched sequences: [VFEDNVLIRVLVVDGGGSLR](#);

[HVPITIG GTRISDGEWLYADTDGILISR](#)

Calculated Mr: **17971**

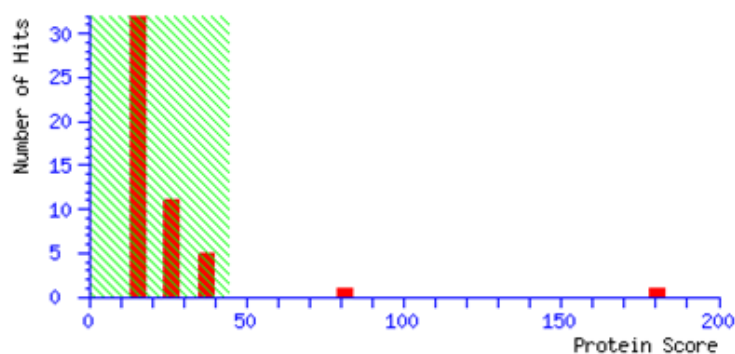
Calculated *pI*: **5.39**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALVTIAEVC DANPQLIVSG ELRALQPIFQ IYGRRQVFSG PVVILKVFED
51 NVLIREFLEE KGNGRVLVD GGGSLRCAIL GGNPVVQAQN NGWAGIVVNG
101 CIRDVDEIMG CDIGVRALAS HPMKANKKGI GEKHVPITIG GTRISDGEWL
151 YADTDGILIS RTELAV
```

Spot No.: **D89 (S94)**

NCBI accession No.: [gi|123062](#)

Species: *Hevea brasiliensis*

PFF score: **[96]**

Protein name: [prohevein](#)

Matched peptides No.: **[1]** Sequence coverage %: **[8]**

Matched sequences: [IVDQ CSNGGLLDV NVFR](#)

Calculated Mr: **22700**

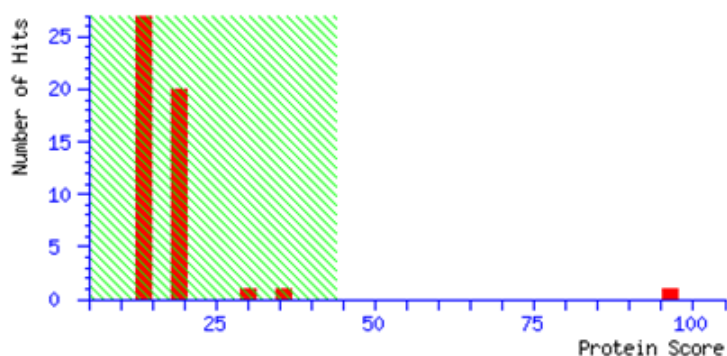
Calculated pI: **5.63**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MNIFIVLLC  LTGVAIAEQC  GRQAGGKLCF >NNLCCSQWGW  CGSTDEYCSP
51  DHNCQSNCKD  SGEQVGGGSA  SNVLATYHLY  NSQDHGWDLN  AASAYCSTWD
101 ANKPYSWRSK  YGWIAFCGPV  GAHQSSCGK  CLSVTNTGTG  AKTTVRIVDQ
151 CSNGGLLDV  NVFRQLDTDG  KGYERGHITV  NYQFVDCGDS  FNPLFSVMKS
201  SVIN
```

Spot No.: **D90 (S98)**

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

Protein name: [rubber elongation factor](#)

PMF score: **99**

Sequence coverage %: **45**

Matched peptides No.: **8**

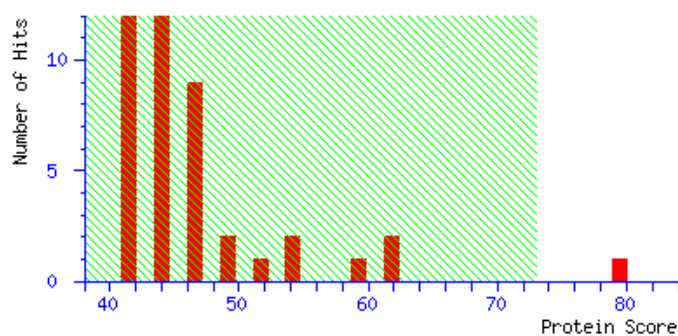
Total peptides No.: **39**

Calculated Mr: **19570**

Calculated pI: **5.06**

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 73 are significant ($p < 0.05$).



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

```
1 MAEGEEEVNI QEEANKGEEN PQEENIQEE TNKGEENIQE EANIEEEANK
51 EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV
101 VRPVYNKFQP VPNKVLKFAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG
```

Spot No.: **D91 (S100)**

NCBI accession No.: **gi|1709761** Species: *Spinacia oleracea*

PFF score: **[49]**

Protein name: **Proteasome subunit alpha type-4**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

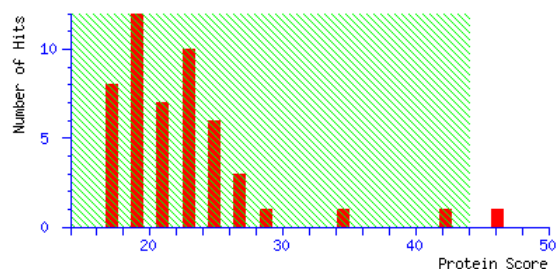
Matched sequences: **R.TTIFSPEGR.L**

Calculated Mr: **27545**

Calculated pI: **6.17**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSRRYDSRTT IFSPEGRLYQ VEYAMEAIGN AGSAIGILAK DGVVLIGEKK
51 VTSKLLQTST STEKMYKIDD HVACAVAGIM SDANILINTA RVQAQRYTFS
101 YQEPMPVEQL VQSLCDTKQG YTQFGGLRPF GVSFLFAGWD KNYGFQLYMS
151 DSPGNYGGWK ATAIGANNQA AQSMLKQDYK DDVTREDAVK LALKALSKTM
201 DSTSLTSEKL ELAEVYLLPS GKVYQVHSP ESLNRLTES GLTQPAETS
```

Spot No.: **D92 (S103)**

NCBI accession No.: [gi|38122474](#) Species: *Hevea Brasiliensis*

Protein name: rubber elongation factor

PMF score: **125**

Sequence coverage %: **68**

Matched peptides No.: **11**

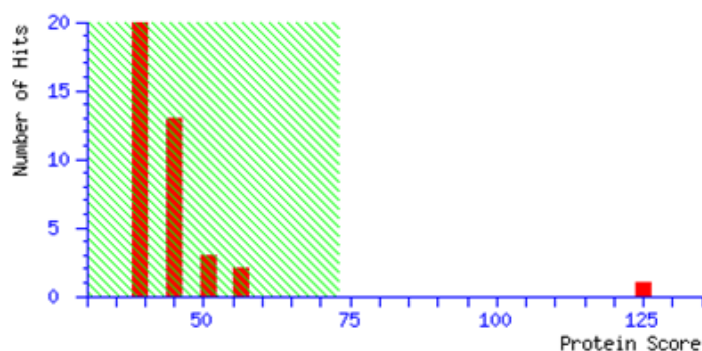
Total peptides No.: **50**

Calculated Mr: **19570**

Calculated pI: **5.06**

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 73 are significant ($p < 0.05$).



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

1 **MAEGEEEVNI QEEANKGEEN PQEEANIQEE TNKGEENIQE EANIEEEANK**
51 **EEESLKYLDF VQAATVYARA SFSKLYLFAK DKSGPFKPGV NTVESRFKSV**
101 **VRPVYNKFQP VPNKVLKPAD RRVDAYVTVL DRIVPPIVKR ASIQAYSVAP**
151 GAALAVASYL PLHTKRLSKV LYGDG

Spot No.: **D93 (S105)**

NCBI accession No.: [gij157831407](#) Species: *Hevea brasiliensis*

Protein name: [Chain A, Crystal Structures Of Hevamine](#)

PMF score: **93**

Sequence coverage %:**51**

Matched peptides No.: **13**

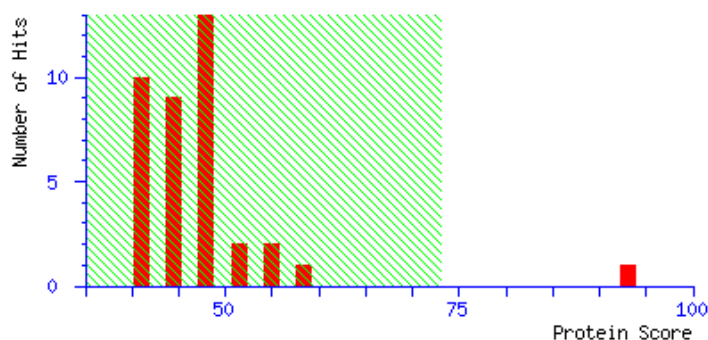
Total peptides No.: **76**

Calculated Mr: **29874**

Calculated pI: **8.44**

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 73 are significant ($p < 0.05$).



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

```
1  GGIAIYWGQN  GNEGTLTQTC  STRKYSYVNI  AFLNKFGNGQ  TPQINLAGHC
51  NPAAGGCTIV  SNGIRSCQIQ  GIKVMSLGG  GIGSYTLASQ  ADARNVADYL
101 WNNFLGGKSS  SRPLGDAVLD  GIDFDIEHGS  TLYWDDLARY  LSAYSKQGKK
151 VYLTAAPQCP  FPDRYLGTAL  NTGLFDYVWV  QFYNNPPCQY  SSGNINNIIN
201  SWNRWTT SIN  AGKIFLGLPA  APEAAGSGYV  PPDVLSRIL  PEIKKSPKYG
251 GVMLWSKFYD  DKNGYSSSIL  DSV
```

Spot No.: **D94 (S108)**

NCBI accession No.: **gi|2493895** Species: *Citrullus lanatus*

PFF score: **[89]**

Protein name: **cysteine synthase**

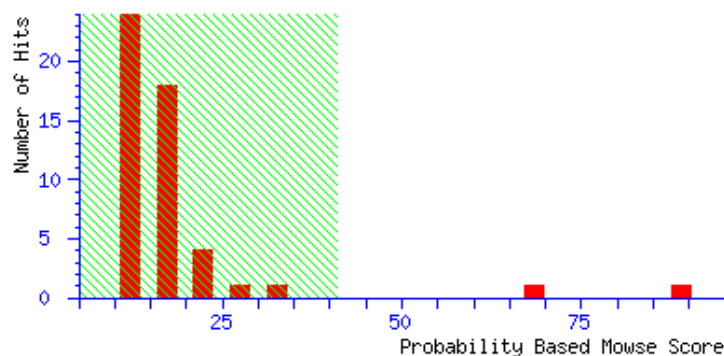
Matched peptides No.: **[1]** Sequence coverage %: **[]**

Matched sequences: **K.EGLLVGISSGAAAAAIR.I**

Calculated Mr: **34495** Calculated pI: **6.26**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 41 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MADAKSTIAK DVTELIGHTP LVYLNRVVDG CVARVAAKLE MMEPCSSVKD RIGYSMISDA
61 ENKGLITPGE SVLIEPTSGN TGIGLAFIAA AKGYRLIICM PASMSLEERT ILRAFGAELV
121 LTDPARGMKG AVQKAEEIKA KTPNSYILQQ FENPANPKIH YETTGPPIWR GSGGKIDALV
181 SGIGTGGTVT GAGKYLKEQN PNIKLYGVEP VESAILSGGK PGPHKIQQIG AGFIPGVLDV
241 NLLDEVIQVS SEESIETAKL LALKEGLLVG ISSGAAAAAA IRIAKRPENA GKLIVAVFPS
301 FGERYLSTVL FESVKRETEK MVFEP
```

Spot No.: **D95 (S117)**

NCBI accession No.: **gi|51315784** Species: *Hevea brasiliensis*

PFF score: **[59]**

Protein name: **Esterase**

Matched peptides No.: **[1]**

Sequence coverage %: **[4]**

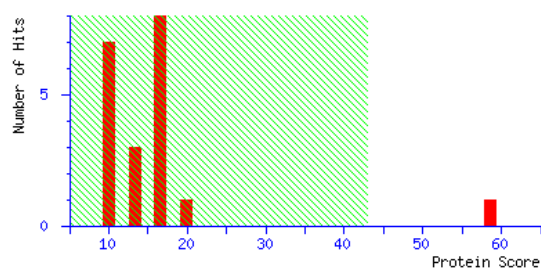
Matched sequences: **K.AAAFYPLNPPYGETFFHR.S**

Calculated Mr: **43871**

Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MEFPETNNNP  IITLSFLLCM  LSLAYASETC  DFPALFNFGD  SNSDTGGKAA
51  AFYPLNPPYG ETFFHRSTGR  YSDGRLIIDF  IAESFNLPYL  SPYLSLGSN
101 FKHGADFATA  GSTIKLPITI  IPAHGGFSPF  YLDVQYSQFR  QFIPRSQFIR
151 ETGGIFAELV  PEEYYFEKAL  YTFDIGQNDL  TEGFLNLTVE  EVNATVPDLV
201 NSFSANVKKI  YDLGARTFWI  HNTGPIGCLS  FILTYFPWAE  KDSAGCAKAY
251 NEVAQHFNHK  LKEIVAQLRK  DLPLATFVHV  DIYSVKYSLF  SEPEKHGFEE
301 PLITCCGYGG  KYNFSVTAPC  GDTVTADDGT  KIVVGSCACP  SVRVNWDGAH
351 YTEAANEYFF  DQISTGAFSD  PPVPLNMACH  KTESLRTLAS  V
```

Spot No.: **D96 (S118)**

NCBI accession No.: [gi|38122474](#) Species: *Hevea brasiliensis*

Protein name: [rubber elongation factor](#)

PMF score: **98**

Sequence coverage %: **57**

Matched peptides No.: **9**

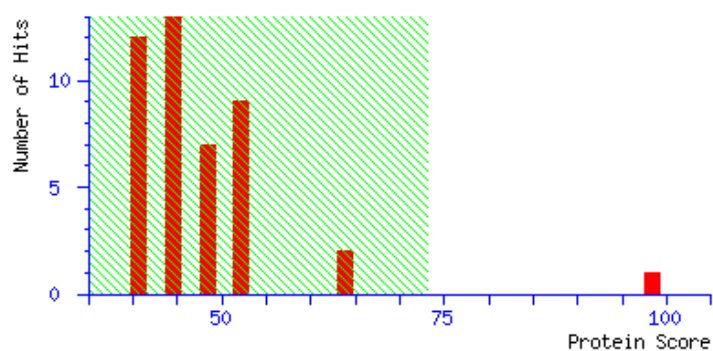
Total peptides No.: **44**

Calculated Mr: **19570**

Calculated pl: **5.06**

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 73 are significant ($p < 0.05$).



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

```
1  MAEGEEEVNI  QEEANKGEEN  PQEENIQEE  TNKGEENIQE  EANIEEEANK
51  EEESLKYLDF  VQAATVYARA  SFSKLYLFAK  DKSGPFKPGV  NTVESRFKSV
101 VRPVYNKFQP  VPNKVLKFAD  RRVDAYVTVL  DRIVPPIVKR  ASIQAYSVAP
151 GAALAVASYL  PLHTKRLSKV  LYGDG
```

Spot No.: **D97 (S121)**

NCBI accession No.: **gi| 255554865** Species: *Ricinus communis*

PFF score: **[55]**

Protein name: **lactoylglutathione lyase, putative**

Matched peptides No.: **[1]**

Sequence coverage %: **[3]**

Matched sequences: **K.FYTECFGMK.L**

Calculated Mr: **31641**

Calculated pI: **7.63**

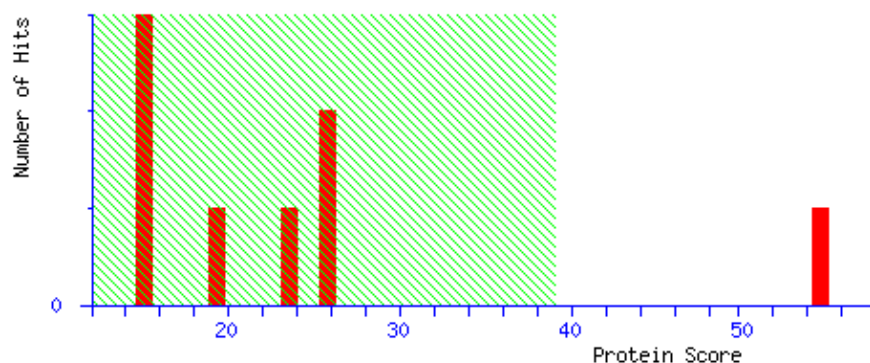
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 40 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAAEATAPNA  DVLEWPKKDK  RRLHAVYRV  GDLDRTIKFY  TECFGMKLLR
51  KRDIPEEKYS  NAFLGFGPEE  TNFVVELTYN  YGVTSYDIGT  GFGHFATQ
101 DVYKLVVEVL  AKGGAVTREP  GPVKGGTTVI  AFVKDPDGYI  FELIQRGPTP
151 EPLCQVMLRV  GDLDRSIRFY  EKALGMKLLR  KVDKPEYKYT  LAMMGYADEY
201 ETTVLELTYN  YGVTEYTKGN  AYAQVAISTD  DVYKSAEVVN  LVTQELGGKI
251 TRQPGPIPGL  NTKITSFLDP  DGWKTKRKRR
```

Spot No.: **D98 (S123)**

NCBI accession No.: **gi|15225839** Species: *Arabidopsis thaliana*

Protein name: **endopeptidase/ peptidase/ threonine-type**

endopeptidase

PMF Mascot score: **86**

Sequence coverage %: **40**

Matched peptides No.: **14**

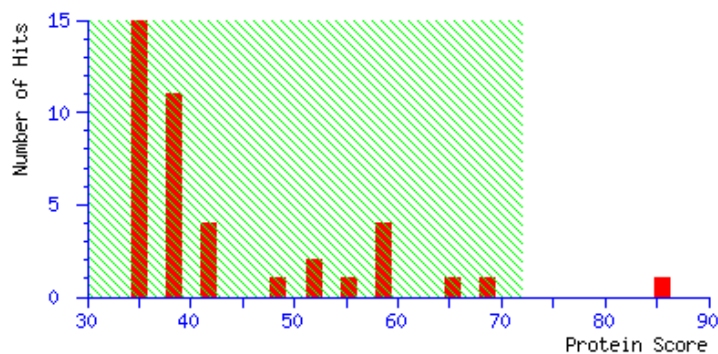
Total peptides No.: **56**

Calculated Mr: **27645**

Calculated pI: **5.93**

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 73 are significant ($p < 0.05$).



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

```
1  MSSIGTGYDL  SVTTFSPDGR  VFQIEYAAKA  VDNSGTVVGI  KCKDGIVMGV
51  EKLIASKMML  PGSNRRIHVS  HRHAGMAVAG  LAADGRQIVA  RAKSEARSYE
101 SVYGDVFPVK  ELSERVASYV  HLCTLYWWLR  PFGCGVILGG  YDRDGPQLYM
151 IEPSGISYRY  FGAAIGKQKQ  AAKTEIEKLN  LSEMTCKEGV  IEVAKI IYKL
201 HDEAKDKAFE  LEMSWICEES  KREHQKVPDD  LLEEAKTAAK  TALEEMDAD
```

Spot No.: **D99 (S126)**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[97]**

Protein name: **small rubber particle protein**

Matched peptides No.: **[1]** Sequence coverage %: **[12]**

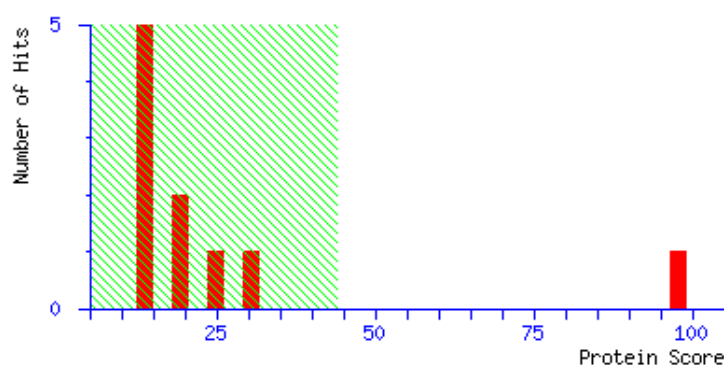
Matched sequences: **K.ENENFQQEANEQEEK.L**

Calculated Mr: **12769**

Calculated pI: **4.61**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAV TALS N IYLYAKDNSG
51 PLKPGVETIE GVAKTVVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```

Spot No.: **D100 (S127)**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[84]**

Protein name: **prohevein**

Matched peptides No.: **[1]**

Sequence coverage %: **[10]**

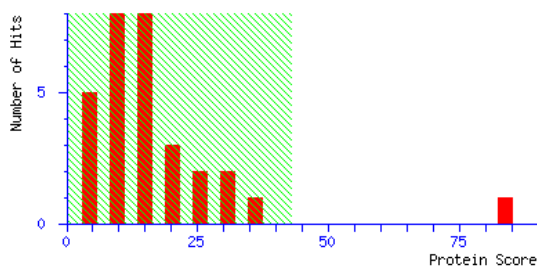
Matched sequences: **K.YGWTAFCGPVGAHGQPSCGK.C**

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ  WGWCGSTDEY  CSPDHNCQSN  CKDSGEGVGG
51  GSASNVLATY  HLYNSQDHGW  DLNAASAYCS  TWDANKPYSW  RSKYYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT  GTGAKATVRI  VDQCSNGGLD  LDVNVFRQLD
151  TDGKGYERGH  LTVNYQFVDC  GDSFNPLFSV  MKSSVIN
```


Spot No.: **D101 (S128)**

NCBI accession No.: **gi|224054224** Species: *Populus trichocarpa*

PFF score: **[68]**

Protein name: **predicted protein**

Matched peptides No.: **[2]**

Sequence coverage %: **[12]**

Matched sequences: **R.AYVGD**RPTWR.N;

R.NPQHPWR.V

Calculated Mr: **15003**

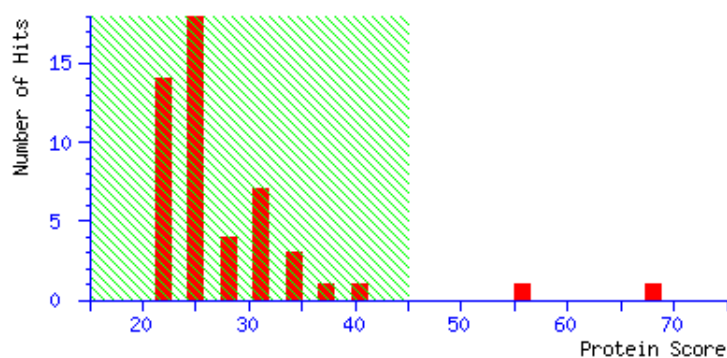
Calculated pI: **6.82**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTVKLVDAI  SSFGSVFEKF  KAEAPKNKVN  LILFLADNDP  STNLSWCPDC
51  VRAEPVILKK  LEALPDDVAL  LRAYVGDRPT  WRNPQHPWRV  DSRFKLKGVP
101 TLISWENDAV  KGRLEDYEAH  LEHKINALVS  GN
```

Spot No.: **D102 (S130)**

NCBI accession No.: **gi|268321205**

Plantspecies: ***Hevea brasiliensis*** Protein name: **latex cystatin**

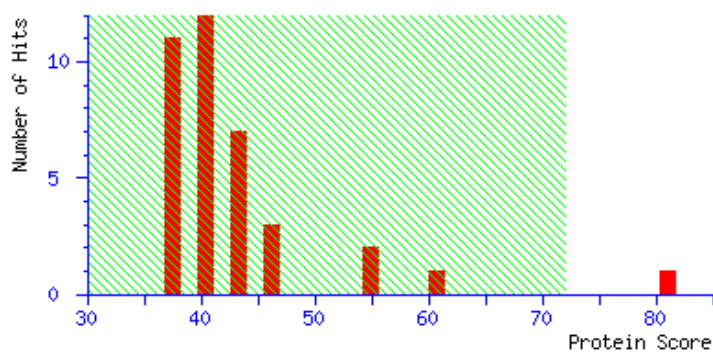
PMF score: **81** Sequence coverage %: **48**

Matched peptides No.: **6** Total peptides No.:**42**

Calculated Mr: **11248** Calculated pI: **5.45**

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 73 are significant ($p < 0.05$).



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

```
1 MAKLGGVKEV EGSANSVEIN SLARYAVDDY NQKQNALLEF KKVVNAKQQV  
51 VAGTIYYITL EVIDGGQKKV YEAKVWEKPW LNFKEVQEPK LIGDAPSDST  
101 A
```

Spot No.: **D103 (S133)**

NCBI accession No.: **gi|242083244**

Plantspecies: ***Sorghum bicolor***

Protein name: **hypothetical protein SORBIDRAFT_08g008236**

PMF score: **81**

Sequence coverage %: **89**

Matched peptides No.: **7**

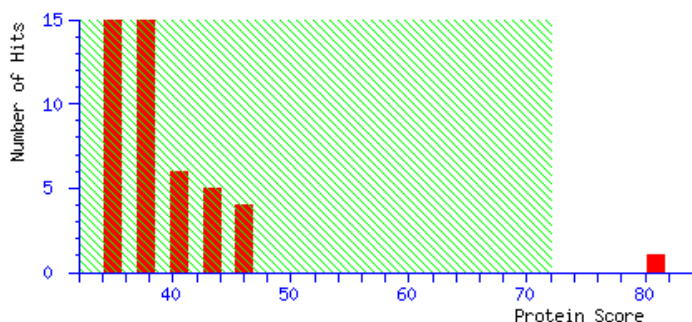
Total peptides No.: **33**

Calculated Mr: **8620**

Calculated pI: **6.4**

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 73 are significant ($p < 0.05$).



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

1 **CVENIILSVL FWSKVQLCLR ASQPLLVALR IVDGDETPID PKIMVAMDVA**
51 **KAIIKESLKD KPILLNEVLK YYDNR**

Spot No.: **D104 (S134)**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[85]**

Protein name: **small rubber particle protein**

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

Matched sequences: **R.AVDASFTTLQNIVPSVLK.Q**

Calculated Mr: **12769**

Calculated pI: **4.61**

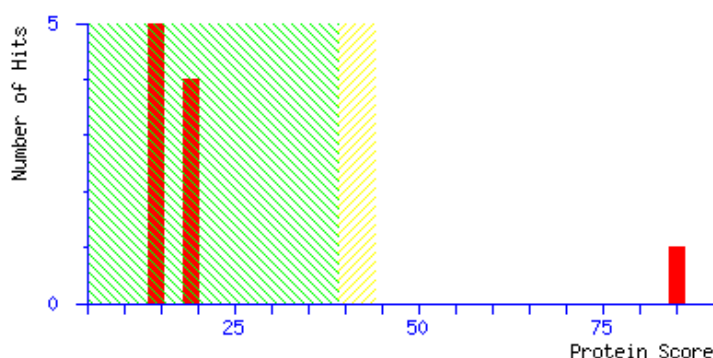
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 39 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEGKENENF QQEANEQEEK LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 PLKPGVETIE GVAKTIVVIPA SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 KQLPTQACDT SVKESAE
```

Spot No.: **D105 (S136)**

NCBI accession No.: **gi|354318** Species: *Triticum aestivum*

PFF score: **[128]** Protein name: **calmodulin**

Matched peptides No.: **[1]** Sequence coverage %: **[10]**

Matched sequences: **R.VFDKDQDGFISAAELR.H**

Calculated Mr: **16876**

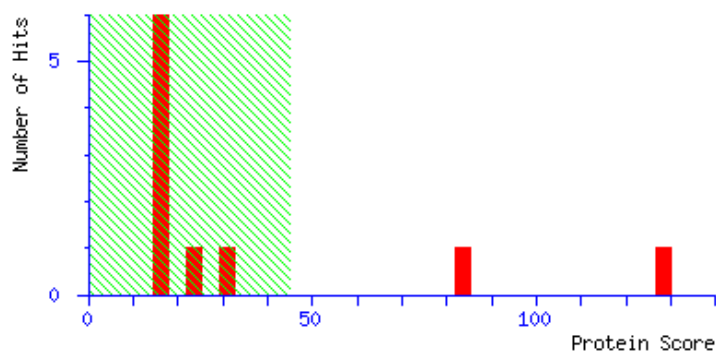
Calculated *pI*: **4.10**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 ADQLTDEQNI AEFKEAFSLF DKDGDGCITT KELGIVMRSL GQNPTEAELQ
51 DMINEVDADG NGTIDFPEFL NLMARKMKDT DSEELKEAF RVFDKDQDGF
101 ISAAELRHVM TNLGEKLTDE EVDEMIREAD VDG DGQINYE EFVKVMMAK
```

Spot No.: **D106 (S137)**

NCBI accession No.: [gi|14423933](#) Species: *Hevea brasiliensis*

Protein name: [Small rubber particle protein](#)

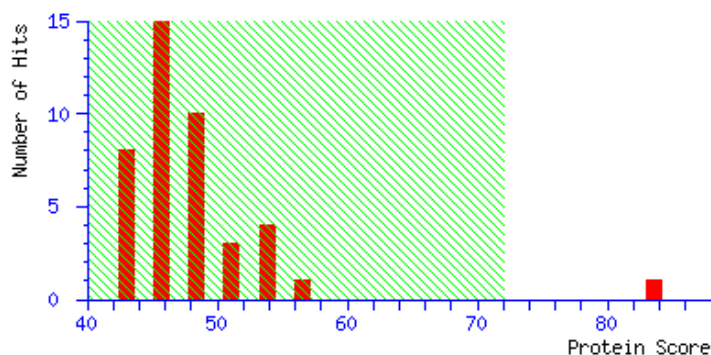
PMF score: **84** Sequence coverage %: **65**

Matched peptides No.: **9** Total peptides No.:**43**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYARDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVTS LDGVVPPVIK QVSAQTYSVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVFG
201 DEAS
```

Spot No.: **D107 (S138)**

NCBI accession No.: [gi|14423933](#) Species: *Hevea brasiliensis*

Protein name: [Small rubber particle protein](#)

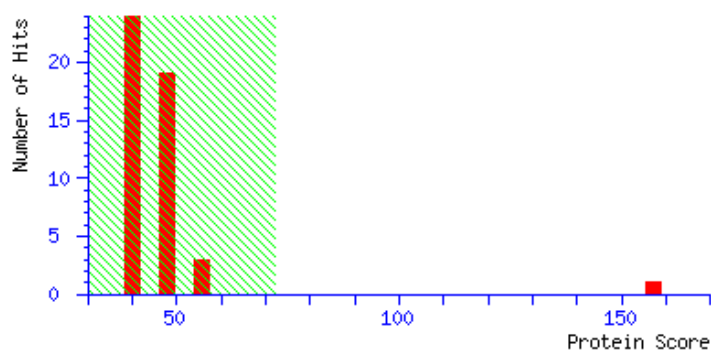
PMF score: **162** Sequence coverage %: **85**

Matched peptides No.: **13** Total peptides No.:**43**

Calculated Mr: **22331** Calculated pI: **4.80**

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 73 are significant ($p < 0.05$).



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVTS LDGVVPPVIK QVSAQTYsVA
101 QDAPRIVLDV ASSVENTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTTEQG YRVSSYLPLL PTEKITKVFg
201 DEAS
```

Spot No.: **D108 (S139)**

NCBI accession No.: [gi|14423688](#) Species: *Hevea brasiliensis*

Protein name: **Enolase 1**

PMF score: **107**

Sequence coverage %: **44**

Matched peptides No.: **14**

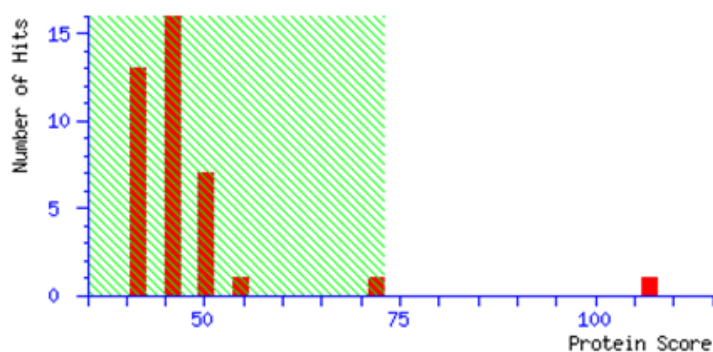
Total peptides No.: **47**

Calculated Mr: **48029**

Calculated pI: **5.57**

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 73 are significant ($p < 0.05$).



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

```
1  MAITIVSVRA  RQIFDSRGNP  TVEADVCLSD  GYLARAAVPS  GASTGIYEAL
51  ELRDGGSDDL  GKGVS KAVEN  VNIIIGPALV  GKDPTDQVGI  DNFMVQQLDG
101 TVNEWGWCKQ  KLGANAILAV  SLAVCKAGAH  VKGIPLYEHI  ANLAGNKNLV
151 LPVPAFNVIN  GGSHAGNKLA  MQEFMILPVG  ASSFKEAMKM  GAEVYHHLKS
201 VIKKKYQQDA  TNVGDEGGFA  PNIQENKEGL  ELLKTAIAKA  GYTGKVVIGM
251 DVAASEFYGS  DQTYDLNFKE  ENNNGSQKIS  GEALKDLYKS  FVAEYPIVSI
301 EDPFDQDDWA  HYAKLTSEIG  EKVQIVGDDL  LVTNPKRVEK  AIKEKACNAL
351 LLKVNQIGSV  TESIEAVKMS  KRAGWGMAS  HRSGETEDTF  IADLSVGLAT
401 GQIKTGAPCR  SERLAKYNQL  LRIEEELGSE  AVYAGANFRK  FVEPY
```


Spot No.: **D109 (S143)**

NCBI accession No.: **gi|333690873** Species: *Hevea brasiliensis*

PFF score: **[52]**

Protein name: **glutathione-S-transferase tau 1**

Matched peptides No.: **[2]** Sequence coverage %: **[10]**

Matched sequences: **K.YEYREEDLR.N;**

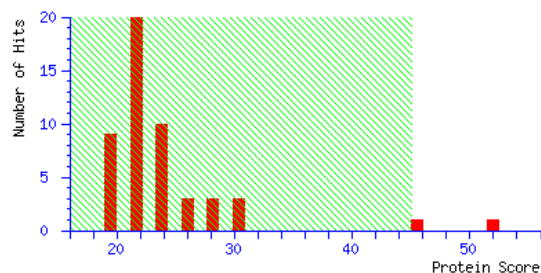
K.DKSPFLPSDPYQR.A

Calculated Mr: **25595**

Calculated *pI*: **5.48**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVILLDF WSPFGRMRV IALAEKGVKY EYREEDLRNK SPLLLQMNPFV
51 HKKIPVLIHN GKPICESLIA VQYVDEVWKD KSPFLPSDPY QRAQARFWAD
101 FIDKKIYDIG RKIWTTKGDE QEAAKKEFIE ALKLLEGELG NKPYFGGESH
151 GYVDVALIPF YSWFYAYETC GNFSIEPECP VLIAWAKRCL QKESVSESVP
201 DPEKVYEFVL VLKKKFGIE
```

Spot No.: **D110 (S145)**

NCBI accession No.: **gi|30575570** Species: *Citrus x paradisi*

PFF score: **[87]**

Protein name: **HSP19 class II**

Matched peptides No.: **[1]** Sequence coverage %: **[15]**

Matched sequences: **K.VQVEDDNVLLISGER.K**

Calculated Mr: **11191**

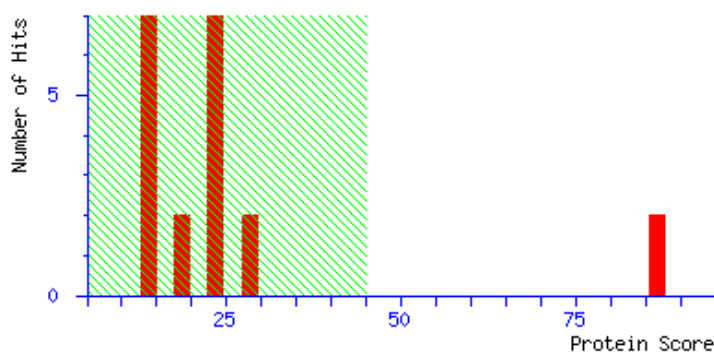
Calculated pI: **8.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 YVFIVDMPGL KSGDIKVQVE DDNVLLISGE RKREEEKDGA KYVRMERRVG  
51 KFMRKFFVLPE NANVEAISAV CQDGVLTITV DKLPPPEPKK PKTIEVKIA
```

Spot No.: **D111 (S146)**

NCBI accession No.: **gi|37901124** Species: *Hevea brasiliensis*

PFF score: **[88]**

Protein name: **latex abundant protein 1**

Matched peptides No.: **[1]** Sequence coverage %: **[11]**

Matched sequences: **R.NKDDINCFNEYNPR.P**

Calculated Mr: **14618**

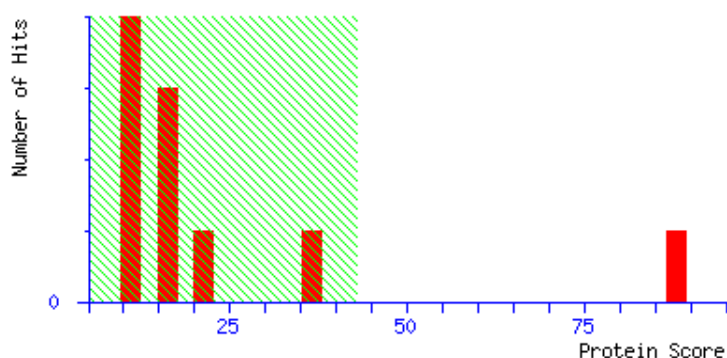
Calculated pI: **5.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRNKDD INCFNEYNPR PYIGGYDMAL TYGRPISACE ETCYPRSSSA
51 NEIDYDYPDF TWYVEPSAYN DDHLQEEYTS YARPKPRPAP NSLGSCPILG
101 GNDEEKHHH CHHQEKHCD DE
```

Spot No.: **D112 (S147)**

NCBI accession No.: **gi|359806300** Species: *Glycine max*

PFF score: **[173]**

Protein name: **uncharacterized protein LOC100784610**

Matched peptides No.: **[3]** Sequence coverage %: **[9]**

Matched sequences: **K.NTALHYAAGYGR.K;**

R.YWNNEEVLQK.L;

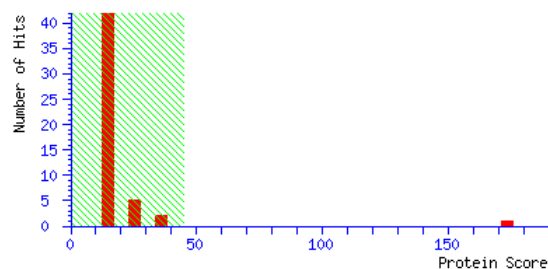
R.TALHFACGYGEVK.C

Calculated Mr: **38027**

Calculated pI: **4.53**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MASDSKKDFP ADDKAGTEES KTSKDETSSK DSPAEQRATA TFGPRPGPAG
51 HPGNPFDLA MSGLLNDFPSI KELAEQIAKD PSFNQMAEQL QKTFQGAPQD
101 AIPSFNQY FSTMQQVMQN PNFMTMAERL GNALMQDPSM SAMLESFSNP
151 SNKDQLEERM ARIKEDPSLK HILEELETGG PAAMMRYWNN EEVLQKLGQA
201 MGLANSGDAG ASAENSGADE TEDLGNEDES IVHHTASVGD VEGLKNALAS
251 GADKDEEDSE GRTALHFACG YGEVKCAQVL LEAGAKVDAL DKNKNTALHY
301 AAGYGRKECV ALLLENGAAV TLQNMDGKTP IDVAKLNNQN EVLKLEKDA
351 FL
```

Spot No.: **D113 (S148)**

NCBI accession No.: **gi|37625031** Species: *Vitis aestivalis*

PFF score: **[166]**

Protein name: **putative ankyrin-repeat protein**

Matched peptides No.: **[3]** Sequence coverage %: **[9]**

Matched sequences: **K.LNNQHEVLK.L;**

K.NTALHYAAGYGR.K;

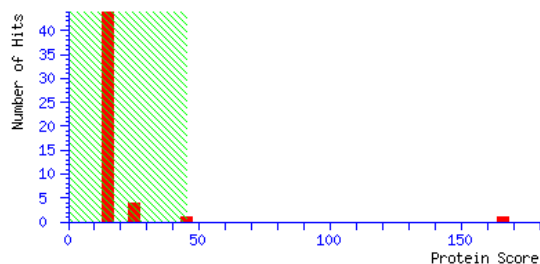
R.TALHFACGYGEVK.C

Calculated Mr: **38089**

Calculated pI: **4.53**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MASNSDKDTP AGSAENSKSD SSSGESHSQ RRAAAAASVP GAGLPTNPFD
51 FSAMTGLLND PSIKELAEQI AKDPAFNQMA EQLQKTFHGA AVEESIPQFD
101 TQQYYSTMQQ VMQNPQFMTM AERLGNALMQ DPSMSSMLEN LANPTHKDQL
151 EERMARIKED PSLKPILDEI ETGGPAAMMR YWNDKDV LQK LGEAMGLAVS
201 GDAAASADNS GLDEAEELAN EDESIAHHS ESIVHDTASV GDVEGLKNAL
251 ASGADKDEED SEGRTALHFA CGYGEVKCAQ ILVEAGATVD ALDKNKNTAL
301 HYAAGYGRKE CVALLENGA AVTLQNMDGK TPIDVAKLNN QHEVLKLLEK
351 DAFL
```

Spot No.: **D114 (S149)**

NCBI accession No.: **gi|13310811** Species: *Nicotiana tabacum*

PFF score: **[71]**

Protein name: **putative ankyrin-repeat protein**

Matched peptides No.: **[2]** Sequence coverage %: **[7]**

Matched sequences: **K.NTALHYAAGYGR.K;**

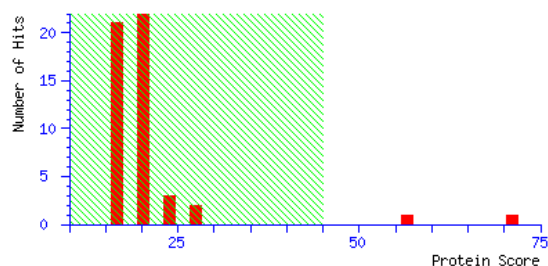
R.TALHFACGYGEVK.C

Calculated Mr: **37522**

Calculated pI: **4.45**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSEGKVLPT  ASADEKSGAS  ENKKSSESSS  TEAPSGEART  TSTAAAGAGL
51  QNPFDFSAMS  GLLNDPSIKE  LAEQIAKDPA  FNQMAEQLQK  TFQGAAVEES
101 VPNFDSQQYY  STMQQVMQNP  QFMTMAERLG  NALMQDPSMS  GMLESLSNPA
151 QKEQIEERMA  RIKEDPSLKP  ILEEIESGGP  AAMRYWWDQ  ETLKKIGEAM
201 GFAAGGEGAT  SSAIPGTDET  EEANEDESIV  HQCASVGDAE  GLKAALTAGA
251 DKDEEDSEGR  TALHFACGYG  EVKCAQILLE  AGAKVDALDK  NKNTALHYAA
301 GYGRKECVAL  LLENGAAVTL  QNLDGKTPID  VAKLNNQGEV  LKLEKDVFL
```

Spot No.: **D115 (S151)**

NCBI accession No.: **gi|378464888**

Species: *Ammopiptanthus mongolicus*

PFF score: **[117]**

Protein name: **translation elongation factor**

Matched peptides No.: **[2]**

Sequence coverage %: **[11]**

Matched sequences: **R.WFNHIDALLR.I;**

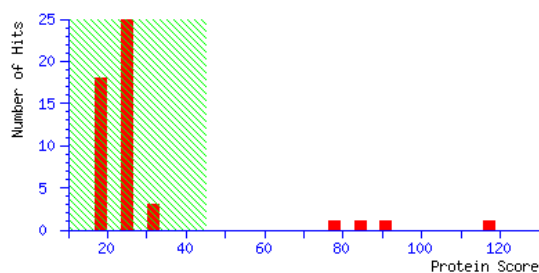
K.SSVLLDVKPWDDETDMK.K

Calculated Mr: **25300**

Calculated pI: **4.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MVLTLYNLSS  EPGLKKLDEY  LLSRSYITGY  QASKDDLTVY  AALPEVPSDK
51  YVNVSRWFNH  IDALLRISGV  SGEGSGVTVE  GSAPVAEETI  ATPPAADTKA
101 TAAEDDDDDV  DLFGETETEE  KKAEEERAAS  VKASVKKKES  GKSSVLLDVK
151 PWDETDMKK  LKEAVRSVSM  EGLHWGASKL  VPVGYGIKKL  QIMLTIVDDL
201 VSVDNLIEEQ  LQVEPINEYV  QSCDIVAFNK  I
```

Spot No.: **D116 (S153)**

NCBI accession No.: **gi|22261807** Species: *Solanum tuberosum*

PFF score: **[132]**

Protein name: **Light-induced protein, chloroplastic**

Matched peptides No.: **[1]** Sequence coverage %: **[8]**

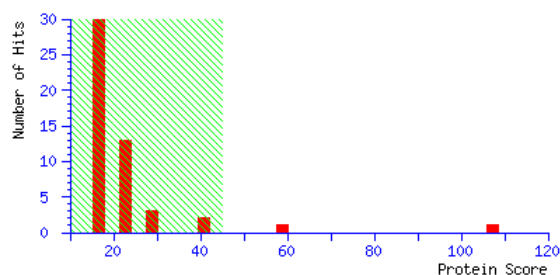
Matched sequences: **K.FEEGIIGTPQLTDSIVLPENVEFLGQK.I**

Calculated Mr: **35671**

Calculated pI: **5.26**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAVTFYGVNS GSGLKKLDEY LLRSYISGY QASKDDITVH AALSKAPSSE
51 YVNSRWYNH IESLLRISGV SGEGCGVTIE GFAPVDAVAT PPAEDTKATA
101 AEDDDDDVD LFGREETEEK KAAEAAAAV KASGKKKESG KSSVLLDVKP
151 WDEETDMKKL EEAVRSIKME GLLWGASKLV PVGYGIKKLQ IMLTIVDDLQ
201 SVDDLIEEQL TVEPTNEYVQ SCDIVAFNKI
```


Spot No.: **D117 (S161)**

NCBI accession No.: **gi|147805616** Species: *Vitis vinifera*

PFF score: **[136]**

Protein name: **hypothetical protein VITISV_028800**

Matched peptides No.: **[3]** Sequence coverage %: **[10]**

Matched sequences: **R.GPYPADQVVR.D;**

R.DRGPYPADQVVR.D;

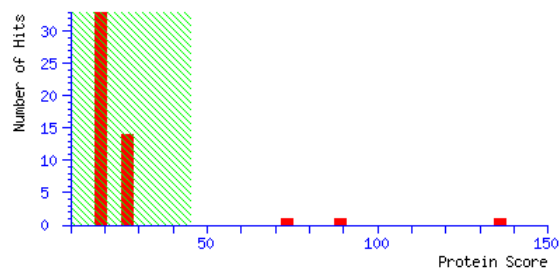
K.TANEVIIVIEAYR.T

Calculated Mr: **27385**

Calculated *pI*: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAVFHKSIA  EAPEGLRTPD  SASLPALKDG  FLPQFFASLH  PSAVTVNLGS
51  SGAISYSVDK  QNLLPRLFA  VDDIFCLFQ  GHIENVALLK  QQYGLNKTAN
101 EVIIVIEAYR  TLRDRGPYPA  DQVVRDLHGK  FAFVLYDSSN  RTAFLAADAD
151  ESVPFFWGVD  SEGHLVLSDD  EETVKKGCGK  SFAPFPKGC  FTTSGGLRSF
201  EHPLNELRAE  PRVDSSGQVC  GANFKVDVEA  KKETGMPRVG  SAANWSTHY
```

Spot No.: **D118 (S164)**

NCBI accession No.: **gi|225428086** Species: *Vitis vinifera*

PFF score: **[377]**

Protein name: **V-type proton ATPase subunit B 1**

Matched peptides No.: **[10]** Sequence coverage %: **[23]**

Matched sequences: **K.YQEIVNIR.L;K.FVAQGAYDTR.N;**

**R.DFEENGSMER.V;R.RGQVLEVDGEK.A;
R.KFVAQGAYDTR.N;K.YTTVQFTGEVLK.T;
R.QIYPPINVLPSLSR.L;R.VTLFLNLANPTIER.I;
R.GYPGYMYTDLATYIER.A;
R.RDHADVSNQLYANYAIGK.D**

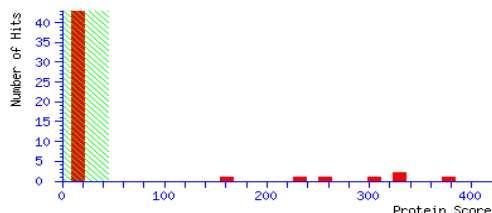
Calculated Mr: **54367**

Calculated pI: **5.04**

Probability Based Mowse Score:

Mascot Score Histogram

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGVEQNNHDA  EEGTLLVGME  YRTVSGVAGP  LVILEKVKGP  KYQEIVNIRL
51  GDGTTRRGQV  LEVDGEKAVV  QVFEGTSGID  NKYTTVQFTG  EVLKIPVSLD
101 MLGRIFNGSG  KPIDNGPPIL  PEAYLDISGS  SINPSERTYP  EEMIQTGIST
151 IDVMNSIARG  QKIPLFSAG  LPHNEIAAQI  CRQAGLVKRL  EKSGSLEDV
201 EEDNFAIVFA  AMGVNMQTAQ  FFKRDFEENG  SMERVTLFLN  LANDPTIERI
251 ITPRIALTTA  EYLAYECGKH  VLVILTDMSS  YADALREVSA  AREEVPGRRG
301 YPGYMYTDLA  TIYERAGRIE  GRKGSITQIP  ILTMPNDDIT  HPTPDLTGVI
351 TEGQIYIDRQ  LHNRQIYPPI  NVLPSLSRLM  KSAIGGMTR  RDHADVSNQL
401 YANYAIGKDV  QAMKAVVGEE  ALSSEDLLYL  EFLDKFERKF  VAQGAYDTRN
451 IFQSLDLAWT  LLRIFPRELL  HRIPAKTLDQ  YYSREASN
```

Spot No.: **D119 (S165)**

NCBI accession No.: **gi|224071449** Species: *Populus trichocarpa*

PFF score: **[59]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[2]**

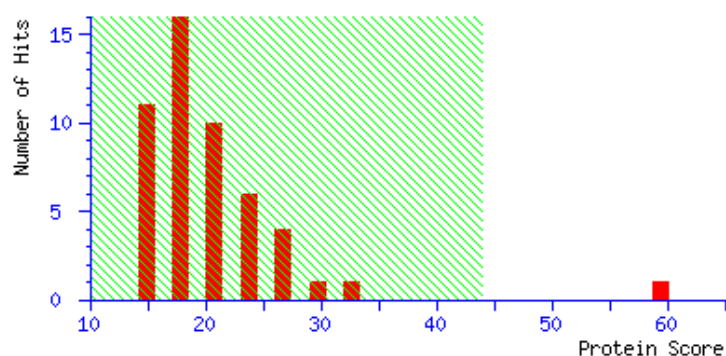
Matched sequences: **K.IDVIPHYPGRL**

Calculated Mr: **47121**

Calculated pI: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MDGTSEATWP  EILGSRNWDN  LLDPLDLSLR  KLILRCGDFC  QATYDAFNND
51  QNSRYCGTSR  YGKRNFHFKV  MLDNPENYQV  SSFLYATARV  SLPEAFLLHS
101 LSRDSDWRET  NWIGYIAVTS  DEQTKTLGRR  EIYIAFRGTT  RNYEVDILG
151 AKLKSAPLL   RGATSTTHDQ  ESSSSDDEDD  DKVPKVMLGW  LTMYSISDDPN
201 SPFTKLSARA  QLLAHIKELR  ERYKDDDLSE  IFTGHSLGAS  LSILSAFDLV
251 ENGITDIPVS  AFVFGSPQVG  NKEFNERFNK  YPNLKVLHIK  NKIDVIPHY
301 GRLMGYVYTG  IEFIDTRKS   PSLKDSKNPS  DWHNLQAMLH  IVAGWNGEEQ
351 EFELKVKRSL  ALVNKSSEFL  KDECLVPGIW  WVEKNKGMVR  NEDGEWVLAP
401 PDEEDLPVPE  C
```

Spot No.: **D120 (S166)**

NCBI accession No.: **gi|116789736** Species: *Picea sitchensis*

Protein name: **unknown**

PMF Mascot score: **81**

Sequence coverage %: **60**

Matched peptides No.: **6**

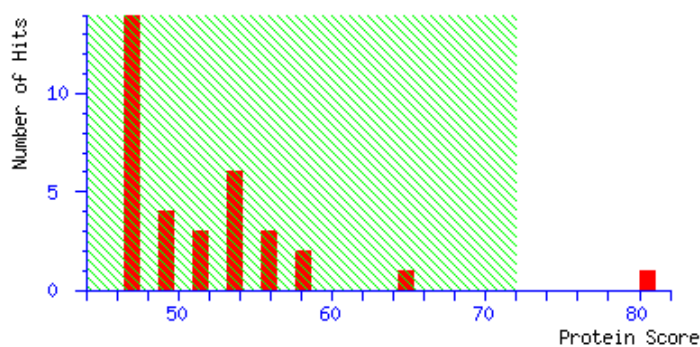
Total peptides No.: **48**

Calculated Mr: **13436**

Calculated pI: **5.91**

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 73 are significant ($p < 0.05$).



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

```
1  MPSHSLIGTT TTNRRGSMED YPNPFNPETI HELFKLVWSQ TNKARAQKEG  
51 GETELEVGAA ASKKTRTTTA NSNALKLSCE FLRLFVTEAV QRAAIVAEVE  
101 GSTQIEGTHL ERILPQLLLD F
```

Spot No.: **D121 (S167)**

NCBI accession No.: **gi|115392253**

Species: *Cercocarpus betuloides*

PFF score: **[51]** Protein name: **polyphenol oxidase**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

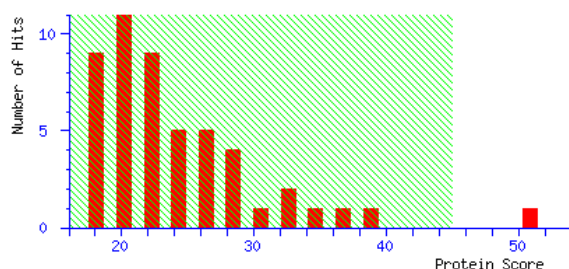
Matched sequences: **K.EKEQEEEEILVIEGIEFDR.D**

Calculated Mr: **51023**

Calculated pI: **5.98**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 PFAFAKPVAP PDVSKCGAAD LPTGAQPTNC CPPVASKIID FKLPSPTPLR VRPAAHAVDK
61 AYIEKYSKAI ELMKALPDDD PRSFKQQANV HCAYCDGAYD QAGFPDLELQ IHNSWLFFPF
121 HRYLYPFHEK ILGSLIGDPT FALPFWNWDA PAGMPLPAIY ANPKSPLYDK FRAANHQPPT
181 LVDLDFNGTE DAASNETQIN ANLKIMYRQM VSNARTPQLF FGNPYRAGDE FDPGGGSIEG
241 TPHGPFVHLWT GDNTQPNFED MGNFYASGRD PIFFAHHSNV DRLWSIWKTL GGKRTDITDT
301 DWLDSGFLFY DENAQMVRVK VRDCLESKNL GYVYQDANIP WLESKPTPRR VKAALGKIAK
361 KLHVAHAADN SSASKVVARA AFPIAKLDTK MSTVVARPKQ KKRSKKEKEQ EEEILVIEGI
421 EFDRDVAVKF DVYVNDEDDL PSGPDKSEFA GSFVS
```

Spot No.: **D122 (S168)**

NCBI accession No.: **gi|225430941**

Species: *Vitis vinifera*

PFF score: **[210]**

Protein name: **regulator of ribonuclease-like protein 2**

Matched peptides No.: **[3]** Sequence coverage %: **[24]**

Matched sequences: **K.VFEDNVLIR.E;**

R.DVDEINGCDIGVR.A;

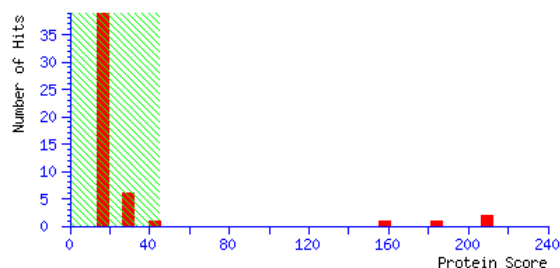
R.ISDGEWLYADTDGILISR.T

Calculated Mr: **17984**

Calculated pI: **5.39**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MALVTTAEVC DANPQLIVSG ELRALQPVEQ IYGRRPVFSG PIVTLKVFED
51 NVLIREFLEE KGNGRVLVVD GGGSMRCAIL GGNPVVQAQN NGWAGIVVNG
101 CIRDVDEING CDIGVRALNS HPMKANKKGI GEKHVPIAIA GTRISDGEWL
151 YADTDGILIS RTELSV
```

Spot No.: **D123 (S171)**

NCBI accession No.: **gi|115392253**

Species: *Cercocarpus betuloides*

PFF score: **[104]** Protein name: **actin depolymerizing factor**

Matched peptides No.: **[1]** Sequence coverage %: **[4]**

Matched sequences: **K.EKEQEEEILVIEGIEFDR.D**

Calculated Mr: **58369**

Calculated pI: **9.23**

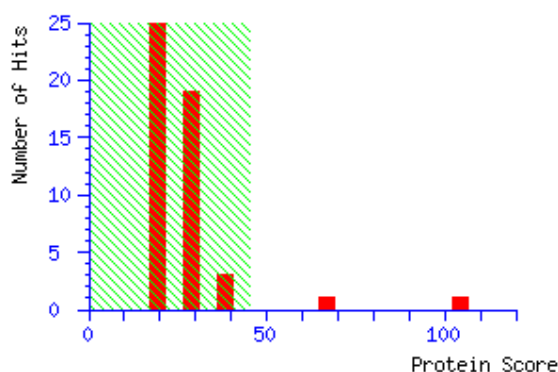
Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 40 indicate peptides with significant homology.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 PFAFAKPVAP PDVSKCGAAD LPTGAQPTNC CPPVASKIID FKLPSPTPLR VRPAHAHVDK
61 AYIEKYSKAI ELMKALPDDD PRSFKQQANV HCAYCDGAYD QAGFPDLELQ IHNSWLFFPF
121 HRYLYLPHEK ILGSLIGDPT FALPFWNWDA PAGMPLPAIY ANPKSPLYDK FRAANHQPPT
181 LVDLDFNGTE DAASNETQIN ANLKIMYRQM VSNARTPQLF FGPNPYRAGDE PDPGGGSIEG
241 TPHGFVHLWT GDNTQPNFED MGNFYASAGR PIFFAHHSNV DRLWSIWKTL GGRKTDITDT
301 DWLDSGFLFY DENAQMVRVK VRDCLESKNL GYVYQDANIP WLESKPTPRR VKAALGKIAK
361 KLHVAHAADN SSASKVVARA AFPIAKLDTK MSTVVARPKQ KKRSKKEKEQ EEEILVIEGI
421 EFDRDVAVKF DVYVNDEDDL PSGPDKSEFA GSFVS
```

Spot No.: **D124 (S177)**

NCBI accession No.: **gi|357480975** Species: *Medicago truncatula*

PFF score: **[369]**

Protein name: **Proteasome subunit beta type**

Matched peptides No.: **[7]** Sequence coverage %: **[42]**

Matched sequences: **K.NVALYQFR.N;**

R.VQFTEYIQK.N;

R.LVVAPPNFVIK.I;

R.NGIPLTTAAAANFTR.G;

K.GAFGYGSYFSLSMMDR.H;

K.ETGPSLYYIDYIATLHK.L;

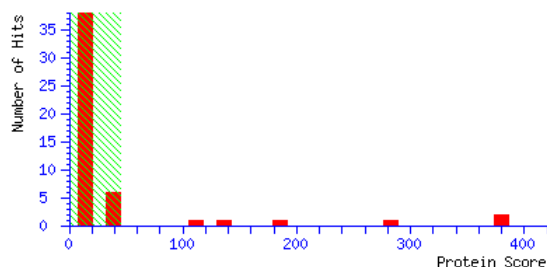
K.LIAASGEPGDRVQFTEYIQK.N

Calculated Mr: **22572**

Calculated *pI*: **6.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MECVFGLVGN  GFAIVVADTS  AVHSILVHKS  NEDKIMFLDS  HKLIAASGEP
51 GDRVQFTEYI QKNVALYQFR NGIPLTTAAA ANFTRGELAT ALRKNPYSVN
101 ILLAGYDKET GPSLYYIDYI ATLHKLEKGA FGYGSYFSL MMDRHFHSGM
151 NVEEAIDLVD  KCILEIRSRL  VVAPPNFVIK  IVDKDGAREY  AWRESVKDTP
201 ASA
```


Spot No.: **D125 (S187)**

NCBI accession No.: **gi|380468126** Species: *Hevea brasiliensis*

PFF score: **[123]**

Protein name: **caffeic acid 3-O-methyltransferase**

Matched peptides No.: **[3]**

Sequence coverage %: **[11]**

Matched sequences: **K.NPEAPVLLDR.M;**

K.SWYHLNEAILEGGTPFNR.A;

R.AYGMNQFEYPGTDQR.F + Oxidation (M)

Calculated Mr: **40957**

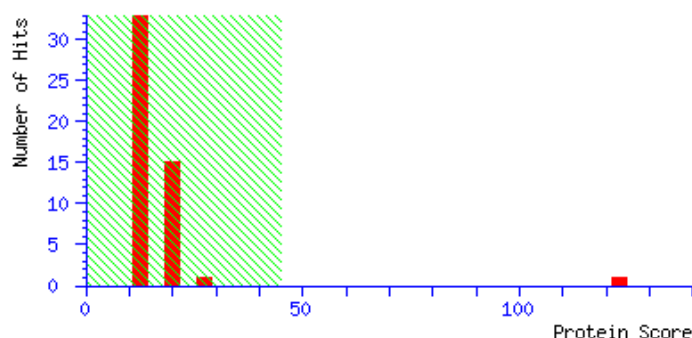
Calculated pI: **5.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTGSEQNSA  SIMSGRSDEE  TWNLAIDLAN  TVILPMVLKS  ALELNVIDII
51  STAGNSGASL  SAPEIAQRIP  EAKNPEAPVL  LDRMLRLLAT  YDIVKCSSNT
101 KENGEVERLY  APGPICKFLT  KNKNGSGSAA  PLLLLHHDEV  FMKSWYHLNE
151 AILEGGTPFN  RAYGMNQFEY  PGTDQRFNRV  FNDAMSSYTT  YLVKKILDAY
201 KGF DGLKSLV  DVG GNSGVTL  NSITSKYPHI  KGINYDLPHV  LADAPSYPGV
251 EHVAGDMFKS  VPKGDAILK  WVLHDWDDDL  CLKLLKNCWE  ALPSNGKVIV
301 VESILPTVPE  NNVTSQVLHK  EDLMLLSFNV  G GKERTRQEF  EALASKSGFS
351 SCEFICCAYN  SWVIEFHK
```

Spot No.: **D126 (S188)**

NCBI accession No.: **gi|380468126** Species: *Hevea brasiliensis*

PFF score: **[117]**

Protein name: **caffeic acid 3-O-methyltransferase**

Matched peptides No.: **[2]**

Sequence coverage %: **[8]**

Matched sequences: **K.SWYHLNEAILEGGTPFNR.A;**

R.AYGMNQFEYPGTDQR.F + Oxidation (M)

Calculated Mr: **40957**

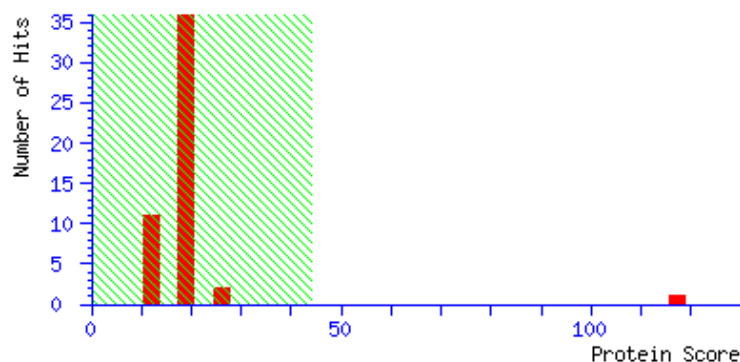
Calculated pl: **5.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MTGSEQSNSA  SIMSGRSDEE  TWNLALDLAN  TVILPMVLKS  ALELNVIDII
51  STAGNSGASL  SAPEIAQRIP  EAKNPEAPVL  LDRMLRLLAT  YDIVKCSNT
101 KENGEVERLY  APGPICKFLT  KNKNGSGSAA  PLLLLHHDEV  FMKSWYHLNE
151 AILEGGTPFN  RAYGMNQFEY  PGTDQRFNRV  FNDAMSSYTT  YLVKKILDAY
201  KGF DGLKSLV  DVG GNSGVTL  NSITSKYPHI  KGINYDLPHV  LADAPSYPGV
251  EHVAGDMFKS  VPKGDAILK  WVLHDWNDL  CLKLLKNCWE  ALPSNGKVIV
301  VESILPTVPE  NNVTSQVLHK  EDLMLLSFNV  GPKERTRQEF  EALASKSGFS
351  SCEFICCAYN  SWVIEFHK
```

Spot No.: **D127 (S189)**

NCBI accession No.: **gi|284433794** Species: *Jatropha curcas*

PFF score: **[159]**

Protein name: **glutathione S-transferase omega**

Matched peptides No.: **[3]**

Sequence coverage %: **[10]**

Matched sequences: **K.IIGESLDLIK.Y;**

K.YDITAGRPK.L;

K.ELVEFYK.K

Calculated Mr: **27480**

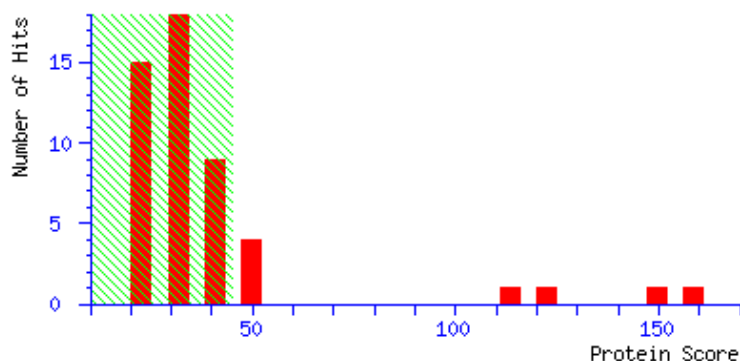
Calculated pI: **5.41**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAATALDKSL  PEKLPPILDA  TAEQPPLFDG  TIRLYTSYAC  PFAQRVWITR
51  NYKGLQDKIK  LVPLNLQNRP  SWYGEKVYPA  NKVPALEHNG  KIIGESLDLI
101 KYIDANFEGP  SLLPDDPAKK  EFAEELFSYT  DTFTKTVFTS  FKGDVAKDAS
151  PAFDYLENAL  HKFEDGPPLL  GQFSLVDIAY  IPFVERFQIF  FSEVFKYDIT
201 AGRPKLAAWI  EEMNKIEAYK  QTKTDPKELV  EFYKKRLLAQ
```

Spot No.: **D128 (S190)**

NCBI accession No.: **gi|255567721** Species: *Ricinus communis*

PFF score: **[52]**

Protein name: **carboxymethylenebutenolidase, putative**

Matched peptides No.: **[1]** Sequence coverage %: **[6]**

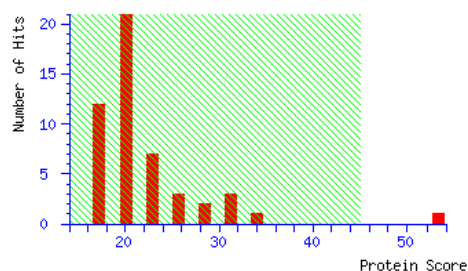
Matched sequences: **K.SMGMPDEDEAAVELAWSR.F + 2 Oxidation (M)**

Calculated Mr: **30833**

Calculated pI: **6.09**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLAAAIRSLS  PSSTSSIFNK  SALPPLLRSL  SPSLNSRFQ  IRSMADSASS
51  PFKKVQIHRD  NTTFDAYVIG  KDDAPGIVVV  QEWWGVDFEI  KNHAEKISQL
101 EPGFKALIPD  LYRGKVGLDV  AEAQHLM DGL  DWQGAVKDIG  ASVNWLKANG
151 SKKAGVTGFC  MGGALAIASS  VLVPEVDAVV  AFYGVPPSEL  ADATQAKAPI
201 QAHFGELDNE  VGFADITAAK  ALEEKLKASG  VPSEVHIYPG  NAHAFMNRSA
251 EGVKRRKSMG MPDEDEAAVE LAWSRFRSWM  NQYLSA
```

Spot No.: **D192 (S129)**

NCBI accession No.: **gi|255542380** Species: *Ricinus communis*

Protein name: *cysteine synthase, putative*

PMF Mascot score: **82**

Sequence coverage %: **37**

Matched peptides No.: **13**

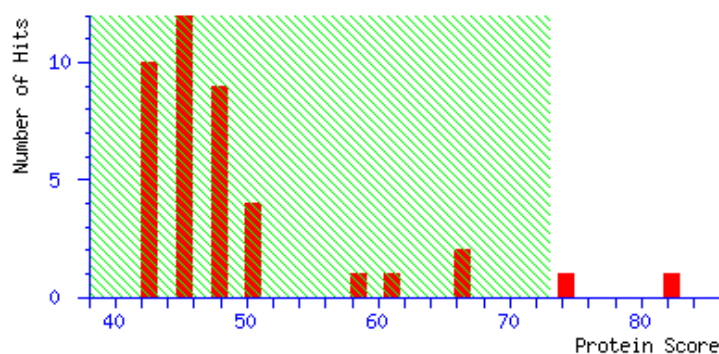
Total peptides No.: **59**

Calculated Mr: **34435**

Calculated pI: **5.50**

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 73 are significant ($p < 0.05$).



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

```
1  MVEEKSAIAK  DVTELVGKTP  LVYLNHVVDG  CVARIAAKLE  MMEPCSSVKD
51  RIGYSMITDA  EEKGLIKPGE  SVLIEPTSGN  TGIGLAFMAA  AKGYKLIITM
101 PASMSLERRM  VLRAFGAELV  LTDPARGMKG  AVQKAE EILA  KTPNSYILQQ
151  FENPANPKIH  YETTGPE  IWK  GSGGKVDFFV  SGIGTGGTV  T  GAGGYLREQ  N
201  PDIKLIGV  EEP  VESAVLSGGK  PGPH  KIQGIG  AGFIPGVLDV  SLLDEVV  QIS
251  SEEAIETAKL  LALKEGLL  VG  ISSGAAAAAAA  IKIARRP  ENA  GKL  IVVIFP  S
301  FGERYLS  SVL  FES  VKREAE  S  MVF  EP
```

Spot No.: **D130 (S197)**

NCBI accession No.: **gi|351727028** Species: *Glycine max*

Protein name: **cell division cycle protein 48 homolog**

PMF Mascot score: **174**

Sequence coverage %: **42**

Matched peptides No.: **37**

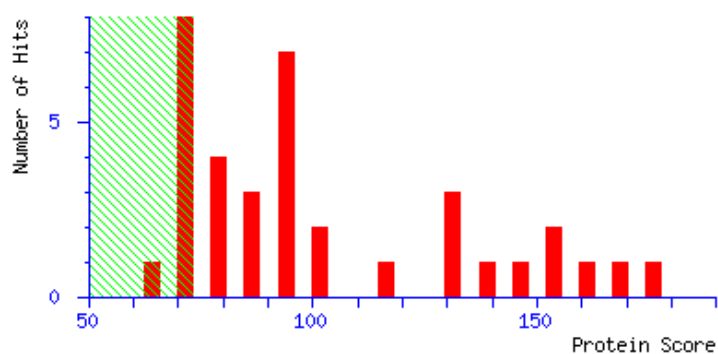
Total peptides No.: **90**

Calculated Mr: **90512**

Calculated pI: **5.18**

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 73 are significant ($p < 0.05$).



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

```
1 MSQQGESSDF KSGKKDFSTA ILERKKSPNR LVVDEAVNDD NSVVTMHPQT
51 MEKLQLFRGD TILIKGKRRK DTICIALADE NCEEPKIRMN KVVRSNLRVR
101 LGDVVSVHQC PDVKYGKRVH ILPIDDTIEG VTGNLFD AFL KPYFLEAYRP
151 VRKGDLFLVR GGMRSVEFKV VETDPGEYCV VAPDTEIFCE GEPLKREDEE
201 RLDEVGYYDDV GGVRKQMAQI RELVELPLRH PQLFKSIGVK PPKGILLYGP
251 PGSGKTLIAR AVANETGAFF FCINGPEIMS KLAGESESNL RKAFEEAEKN
301 APSIIFIDEI DSIAPKREKT HGEVERRIVS QLLTLMDGLK SRAHVIVIGA
351 TNRPNSIDPA LRRFGRFDRE IDIGVPDEVG RLEVLRIHTK NMKLSDDVDL
401 ERIAKDTHY VGADLAALCT EAALQCIREK MDVIDLEDET IDAEVLNSMA
451 VTNEHFQTAL GTSNPSALRE TVVEVPNVSW EDIGGLENVK RELQETVQYP
501 VEHPEKFEKF GMSPSKGVLF YGPPGCGKTL LAKAIANECQ ANFISVKGPE
551 LLTMWFGESE ANVREIFDKA RQSAPCVLFF DELDSIATQR GSSVGDAGGA
601 ADRVLNQLLT EMDGMSAKKT VFIIGATNRP DIIDPALLRP GRLDQLIYIP
651 LPDEDSRHQI FKACLRKSPI AKNVDLRALA RHTQGFSGAD ITEICQRACK
701 YAIARENIEKD IERERKSREN PEAMDEDTV DVAEIKAAH FEESMKFARR
751 SVSDADIRKY QAFAQTLQQS RGFGSEFRFP ESGDRTTTGS DPFAASAGGA
801 DEDDLYS
```

Spot No.: **D131 (S218)**

NCBI accession No.: [gi|14916100](#) Species: *Hevea brasiliensis*

PFF score: **[802]**

Protein name: **hydroxymethylglutaryl coenzyme A**

Matched peptides No.: **[10]** Sequence coverage %: **[35]**

Matched sequences: [R.LVFNDFVR.N](#); [K.ARHELPPEK.F](#);

[K.TFLMQIFEK.F](#) + Oxidation (M);

[K.VSQQVAKPLYDAK.V](#); [K.LAPFSNLSGDESYQNR.D](#);

[R.YGLVVCTDSAVYAEGPAR.P](#);

[K.QFSISDAEYFVFHSPYK.L](#);

[K.DCSLLASGTYYLTEVDSL.YR.R](#);

[R.GSHMSHAYDFYKPNLASEYPPVVDGK.L](#) + Oxidation (M);

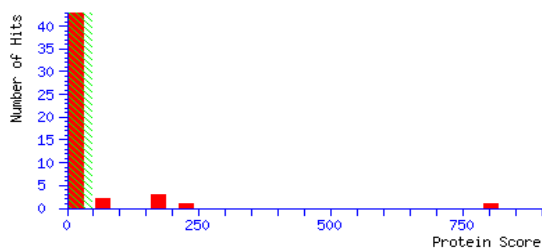
[K.NVGILAVDIYFPPTFVQEALEAHDGASK.G](#)

Calculated Mr: **51761**

Calculated pI: **6.86**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAKNVGILAV DIYFPPTFVQ QEALEAHDGA SKGKYTIGLG QDCMAFCTEV
51  EDVISMSLTA VTSLLDKYNI DPKQIGRLEV GSETVIDKSK SIKTFLMQIF
101 EKFGNTDIEG VDSTNACYGG TAALFNCVNW VESSWDGRY GLVVCTDSAV
151 YAEGPARPTG GAAAIAILVG PDAPIAFESK FRGSHMSHAY DFYKPNLASE
201 YPPVVDGKLSQ TCYLMALDSC YKHFCAKYEK FEGKQFSISD AEYFVFHSPY
251 NKLVQKSFAR LVFNDFVRNA RSIDETAKEK LAPFSNLSGD ESYQNRDLEK
301 VSQQVAKPLY DAKVKPTTLI PKQVGNMYTA SLYAAFASLL HSKHTELAGK
351 RVTLFSYGSG LTATMFSLRL HEGQHPFSLS NIASVMNVAG KLKARHELPP
401 EKFVNIMKLM EHRYGAKDFV RSKDCSLLAS GTYYLTEVDS LYRRFYAQKA
451 VGNTVENGLL ANGH
```

Spot No.: **D132 (S221)**

NCBI accession No.: **gi|357514973** Species: *Medicago truncatula*

PFF score: **[99]**

Protein name: **Annexin D4**

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: **K.LLVALVSAYR.Y;**

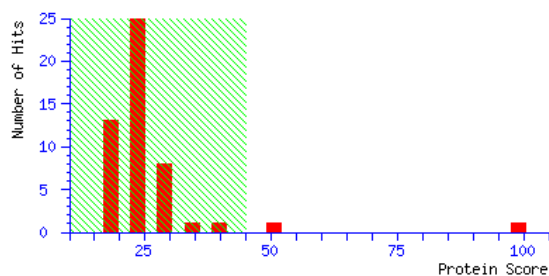
R.KLLVALVSAYR.Y

Calculated Mr: **36283**

Calculated pI: **8.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAFNQELEAI  TQAFSGHGVD  EKSLIAVLGK  WDPLERETYR  KKTSHFFIED
51  HERQFQRWND  HCVRLKHEF  VRFKNAVVLW  SMHPWERDAR  LAKEALKKGS
101 ISYGVLEIEA  CTRSSEELG  ARKAYHSLFD  HSIEEDVASH  IHGNDRKLLV
151 ALVSAYRYEG  TKVKDDTAKS  EAKTLSNAIK  NAQNKPIVED  DEVIRILATR
201 SKLHLQAVYK  HYKEISGKNL  EEDLNDLRFK  ETVQCLCTPQ  VYFSKVLDAE
251 LKNDVNKNIK  KSLTRVIVTR  ADIDMKEIKA  EYNNLYGVSL  PQKIEETAKG
301 NYKDFLLTLI  ARGG
```


Spot No.: **D133 (S222)**

NCBI accession No.: [gi|21536853](#) Species: *Arabidopsis thaliana*

PFF score: **[314]**

Protein name: **phosphoglycerate kinase, putative**

Matched peptides No.: **[6]** Sequence coverage %: **[17]**

Matched sequences: [K.YSLKPLVPR.L](#);

[K.ELDYLVGAVANPK.K](#);

[K.YLKPSVAGFLMQK.E + Oxidation \(M\)](#);

[K.GVSLLLPTDVVIADK.F](#);

[K.LAALADVYVNDAFGTAHR.A](#);

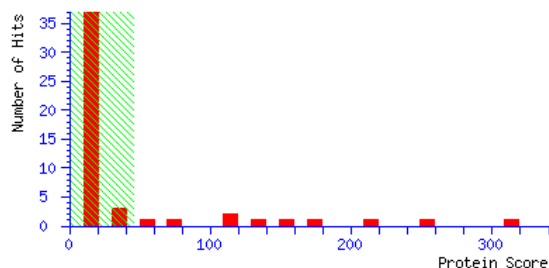
[K.KLAALADVYVNDAFGTAHR.A](#)

Calculated Mr: **42178**

Calculated pI: **5.49**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATKRSVGTI KEADLKGKSV FVRVDLNVPL DDNSNITDDT RIRAAVPTIK
51  YLMGNGSRVV LCSHLGRPKG VTPKYSLKPL VPRLSELLGV EVVMANDSIG
101 EEVQQLVAGL PEGGVLLLEN VRFYAEEEKN DPEFAKKLAA LADVYVNDAF
151 GTAHRAHAST EGVAKYLKPS VAGFLMQKEL DYLVGAVANP KKPFAAIVGG
201 SKVSTKIGVI ELLNTVDIL LLGGGMIFTF YKAQGLSVGS SLVEEDKLDL
251 AKSLMEKAKA KGVSLLLPTD VVIADKFAPD ANSKIVPATA IPDGWMGLDI
301 GPDSIKTFSE ALDTTKTIIW NGPMGVFEFD KFAAGTEAVA KQLAELSGKG
351 VTTIIGGGDS VAAVEKVGLA DKMSHISTGG GASLELIEGK PLPGVLALDE
401 A
```

Spot No.: **D134 (S223)**

NCBI accession No.: [gi|255547137](#) Species: *Ricinus communis*

PFF score: [77]

Protein name: [Alpha-1,4-glucan-protein synthase](#)

Matched peptides No.: [2] Sequence coverage %: [5]

Matched sequences: [K.DINALEQHIK.N](#);

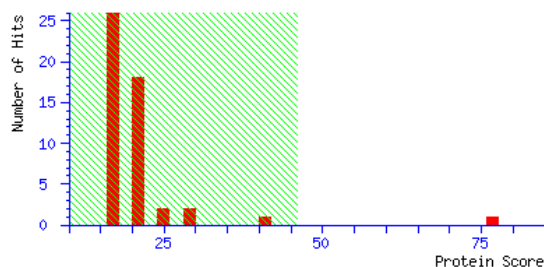
[K.VICDHLGFGVK.T](#)

Calculated Mr: **41557**

Calculated pI: **5.82**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MADFAAISPT  PLLKDELDIRV  IPTIRNLDFL  EMWRPFFQPY  HLIIVQDGDV
51  SKIIKVPEGF  DYELYNRNDI  NRILGPKASC  ISFKDSACRC  FGYMVSKKKY
101 IYTIDDDCFV  AKDPSGKDIN  ALEQHIKNLL  CPSTPFFFNT  LYDPYRTGAD
151 FVRGYPFSLR  EGVPTAVSHG  LWLNIPDYDA  PTQLVKPLER  NTRYVDAVMT
201 IPKGTLFPMC  GMNLAFNREL  IGPAMYFGLM  GDGQPIGRYD  DMWAGWCTKV
251 ICDHLGFGVK  TGLPYIYHSK  ASNPFVNLKK  EYKGIYWQEE  LIPFFQSAVL
301 PKECTTVQKC  YIELSKQVRA  KLGKIDEYFV  KLADAMVTWV  EAWDELNPSG
351 NSGELPNGAA  K
```

Spot No.: **D135 (S227)**

NCBI accession No.: [gi|333690873](#)

Species: *Hevea brasiliensis*

PFF score: **[386]**

Protein name: [glutathione-S-transferase tau 1](#)

Matched peptides No.: **[8]**

Sequence coverage %: **[29]**

Matched sequences: [R.FWADFIDK.K](#);

[K.VYEFVLVLK.K](#);

[R.FWADFIDKK.I](#);

[K.YEYREEDLR.N](#);

[K.SPFLPSDPYQR.A](#);

[K.SPLLLQMNPNVHK.K + Oxidation \(M\)](#);

[K.DKSPFLPSDPYQR.A](#);

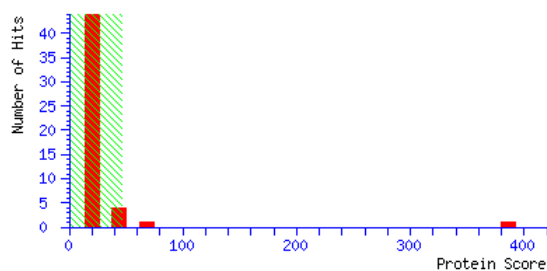
[K.ESVSESVPDPEKVYEFVLVLK.K](#)

Calculated Mr: **25595**

Calculated pI: **5.48**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVILLDF WSPSPFGMRVR IALAEKGVKY EYREEDLRNK SPLLLQMNPNV
51 HKKIPVLIHN GKPICESLIA VQYVDEVWKD KSPFLPSDPY QRAQARFWAD
101 FIDKKIYDIG RKIWTTKGDE QEAAKKEFIE ALKLELGE LG NKPYFGGESM
151 GYVDVALIPF YSWFYAYETC GNFSIEPECP VLIAWAKRCL QKESVSESVP
201 DPEKVYEFVL VLKKKFGIE
```

Spot No.: **D136 (S230)**

NCBI accession No.: [gi|2970051](#) Species: *Vigna radiata*

PFF score: **[104]**

Protein name: **ARG10**

Matched peptides No.: **[2]** Sequence coverage %: **[12]**

Matched sequences: [K.SANEVILVIEAYK.A](#);

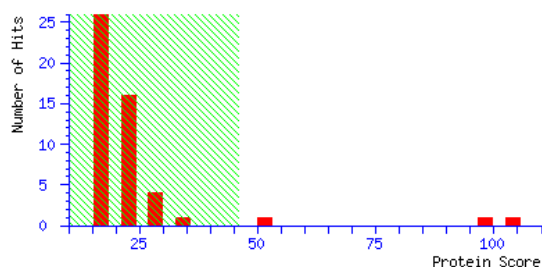
[K.ITAVPAEEEEIIWGATFK.V](#)

Calculated Mr: **25750**

Calculated pI: **5.62**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLGIFSSSVV  SPPEELVAAG  SRTSPKTTA  GKLLTRFVES  KASAVSLQVG
51  EHVQLAYTHH  SESPWYPRSF  AVKDEIFCLF  EGALDNLGSL  RQQYGLAKSA
101 NEVILVIEAY  KALRDRAPYP  ANRVVCHLSG  SFAFIVFDKS  TSTVAVASDQ
151  AGKVPLYWGI  TADGYVAFAD  DADLLKGSCG  KSLASFPQGC  FYSTAVGGLR
201  CYENPKNKIT  AVPAEEEEIIW  GATFKVEGSA  VLAATEY
```

Spot No.: **D137 (S231)**

NCBI accession No.: [gi|2832430](#)

Species: *Hevea brasiliensis*

PFF score: **[217]**

Protein name: [prohevein](#)

Matched peptides No.: **[2]**

Sequence coverage %: **[20]**

Matched sequences: [R.IVDQCSNGGLDLVNVFR.Q](#);

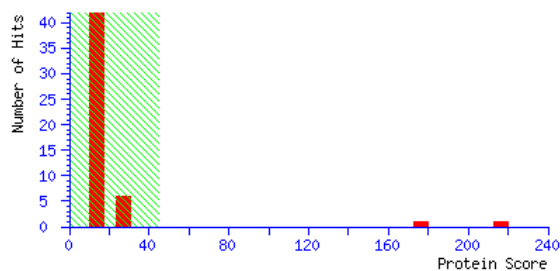
[K.YGWTAFCGPVGAHGQPSCGK.C](#)

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAAAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151  TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: **D138 (S233)**

NCBI accession No.: [gi|14423933](#)

Species: *Hevea brasiliensis*

PFF score: **[384]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[5]**

Sequence coverage %: **[36]**

Matched sequences: [K.AEQYAVITWR.A](#);

[R.VSSYLPLLPEK.I](#);

[K.QVSAQTYVAQDAPR.I](#);

[K.DISGPLKPGVDTIENVVK.T](#);

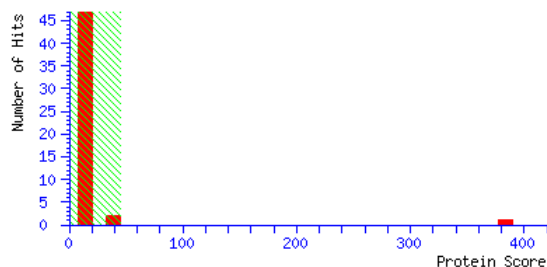
[R.IVLDVASSVNTGVQEGAK.A](#)

Calculated Mr: **22331**

Calculated pI: **4.80**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKIVVTPVY YIPLEAVKfV DKtVDVSVtS LDGvVPPvIK QVSAQTYVA
101 QDAPRIVLDV ASSVNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGtTEQg YRVSSYLPLL PTEKITKvFG
201 DEAS
```

Spot No.: **D139 (S234)**

NCBI accession No.: [gi|132270](#)

Species: *Hevea brasiliensis*

PFF score: **[379]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]**

Sequence coverage %: **[38]**

Matched sequences: [K.NVAVPLYNR.F](#);

[K.DASIQVVS AIR.A](#);

[K.FVDSTVVASVTI I DR.S](#);

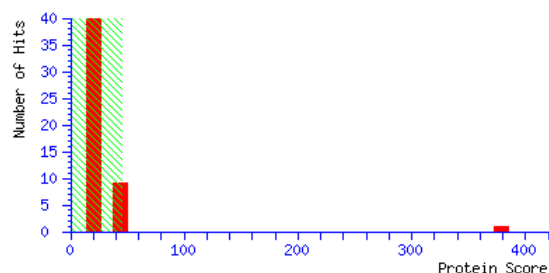
[K.DKSGPLQPGVDI I EGPVK.N](#)

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGLKYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **D140 (S238)**

NCBI accession No.: [gi|2832430](#)

Species: *Hevea brasiliensis*

PFF score: **[344]**

Protein name: [prohevein](#)

Matched peptides No.: **[3]**

Sequence coverage %: **[26]**

Matched sequences: [R.QLDTDGKGYER.G](#);

[R.IVDQCSNGGLDLVDNVFR.Q](#);

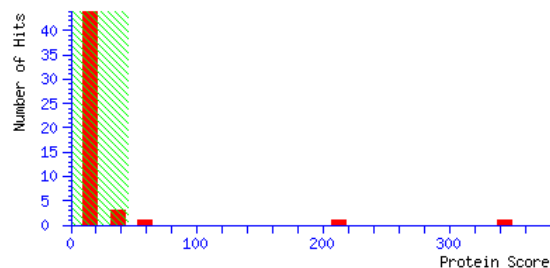
[K.YGWTAFCGPVGAHGQPSCGK.C](#)

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ  WGWCGSTDEY  CSPDHNCQSN  CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW  DLNAASAYCS  TWDANKPYSW  RSKYYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT  GTGAKATVRI  VDQCSNGGLD  LDVNVFRQLD
151 TDGKGYERGH  LTVNYQFVDC  GDSFNPLFSV  MKSSVIN
```


Spot No.: **D141 (S247)**

NCBI accession No.: **gi|123062** Species: *Hevea brasiliensis*

PFF score: **[158]**

Protein name: **Pro-hevein**

Matched peptides No.: **[2]** Sequence coverage %: **[11]**

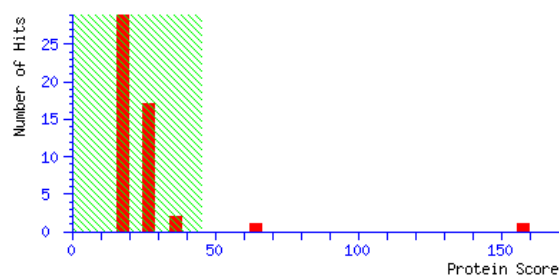
Matched sequences: **K.CLSVTNTGTGAK.T;**
R.QLDTDGKGYER.G

Calculated Mr: **22700**

Calculated pI: **5.63**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MNIFIVVLLC  LTGVAIAEQC  GRQAGGKLCP  NNLCCSQWGW  CGSTDEYCSP
51  DHNCQSNCKD  SGEGVGGGSA  SNVLATYHLY  NSQDHGWDLN  AASAYCSTWD
101 ANKPYSWRSK  YGWTAFCGPV  GAHGQSSCGK  CLSVTNTGTG  AKTTVRIVDQ
151 CSNGGLDLDV  NVERQLDTDG  KGYERGHITV  NYQFVDCGDS  FNPLFSVMKS
201 SVIN
```

Spot No.: **D142 (S249)**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[405]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[38]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.FVDSTVVASVTI DR.S;

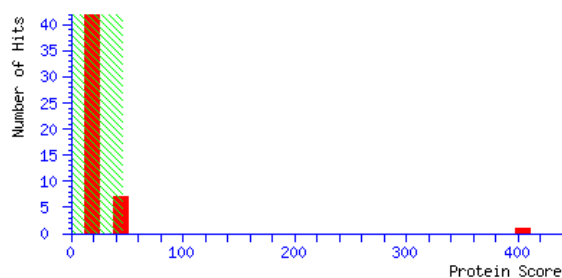
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QEGELKYLGF VQDAATYAVT TFSNVYLF AK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRF SY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **D143 (S251)**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[470]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[4]** Sequence coverage %: **[27]**

Matched sequences: **K.NVAVPLYNR.F;**

K.DASIQVVS AIR.A;

K.SGPLQPGVDIIEGPVK.N;

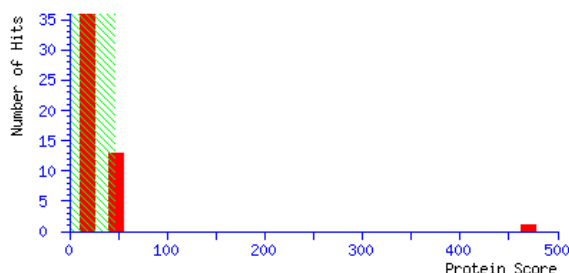
K.DKSGPLQPGVDIIEGPVK.N

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQGG QGEGCLKYLGF VQDAATYAVI TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Supplementary Figure S4

Identification of ethylene responsive latex proteins by iTRAQ

1. Labeled samples:

117: E3TL (total latex)

116: E5TL

115: D3TL

114: D5TL

Needed values: 117: 115= E3TL: D3TL

116: 114= E5TL: D5TL

2.

14. Details of All Protein Summary for Rubber Latex _iTRAQ 4 plex

The 405 different proteins identified by ITRAQ.

Protein No.: I-2

Protein name and Species:

Beta-1,3-glucanase form 'RRII Gln 2' OS=Hevea brasiliensis

PE=3 SV=1

Accession: Tr|D1M8S7|D1M8S7_HEVBR

Unused ProtScore: 66.5

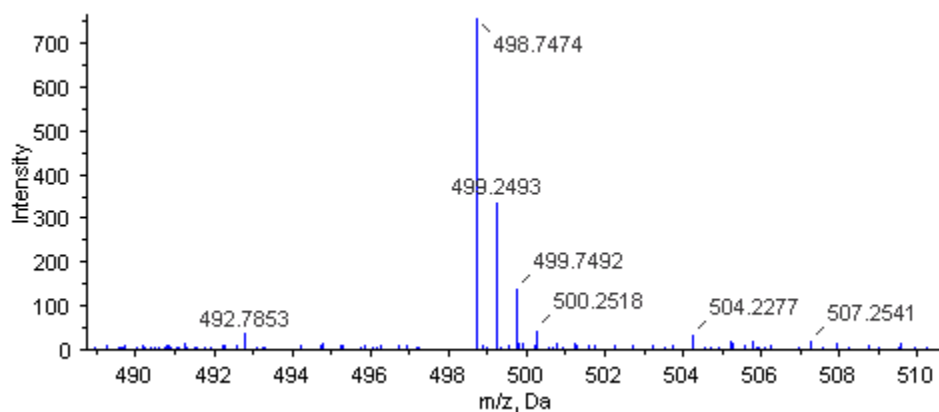
Seq Cov %: 67.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.38

116: 114=E5TL: D5TL=0.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAICSSTSGTSSSLPSRTTVMLLLFFFTASVGIITDAQVGVGYGMQGNLPPVSEVIALYKKSNIITRMRI
YDPNQAVLEALRGSNIELILGVPNSDLQSLTNPSNAKSWVQKNVRGFWSSVRFRIYIAGNEISPVNRGT
AWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILDLTLVGN SYPPSAGAFRDDVRSYLNPIIRFLSSIRS
PLLANIYPYFTYAGNPRDISLPYALFTSPSVVWDGQRGYKNLFDATLDALYSALERASGGSEVWVSE
SGWPSAGAF AATFDNGR TYLSNLIQHVKRGTPKRPKRAIET YLFAMFDENK KQPEVEK HFGLFFPNK WQ
KYNLNFSAEKNWDISTEHNATILFLKSDM

Protein No.: I-5

Protein name and Species:

Major latex allergen Hev b 5 OS=Hevea brasiliensis PE=1 SV=3

Accession:

sp|Q39967|ALL5_HEVBR

Unused ProtScore: 58.21

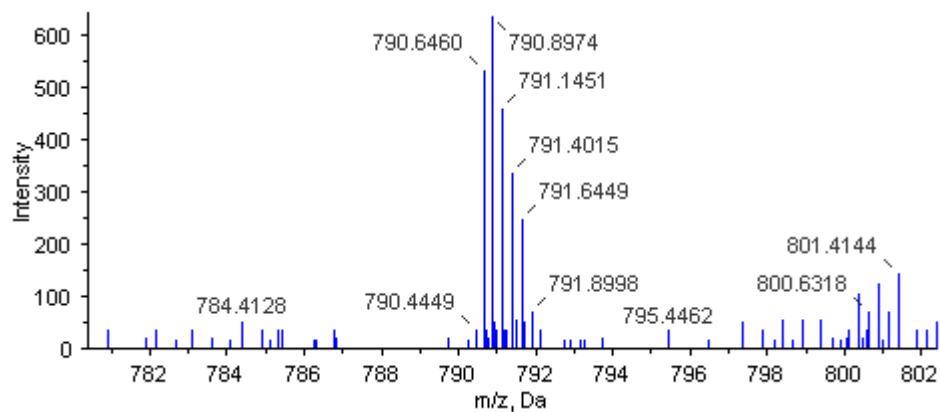
Seq Cov %: 95.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.25

116: 114=E5TL: D5TL=1.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASVEVESAAALPKNETPEVTKAEETKTEEPAAPPASEQETADATPEKEEPTAAPAEPEAPAPETEKAE
EEVEKIEKTEEPAPEADQTTPEEKPAEPEPVAAEEPKHETKETETEAPAAPAEGEKPAEEKPI TEAAE
TATTEVPVEKTEE

Protein No.: I-7

Protein name and Species:

Latex allergen hev b 7.02 (Fragment) OS=Hevea brasiliensis

PE=2 SV=1

Accession: tr|Q706V4|Q706V4_HEVBR

Unused ProtScore: 54.77

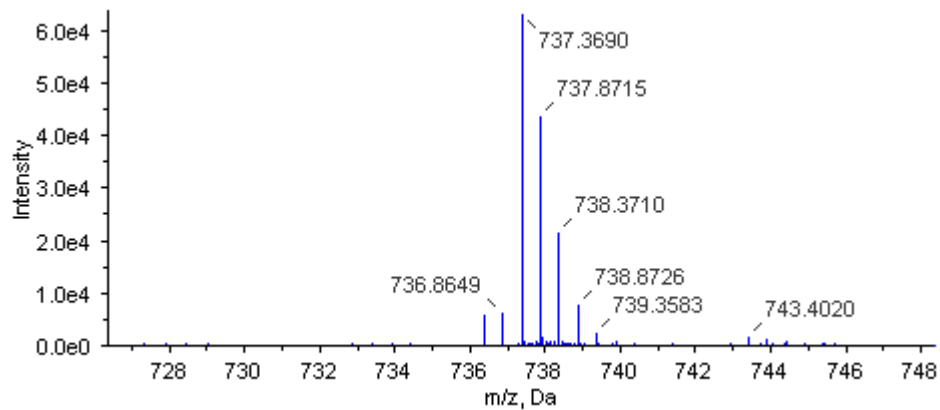
Seq Cov %: 71.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.33

116: 114=E5TL: D5TL=0.30

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

ATGSTTLTQGKKITVLSIDGGGIRGIIPGIILASLESKLQDL DGP DARIADYFDIIAGTSTGGLITTML
TAPNEDKKPMYQAKDIKDFYLENCPKIFPKESRDNYDPIHSIGPIYDGEYLRELCNNLLKDLTVKDTLT
DVIIPTFDIKLLL PVIFSSDDAKCNALKNARLADVCISTSAAPVLLPAHSFTTEDDKNIHTFELIDGGV
AATNPTLLALTHIRNEIIRQNPRFIGANL TESKSRVLVLSLGTGKSEYKEKYNADMTSKWRLYNWALYNG
NSPAVDIFSNASSDMVDFHLSALFKSLDCEDYYLRIQDDTLTGEESGHIATEENLQRLVEIGTRLLEK
QESRINLDTGRLESIPGASTNEAAITKFAKLLSEERKLRQLK

Protein No.: I-10

Protein name and Species:

Actin OS=Morus alba PE=3 SV=2

Accession:

tr|E5FR85|E5FR85_MORAL

Unused ProtScore: 44.55

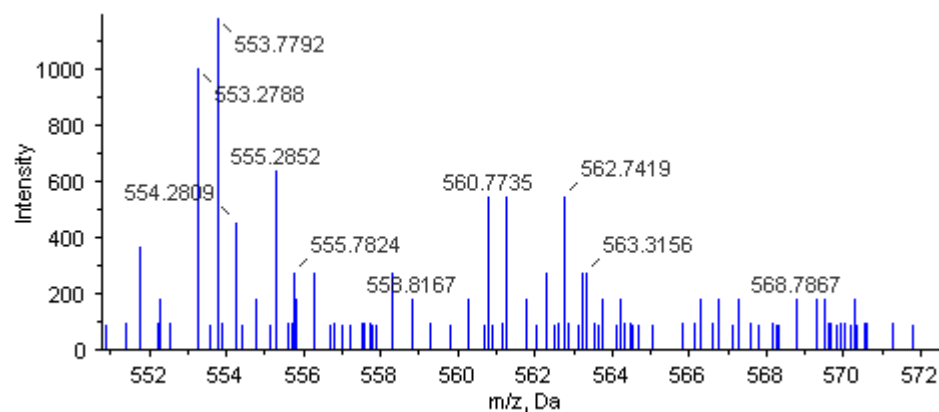
Seq Cov %: 56.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.39

116: 114=E5TL: D5TL=0.75

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADAEDIQPLVCDN**GTGMVKAGFAGDDAPRAVFP**SI**VG**RP**RHTGVMVGMGQ**DAY**VGDEAQS**K**RGILTL**
KYPIEHGIVSNWDDMEKI**WHHTFYNELRVAPEEHPVLLTEAPLNPK**ANREKMTQIMFETFNVPAMYVAI
QAVLSLYASGR**TTGIVLDSGDGVSH**TVPIYEGYALPHAILR**LDLAGRDLTDALMKILTERGYMFTTTAE**
REIVRDMKGKLAYVALDYEQELETAKSGSSVEK**NYELPDGQVITIGAERYR**CPQVLFQPSLIGMEAAGI
HETTYNSIMK**CDVDIRKDLYGNIVLSGGSTMFP**GIAD**MSKEITALAPSSMKIKVAPPERK**YSVWIGG
SILASLSTFQQMWISK**GEYDESGPSIVHR**KCF

Protein No.: I-11

Protein name and Species:

Heat shock protein OS=Hevea brasiliensis PE=2 SV=1

Accession: [tr|Q71EE1|Q71EE1_HEVBR](#)

Unused ProtScore: 43.62

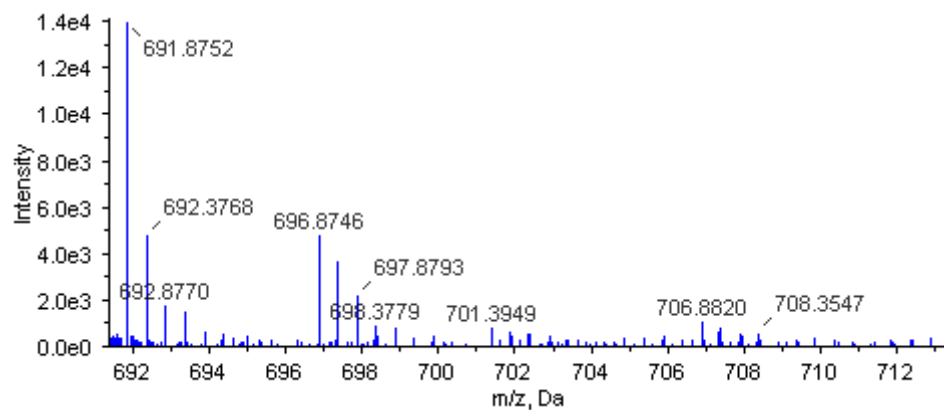
Seq Cov %: 38.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.58

116: 114=E5TL: D5TL=1.42

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADAETFAFQAEINQLLSLIINTFYSNK**EIFLR****EIISNASDALDKIR****FESLTDK****SKLDAQPEL****FIRLVP**
DKANK**TL****SI****IDS****GIGMTKADLVN****LG****TIAR**SGTKEFMEALQAGADVSMIGQFGVGFYSAYLVAEKVIVT
TKHNDDEQYIWESQAGGSFTVTRDVNGDQLGRGTK**ITLFLKEDQLEYLEER****RIKDLVKKHSEFISYPIY**
LWTEKTTEKEISDDEDEPKKEEEGD**VEDVDEEK**ETKSKKKKIKEVSHWQLINK**QKPIWLR**KPEEITK
EEYASFYKSLTNDWEDHLAVKHFSVEGQLEFK**AILFVPK****RAPFDLFDTRKK**MSNIKLYVRR**VFIMDNCE**
ELIPEYLG**FVKG****VVDS****DDLPLNISR**EMLQQNKILKVIRKNLVKK**CIEMFNEIAENK**EDYNK**FYEAFSKN**
LKLGIHEDSQNR**AKLADLLR****YHSTK****SGDEMTSLKDYVTR**MK**EGQK**DIYYITGESK**KAVENSPFLER**LKK
KGYEVLFMVDAID~~EYAVG~~**QLKEYD****GKKLV****SATKEGLK****LDDETEEEK**KKKKEEKK**SFENLCKTIK****DILGD**
KVEKVVVSDR**IVDSPCCLVTGEYGWTANMER**IMKAQALRDSSMSSYMSSK**KTMEINPDNVIVEELR**KRA
EADKNDKSVKDLVLLLFETALLTSGFSLDDPNTFSARIHRMLK**LGLSIDDETAGDDADMPALEEDGAE**
ESKMEEVD

Protein No.: I-12

Protein name and Species:

**50 kDa protein; Major latex allergen Hev b 4 OS=Hevea
brasiliensis PE=2 SV=1**

Accession: tr|Q5VLJ6|Q5VLJ6_HEVBR

Unused ProtScore: 42.03

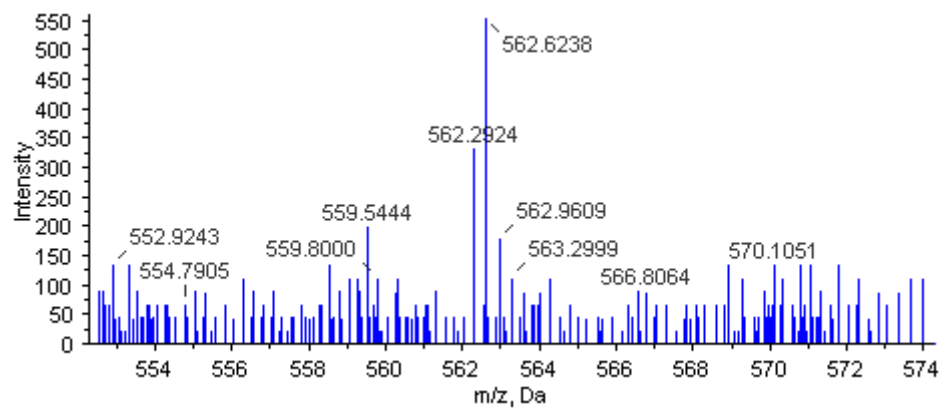
Seq Cov %: 35.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.46

116: 114=E5TL: D5TL=0.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAGKGEPAIGIDLGTTYSCVGVWQHDRV**VEIIANDQGNRTTPSYVGF**TDTER**LIGDAAKNQVAMNP**INT
VFDAKRLIGR**RFTDASVQSDIK**LWPFKVFSGPGDKPMIQVNYKGEDK**QFSAEEISSMVL**MK**MR**EIAEAY
LGTTVKNAVVTV**PAYFNDSQR**QATK**DAGVIAGL**NVMRI**INEPTAAAIAYGLD**KKATSVGEKNVLI**FDLG**
GGTFDVSLLTIEEGIFEVK**ATAGDTHLGGEDFDNRMVNH**FV**QEFK**RKNK**KDISGNPRALRR**LRTACERA
KRTLSSSTAQTTIEIDSLYEGIDFYSTITR**ARFEELNMDLFR**K**CMEPVEK**CLRDAKMDKR**TVHDVVLVGG**
STRIPK**VQQLLQDF**FNGKELCK**SINPDEAVAYGAAVQAAIL**SGEGNEK**VQDLLLLDVTPL**SLG**LETAGG**
VMTVLIPRNTTIPTK**EQVFSTYSDNQPGVLIQVY**EGERT**TRTRDNNLLGK**FELSGIPPAPRGVPQITVC
FDIDANGILNVSAEDKTTGQKNK**ITITNDKGR**LSKEEIEKM**VQEA**EKYKSEDEEHKKKVEAK**NALENYA**
YNMRNTVKDEKIGGKLDPADKKKIEDAVEQTIQWLDSNQLGEADEFEDK**MKELESICNPIIAK**MYQ**GGA**
GPD**MGGG**MDDV**PAGGS**GAGPKIEEVD

Protein No.: I-13

Protein name and Species:

Acetyl-CoA C-acetyltransferase OS=Hevea brasiliensis

GN=HbAACT PE=2 SV=1

Accession: [tr|A9ZMZ4|A9ZMZ4_HEVBR](#)

Unused ProtScore: 41.88

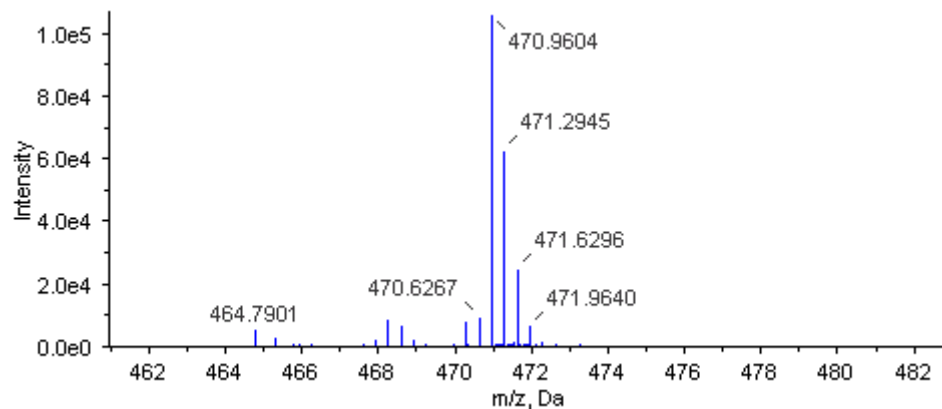
Seq Cov %: 76

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.45

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPVAAAEIKPRDVCIVGVARTPMGGFLGLLSTLPATKLGSIIEAALKRASVDPSLVQEVEFFGNVLSA
NLGQAPARQAALGAGIPNSVVCTTVNKVCASGMKATMLAAQSIQLGINDVVVAGGMESMSNAPKYLAEA
RKGSR LGHDSLVDGMLKDGLWDVYNDVGMGSCAEICADNHSITREDQDKFAIHSFERGIAAQESGAFW
EIVPVEVSGGRGKPLTIVDKDEGLGKFDPVKLRKLRPSFKENGGTVTASNASSISDGAALILVSGETA
LKLGLQVIAKIRGYADAAQAPELFTTAPALAIPTIANAGLDASQVDYIEINEAFVVALANQKLLGLN
PEKVN VHGGAVSLGHPLGCSGARILVTL LGVLRKKNAYGVGGVCNNGGGASALVVELL

Protein No.: I-15

Protein name and Species:

Enolase 1 OS=Hevea brasiliensis GN=ENO1 PE=1 SV=1

Accession: [sp|Q9LEJ0|ENO1_HEVBR](#)

Unused ProtScore: 39.75

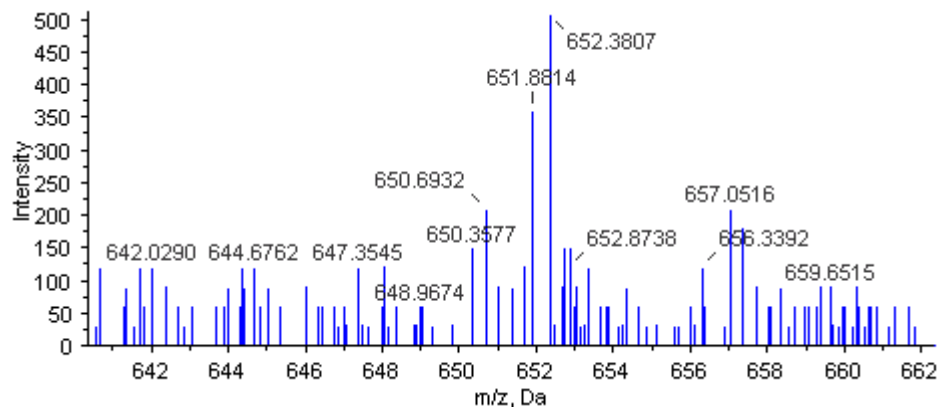
Seq Cov %: 45.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.30

116: 114=E5TL: D5TL=0.37

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAVPSGASTGIYEALELRDGGSDYLKGVSKAVE
NVNIIIGPALVGKDPDQVGDIDNFMVQQLDGTVNEWGWCKQKLGANA ILAVSLAVCKAGAHVKGIPLYE
HIANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPVGASSFK EAMKMGAEVYHHLKSVIKK KYG
QDATNVGDEGGFAPNIQENKEGLELLKTAIAKAGYTGKVVIGMDVAASEFYGSDQTYDLNFK EENNNGS
QKISGEALKDLYKSFVAEYPIVSIEDPFDQDDWAHYAKLTSEIGEKVQIVGDDLLVTNPKRVEKAIKEK
ACNALLKVNQIGSVTESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERL
AKYNQLLRIEEELGSEAVYAGANFRKPVEPY

Protein No.: I-17

Protein name and Species:

Latex-abundant protein; caspase; type II metacaspase [Hevea brasiliensis] OS=Hevea brasiliensis GN=LAR PE=2 SV=1

Accession: [tr|Q9ZSP8|Q9ZSP8_HEVBR](#)

Unused ProtScore: 37.25

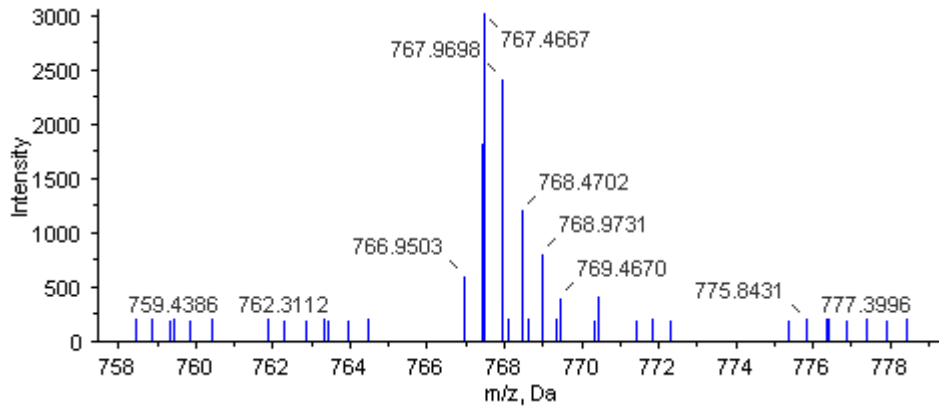
Seq Cov %: 65.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.30

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKKAVLIGINYPGTKAELKGCINDVKRMYRCLVDRYGFSEEDITVLIDIDESYIQPTGKNIRRVLTDL
 VRS AEPGDL L FVHYSGHGTRLPAETGEDDDTGDFDECIVPCDMNLITDDDFREFVDQVPHGCRITVVS
 CHSGGLIDEAKEQIGESTKRKEESESSESGFGFKSFLKQTIQDAFESRGVHLPSDLHHHHGHRDEEDFDNR
 VVEEDYGDSGYVKSLSLPLSTLIEILKQKTKGDDIDVVKLRPTLFDMFGDDASPKVKKFMKVILNKLRLH
 GDGESGGGGFLGMVGS LAQEF LKHKL DENDES YVKPALETEVDSKQEVYAGKTKRSLPDGGILISGCQT
 DQTSADASPSGKSSEAYGALSNAIQTIIAETDGAVTNQELVLKARKMLKKQGF TQK PGLYCSDDHVEAS
 FVC

Protein No.: I-18

Protein name and Species:

Mevalonate disphosphate decarboxylase OS=Hevea brasiliensis

PE=2 SV=1

Accession: [tr|Q944G0|Q944G0_HEVBR](#)

Unused ProtScore: 34.69

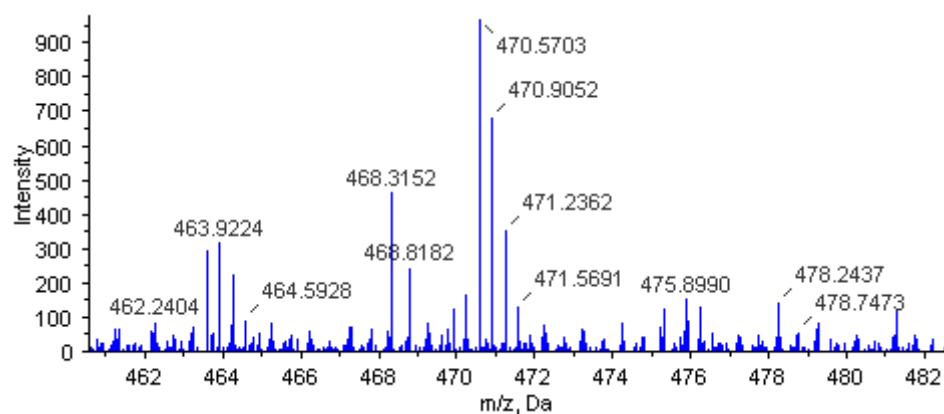
Seq Cov %: 43.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.49

116: 114=E5TL: D5TL=0.35

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAESWVIMVTAQTPNIAVIK YWGKRDEKLILPVNDSISVTLDPAHLCTTTTVAVSPSFAQDRMWLNGK
EISLSGGRYQNCLR EIRARACDVEDKERGIKISKDWEKLYVHIASYNFPPTAAGLASSAAGFACLVFA
LAKLMNAKEDNSELSAIARQSGSACRSLFGGFVKWKMGKVEDGSDSLAVQVVEKHWDDLVI I IAVVS
SRQKETSSTTGMR ETVETSLLLQHR AKEIVPKRIVQMEESIKNRNFASF AHLTCADSNQFHAVCMDTCP
PIFYMNDTSHRIISCVEK WNR SVGTPQVAYTFDAGPNAVLIAHNRKAAAQLLQKLLFYFPPNSDTELNS
YVLGDKSILKDAGIEDLKDVEALPPPPEIKDAPRYKGDVSYFICTRPGQGPVLLSDESQALLSPETGLP
K

Protein No.: I-19

Protein name and Species:

glyceraldehyde-3-phosphate dehydrogenase, NADP-dependent

OS=Pisum sativum GN=GAPN PE=1 SV=1

Accession: [sp|P81406|GAPN_PEA](#)

Unused ProtScore: 32.73

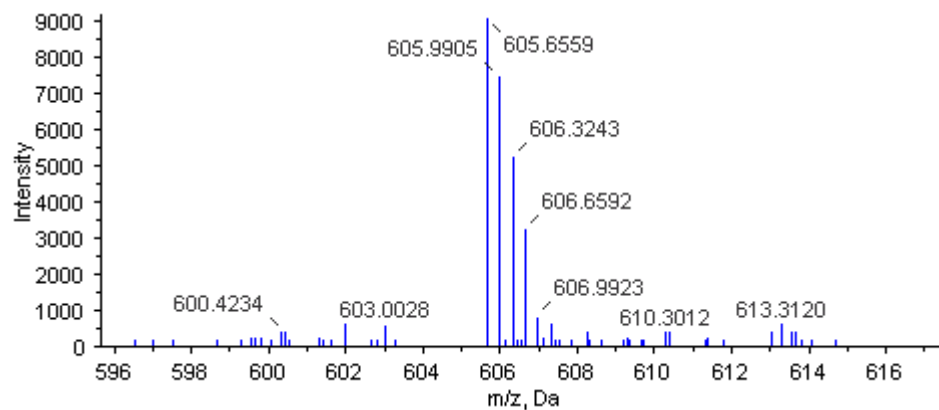
Seq Cov %: 46.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.50

116: 114=E5TL: D5TL=0.77

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAATGVLAEEIIDGDVYKYYADGEWKK**STSGKSVAILNPTR**KPQYK**VQACSQEEVNK**VMDSAKSAQKSW
AKTPLWK**RAELLHKAAAILK**EHK**AAIAECLVKEIAKPAKDAVTEVVR**SGDLVSYCAEEGVR**ILGEGKFL**
VSDSFPGNERTKYCLTSK**IPLGVILAIPPFNYPVNLAVSK**IAPALIAGNSIVLKPPTQGAVAALHMVHC
FHLAGFPK**GLISCVTGKGSEIGDFLTMHPGVNCISFTGGDTGIAISK**SGMIPLQ**MELGGKD**ACIVLED
ADLDLVAANIIKGGFSYS**SGQR**CTAVK**VVLVMESVADALVEK**VKVKVAKLSVGPPEDSDITPVVSESSA
NFIEGLVND**AK****EKGATFCQ**EYKR**EGNLIWPLLLDNVRPDMR****I**AWE**EPFGPVL**PVIRINS**VEEGIHHCNA**
SNFGLQGCVFTK**D**INKAIMISDAMES**GT**Q**INSAPAR**GPDH**FPFQGIKDSGIGS**QGITNS**INMMTK**VKT
TVINL**PSPSYTMG**

Protein No.: I-22

Protein name and Species:

**Hydroxymethylglutaryl coenzyme A synthase OS=Hevea
brasiliensis PE=2 SV=1**

Accession: tr|Q944F8|Q944F8_HEVBR

Unused ProtScore: 31.1

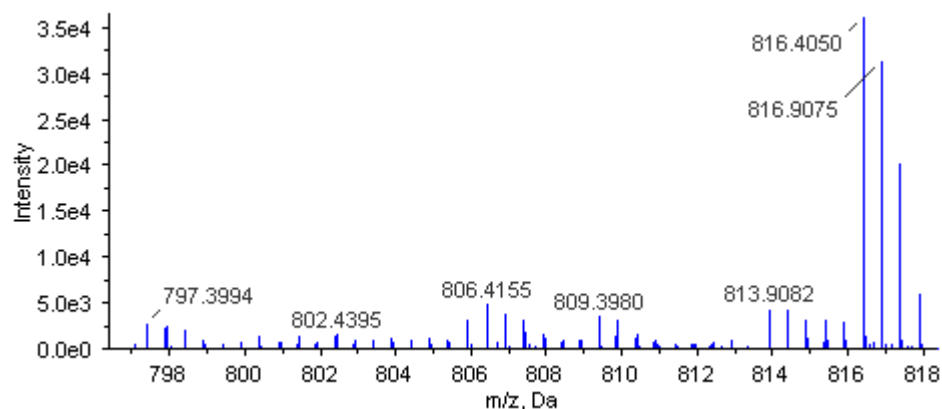
Seq Cov %: 42.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.19

116: 114=E5TL: D5TL=0.44

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKNVGI~~LAVDIYFPPTFVQQEAL~~EAH**DGASK**GKYTI~~GLGQDCMAFCTEVEDVISMSLTAVT~~SLLDK**YN**
IDPKQIGR**LEVGETVIDK**SK**SIK****TFLMQIFEK**FGNTDIEGVDSTNACYGGTAALFNCVNWVESSWDG
RYGLVVCTDSAVYAEGPARPTGGAAAIAILVGPDAPIAFESKFRGSHMSHAYDFYK**PNLASEYPVVDGK**
LSQTCYLMALDSCYKH**CAK**YEKFEKGQFSISDAEYFVFHSPYNKLVQKSFAR**LVFNDFVRNASSIDET**
AKEKLAPFSNLSGDESYQNRDLEKVSQQVAKPLYDAKVKPTTLIPKQVGNMYTASLYAAFASLLHSK**HT**
ELAGKRVTLFSYGSGLTATMFSLRL**HEGQHPF**SLSNIASVMNVAGK**LKAR****HELPPEKFVDIMK**LMEHRY
GAK**DFVTSKDCSLLASGTYYLTEVDSL**YR**RFYAQK**AVGNTVENGLLANGH

Protein No.: I-23

Protein name and Species:

Methyl transferase;

5-methyltetrahydropteroyltriglutamate-homocysteine

methyltransferase, putative OS=Ricinus communis

GN=RCOM_1321820 PE=3 SV=1

Accession: tr|B9SI90|B9SI90_RICCO

Unused ProtScore: 30.18

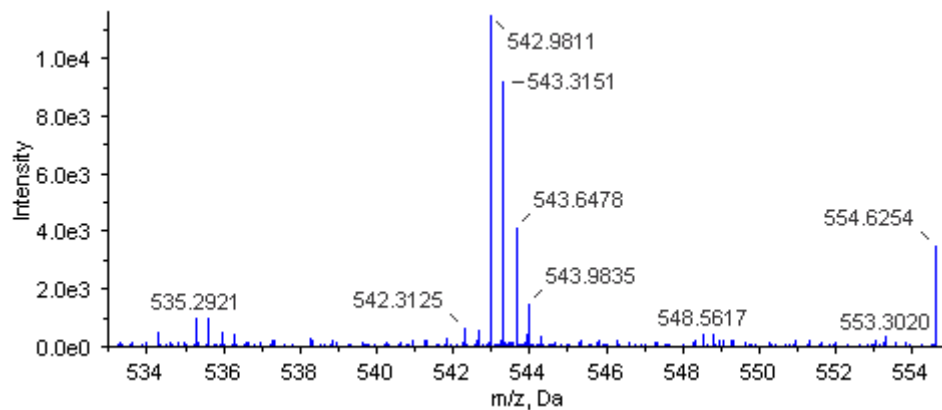
Seq Cov %: 25.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.17

116: 114=E5TL: D5TL=1.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASHIVGYPRMGPKRELKFALESFWDGKSSAQDLEKVASDLRESIWKQMAAAGIKHIPSNTFSSYYDQVL
DTTAMLGAVPPRYGWNNGEIGFDTYFSMARGNASVPAMEMTKWFDNTNYHFIVPELGPDVNF~~SYASHK~~AV
TEYKEAKAHGVDTVPVVLVGPVSYLLLSKPAKGVVEKTF~~SLLSLLGKILPVYKEVISELKAAGASWIQFDE~~
PTLVLDLDSHKLQAF~~TDAYSELESTLSGLNVLIETYFADIPAEAFKTLTSLKGV~~TAYGF~~DLVR~~GTK~~TLD~~
~~LIK~~SEFPKGGK~~YLFAGVVDGR~~NIWANDLAASLTILHELEGIVGDKLVVSTSSSLHTAVDLVNETKLDK
ELK~~SWLAFAAQKIVEVNALAKALAGEKDEAFFSANAAAQASR~~KSSPRVTNEAVQKAAAAALKGSDHRRAT
NVSARLDAQQK~~KLNLPILP~~TTTTIGSF~~PQTIELR~~RVRREYKAKKVSEDDYVKAIKEEISKVVKLQEELDI
DVLVHGEPERNMVEYFGEQLSGFAFTVNGWVQSYGSR~~CVKPP~~IIYGDVSRPNPMTVFWSSTAQSMTAR
PMK~~GMLTGPVTILNWSFVR~~NDQPRFETCYQIALAIKDE~~VEDLEK~~AGINVIQIDEAALREGLPLRKSEQA
FYLDWAVHSFRITNVGVQDTTQIHTHMCYSNFNDIHSIIDMDADVITIENSRSDEK~~LLSVFR~~EGVK~~YG~~
~~AGIGPGVYDIHSPRIPSTEEIADR~~INKMLAVLEM~~NILWVNPDCGLK~~TRK~~YSEVKPALS~~NMVAAAKLLRT
QLASAK

Protein No.: I-24

Protein name and Species:

ATP-citrate synthase, putative OS=Ricinus communis

GN=RCOM_1000580 PE=4 SV=1

Accession: tr|B9RZR0|B9RZR0_RICCO

Unused ProtScore: 30.15

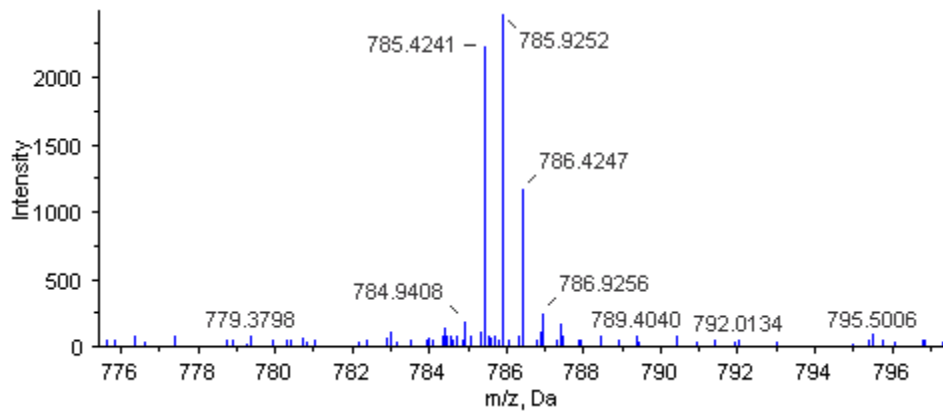
Seq Cov %: 42

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.31

116: 114=E5TL: D5TL=0.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATGQLFSR**TTQALFYNYKQLPIQRMLDFDFLCGRETPSVAGIINPGSEGFQK**LFFGQEEIAIPVHSAI
EAACAAHPTADVFINFASFR**SAAASSMAALKQPTIRVVAIIAEGVPESDTKQLIAYAR**ANNK**VVIGPAT**
VGGIQAGAFKIGDTAGTIDNIIACKLYRPGSVGFVSKSGGMSNELYNTIARVTDGIYEGIAIGGDVFPG
STLSDHVLRR**FNNIPQVKMIVVLGELGGRDEYSLVEALKQGKVNKPVVAWVSGTCARL**FK**SEVQFGHAGA**
KSGGEMESAQAKNQALKDAGAVVPTS YEAFETAIKETFQKLVEEGKITPVK**EVKPPQIPEDLNTAIK**SG
KVR**APTHIISTISDDRGE**EP**CYAGVPM**SSIVEQGYGVDVISLLWFKRSLPRYCTHFIEICIMLCADHG
PCVSGAHNTIVTARAGK**DLVSSLVSGLLTIGPRF**GG**AIDDAAR**YFKDAYDR**GLAPYEFVESMK**KKGIRV
PGIGHRIKRGDNRDK**RVELLQR**F**ARTHFP**SVK**YMEYAVEVETYTL**SKANNLVLNVDGAIGSLFLDLLAG
SGMFTKQEIDEIVEIGYLNGLFVLARSIGLIGNRSE

Protein No.: I-25

Protein name and Species:

Phosphofructokinase, putative OS=Ricinus communis

GN=RCOM_1602260 PE=4 SV=1

Accession: tr|B9R8U5|B9R8U5_RICCO

Unused ProtScore: 29.94

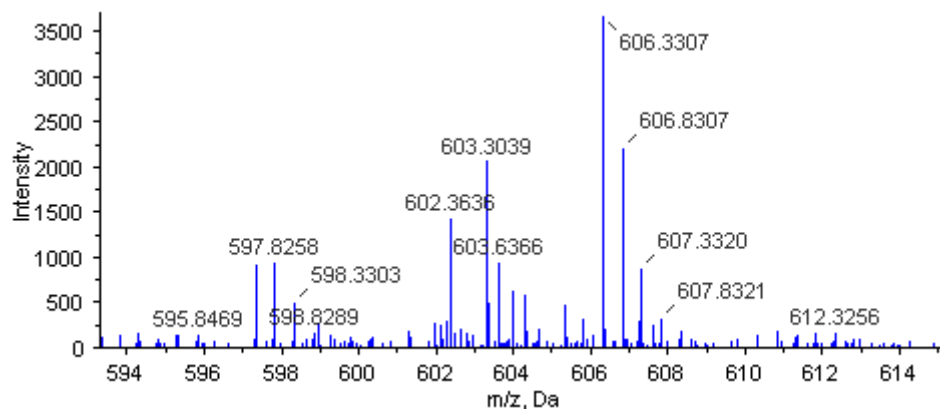
Seq Cov %: 42.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.34

116: 114=E5TL: D5TL=0.36

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDSDFGIPRELSDDLQKLRSLYQPELPPCLQGTTVRVELGDGTTAADEAGAHTISRSPHPTYGQPLAHFL
RATAKVADAHIISEHPAMRVGVVFCGRQSPGGHNVVWGLHNAKLIHNPNSTLLGFLGGSEGLFAQKMLE
VTDDILSTYKNQGGYDLLGRTKDQIRTEQVHAALTTCKNLKLDGLVIIGVTSNTDAAQLAETFAEAK
CPTKVVGVVPTLNGDLKNQFVETNVGFDTICKVNSQLISNVCTDALSAEKYYYFIRLMGRKASHVALEC
TLQSHPNMVILGEEVAASKLTLFDLTKQVCDAVQARAEQDKYHGVILLPEGLIESIPEVYALLKEIHGL
LRQGVSPNNISSQLSPWASALFEFLPPFIKKQLLLYPESDDSAQLSQIETEKLLAHLVEAEMNKRLKEG
TYKGKKFNAICHFFGYQARGSLPSKFDYAYVLGHICYHVLAAGLNGYMATATNLKNPVNKWRCGAAP
IAAMMTVKRWAQNPGATSIGKPAIHAAVDLKGKAYELLRLNAVKFLMDDLRYRNPGLQFEGPGADAKP
ITLCVEDQDYMGRIKKLQEYLDKVRITIVKPGCSQEVLKAAALSVMASVTDVLLTMSSTSLDGQRPL

Protein No.: I-27

Protein name and Species:

14-3-3 protein 2 OS=Hevea brasiliensis PE=2 SV=1

Accession: [tr|F2YZ43|F2YZ43_HEVBR](#)

Unused ProtScore: 27.55

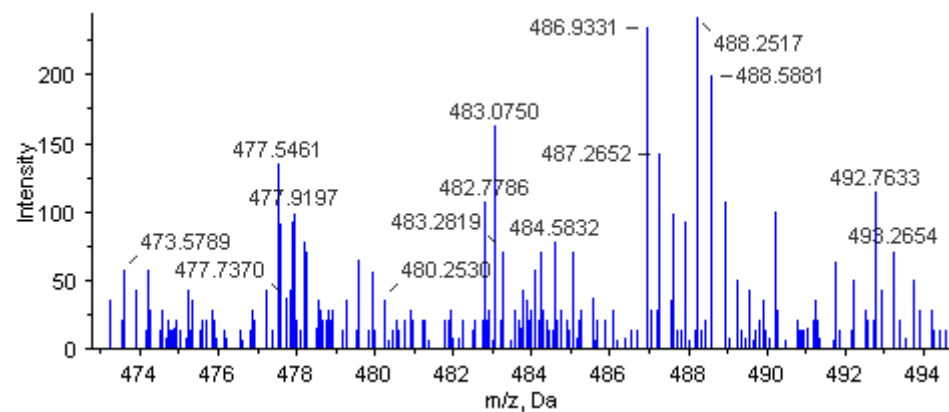
Seq Cov %: 51.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.53

116: 114=E5TL: D5TL=0.86

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSPT~~ESSR~~EENVYMAKLAEQAERYEEMVEFMEKVAKTVDVEELTVEERNLLSVAYKNVIGARRASWR~~II~~
SSIEQKEESRGNEDHVTIIKEYR~~GKIESEL~~SKICDGI~~LSL~~LESHLIPSASSA~~ESK~~VFYLKMKGDYHRYL
AEFKTAGERKEAAESTLLAYKSAQDIALADLAPTHPIRLGLALNFSVFYYEILNSPDRACNLAKQAFDE
AISELDTLGEESYKDSTLIMQLLRDNLTLWTS~~DIT~~DEAGDEIK~~EASK~~RESGEGQPQQ

Protein No.: I-28

Protein name and Species:

RAB2A OS=Lotus japonicus GN=rab2A PE=2 SV=1

Accession: tr|Q40208|Q40208_LOTJA

Unused ProtScore: 27.3

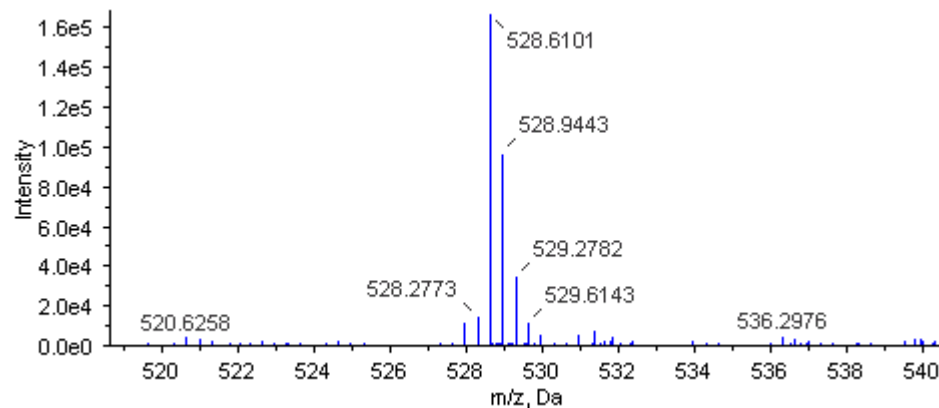
Seq Cov %: 65.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.38

116: 114=E5TL: D5TL=0.39

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSYAYLFKYIIIGDTGVGKSCLLLQFTDKRFQPVHDLTI GVEFGARMITIDNKP IKLQIWDTAGQESFR
SITRSYYRGAAGALLVYDITRRETFNHLASWLEDARQHANANMTIMLIGNKCDLAHRR AVSTEEGEQFA
KEHGLIFMEASAKTAQNVEEAFIKTAATIYKKIQDGVFDVSNESYGIKVG YGGIPGPSGGRDGPSASAG
GCCS

Protein No.: I-30

Protein name and Species:

Elicitor-responsive protein OS=Hevea brasiliensis GN=ERP

PE=2 SV=1

Accession: [tr|F8SKC5|F8SKC5_HEVBR](#)

Unused ProtScore: 27.13

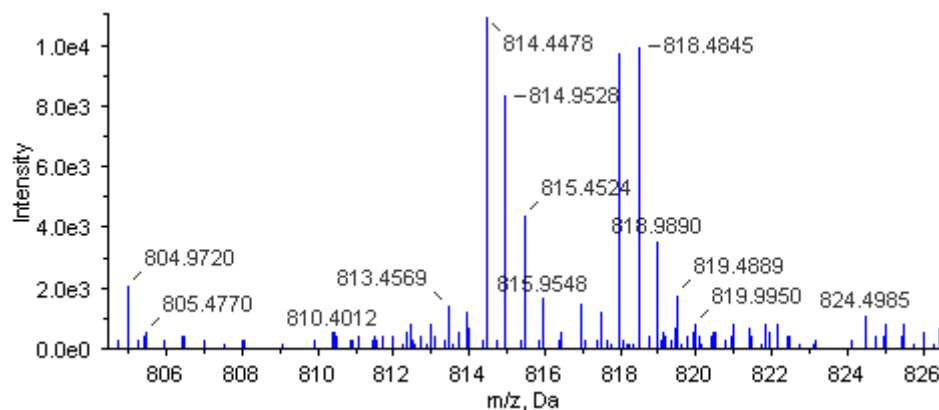
Seq Cov %: 90

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.33

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPLGTVEVLLVGAKGLENTDFLNGVDPYVVLACR**TQE**QKSSVASGKGSPEWNEKFSFEVSDGDTLTL
KIMSDVGAADDFVGEATIPLEPLFLEGNLPSTAYK**VVKEQEYK**GEITVGLTFTPEVEMDNVGVGDYDF
RL

Protein No.: I-31

Protein name and Species:

phospholipase D alpha 1-like [Glycine max] OS=Glycine max

PE=2 SV=1

Accession:

tr|C6TEK4|C6TEK4_SOYBN

Unused ProtScore: 27.02

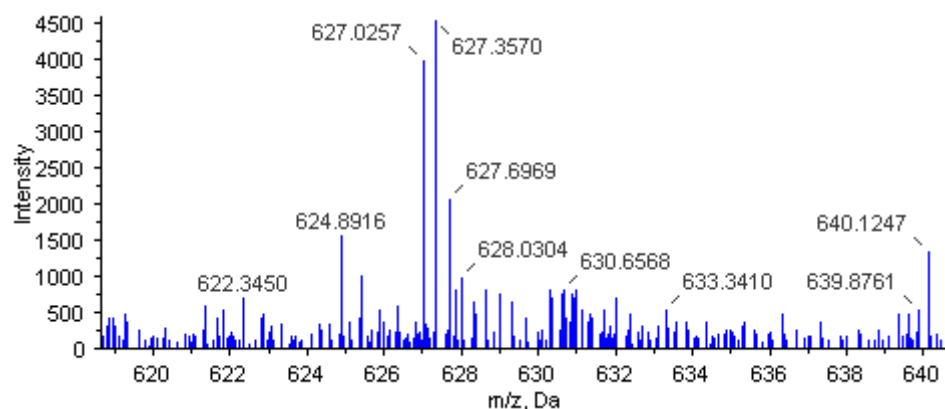
Seq Cov %: 37.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.60

116: 114=E5TL: D5TL=1.32

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATEHEDDFKDEK**NPRPLDEDDIALLK**TYGLGPYSTSIK**KAEKEIKEMAKK**VNDLC**GIK**ESDTGLAAPS
QWDLVSDK**QMMQEEQPLQVAR**CTKIINPNSEDAKYV**INVKQ**IAK**FVVGLGDK**VSPDIEEGMRVGVDRN
KYQIQIPLPPK**IDPSVTMMTVEEKP**DVTYNDVGGCK**EQIEKMR**EVVELPMLHPEK**FVK**LGIDPPK**GVLC**
YGPPGTGKTLLARAVANR**TDACFIRVIGSELVQK**YVGEARMVRELFQMARSKK**ACIVFFDEVDAIGGA**
RFDDGVGGDNEVQRTMLEIVNQLDGFDAR**GNIK**VL**MATNR**PDTLDPALLRPGRLLDR**KVEFGLPDLESRT**
QIFKIHTRTMNCERDIRFKLLARLCPNSTGADIR**SVCTEAGMYAIR**ARRKT**VTEKDFLDAVNK**VIKGYQ
KFSATPKYMYN

Protein No.: I-32

Protein name and Species:

Phospholipase D OS=Ricinus communis GN=RCOM_0899520

PE=3 SV=1

Accession: tr|B9RV56|B9RV56_RICCO

Unused ProtScore: 27.02

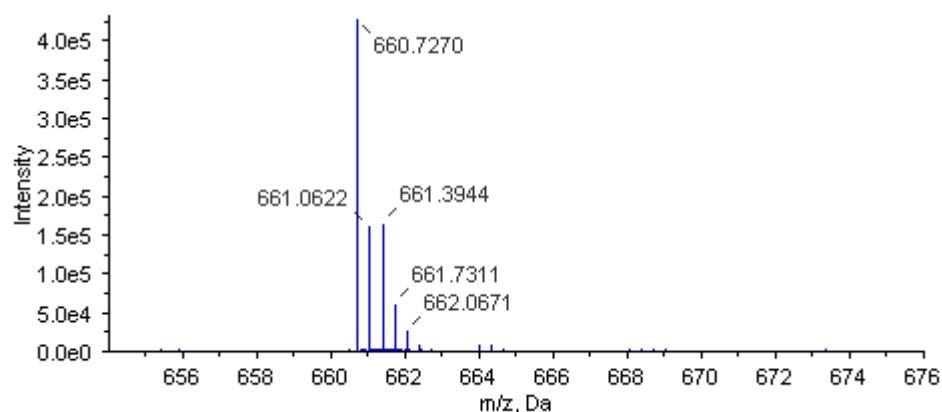
Seq Cov %: 22.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=0.55

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAQISLHGTLHVTIYEVDKLSGGGPHFFRKLVENIEETVGFVKGVSKLYATIDLEKARVGRTRILENE
 QSNPRWYESFHVYCAHQASNVIFTVKDDNPIGATLIGRAYVPEELLDGEEIDRWVEILDEDKNPVHSG
 SKIHVKLQYFEVTKDRNWGQGIRSSKYPGVPYTYFSQRQGCKVSLYQDAHIPDKFVPQIPLAGGNYEYEP
 HRCWEDVFDAITNAKHLIYITGWSVYTEISLIRDSR~~RPK~~PGGDITLGELLK~~KK~~KASEGVRVLMLVWDDRT
 SVGLLK~~KK~~DGLMATHDEETEHEFFQNTDVHCVLCPRNPDDGGSFVQDLQISTMFTHHQKIVVDSAMPNGD
 SQR~~RR~~IVSVFVGGLDLCGRYDSPFHS~~LFR~~TLDSAHHDDFHQPNFAGASIEKGGPREPWHD~~IHSR~~LEGPI
 AWDVLFNF~~EQ~~RWRKQGGKDL~~LI~~QLRELEDV~~I~~IPSPVMYPDDFEAWN~~V~~QLFRSIDGGA~~AF~~GF~~PET~~PEDA
 ARAGLVSGKDNI~~IDRS~~IQDAYI~~HAIR~~RAKNFIYIENQYFLGSSFGWSPDGIKPEDINALH~~L~~IPK~~EL~~SLK
 ILSKIAAGERFTVYIVVPMWPEGIPESASVQAILDWQKRTMEMMYKD~~I~~VQALKANG~~I~~IEDPR~~NYL~~TFFC
 LGNRE~~V~~KKSGEYEPAEKPEPDTDYIRAQ~~E~~ARRFMIYVHTKMMIVDDEYIIIGSANINQR~~SMD~~GARDSEI
 AMGAYQPHHLSTRQPARGQIHGFRMSLWYEH~~L~~GMLDESFLNPESEECVRKVNQMAEKYWDLYSSETLEH
 DLPGHLLRYPIGVASEGDVTELPGT~~EFF~~PD~~TK~~ARVLGAKSDYLPPILTT

Protein No.: I-33

Protein name and Species:

Peptidyl-prolyl cis-trans isomerase OS=Hevea brasiliensis PE=2

SV=1

Accession: tr|B3FNQ1|B3FNQ1_HEVBR

Unused ProtScore: 26.07

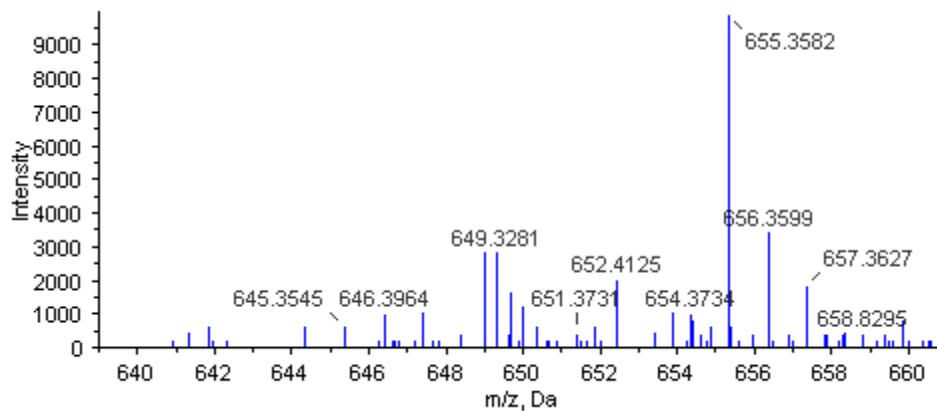
Seq Cov %: 64.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.06

116: 114=E5TL: D5TL=0.28

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANPKVFFDMTIGGAPAGRIVMELFADTTPR**TAENFRALCTGEKGIGR**SRK**PLHYK**GSSFHR**VIPGFMC**
QGGDFTAGNGTGGESIYGAKFADENFIK**KHTGPGILSMANAGPGTNGSQFFICTAKTEWLDGKHVVFGR**
VVEGMDVVK**TI**EKVGSSSGR**TSKPVVIADCGQLA**

Protein No.: I-39

Protein name and Species:

Small rubber particle protein; REF-like stress related protein 2

OS=Hevea brasiliensis GN=SRPP PE=4 SV=1

Accession: [tr|Q84T88|Q84T88_HEVBR](#)

Unused ProtScore: 24.89

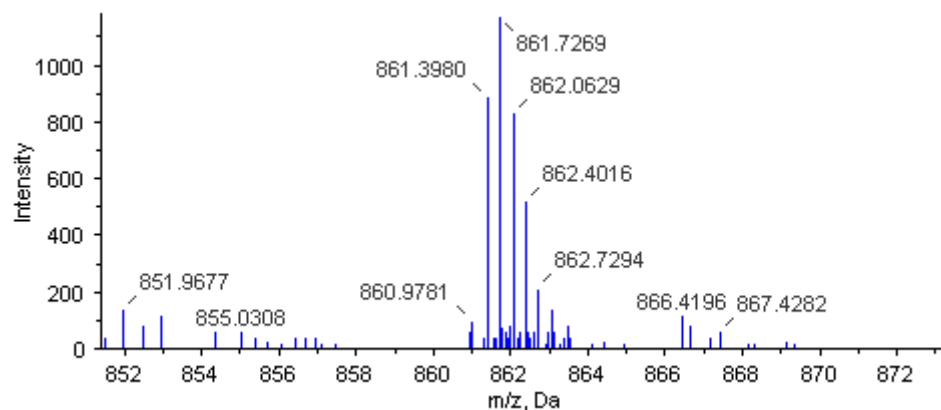
Seq Cov %: 97.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.39

116: 114=E5TL: D5TL=0.61

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEGKENENFQQEANEQEEKLKYLEFVQATTDNAVLTALSNIYLYAKDNSGPKPGVETIEGVAKTVVIP
ASKIPTEAIKFADRAVDASFTTLQNIIVPSVLKQLPTQACDTSVKESAE

Protein No.: I-40

Protein name and Species:

**eukaryotic translation elongation factor 1-alpha OS=Bruguiera
sexangula GN=bsef-1A PE=2 SV=1**

Accession: tr|Q8H9B1|Q8H9B1_9ROSI

Unused ProtScore: 24.28

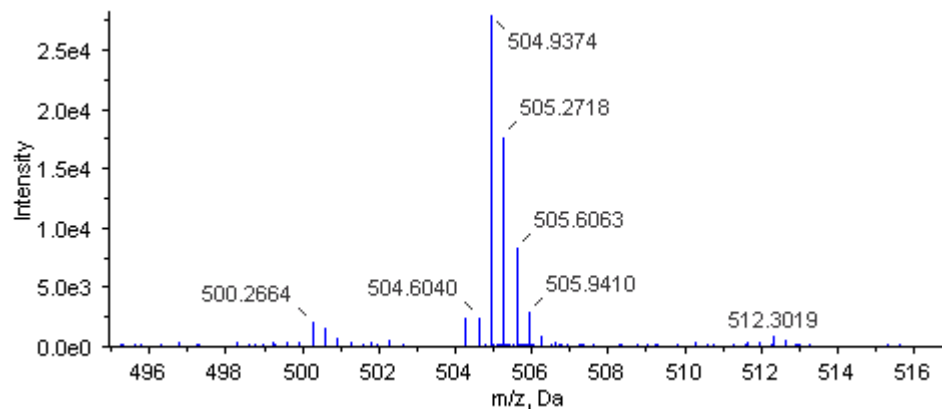
Seq Cov %: 45.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.07

116: 114=E5TL: D5TL=1.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGKEKIHIN**IVVIGHVDSGKSTTTGHLIYK**LGGIDKRVIER**FEKEAAEMNK**RSFKYAWVLDK**LKAERER**
GITIDIALWKFETTK**YYCTVIDAPGHR**DFIK**NMITGTSQADCAVLIIDSTTGGFEAGISK**DGQTR**EHAL**
LAFTLVGKQMICCCNKMDATTSKYSKARY**DEIVKEVSSYLK**KVGYNPEKIPFVPI**SFGFEGDNMIERSTN**
LDWYKGP**TLLEALDMIQEPKRPSDKPLR****LPLQDVYKIGGIGTVPVGRVETGVLKPGMVVTFGPSGLTTE**
VKSVEMHHEALQEALPGDNVGFNVKNVSVKDLK**RGYVASNSK**DDPAKEASSFTSQVIIMNHPGQIGNGY
APVLDCHTSHIAVKFSEILTKIDRRSGKELEK**EPKFLKNGDAGFVK****MIPTKPMVETFSEYPPLGR**FAV
RDMR**QTVAVGVIKSVEK**KEPSGAKVTKSAAKKGGK

Protein No.: I-42

Protein name and Species:

Phosphoglucomutase, putative OS=Ricinus communis

GN=RCOM_0628900 PE=3 SV=1

Accession: tr|B9SP64|B9SP64_RICCO

Unused ProtScore: 24.12

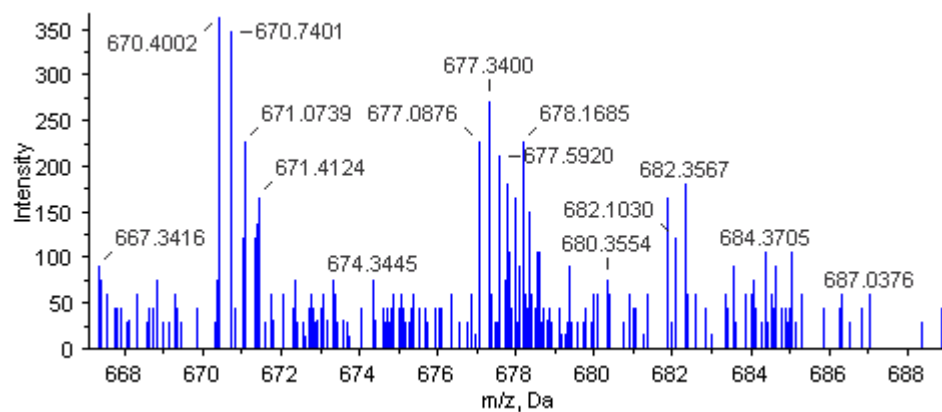
Seq Cov %: 36.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.87

116: 114=E5TL: D5TL=1.11

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVFEVSRVSTTPFDGQKPGTSGLRKKVKVFTQPN**YLHNFVQSTFDALTAEK**VR**GATLVVSGDGR**YFSKD
AIQIIKMSAANGVRR**VWVGQNGLLSTPAVSAVIR**ER**VGLDGSK**ATGAFILTASHNPGGPHEDFGIKYN
MENGGPAPEGITDKIYENTKTIKEYLISDLPDVDISAIGVTNFSGPEGQFDVDVFDSA**DDYVK**LMK**SIF**
DFESIKKLISSPN**FTFCYDALHGVAGAYAK**RIFVEELCAQESSLLNCVPK**EDFGGGHPDNLTYAK**ELV
ARMGLGK**SNSEVEPPEFGAAADGDADR****NMILGK**RFFVTPSDSVAIIAANAWEAIPYFSAGLKGVAR**SMP**
TSAALDIVAKHNLNLKFFEVPPTGWKFFGNLMDAGLCSVCGEESFGTGSDHIREKDGIVAVLAWLSILAYK
NKENLNGGK**LVSVEDIVR**NHWATYGRHYTR**YDYENVDAGAAKELMAHLVKLQSSLGEVNEIVK**GIRSD
VAKVVHGDEFEYKDPVDGSISSHQGIRYLFEDGSRLVFR**LSGTGSEGATIRLYIEQYEK**DSSKTGR**DSQ**
EALAPLVEVALKL**SKMQEFTGR**SAPTIVIT

Protein No.: I-43

Protein name and Species:

Trehalose-6-phosphate synthase, putative OS=Ricinus communis

GN=RCOM_1251280 PE=4 SV=1

Accession: tr|B9S8D6|B9S8D6_RICCO

Unused ProtScore: 23.88

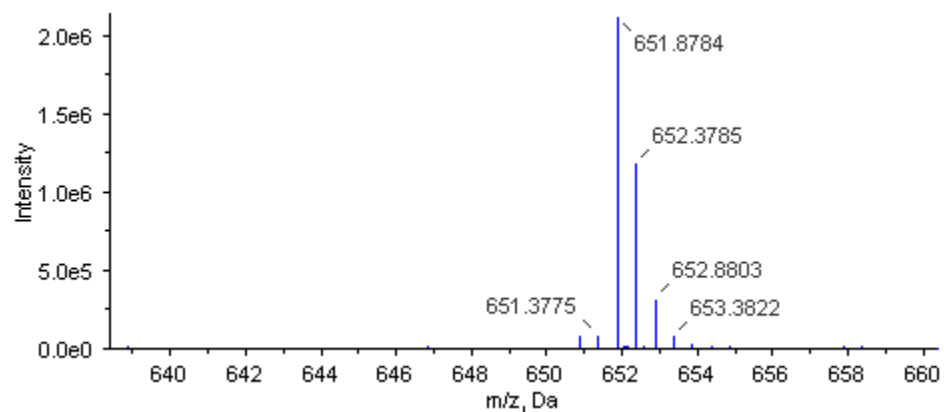
Seq Cov %: 22.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.59

116: 114=E5TL: D5TL=0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MMSR**SYTNLLDLASGNFPVMGQPR**EKKRLPRVMTVPGVISELDDDDQANSVASDVPSSLVQDR**IIIVANQ**
LPVKAKRRPDNKGWFSWDDDSLQLK**DGLPEDMEVIYVGS**LRVEVDMSEQDDVSQ**LLLD**RFK**CVPAF**
LPPDILSKFYHGFCKQHLWPL**LFHY**MLPFSANHGGRFDR**SLWEAYVAANK**IFSQRVIEVINPEDDYVWIIH
DYHLMVLPFTFLRRRFNRLRMGFFLHSPFPSSSEIYR**TLPVREEILK**ALLNSDLIGFHTFDYARHFLSCCS
R**MLGLE**YQSK**RGYIGLEYYGR****TVGIK**IMPVGIHMGQ**IQSVLK**LADKEWRVGE**LKQQFEGK****TVLLGVDDM**
DIFKGVNLK**LLAMEQMLK**QHPKWQ**GRAVLVQIANPAR**GKGDLEIQAEIQASCKRINESFGQPGYEP
VFIDRPVLSERAAYYTIAECVVVA**AVRDGMNLTPEYIVCR**QGVSGSESSSESNGPKK**SMLVSEFIG**
CSPSLSGAIRVNPWNIEATAEAMNEAISMSDSEKQLRHEKHYRYVSTHDV**AYWARSFFQDMERT**CRDHF
RRRCWGIGLSFGFR**VVALDPNFR**KLSIDAIVSAYLRSKNR**AILLDYDGTVM**PQTS**INK**SPSQEVISIID
TLCSDAKNTVFFV**VSGRGR**DSL GKWFSPCR**KLGI**AAEHGY**FMR**WSADRQWETCGQTDFGWIQMAEPVMK
LYTESTDGSSIETKESALVWHHR**DADPGFGASQAK**EMLDHLESVLANEPVAVKSGQFIVEVKPQGISKG
FVAEKIFTSMANRQADFVLCIGDDRSDEDMFEIIGNAISSGVLSSSTSVFACTVGQKPSKAKYYVDD
TGEVINMLEALAEASSPSPSPNSP

Protein No.: I-49

Protein name and Species: Exportin-1 OS=Populus trichocarpa

GN=POPTRDRAFT_774005 PE=4 SV=1

Accession: tr|B9I8G4|B9I8G4_POPTR

Unused ProtScore: 22.33

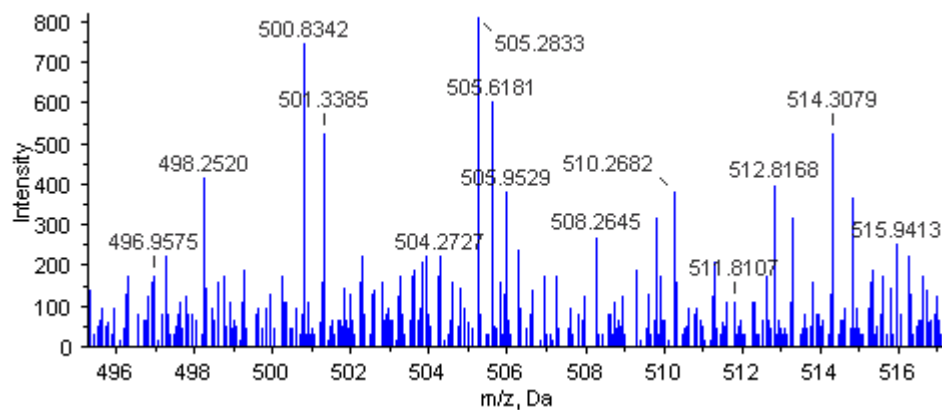
Seq Cov %: 12.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.84

116: 114=E5TL: D5TL=2.19

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAEKFRDLSQAIDVPLLDATVAAFYGTGSKEERVAADRILQDLQNNPDMWLQVVHILQNTKLNLTKEFF
ALQVLEGVIKYRWNALPVEQRDGMKNYISEVIVQLSSNEASFRMERLYVNKLNVTLVQILKHEWPARWR
SFIPDLVAAAKTSETICENCMVILKLLSEEVDFDSRGEMTQQKIKELKQSLNSEFQLIHELCLYVLSAS
QRTELIRATLSTLHAFLSWIPLGYIFESPLLETLLKFFPMPSPYRNLTQCLTEVAALNFGDFYNIQYVK
MYNFFMVQLQAILPLTTNIPEAYANGSSEEQAFIQNLALFFTSFYKSHIQVLESTQENITALLMGLEYL
INICYVDDTEVFKVCLDYWNSLVLELFEARHNLDNPAVAVNMMGLQMPLLHGMVDGLGSQILQRRQLYA
TPMSKLRMLMICRMAKPEEVLIVEDENGNIVRETMKDNDVLVQYKIMRETLIYLSHLDHEDTEKQMLKK
LSKQLSGEDWNWNNTLTCWAIGSISGSMEEQENRFLVMVIRDLLNLCEITKGDKNKAVIASNIMYVV
GQYPRFLRAHWKFLKTVVNKLFEFMHETHPGVQDMACDTFLKIVQKCKRKFVIVQVGESEPFVSELLAG
LPTTVADLEPHQIHTFYESVGHMIIQAESDPQKRDEYLQRLMDLPNQKWAEIIGQARQSVDFLKDQDVIR
TVLNIMQTNTSVASALGTYFLSQISLIFLDMLNVYRMYSELISSSIAEGGPYASKTSYVKLLRSVKRET
LKLIIETFLDKAEDQTQIGKQFVPPMMDPVLGDYARNLPDARESEVLSLFIATINKYKAAMIEDVPRIFE
AVFQCTLEMITKNFEDYPEHRLKFFSLLRAIATHCFPALIRLSSEQLKLVMSIIWAFRHTERNIAETG
LNLLVEMLKNFQASEFCNQFYRSYFLTIEQEIFAVLTDTFHKPGFKLHVVLVQLHLFCLVESGALTEPLW
DAATISYSYPNNAMFVREYTIKLLGTSFPNMTASEVTQFVNGLFESRNDLSAFKNHIRDFLVQSKEFSA
QDNKDLAEEAAAQRERERQRMLSIPGLIAPNEIQDEMLDS

Protein No.: I-50

Protein name and Species:

Invertase 2 OS=Hevea brasiliensis GN=NIN2 PE=2 SV=1

Accession: [tr|E9KF95|E9KF95_HEVBR](#)

Unused ProtScore: 22.29

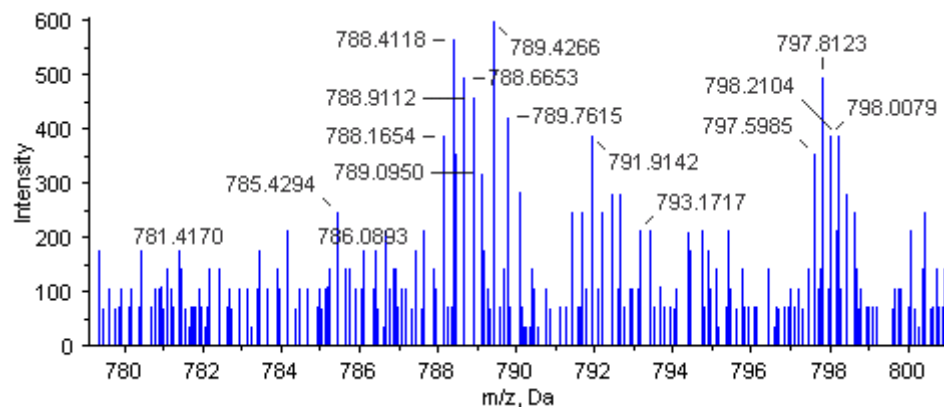
Seq Cov %: 26

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=2.20

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDGTKEVGLR**NVSS**TC**SI**SEMDD**FD**LSRLLDKPRL**LN**IERQRSFDER**SL**SELSIGLTRGGLDYCEITYSP
GGRSGLDTPVSSARNSFEPHPMVADAWAELRR**SIVY**FERGQPVGTIAAIDHASEEVLNYDQVFVR**DFVPS**
ALAFLMNGE**PE**IVKNFLKTLHLQGW EKRIDRFK**LGE**GVMPAS**FKVL**HDPVR**KTD**TL**MAD**FGESAIGRV
APVDSGFWW**IILL**RAYTK**ST**GDLS**LA**ET**PECQK**GMRLIILTLCLSEGFDTFPTLLCADGCSMIDRRMGIY
GYPIEQALFFMALR**CAL**SMLKHDTEGKECIEIRIVKRLHALSYHIRSYFWLDFQQLNDIYRYK**TEEY**SH
TAVNKFNVIPDSIPDWFVDFMPTR**GGY**FI**GN**IS**PAR**MDFRFWALGNCVAILSSLATPEQSMALDIES
RWEELVGEMPLK**IAY**PA**IES**HDWR**I**VTG**CD**PKNTRWSYHNGGWPVLLWLLTAACIKTGRPQIARRAID
LAETRLLKDSWPEYYDGKLGK**FI**GKQARKYQ**TW**SIAGYL**VAK**M**LE**DP**SH**LGMIS**LE**EDKQMK**PVI**KRS
SSWTC

Protein No.: I-53

Protein name and Species:

Sucrose synthase OS=Manihot esculenta PE=2 SV=1

Accession: [tr|A9NIV2|A9NIV2_MANES](#)

Unused ProtScore: 21.98

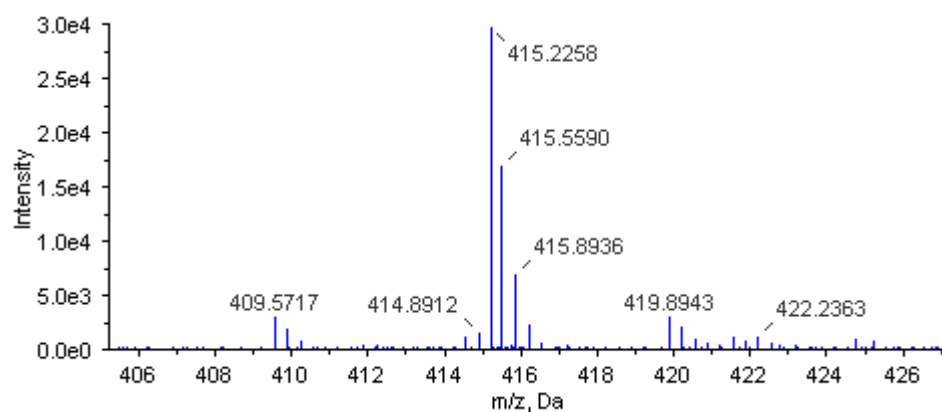
Seq Cov %: 15.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.57

116: 114=E5TL: D5TL=0.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAERVITRVQSIRER**LDETL**SAHRNEIVALL**SR**IEGKGGKILQHHQIIAEFEEIPEENRKK**LLESVFGE**
VLRS**AE**AI**VL**PP**W**VAL**AVR**PRPGVWEYIR**VNV**HAL**VVEELR**VAEYL**HFK**EELVDG**SV**NGNFVLELDFE
PFNASFPRPTLSKY**YIGN**VE**FLNR**HLSAKLFHDK**ESLHPLLEFLK**VHCHKGKNMMLNDR**IHNLD**SLQ**YV**
LRKAEEYLTALAPETPYSQFEHK**FQEIGLER**GWGDTAERVLEMIRLLLDLLEAPDPCTLETFLGRIPMV
FNVVIMSPHGYFAQDNVLGYPDTGGQVVYILDQVR**ALET**EM**LHR**IK**QQGLDITPR**IL**IITR**LL**PDAVGT**
TCGQRLEK**VFGTEHSDILR**IPFKTEKGIVRKWISRFEVWPYLETYTEDVATEIGKEFQGKPDLI**FGNYS**
DGNIVASLLAHK**LGVTECTIAHALEK**TKYPESDIYWKKFDEKYHFSCQFTADLIAMNHTDFIITSTFQE
IAGSK**DTV**Q**YESHTAL**TL**PGLYR**V**VHGIDV**FD**PK**FNIVSPGADETIYFSYTEEKRRRLTSFHPEIEELL
YSPVENEHL**CVL**KDR**SKPIIFT**MARLDRVK**NLTGL**VEWY**GK**NAKL**REL**ANL**VVGGDR**RKESK**DLEEQ**
AEMKKMHS**LIEKYN**L**NGHFR**WISSQMN**RVR**NGELYRY**ICDTK**GVFVQPAIYEAFGLTVVEAM**TCGLPTF**
ATCNG**GPAEII**V**HGK**SGFNIDPYHGDQAAELLVQFFEKCKADPSHWIKISEGAMQRIQEKYTWQIYSQR
LLTLTG**VYGF**WKHVSKLDRRESRR**YLEMFYALK**YRKLAE**SVPL**TVED

Protein No.: I-54

Protein name and Species:

Malate dehydrogenase OS=Populus trichocarpa

GN=POPTRDRAFT_747123 PE=3 SV=1

Accession: tr|B9NBW3|B9NBW3_POPTR

Unused ProtScore: 21.97

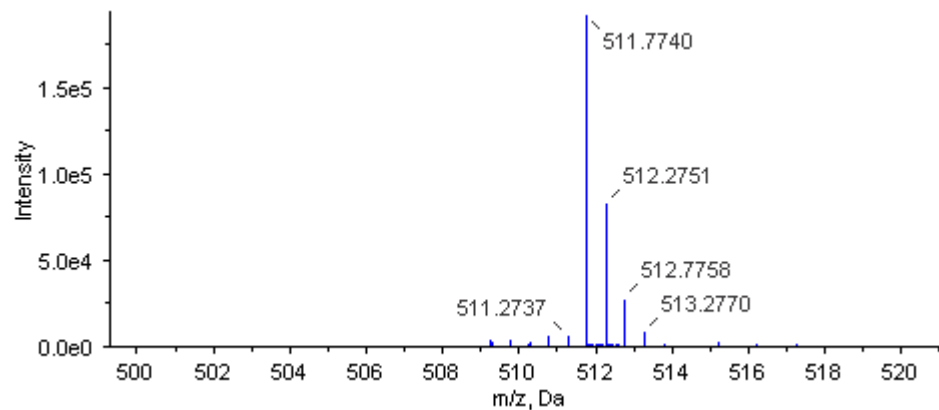
Seq Cov %: 32.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.31

116: 114=E5TL: D5TL=0.92

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKEPARVLVTGAAGQIGYALVPMIARGVMLGPDQPVILHMLDIPPAEALNGVKMELVDAAFPLLKGV
VATTDVVEACTGVNIAVMVGGFPRKEGMRKDVMSKNVSIYK SQASALEKHAAANCKVLV VANPANTNA
LILKEFAPSIPEKNITCLTRL D HNRALGQISERLNVQVSDVKNVLIWGNHSS TQYPDVN HATVKTPAGE
KPVRELVKDDAWLN AEFITTVQQRGA AIKARKLSSALS AASSACDHIHDWVLGTPEGTWVSMGVYSDG
SYNVPAGLIYSFPVTCQNGEWKIVQGLSID EFSRK KLDLTADELSEEKALAYSCLT

Protein No.: I-55

Protein name and Species:

Chaperonin containing t-complex protein 1, zeta subunit, tcpz,
putative OS=Ricinus communis GN=RCOM_1727810 PE=3
SV=1

Accession: tr|B9RSN1|B9RSN1_RICCO

Unused ProtScore: 21.39

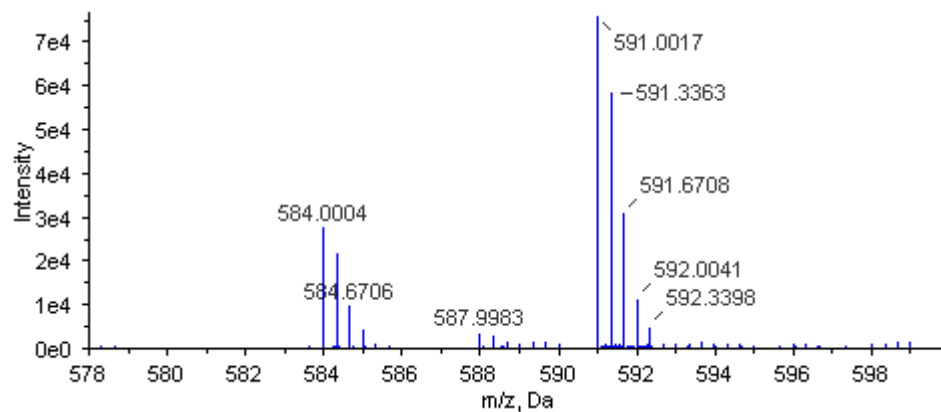
Seq Cov %: 30.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=1.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSLRVLPNPAEVLNKSAAALHMNINAAGLQDVLKSNLGPKGTIKMLVGGAGDIKLTKDGNLTLKEMQIQ
NPTAIMIARTAVAQDDISGDGTTSTVIFIGELMKQSERYIGEGMHPRLVDGFELAKRATLQFLEKFKT
PVMGDEPDKEILKMVARTTLRTKLYETLADQLTDIVVNAVLCIRKPEEAIDLFMVEIMHMRHKFDVDT
RLVEGLVLDHGSRHPDMKRRAENCYILTCNVSLLEYDKSEINAGFFYSNAEQRKEMVAAERRQVDERVEK
IIELNKNCVSGNDNNFVVINQKIDPPSLDLLARAGIITALRAKR RNMERLVLACGGEAVNSVDDLTPD
CLGWAGLVYEHILGEEKYTFVEHVKNPHSCTILLKGPNDHTIAQIKDAVRDGLRAVKNTIEDEAVVLGA
GAFELAARKYLISEVKKTVKGRAQLGIEAFADALLVIPKTLAENSGGLDTQDEIVSLTGEHDR ENIVGLN
LQTGGPLDPQMEGIFDNYSVKRQLINSGPVIASQLLLVDEVIRAGRNMRKPN

Protein No.: I-57

Protein name and Species: Luminal binding protein (BiP),
Nucleotide-Binding Domain of the sugar kinase/HSP70/actin
superfamily OS=Thellungiella halophila PE=2 SV=1

Accession: [tr|E4MXI2|E4MXI2_THEHA](#)

Unused ProtScore: 21.05

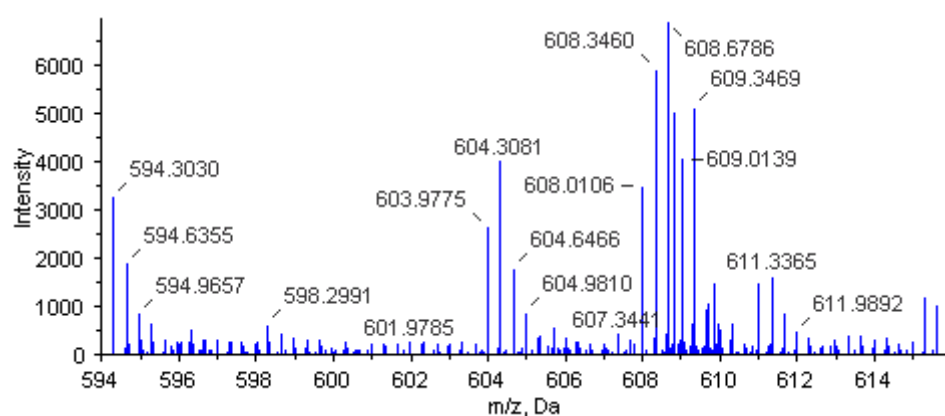
Seq Cov %: 24.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.50

116: 114=E5TL: D5TL=2.24

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MARSGANGTVVLAIIFFGCLFAFSTAKEEATKLGTVIGIDLGTTYSCVGVYK**NGHVEIIANDQGNR**IT
PSWVGFTDSERLIG**EAAK**NQAAVNPER**TIFDVK**RLIGRKFEDKEVQKDKKLVPYQIVNKDGK**PYIQVK**I
KDGETKVFSPEEISAMILTKMKETAEAYLGKK**IKDAVVTVPAYFNDAQR**QATK**DAGVIAGLNVAR**I**INE**
PTAAAIAYGLDKKGGGEKNILVFDLGGGTFDVSFLTIDNGVFEVL**STNGDTHLGGEDFDHR**IMDYFIKLI
KKKHQKDISKDNKALGKLRRECERAKRALSSQHQVR**VEIESLFDGVDFSEPLTRAR****FEELNNDLFR****KTM**
GPVKKAMDDAGLQKS**QIDEIVLVGGSTR**IPK**VQQLLK**DFFEKGKEPNK**GVNPDEAVAYGAAVQGGILSGE**
GGDETKDILLLDVAPLTLGIETVGGVMTKLI**PRNTVIP**TKKSQVFTTYQDQQTTSIQVFEGERSLTKD
CRLLGK**FDLTGIPPAPR**GTPQIEVTFEVDANGILNVKAEDKASGKSEK**ITITNEKGR****LSQEEIER**MVKE
AEEFAEDKKVKERIDAR**NSLETYVYNMK**NQVSDKDKLADKLEADEKDKIEAATKEALEWLDENQNSEK
EDYEEK**LKEVEAVCNPIITAVYQR**SGGAPGAAGGDSATDEEESHDEL

Protein No.: I-58

**Protein name and Species: Glucosamine-fructose-6-phosphate
aminotransferase, putative OS=Ricinus communis
GN=RCOM_1077800 PE=4 SV=1**

Accession: tr|B9RM60|B9RM60_RICCO

Unused ProtScore: 21.05

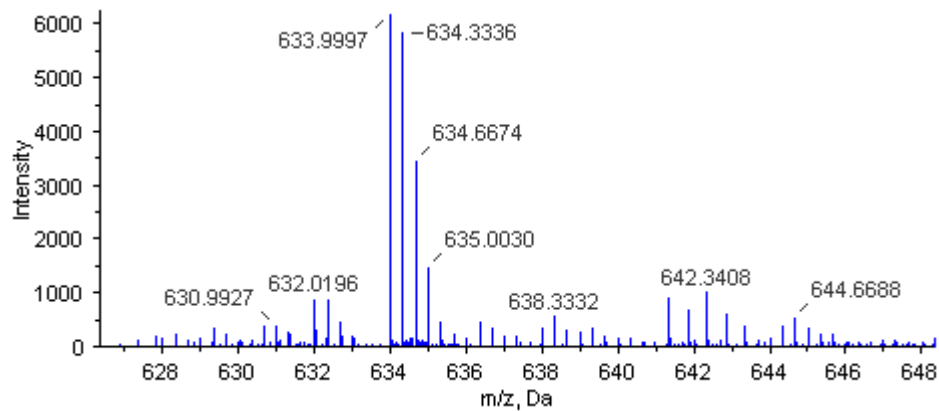
Seq Cov %: 22.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.36

116: 114=E5TL: D5TL=0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MCGIFAYLNYNVNRERRRYILQVLFNGLRRLEYRGYDSAGISIENSIPESSDPIPSSSSHSPSPLVFRQ
EGNIESLVKSVYQDVATIDLNLEESF**SVHAGIAH**TR**WATHGEPAPR**NSHPQTSAGAGNEFLVVHNGVITN
 YEVLKETLVRHGFTFESETDTEVIPKLAKY**VFDK**ANEGEQAQPVTFSQVV**LEVMR**HLEGAYALIFK**SRH**
YPNELIACKR**GSPLLLGVKELNEDMNSGSAFHDAK**SLSKDGHAK**ELFLSSDANAIIEHTK**R**VLMIEDGE**
VVHLKDGSVSIKLFENAKGRHGGALSRPASVQR**ALSVLEMEVEQINK**GNYEHYMQK**EIHEQPESLTTM**
RGRLIRGGCKAKTVLLGGLKDHLKTIRRSRR**IVFVCGGTSYNAALAAAR**PILEELSGVPVTMEIASDLV
 DRQPIYREDTAVFVSQSGETADTLHALEYALENGALCVGITNTVGSIAIARNTHCGIHINAGAEIGVAS
 TKAYTSQIVVMAMALAIIGDAISSQAKR**EAIIDGLEFDLPNR**VREVLKLDQEMKDLAELLMAEQSLLVF
 GR**GYNYATALEGALKVK****EVALMHSEGLAGEMK**HGPLALVDENLPIIVIIATRDAEFRK**QSVIQQLHAR**
 KGRLIVMCSKGDAAASVCPGESCRVIEVPQVEDCLQPVVNIVPLQLLAYH**LTVLR****GYNVDQPR**NLAKSVT
 TQ

Protein No.: I-60

Protein name and Species:

Leucine aminopeptidase, putative OS=Ricinus communis

GN=RCOM_0623200 PE=3 SV=1

Accession: tr|B9STR1|B9STR1_RICCO

Unused ProtScore: 20.86

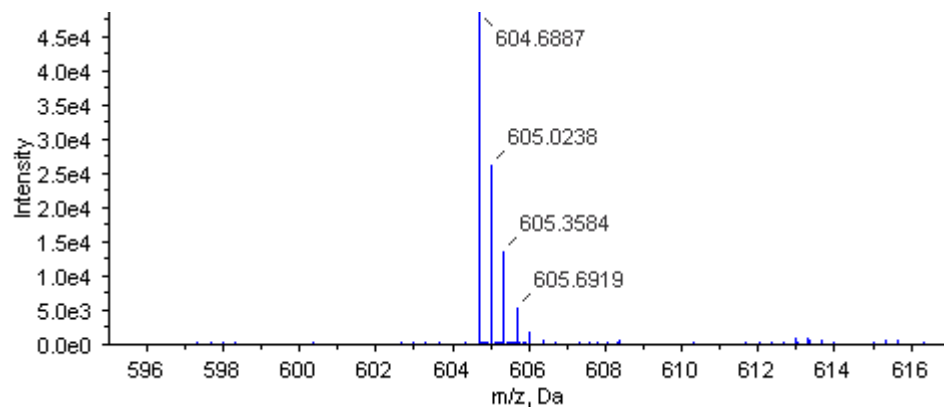
Seq Cov %: 29.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.29

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAARVVSLAASISSFAVPFSSTSSSLFLTRLRSPSVLRFSFAVAPLSYR**SRGGGGGGGGKLM**MAHSLARA
TLGLTQPANVDV**PKISFSAK**EIDVVEWK**GDILAVGVTEK**DMTKDKSTK**FDNSLLK****KLDTHLG**LLEAS
SEEDFTGKAGQSMVLRLP**GLGSK**RIGLIGLGQSASTTFAFRNFGETI**AATAKAAQ**ASNVAIVL**ASAESI**
SNELKLNTASAIASGTVLGTYEDARFK**SESK**KPVLKSVDILGFGTGPD**LAKKLYAEDVSSAVIFG**KEL
VNSPANVLTPAVLAEE**ASKIASTYSDVLSANILSAEQCK**ELKMGSYLGVAAASANPPHF IHLHYKPP**GG**
TVKAKLALVGKGLTFDSGGYNIKTGPGCSIELMKFDMGGSAAVLGAAKAIGQIKPPGVEVHFIVAACEN
MISGTGMR**PGDIVTASNGKTIEVNNTDAEGRLTLADALVYACNQGVDK**IVDLATLTGACVVALGPSIAG
VFTPSDDLANEVFTAAE**ASGEK**LWRMPLEESYWENMK**SGVADMVNTGGRQGGAITAALFLK**QFINEKVQ
WMHIDMAGPVWNEKKRTATGFGISTLVEWILHNSS

Protein No.: I-61

Protein name and Species:

Rab GDP dissociation inhibitor OS=Ricinus communis

GN=RCOM_1750690 PE=4 SV=1

Accession: tr|B9RIY3|B9RIY3_RICCO

Unused ProtScore: 20.57

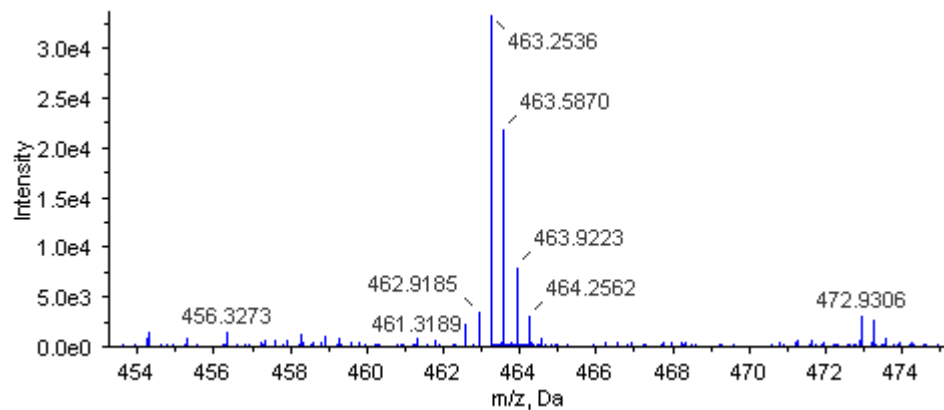
Seq Cov %: 41.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=0.39

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDEEYDVIVLGTGLK**ECILSGLLSVDGLK**VLHMDKNDYYGGESASLNLNLQWKRFR**GSDKPPAHLGSSR**
DYNVDMIPKFMANGNLVRLIHTDVTKYLYFKAVDGSFVYNKGKVHK**VPATDMEALKSPLMGIFEKRR**
ARK**FFIYVQDYNESDPKTHEGMDLTRVTTR****ELIAKYGLDDNTMDFIGHALALHR**DDRYLDEPALDVTMR
MK**LYAESLAR**FQGGSPY**IYPLYGLGELPQAFARLSAVYGGTYMLNKPECKVEFDEEGKVVGVTSEGETA**
KCKKVVCDPSYLPNKARKVSRVAR**AIAIMSHPIPNTNDSHSAQVILPQQLGRR****SDMYLFCESYSHNVA**
PKKGKYIAFVSSEAETDNPEVELKPGIDLLGPVDEIFFEYVDRYEPVNEPSLDNCFISTSYDATTHFEST
VTDVNLNMYSMITGKVLDSLVDLSAASAAEE

Protein No.: I-64

Protein name and Species:

Alpha-1,4-glucan-protein synthase [UDP-forming], putative
OS=Ricinus communis GN=RCOM_1468610 PE=4 SV=1

Accession: [tr|B9RLK7|B9RLK7_RICCO](#)

Unused ProtScore: 19.65

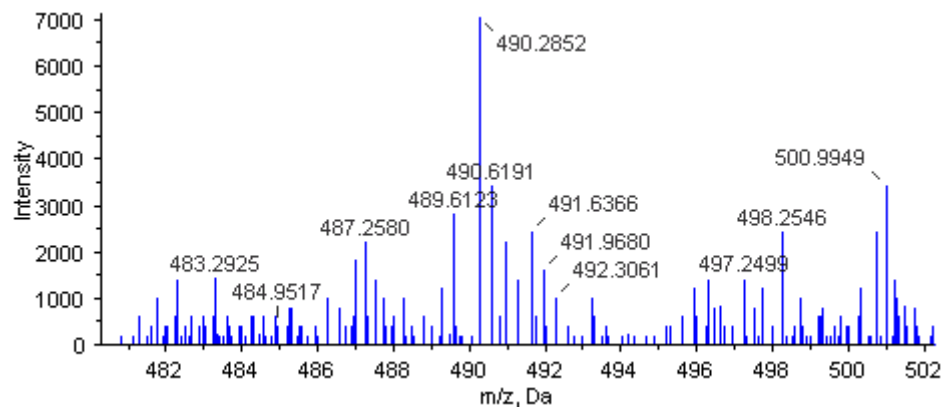
Seq Cov %: 36.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.44

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADFAAISPTPLLKDEL

D

I

V

I

P

T

I

R

N

L

D

F

L

E

M

W

R

P

F

F

Q

P

Y

H

L

I

I

V

Q

D

G

D

P

S

K

I

I

K

V

P

E

G

F

D

Y

E

L

Y

N

R

N

D

INRILGPKASCI

S

F

K

D

S

A

C

R

C

F

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Y

M

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NTLYDPYR

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F

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E

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F

PMCGMNLAFNRELIGPAMYFGLMGDGP

I

G

R

Y

D

D

M

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V

NLKKEYKGIYWQEELIPFFQSAVLPKECTTVQK

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K

L

A

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A

M

V

T

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D

E

LNPSGNSGELPNGAAK

Protein No.: I-69

Protein name and Species:

**Heat shock protein 70 (HSP70)-interacting protein, putative
OS=Ricinus communis GN=RCOM_1679700 PE=4 SV=1**

Accession: tr|B9RBP6|B9RBP6_RICCO

Unused ProtScore: 18.74

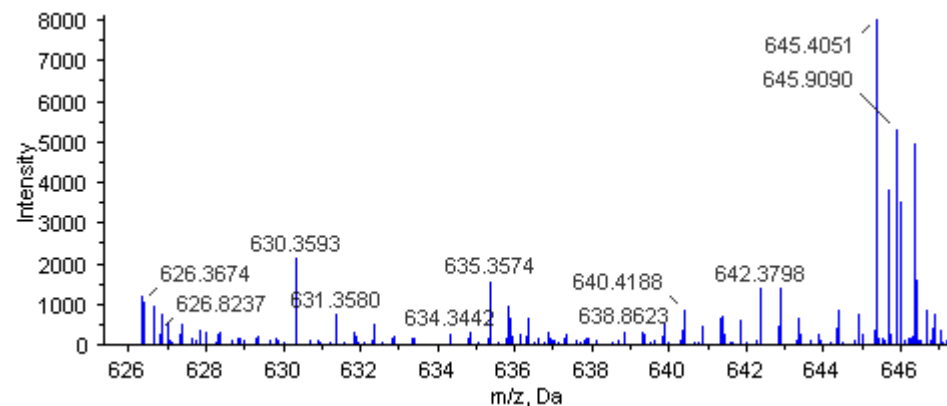
Seq Cov %: 19.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=0.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEAKAKGNAAFSGDFTTAVKHFTEAIS IAPSNHVLYSNR **SAALASLHNYADAL**TD**AK**KTVELKPDW
SKGYSRLGAAYLGLNQTDQDAISAYKKGLDIDPSNEALKSGLADAQARFSAPPPPPSPFGDAFNGPEMWA
KLTAD**P**STR**MYL**Q**QP**DF**VK**MMQEIQ**K****NP**NN**L**N**L**Y**LK**DQR**VM**Q**AL**G**V**LL**N**L**K**FRAPNAGAEDMEVPQEDD
HSSSPPPQAEQPAKKAPQPEPEPEPMDVITEEDKEAKERKAQAVKEK**EL**G**NA**A**YK**QKDFETAISHYTT**A**
LEL**D**ED**I**S**Y**L**T**NR**AA**V**Y**LE**M**G**K**YEDCI**K**D**CD**KA**V**ER**G**RELRSDFKMIARAL**TR**KGTALVKMAKSS**K**D**Y**
DSA**I**ET**F**Q**K**ALTEHRNPETLKKLN**E**ARAK**K****E**LE**Q**Q**E**Y**F**DP**K**LADEERE**K****G**NE**Y**F**K**Q**Q**K**Y**PE**A**V**K**HY**T**E
SLR**R**NPEDPRAYS**N**RAAC**Y**TK**L**GA**L**PE**G**L**K**DAEK**C**IE**L**DP**T**F**T**K**G**Y**T**R**K**G**A**V**Q**FF**M**KEY**D**K**A**LE**T**Y**Q**E**G**
LK**H**DP**Q**N**Q**EL**L**D**G**V**R**RC**V**E**Q**L**N**K**A**S**R****G**D**L**S**P**E**E**L**K**ER**Q**AK**A**M**Q**DP**E**I**Q**N**I**L**S**DP**V**M**R**Q**V**L**V**DF**Q**EN**P**K**S**
AQDHMK**N**P**M**V**M**N**K**I**Q**K**L**V**N**AG**I**V**Q**I**R**

Protein No.: I-70

Protein name and Species:

DnaJ protein OS=Hevea brasiliensis PE=2 SV=1

Accession: [tr|Q9ZSZ6|Q9ZSZ6_HEVBR](#)

Unused ProtScore: 18.66

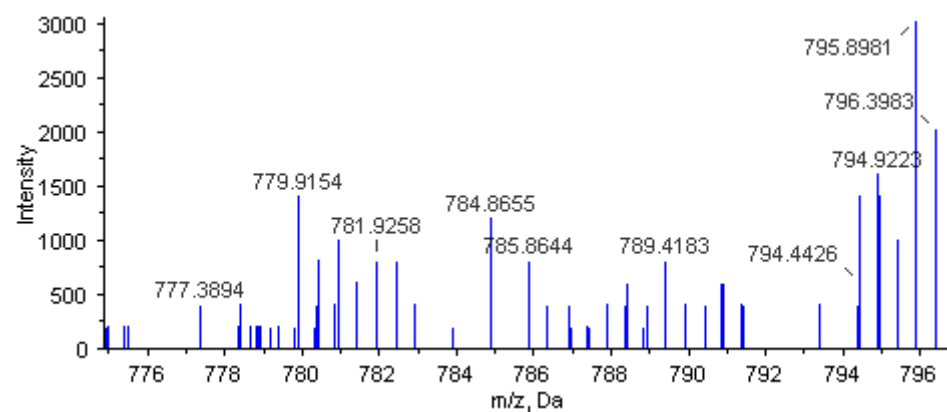
Seq Cov %: 38.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.45

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MFGRAPKKSDNTKYYEILGVSKNASQDDLKKA YRKAAIKNHPDKGGDPEKFKELAQAYEVLSDPEKREI
YDQYGEDALKEGMSGGGGAHDPFDIFQSFFGGNPFGGGGSSRGRRKEGEDVIHPLKVSLEDLYNGTSKK
LSLSRNVICSKCKGKGSKSGASMKCSGCQSGMKVSI RQLGPSMIQQMQHPCNECKGTGETINDKDRCP
QCKGEKVVQEKKVLEVIVEKGMQNGQRITFPGEADEAPDTITGDIVFVLQQKEHPKFKRKGDDLIVDHT
LSLTEALCASQFILTHLDGDLLIK SQPGEVVKPDQFKAINDEGMPMYQRPFMRGKLYIHF SVDFPDSL P
PDQCKALEAVLPSRTSVQLSDMELDECEETTLHDVNFDEEMR R KQQQAQEAYDEDDDMHGGGQRVQCAQ
Q

Protein No.: I-71

Protein name and Species:

Phosphoglycerate kinase OS=Ricinus communis

GN=RCOM_1574570 PE=3 SV=1

Accession: [tr|B9RHY3|B9RHY3_RICCO](#)

Unused ProtScore: 18.31

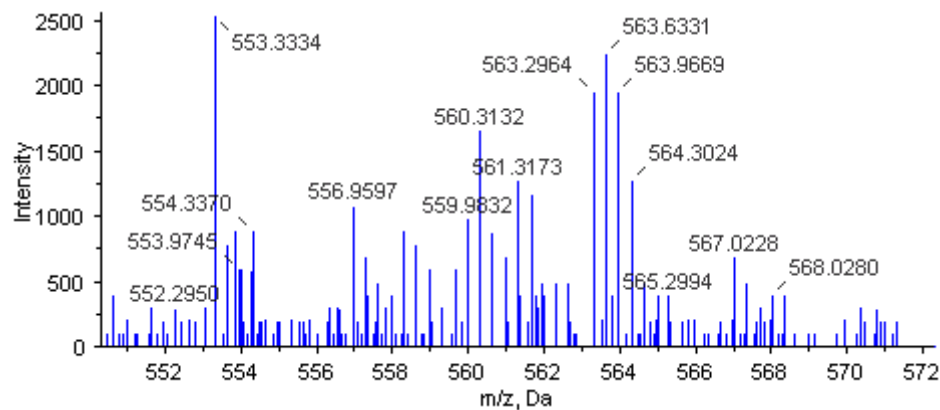
Seq Cov %: 33.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.54

116: 114=E5TL: D5TL=0.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATKKSVSSLKEADLK GKR V FVRVDLNVPLDDNLNITDDTR I RAAVPTIKYLMDHGARVILCTHLGRPK
GVTPKYSLKPLVPRLSSELLGVEVKMASDCIGEEVEKLVAEIPEGGVLLLENVRFHKEEEKNEPEFAKKL
AGLADVYVNDAFGTAHRAHASTEgvakylkpsvAGFLMQKELDYLVGAVANPKKPFAAIVGGSKVSTKI
GVIESLLEKVDILILGGMIFFYKAQGHVGS S LVEGDKLDLASSLIEKAKAKGVDLLLLPTD VVIADK
FAADANSKVV PASSIPDGWMLDVGPD AIKTFCEALD TTQTI IWN GPMGVFEFDKFAVGTEAI AKKLA E
LSGKGVTTIIGGGDSVA AVEK VGLADKMSHISTGGASLELLEGGKPLPGVLALDDA

Protein No.: I-73

Protein name and Species:

Alanyl-tRNA synthetase, putative OS=Ricinus communis

GN=RCOM_0036070 PE=3 SV=1

Accession: tr|B9SYR5|B9SYR5_RICCO

Unused ProtScore: 18.11

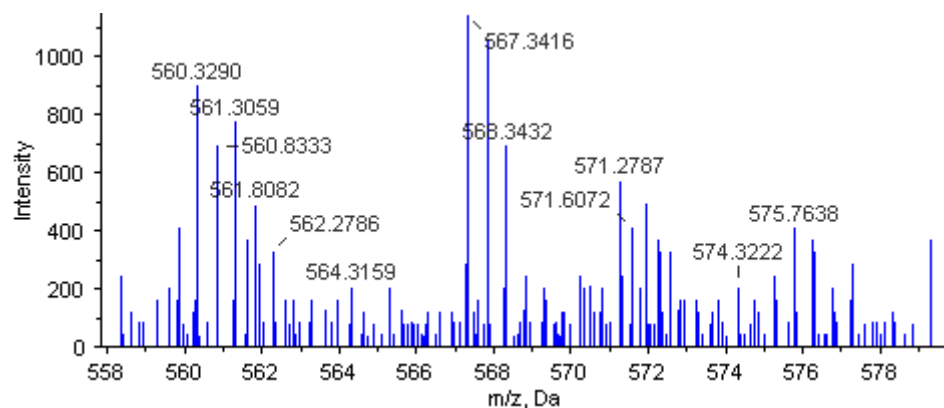
Seq Cov %: 13.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKRITSTAAAAAASSLSVTLHRTALHSPHLLAAIVVAAARVSLHPSRATLFAFSSSSSSPILLSHIA
AMPGVDPQEMEWPAKKVRDTFIS**FFEDK**KHVHWKSSPVVNDPTLLFANAGMNQFK**PIFLGTADPNTA**
LSKLSRACNTQKCI RAGGK**HNDLDDVGK**DTYHHTFFEMLGNWSFGDYFKREAIGWAWELLTKIYKLPAD
RIYATYFGGDEKAGLAPDAEARDFWLQFLPPER**VLPGCK**DNFWEMGDTGPCGPCTEIHYDRVGNRDAS
QLVNDDPTCIEIWNLVFIQFNRESGSLKPLPAK**HVDTGMGFERLTSVLQNK**MSNYD TDVFLPIFDAI
QQATGARPYSGKVGSDDVDRVDMAYRVVADHIR**TL SFAIADGSCPGNEGR**EYVLRRI LRRAVRYGSEVL
KAQEGFFNGL**VNIVVK**VMGDVFP ELIQNEVRIREI I KEE EASFGKTLLKGIEKFKKAAQEVQGV SCLQ
DAFVLWDTYGFPLDLTQLMAEERGLW**VDVEGFNNAMDEAR**ER**SRNAQNK**QAGDIIMDADATSALHKKG
VSVTDDSYKFIWFQDHESVIKAIYTGTEFLGSTTSSNEVGIVLESTSFYAEQGGQIFDTGSLEGTFGSF
QVSNVQIFGGFVVHIGSLTRAAPRLSVGDKVICVDYDRRT**LIAPNHTCTHMLNFALREVLGNHVDQK**G
SIVLPEKLRFD FSHGKPVDPALLR**KIESIVNEQIKAELEVS**AK**EATLSEAK**RINGLR**AVFGEVYDPVR**
VVAIGRKVEDLLADPENKEWSSISAELCGGTHISNTKEAK**AFALLSEEGIAK**GVRR**ITAVTTDGAFK**AM
ELASLLEQEADEISKTEGSLLEKKVASLSRVDSAPIPAAKKFDIRTKISALQDEVKAQKKISEENMQ
KAVKIATEMAEVAASEGKQFCISR**VDVGLDAAAVR**EAVSK**VLQK**KGLSAMVFSIDETTNK**VVVCAGVAE**
KGDKSQLEVSEWLTAALKPLNGRCGKGGGLATGQGT EGVHLDAAMNLAAEFAQMKLR

Protein No.: I-76

Protein name and Species:

T-complex protein 1 subunit theta-like OS=Populus trichocarpa

GN=POPTRDRAFT_823706 PE=3 SV=1

Accession: tr|B9I5Y4|B9I5Y4_POPTR

Unused ProtScore: 17.33

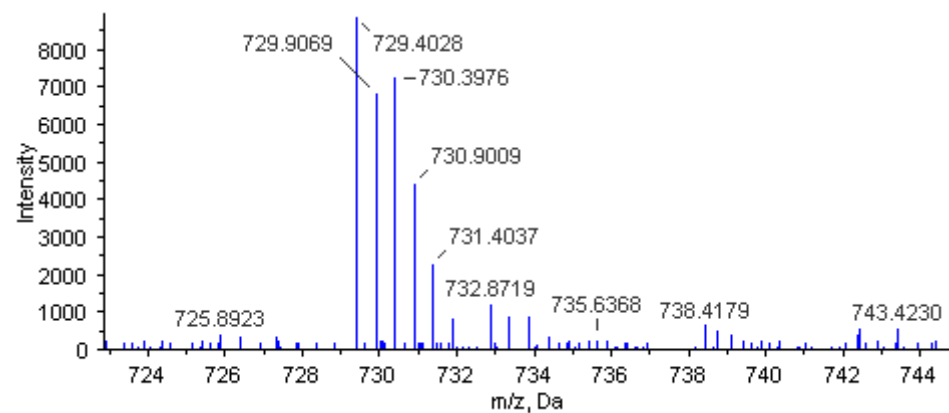
Seq Cov %: 21.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.72

116: 114=E5TL: D5TL=1.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGFSMQPYGMQSM LKEGHK **HL**SGLDEAVLK **NI**DACKQLSAITR **TS**LGPNGMNKMVINHLDK **LF**VTNDAA
TIVNELEVQH **PA**AK **IL**VL **LAG**KAQQEEIGDGANLTISFAGEMLQN **AD**ELIR **MGL**HPSEIISGYNKAINKA
IEILSELVEPGSENMDVRNKEQVICRMKAAVASKQFGQEDILCNLIADACIQVCPK **NP**VNFNVDNVRVA
KLVGGGLINSSIVRGMVLKGD TVGTIKRVEKAK **VAV**FAGGVDT **SAT**ETKGT **VLI**HSAE **Q**LENYAK **TE**EA
K**VE**ELIKAVAETGAKVIVSGAAVGEMALHFCERYK **LM**VLKISSK **FEL**RRFCR **TT**GA **V**AILKLSPPSPDD
LGCVDSISVEEIGGARVTIVR **NE**EGNSVCT **VV**LRGSTD **S**ILDDLER **AV**DD **G**VNTYKAMCRDSRIIPGG
AATEIELAKRLR **EF**SFK **ET**GLDQYAI **AK**FAESFEMIPKTLAENAGLNAMEIISSLYAEHAGNTK **V**GID
LEEGVFKDVSTTNIWDLYVTKFFALK **YA**ADA **ACT**VLRVDQIIMAKPAGGPRRDAAPGGMEDD

Protein No.: I-77

Protein name and Species:

Cis-prenyl transferase II (Rubber transferase) OS=Hevea
brasiliensis GN=Hpt3 PE=2 SV=1

Accession: tr|Q8L3U6|Q8L3U6_HEVBR

Unused ProtScore: 17.27

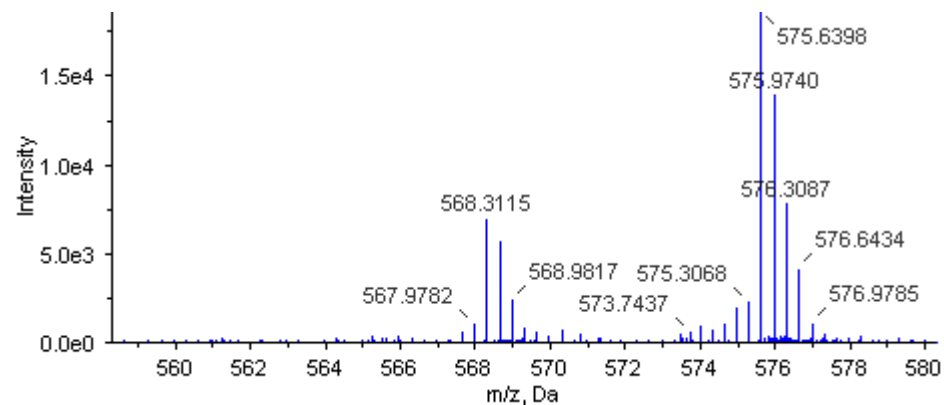
Seq Cov %: 42.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.23

116: 114=E5TL: D5TL=1.96

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEIYTGQRPSVFRIFGKYMRKGLYSILTQGPPIPTHLAFIMDGNRRFAKKHKMKEAEGYKAGYLALLRTL
TYCYELGVRVVTIYAFSIDNFRRQPREVQCVMNLMMEKIEEIVEESIMNAYDVGVRIVGNLNLLEDEPI
RIAAEKIMRATANNRFRVLLIAYAYSSTDEIVHAVEESSKDKLNSNEVCNNGIEAEQEFKEANGTGNSV
IPVQKTESYSGINLADLEKNTYVNPDPDLIRTSGLSRLSNYLLWQTSNCILYSPFALWPEIGLRHLVW
TVMNFQRHHSYLEKHKEYLK

Protein No.: I-80

Protein name and Species:

GTP-binding protein ras-like protein OS=Ricinus communis

GN=RCOM_1012250 PE=3 SV=1

Accession: tr|B9S943|B9S943_RICCO

Unused ProtScore: 16.77

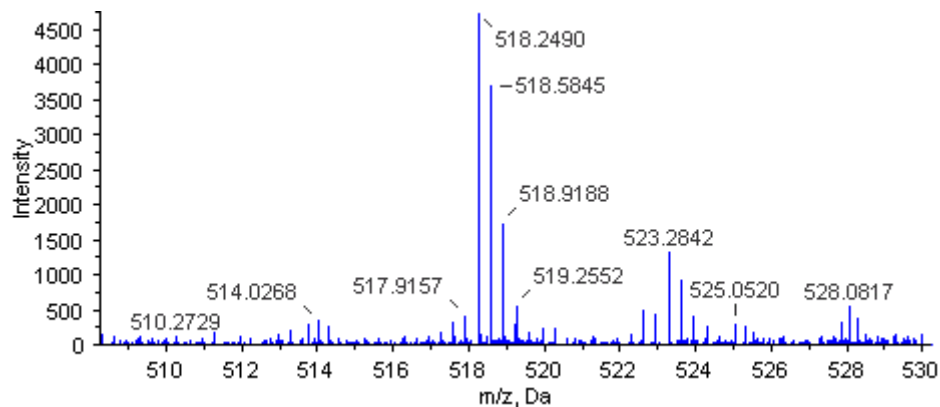
Seq Cov %: 39.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=0.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGAYR**ADDDYDYL**FKVVLIGDSGVGK**SNLLSR**FTR**NEFSLESK**STIGVEFATR**SIHVDDKVVKAQIWDT**
AGQERYRAITSAYYRGAVGALLVYDVTRHVTFFENVERWLKELRDHTDANIVIMLVGNKADLRHLRAITTI
EDATAFAQRQNTFFMETSALSMNVENAFTEVLTTQIYRVVSR**KALDIGDDPAALPR**GQTINVGSRDDVS
AVKKAGCCSS

Protein No.: I-83

Protein name and Species: cullin-associated NEDD8-dissociated protein 1-like [Vitis vinifera] OS=Vitis vinifera
GN=VIT_12s0035g01840 PE=4 SV=1

Accession: tr|F6HJZ9|F6HJZ9_VITVI

Unused ProtScore: 16.69

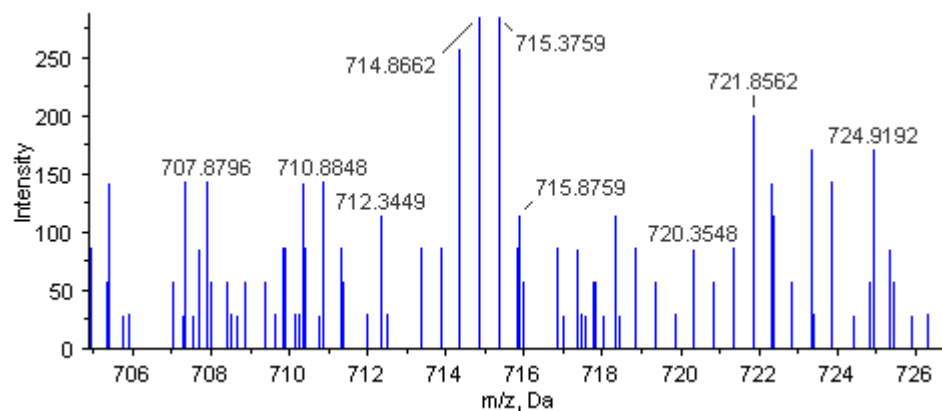
Seq Cov %: 7.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.23

116: 114=E5TL: D5TL=0.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANLAITSILEKMTGKDKDYRYMATSDLLNELNKEGFR**ADADLE**IKLSNIVLQQLLDDAAGDVSGGLAVKC
LAPLVKKVSETRLVEMTNKLCDKLLNGKDQHR**DIASIALK**TIVSEVTTSAVAQCVLVSLSPQLIKGITS
PGMT**TEMK**CECLDILCDVLHKFGNLMATDHELLLGGALL**SQLSSNQASVR**KKTVSCIASLASSLSDDL**LA**
KATVEVVRNLRSKGVKPEMTRTNIQMI GALSRAVGYRFGSHLGDTPVPLINICTSASENDEELREYSLQ
ALESFLLRCPRDISSYCDEILHLTLEYLSYDPNF^{TDNMEED}TDENHEEEEDDESATEYTDDEDVSWKV
RRAAAKLAALIVSRPEMLSKLYEEACP**LIDRFKEREENVK**MDVFNTF**IELLR**QTGNVTKGQTDMNEL
SPRWLLKQEVPKIVKSINRQLREKTIKTK**VGAFSVLK**ELVVVLPDCLADHIGSLISGIEKALSDKSSTS
NLKIEALIFTRLVLASHSPSVFHPYIK**ALSSPVL**SAVGERYYKVTAEALR**VCGELVR**VVRPNIEGYG**FD**
FKPYVHP IYNAIMTRLTNQDQDQEVKECAISCMGLLVSTFGDNLR**AELPACLPVLVDR**MGNEITRLTAV
KAFAVIATSPLNIDLSCVLEHVIAELTAFLRK**ANRALR**QATLGTLSLIVAYGDKIGSSAYEVIIVELS
SLISDSDLHMTALALELCCTLMADKRASPNGLAVRNKVLPQALTLIKSSLLQGQALMALQNF^{FATLVY}
SANTSFDALLDSLSSAKPSPQSGGVAKQALCSIAQCVAVLCLAAGDQKCSTTVKMLTDILRDDS**SSNS**
AKQHLALLCLGEIGRRKDLSSHAHIENIVIESFQSPFEEIK**SAASYALGNIAVGNLSKYL**PFILDQIDN
QOKKQY**LLLHSLK**EVIVRQSVDK**AEFQDSSVEK**ILK**LLFNHCESEEEGVR**NVVAECLGKIALIEPAKLV
PALKVR**TASPAAFTRATVVI**AVKY SIVERPEKIDEI IYPEISSFLMLIKDHRHVRRAAVLALSTAAHN
KPNLIKGLLPELLPLLYDQTIVKQELIRTVDLGPFKHIVDDGLELRKAAFECVDTLLDSCLDQV**NPSSF**
IVPYLKSGLDDHY**DVK**MPCHLILSKLADKCPSAVLAVLDSLVDPLPKTINFKPKQDAVK**QEVDRNEDMI**
RSALRAIASLNRISGGDCSLKFKHLMNEISKSSTLWEKYHSIRNE

Protein No.: I-85

Protein name and Species:

Proteasome subunit alpha type OS=Ricinus communis

GN=RCOM_0711430 PE=3 SV=1

Accession: [tr|B9RR89|B9RR89_RICCO](#)

Unused ProtScore: 16.45

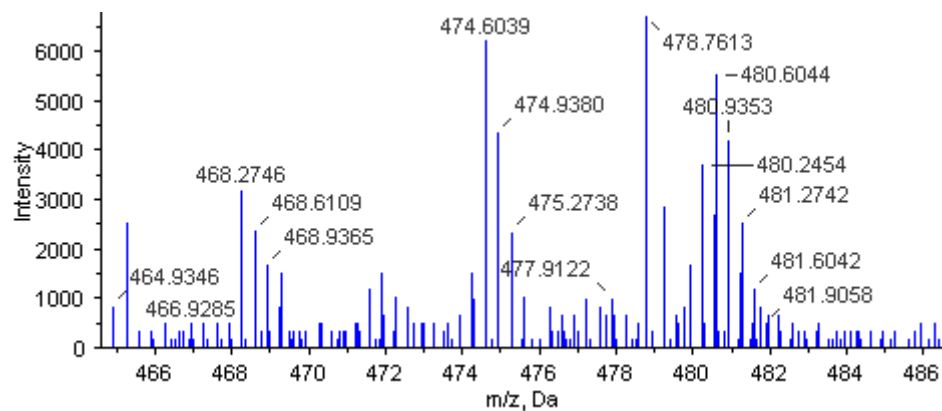
Seq Cov %: 40.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.71

116: 114=E5TL: D5TL=1.12

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSRGSGGGYDRHITIFSP~~EGRL~~LFQVEYAFKAVKAAAVTSIGV~~RGK~~DSV~~CVVT~~Q~~Q~~KVPDKLLDQTSVTHL
FPITKYLGLLATGMTADAR~~TLV~~Q~~Q~~ARNEAAEF~~FR~~YGYEMPVDV~~LAR~~WIADK~~SQVYTQ~~HAYMRPLGVIA
MVLGIDEENGPQLYKCDPAGHFFGHKATSAGLK~~EQEAINFLEK~~KMKNDRAFTYEE~~TVQT~~AI~~SAL~~QSVLQ
EDFK~~A~~TEIEVGV~~V~~RAD~~DR~~V~~F~~RVL~~STEE~~IDEHLTAISERD

Protein No.: I-86

Protein name and Species:

Proteasome subunit alpha type OS=Glycine max PE=2 SV=1

Accession: tr|C6TKI4|C6TKI4_SOYBN

Unused ProtScore: 16.41

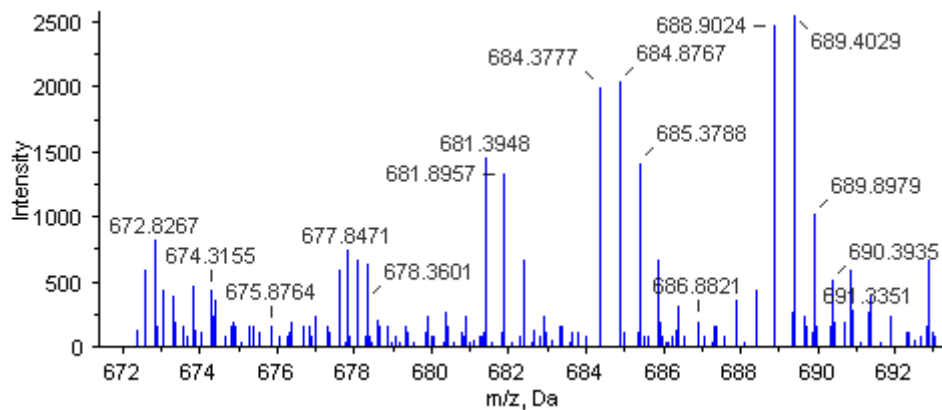
Seq Cov %: 37.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.07

116: 114=E5TL: D5TL=1.87

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGDSQYSFSLTTFSPSGKLVQIEHALTAVGSGQTSLGIKANGVVIATEKLP SILVDETSVQKIQ LST
PNIGVVYSGMGPDFRVLVRKSRKQAEQYHRLYKEPIPVITQLVREVAAVMQEFTQSGGVRPFGVSLLVAG
FDDNGPQLYQVDPGSGSYFSWKA SAMGNVSNAKTFLEKRYTDDMELDDAVHTS ILTLK EGFEGQISGKN
IEIGIIGADKKFRVLTPAEIDDYLA EVE

Protein No.: I-87

Protein name and Species:

Glucose-6-phosphate isomerase OS=Ricinus communis

GN=RCOM_1594100 PE=3 SV=1

Accession: tr|B9R7S8|B9R7S8_RICCO

Unused ProtScore: 16.33

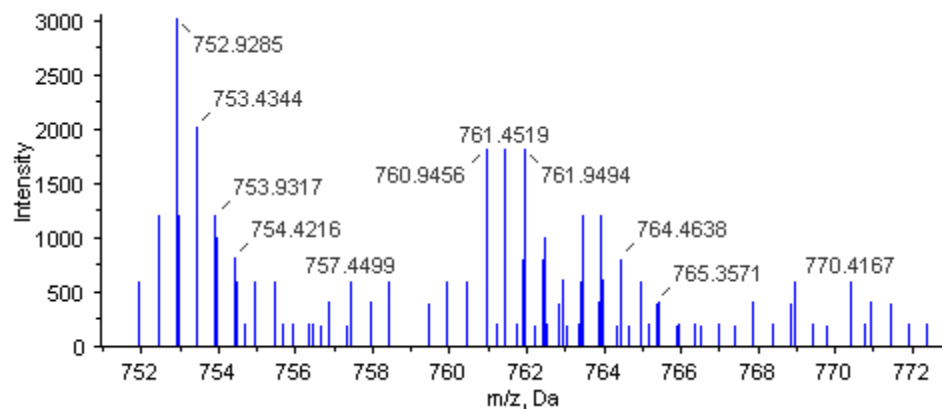
Seq Cov %: 16.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.41

116: 114=E5TL: D5TL=0.26

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MALSALICDTQPWKDLKAHVEDIKKTHLRNLLGDTERCKSMLEFDGIMLDYSRQTATI**DTLDKLYNLA**
EAAHLKEKIHRMFNGERINSTENR**SVLHVALR**APRDAIVNSDGK**NVVPDVWNVLDK**IKEFSERVRNGSW
VGATGKPLTDVIAIGIGGSFLGPLFVHTALQTDP**EASK**SAKGR**QLRFLANVDPIDVAR**NIAGLSPETTL
VVVVS**KFTTTAETMLNAR**TLRAWISR**ELGPSAVAK**HMVAVSTNLTLEKFGIDPNNAFAFWDWVGGRYS
VCSAVGVLPL**SLQYGF****SIVEK**FLKGASSIDQHFSSAPFEKNI PVLLGLLSVWNVSVLGYPAR**AILPYSQ**
ALEKLAPHIQVSMESNGKGVSMGVPPLPFETGEIDFGEPGTNGQHSF**YQLIHQGRVIPCDFIGVVK**SQ
QPVYLEGEVVNNHDELM SNFFAQP DAL**AYGK**TAEQLQK**ENVPQH**LIPHKTFSGNRPSVSILLSSLDAYK
IGQLLAIYEHRVAVQGFVWGINSFDQWV ELGKSLATQVRKQLNASR**TKGEPVEGFNFSTTTMLTRYLE**
ETSEVPAKPQTLLPRI

Protein No.: I-89

Protein name and Species:

**26S proteasome regulatory subunit S3, putative OS=Ricinus
communis GN=RCOM_0977830 PE=4 SV=1**

Accession: tr|B9S5K6|B9S5K6_RICCO

Unused ProtScore: 16.31

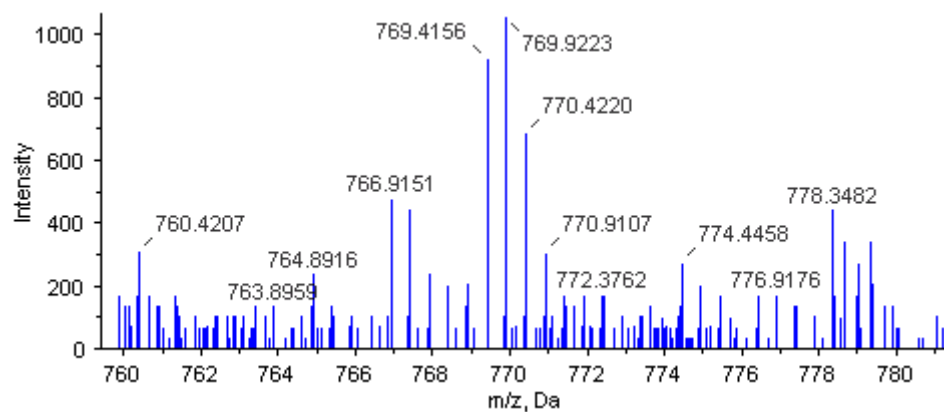
Seq Cov %: 19.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.11

116: 114=E5TL: D5TL=1.37

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTQDVEMKEVPAAAAAPSNSTTSSSPSTLQHLK**EIASLIETGAYAR**EVRRIVRAVRLTMALRRKLLKAQL
LSAFLNSILTPGSDPYTRLSSFLPKEDDHEMEVDTATSVTQAPAKHPLPELEMYCYLLVLIYLIDQKKY
NEAKACSTACIARLKNLNRRTVDVLAASRLYFYYSLSYELTGDLAEIRGNLLALHRIATLRHDELGQETL
LNLLLR**NYLHYNLYDQAEK**LRSKAPR**FEAHSNQQFCRYLFYLGK**IR**TIQLEYTDAK**ESLLQAARKSPVA
ALGFRVQCNK**WAIIVR**LLLGEIPER**TVFMQK**GMEKALRPYFELTNAVR**IGDLELEFK**SVAEKFSTIFSAD
RTHNLIVRLRHNVIR**TGLRNISISYSRISLADVAK**KLR**LDSANPVADAESIVAK**AIRDGAIDATLDHAN
GWMVSK**ETGDIYSTNEPQIAFNSR****IAFCLNMHNEAVR**ALRFPPNSHKEKESAEKRRERQQEQELAK**HI**
AEEDDDEF

Protein No.: I-95

Protein name and Species:

UDP-D-glucose pyrophosphorylase OS=Gossypium hirsutum

PE=2 SV=1

Accession: tr|D2D2Z1|D2D2Z1_GOSHI

Unused ProtScore: 16.17

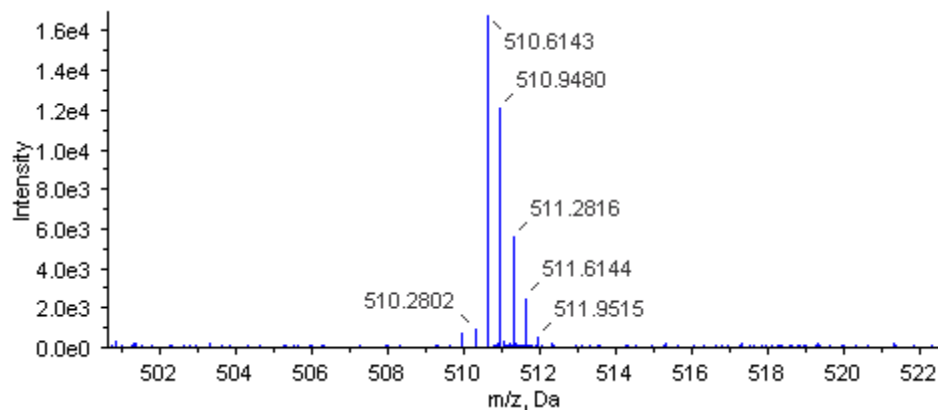
Seq Cov %: 27.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=0.74

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEKLEHLKSAVAALSEISENEKNGFINLVSRYLSGEAQHIEWSKIQTPTDEVVVPYDTLSPSPDDPAET
KLLDKLVVLKLNGLGTTMGCTGPKSVIEVRNGLTFLDLIVIQIENLNSKYGCNVPLVLMNSFNTHDD
TLKIVDKYSNIEIHTFNQSQYPRLVVEDFAPLPSKGQHGKDGWYPPGHGDVFP SLMNSGKLD AFLSQ
GKEYVVFVANS DNLGAI VDMKILNHLVQNKNEYCMEVTPKTLADVKGGTLISYEGKVQLLEIAQVPDEHV
NEFKSIEKFKIFNTNNLWVNLNAIKRLVEADALKMEIIPNPKEVNGIKVLQLETAAGAAIRFFDHAIGI
NVPRSRFLPVKATSDLLLVQSDLYTLVDGFVIRNKDRANPTNPSIELGPEFKKVGNFLSRFKSIPSIIE
LDSLKVTGDVWFGAGIVLKGKVSIAAKPGVKLEIPDGA VIEKKEINVPEDI

Protein No.: I-98

Protein name and Species:

**Eukaryotic translation initiation factor 2c, putative OS=Ricinus
communis GN=RCOM_0605410 PE=4 SV=1**

Accession: tr|B9SJV6|B9SJV6_RICCO

Unused ProtScore: 15.62

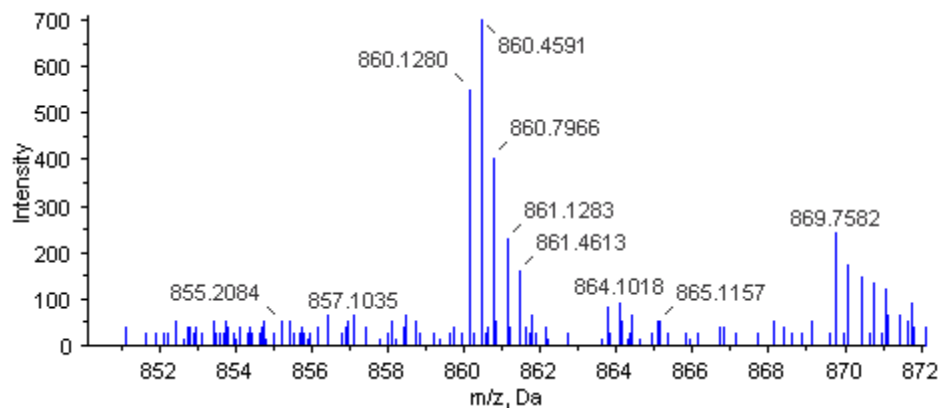
Seq Cov %: 14.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVRKRRTTEAPASGGESSEPHEAASGGSQRPYERNAPPQQGPGGPYQGGRSWGPPQSQQGG**RGGGGGR**SG
GMSQQQQYGGGPEYQGRGR**GPPQQGGRGGYGGGR**SSSNRGGPPSVGPPSRPPVPELHQATLAPYQAGVSP
QLMPSEGSSSSGPPPEPSPVVVAQQMQELSIQQEVSSSQPIQAPPPSSKSMR**FPLRP**GKGSTGIR**CIVKA**
NHFFAELPDKDLHQYDVTITPEVTSRQVNR**AVMEQLVK**LYRESHLGK**RLPAYDGR****KSLYTAGPLPFISK**
EFKITLIDEDDGGSGGQRREREFRRVVIKLAARADLHHLGLFLQGR**QADAPQEALQVLDIVLR**ELPTTRYC
PVGR**SFYSPDLGR**RQPLGEGLESWRGFYQSIRPTQMGLSLNIDMSSTAFIEPLPVIDFVNQLLNR**DVSS**
RPLSDADRVKIKKALRGVKVEVTHRGNMRRKYRISGLTSQATR**ELTFP**VDERGTMKSVVEYFYETYGFV
IQHTQWPCLQVGNQQRPN**YLPMEVCK**VVEG**QRYSK**RLNERQITALLKVTTCQRPQERERDIMQTVHNNAY
GNDPYAKE**FGIKISEK**LASVEARILPAPWLKYHDTGREKDCLPQVGQWNMMNKKMVNGGTVNNWICINF
SRNVQDSVARGFCYELAQMCI**ISGMAFNPEPVLPPVSARPEQVEK**VLKTRYHDAMTKLQQGKELDLLIV
ILPDNNGSLYGELKR**ICETDLGLVSQCCLTK****HVFR**MNKQYLANVALK**INVK**VGGRNTVLVDALSRRIPL
VSDRPTIIFGADVTHPHPGEDSSPSIAAVVASQDW**PEVTKYAGLVCAQHRQELIQDLFK**EWQDPVGRGR
VTGMIK**ELLISFR**RATGQKPQR**IIFYR**DGVSEGFYQVLLYELDAIRK**ACASLEPNYQPPVTFVVVQK**
RHHTRLFANNHNRNAVDSGNILPGTVVDSKICHPTEFDYLCSHAGIQGTSRPAHYHVLWDENK**FTA**
DGLQSLTNNLCYTYARCTR**SVSIVPPAYYAH****LAAFR**ARFYMEPETSDSGSMTSGPVGGRGGMGGGAGAR
STRGPA**AASA**AVRPL**PALK**ENVKRVMFYC

Protein No.: I-99

Protein name and Species:

Coatomer subunit beta OS=Vitis vinifera

GN=VIT_04s0008g02320 PE=3 SV=1

Accession: tr|A5AHP0|A5AHP0_VITVI

Unused ProtScore: 15.49

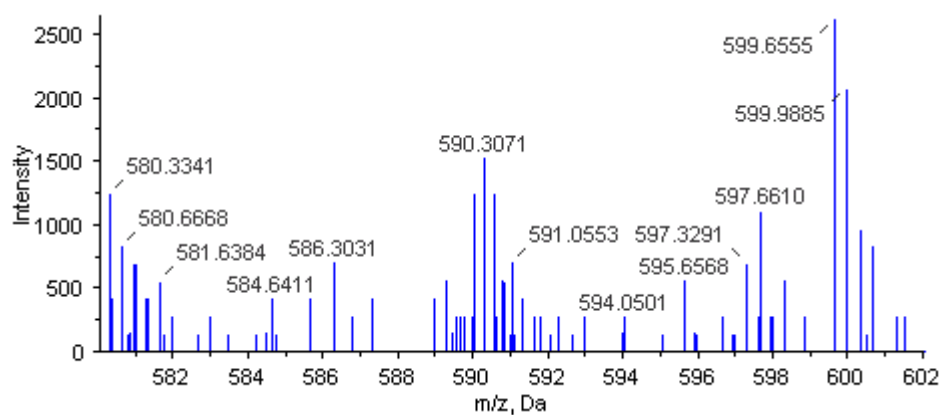
Seq Cov %: 11.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.80

116: 114=E5TL: D5TL=1.49

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEKSCSLLIYFDK**GTPAIAANEIK**EALEGNDDYAKI**EAMK**KAIMLLLNGETLPQLFITIVRYVLPSEDHT
VQKLLLLYLEIIEK**TDAK**GK**VMP**EMLI**CQNLR****NNLQHPNEYIR**GVTLRFLCRLNEAEIIEPLIPSVLQ
NLEHRHPPFIRRNAILAVMSIYK**LPQGEQLLVD**AP**EMIEK**VLSTEQDPSAKR**NAFLMLFTCAQDRAINYL**
LTHVDRVPEWGELLQMVV**LELIR**KVCR**TNR**GEK**GKYIKIIIS**LLNAPSTAVIYECAGTLVSLSSAPTAI
R**AAANTYCQLLLSQSDNNVK**LIVLDRLNELKSSHREIMVDMIMDVLR**ALSSPNLDIRR**KTLDIVLELIT
PR**NINEVVLTLK**KEVVKTQSGELEKNGEYR**QMLIQAIHSCAIK**FPEVASTVVHLLMDFLGDSNVASAI
VVVFVR**EIIETNPKLRVSIITRLLD**TFY**QIR**AARVCSALWIIGEYCLSLSEVESGITTIKQCLGDLPF
FSVSEEGEASDSSKKVQV**NATT**VSSRRPAVLADGTYATQSAASETAFSPPTLVQGSLSGNLRSLLLT
GDFFLGAVVACTLTKLVLRL**EEVQPSK**AEVNKVSSQALLIMVSMQLGQSSVLPHPIDNDSYDRIVLCI
RLLCNTGDDIRKIWLQSCRQSYVKMLADKQLRETEEIKAKAQISYAQPDDLIDFYHLKSRK**GMSQLELE**
DEVQDDLKRATGEFIKDGDDANKLNRILQLTGFSDPVYAEAYVTVHHDIVLDVTVINRTKETLQNLCL
ELATMGDLK**LIVDRPQNYTLAP**ESSKQIKANIKVSSSTETGVIFGNIVYETSNVHERMVVVLNDIHIDIMD
YISPAVCTDVAFRTMWA**EFEWENKVAVNTVLQNEKEFLEHIK**STNMKCLTASSALDGDGCGFLAANLYA
KSVFGEDALVNISIEKQADGKLSGYIRIRSK**TQGI**ALS**SLGDK**ITLKQKGG

Protein No.: I-102

Protein name and Species:

Nucleoredoxin, putative OS=Ricinus communis

GN=RCOM_0528050 PE=4 SV=1

Accession: tr|B9SH99|B9SH99_RICCO

Unused ProtScore: 15.18

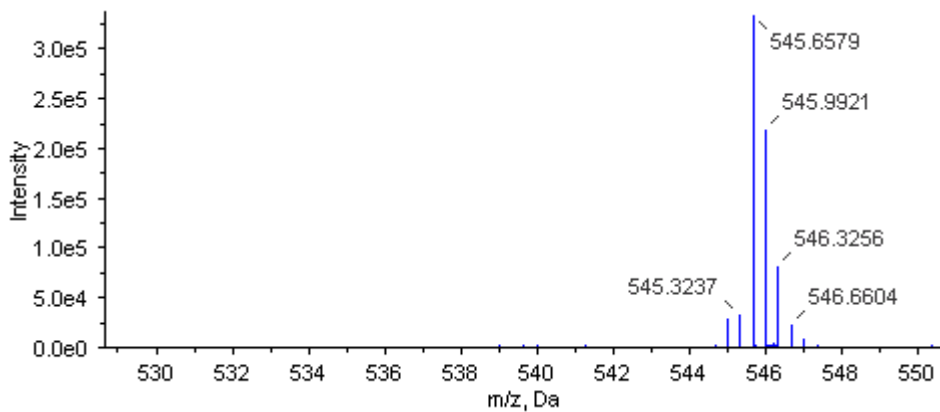
Seq Cov %: 18.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.42

116: 114=E5TL: D5TL=0.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADDPVIDVSHDLL**SLLSDDDRDFLIR**SNGDQVK**ISNLV**GKIVGLYFSGSWCGPCRHFTPNLVQVY**EE**
SLKGDFFEVVFISSDRDAESFDAYFSKMPWLAIPFSDQETCKHLKDLFKVRGIPNLVFLDADGKVS CDQG
VRFIR**EYGAEGYPFTPER**VEYFRQEEENAK**KNQTLSSILVSSSR**DFLISKDGTK**IPVSELE**GKMVGLYF
SVHSHRLCLDFTPRLEEYVKLKEKGEKFEVVLISMDYDENNF**KQGLE**TPWLAL**PFEDK**SRERLARYF
EL**SALPTLVIIGEDGK**TLNK**NVAELIEGHGIQAYPFTPEK**L**VELAEIEK**AR**LEAQTLESVLVHGDK**DFV
IE**ESGSKVPVSELVGNILLYFS**AK**WCPPCRAFLPKLIEAYHEIK**AK**DNAFEIIFISSDR**DQSSFDEFY
TEMPWLALPFGDDRKTILQRKFKIK**GIPAAIAISPT**GKTLTKEAREHITAYGADAYPFNEDHLKQLNDK
QEEIAGWPEKVRHELHPEHELVRMKRNGYGCDGCKEAGSGWSFYCKKCDFDLHPKCALKKEENGEKVK
K

Protein No.: I-106

Protein name and Species:

L-lactate dehydrogenase OS=Ricinus communis

GN=RCOM_0540790 PE=3 SV=1

Accession: [tr|B9SIT3|B9SIT3_RICCO](#)

Unused ProtScore: 14.96

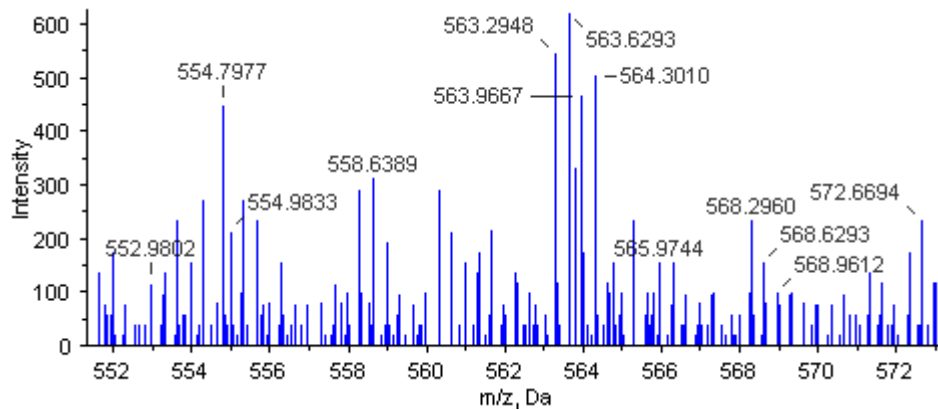
Seq Cov %: 32.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.44

116: 114=E5TL: D5TL=0.76

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MQQSSSAASLGPGLDLSQVFFKPIHNTSPPSPTKRHTKISVIGTGNVGMIAIAQTILTQDLADELALVD
VNPKNLR**GEMLDLQHAAAF**LPR**TKILASPDYSVTIGSDLCIVTAGARQIPGESR**L**NLLQR**NVTLFKNI I
PPLAKYSPDSILMIVSNPVDILTFIAWK**LSGFPSNR**V**VGSGTNL**SSRFRFLIADHLDVNAQDVQAYIV
GEHGDSSVALWSSISVGGVPILSFLEKQDIAYEK**ETLENIHKAVVDSAYEVISLKGYSWAIGYSAANL**
ARSLLRDQRKI**HPVSVLAKGFY**GIDGGDVFLSLPAQLGRGGV**LGVTNVHLTEEEAQR**LRDSAKT**LLE**VQ
SQLGI

Protein No.: I-108

Protein name and Species:

26S proteasome regulatory subunit 4 homolog A [Vitis vinifera]

OS=Vitis vinifera GN=VIT_07s0005g05160 PE=3 SV=1

Accession: tr|A5BEF3|A5BEF3_VITVI

Unused ProtScore: 14.87

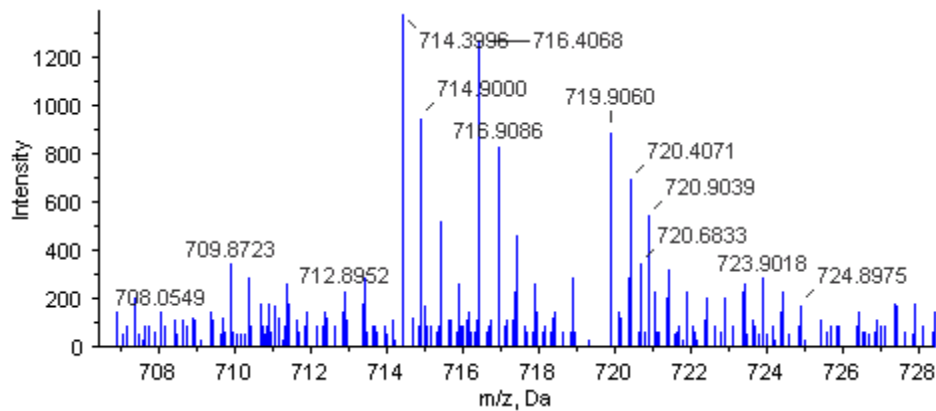
Seq Cov %: 27.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=1.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGQASGGLNRQGLPGDRKNDGDKKEK**KFEPAAPPAR**VGRKQQRKQKGPEAAARLPTVTPLSKCKLRLLLK
LERIKDYLLMEEEFVSNQERLKPQEEKTEEDRSKVDDLRGSPMSVGNLEELIDENHAIVSSSVGPEYYV
GILS**FVDK**DQLEPGCAILMHNKVLVSVVGLLQDEVDPMVSVMKVEK**APLESYADIGGLDAQIQEIK**EAVE
LPLTHPELYED**IGIK**PPK**GVILYGEPTGK****TLLAKAVANSTSATFLRVVGSSELIQK**YLGDPKLVRELF
RVADDLSPSIVFIDEIDAVG**TK**RYDAHSGGEREIQ**RTMLELLNQLDGFDSR**GDVK**VILATNR****IESL**DPA
LLRPGRIDRK**IEFPL**DIK**T**RRR**IFQIHTSRMTLADDVNLEEFVMTKDEFSGADIK**AICTEAGLLALRE
RRMKVTHVDFKKAKEKVMFKK**KEGVPEGLYM**

Protein No.: I-109

Protein name and Species:

**Chaperonin containing t-complex protein 1, eta subunit, teph,
putative OS=Ricinus communis GN=RCOM_0395630 PE=3
SV=1**

Accession: tr|B9SS36|B9SS36_RICCO

Unused ProtScore: 14.75

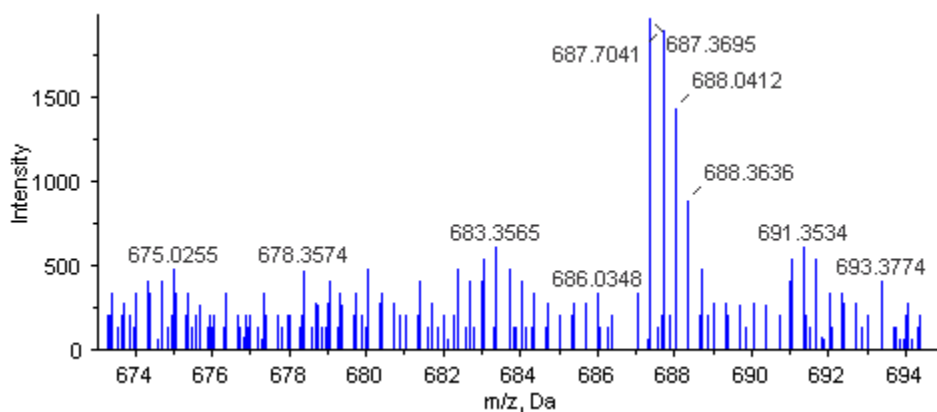
Seq Cov %: 17.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.55

116: 114=E5TL: D5TL=0.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAMLQPQIILLKEGTDTSQGKAQLVSNINACTAVADVVR^TTLGPRGMDKLIHDDKGNVTISNDGATIM
KLLDIVHPAAKILVDIAKSQDSEVGDGTTTVVLLAAEFLKEAKPFIEDGVHSQNLIRSYRTACNLALEK
IRELAFSIEGKSIEEKKSLLAKCASTTSSKLIIGGEKEFFAQMVVDAVIAIGNEDRLNMIGIKKVPGGN
MRDSFLVNGVAFKKTF^SYAGFEQ^QPKKFVNPKLLLLNIELELKSEKENAEIRLSDPSEYQSI^VDAEWNI
IYDKLDKCVQSGAKVVL^SR^LLAIGDLATQYFADR^DIFCAGRVAEEDLQRVAAATGGTVQTTVNNIIDEVL
GTCEIFEEKQVGNERNIFSGCPSGKTATIVLRGGADQFIEEAERSLHDAIMIVRRAMK^NSTVVAGGGA
IDMEISRFLRQHARTIAGKSQLFINSYAKALEV^IPRQLCDNAGFDATDVLNKL^RQKHALPSGEGAPFGV
DINTGGIADSFANFVWEPVVKINAINAATEAACLILSVDETVKNPK^SESAQGEAAAGAMGGRGRGGAA
FRGRGRGMRRR

Protein No.: I-112

Protein name and Species:

Lactoylglutathione lyase, putative OS=Ricinus communis

GN=RCOM_0904280 PE=4 SV=1

Accession: tr|B9RXK1|B9RXK1_RICCO

Unused ProtScore: 14.47

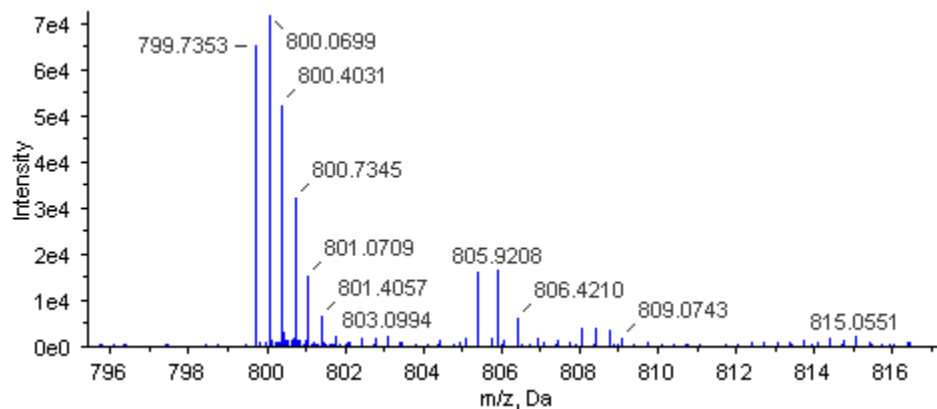
Seq Cov %: 30

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.08

116: 114=E5TL: D5TL=0.10

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAEATAPNADVLEWPKKDK**RRL**LHAVYR**VGD**LDR**T**IK**FY**TECFGMKLLRKRDIPEEKYSNAFLGFGPE
ETNFVVELTYNYGVTSYDIGTGFGHFAIATQDVYKLVVEEVL**AK**GGAVTREP**GP**VK**GG**TTVIAFVKDPDG
YIFELIQRGPTPEPL**CQ**VMLR**VGD**LDRSIR**FY**EKALGMKLLRKYDKPEYKYTLAMMGYADEYETTIVLEL
TYNYGVTEYTK**GN**AYA**Q**VA**I**STDDVYK**SA**EVVNLV**TQ**ELGGKITR**Q**PGPI**P**GLNTKITSFLDPDG**W**KTK
RKRR

Protein No.: I-115

Protein name and Species:

Glucose 4-6-dehydratase, putative OS=Ricinus communis

GN=RCOM_1185970 PE=4 SV=1

Accession: tr|B9SN65|B9SN65_RICCO

Unused ProtScore: 14.31

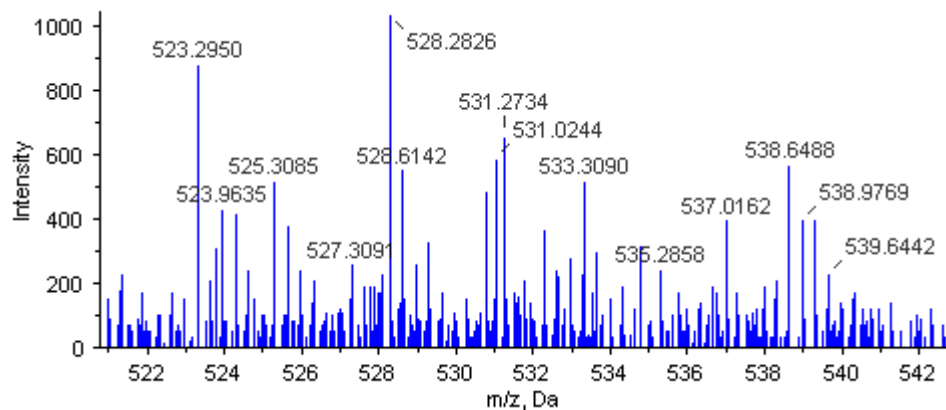
Seq Cov %: 28.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.10

116: 114=E5TL: D5TL=1.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANR**V****D****L****D****G****R**PIKEMTIC**M****I****G****A****G****G****F****I****G****S****H****L****C****E****K**ILNETPHK**I****L****A****L****D****V****Y****N****D****K**IKHLLLEPDSLPLWAGRIQF
HRINIKHDSR**L****E****G****L****I****K****M****A****D****L****T****I****N****L****A****A****I****C****T****P****A****D****Y****N****T****R**PLDTIYSNFI**D****A****L****P****V****V****K**YCSENNKRLIHFSTXX
SYFSWDPAYYILKEDESPCIFGSI**E****K****Q****R****S****Y****A****C****A****K****Q****L****I****E****R****L****I****Y****A****E****G****A****E****N****G****L****E****F****T****I****V****R****P****F****N****W****I****G****P****R****M****D****F****I**
P**G****I****D****G****P****S****E****G****V****P****R****V****L****A****C****F****S****N****A****L****L****R****G****E****P****L****K****L****V****D****G****G****Q****S****Q****R****T****F****V****Y****I****K****D****A****I****E****A****V****L****L****M****I****E****N****P****A****R****A****N****G****H****I****F****N****V****G****N****P**
H**N****E****V****T****V****K****Q****L****A****E****M****M****T****E****V****Y****S****K****V****S****G****E****P****V****L****E****V****P****T****V****D****I****S****S****K****E****F****Y****G****E****G****Y****D****D****S****D****K****R****I****P****D****M****T****I****I****N****R****Q****L****G****W****N****P****K****T****S****L****W**
DLLESTLTYQHR**T****Y****A****E****A****I****K****K****V****L****A****K****P****T****S**

Protein No.: I-117

Protein name and Species:

Regulator of ribonuclease activity A OS=Populus trichocarpa

GN=POPTRDRAFT_738638 PE=2 SV=1

Accession: tr|A9PFQ6|A9PFQ6_POPTR

Unused ProtScore: 14.13

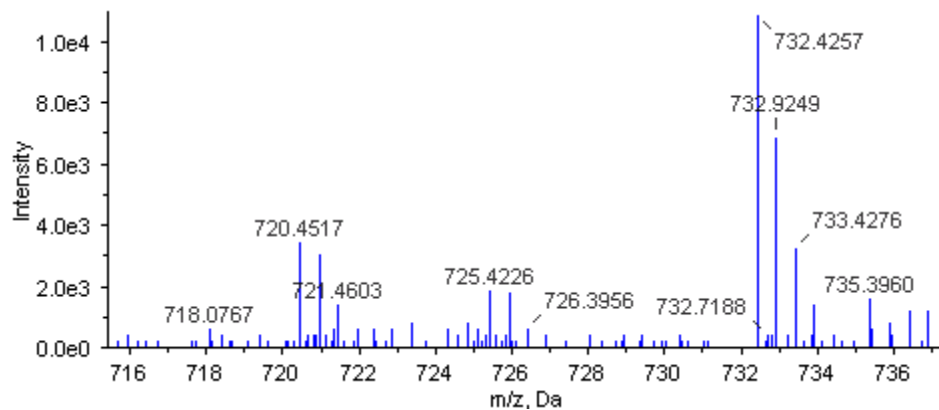
Seq Cov %: 42.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.30

116: 114=E5TL: D5TL=0.37

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MALVTTAEVCDANPQLIVSGELR**ALQPIFQIYGR**RQVFSGPVVTLKVFEDNVLIR**EFLEEK**GNGRVLVV
DGGGSLRCAAILGGNPVVQAQNNGWAGIVVNGCIR**DVDEIMGCDIGVR**ALASHPMKANKKGI**GEK****HVPIT**
IGGTRISDGEWLYADTDGILISRTELA

Protein No.: I-119

Protein name and Species:

**Hydroxymethylglutaryl coenzyme A reductase OS=Hevea
brasiliensis PE=2 SV=1**

Accession: tr|Q547W6|Q547W6_HEVBR

Unused ProtScore: 14.02

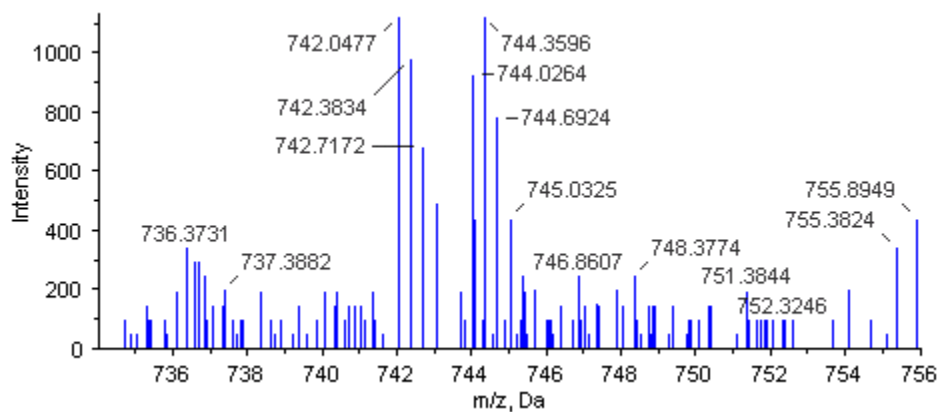
Seq Cov %: 22.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.22

116: 114=E5TL: D5TL=0.28

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDTTGRLHHRKHATPVEDRSPTTPKASDALPLPLYLTNAVFFTLFFSVAYYLLHRWRDKIRNSTPLHIV
TLSEIVAIIVSLIASFIYLLGFFGIDFVQSFIARASHDVWDLEDTPNYLIDEDHR**LVTCPANISTKTT**
IIAAPTKLPTSEPLIAPLVSEEDMIVNSVVDGKIPSYLESKLGDCKRAAAIRREALQRMTRRSLEGL
PVEGFDYESILGQCCEMPVGYVQIPVGIAGPLLLNGR**EYSVPMATTEGCLVASTNR**GCK**AIYLSGGATS**
VLLKDGMTRAPVVRFASATR**AAELK**FFLEDPDNFDTLAVVFNKSSRFARLQGIK**CSIAGK**NLYIR**FSCS**
TGDAMGMNVSKGVQNVLEFLQSDFSMDVIGISGNFCSDKKPAAVNWIEGRGKSVVCEAIKEEVVKK
VLK**TNVALVELNMLKNLAGSAVAGALGGFNAH**AGNIVSAIF IATGQDPAQNVESH C ITMMEAVNDGK
DLHISVTMP SIEVGT VGGGTQLASQSACLNLLGVKGANKE SPGSNSRLLAAI VAGSVLAGELSLMSAIA
AGQLVKSHMKYNRSSKDMSKAAS

Protein No.: I-122

Protein name and Species:

villin-2 OS=Populus trichocarpa GN=POPTRDRAFT_576360

PE=4 SV=1

Accession: [tr|B9II82|B9II82_POPTR](#)

Unused ProtScore: 13.95

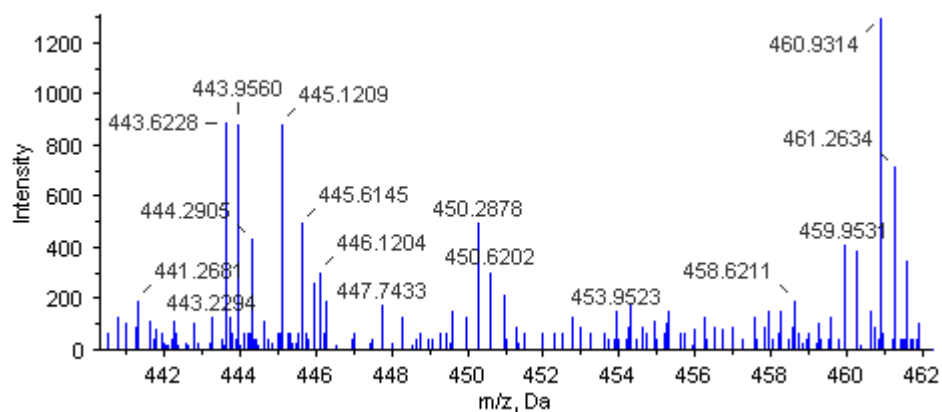
Seq Cov %: 13.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=1.19

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSSSAKALDPAFQGVGQRPGETE IWR IENFQPVPLPKSDHGK F YMGDSYIVLQTTTGKGGAYLYDIHFWI
GK DTSQDEAGTAAIKTVELDAVLGGR AVQHR ELQHESDK FLSYFKPCIIPLEGGVATGFKKVEEEAFE
IRLYVCRGKRVRRLKQVPFARSSLNHDDVFI LDTEKK IYQFNGANSNIQER GK ALEVIQFLKEK YHEGT
CDVAIVDDGKLDTESDSGEFWLFGGFAP I GKK VANEDDI IPETTPAK LYSITDGEVK IVEGELSKGLL
ENNKCYLLDCGAEIFVWVGRVTQVEERK AASQAEEFVASQNRPK TTQLTRLIQGYETRSFKTNFDSWP
AGSAAPGAEEGRGK VAALLKQQGVGLK GMTK SAPVNEEVPPILLEGGGK MEVWCINGSSKTPLPKEDVGK
FYSGDCYI ILYTYHSGDRKEDYLLCCWFGNDSSEIHGHP IQEDQKMAAR LANTMSNSLK GRPVQGRIFQ
GKEPPQFVALFQPIVILKGGLSGGYKKSIAEK GLSDETYTADSVLFR ISGTSVHNDKAVQVDAVATSL
NSAECFLQSGSSIFTWHGNQSTFEQQQLAAK LAEFLKPGVALK HAKEGTESSAFWFALGGK QSYTSKK
FSPETVR DPHLFTFSFNK GKFQVEEVYNFSQDDLLETEDILILDTHAEVFWVWGQYVDPKEKQNVFDIGQ
KYIEMAVSLDGLSPNVPLYKVTEGNEPSFFTYYFSWDLTK ATVQNSFQK KAALLFGLGHHVVEERSNG
NQGGPTQR ASALAALSSAFNPSSGK SLLDRSNGSNQGGTTQR ASALAALSSAFNSSPGSK TTASRPSG
TGQGSQRRAAVAALSSVLTAEEKKQTPETSPSRSPPESETNLPEGSEGV AEVK EMEETASVSESNGGEDSE
RKQDTEHGESDDGNGQSTFC YDQLKAHSDNPVK GIDFKRREAYLSDEEFQTIFGVTKEAFYKMPKWKQD
MQKKKFDLF

Protein No.: I-125

Protein name and Species:

Cysteine synthase OS=Vitis vinifera GN=VIT_14s0030g01560

PE=3 SV=1

Accession: tr|F6HTU8|F6HTU8_VITVI

Unused ProtScore: 13.43

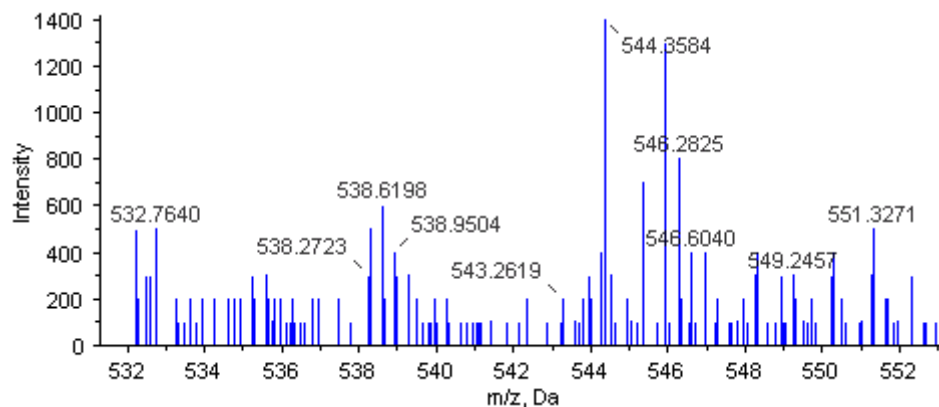
Seq Cov %: 11.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.17

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MIQKKSELIL IYNIKLGNLILNL ILFVRFIQEKQFAILPSLFIKVVSVETVGDVQKPQNRKKKQRIKKG
DLVVGISGDLCEMAEEKCFIAKDVTELIQK TPLVYLNNVVDGCVARIAAK LEMMEPCSSVKDRIGYSMI
TDAEEKGLITPGESVLI EPTSGNTGIGLAFMAAAKGYK LIITMPASMSLERRIILRAFGAELVLTDPAK
GMKGAVQKAEIILAKTPNSYILQQFENPANPKIHYETTGP E IWRGTGGKVDAFVSGIGTGGTITGAGKF
LKEQNSDIKLYGVEPVESAVLSGGKPGPHKIQGIGAGFIPGVLDVNLLEDEVVQVSSEEAIETA KLLALK
EGLLVGISSGAAA AAIAKLAKRPENAGKLI VVVFP SFGER YLSSVLFDSVKREAEENMLKKKHGGQMLDC
KRCYRTSIAVKLEAMEPCSSVKDRI ALSMIK DVEDKGLIQLGKTVLIEPTSGNSGIELAYIAAVKGYKL
ILAMPASMSRERRIVLRAFGDELHLLTDPVKG IKG IHEKAEELLEKTPYGYMLKQFANPANPKIHYETTGT
E IWRGCGGKVDV FVSGVGTGGTVTG VGRFLKEKNPDIKVYGVPEPAESAVLNGGEPGLHKIQGIDPGFIT
PILDVSILDEVVPI SSEEAIETA KLLALK EGLLVGKPSGVAAAAAIK IAKRPENAGKLI VVVFP SFGER
YLSTVLFDSIR

Protein No.: I-129

Protein name and Species:

Proteasome subunit alpha type OS=Glycine max PE=2 SV=1

Accession: [tr|C6TGU2|C6TGU2_SOYBN](#)

Unused ProtScore: 13.13

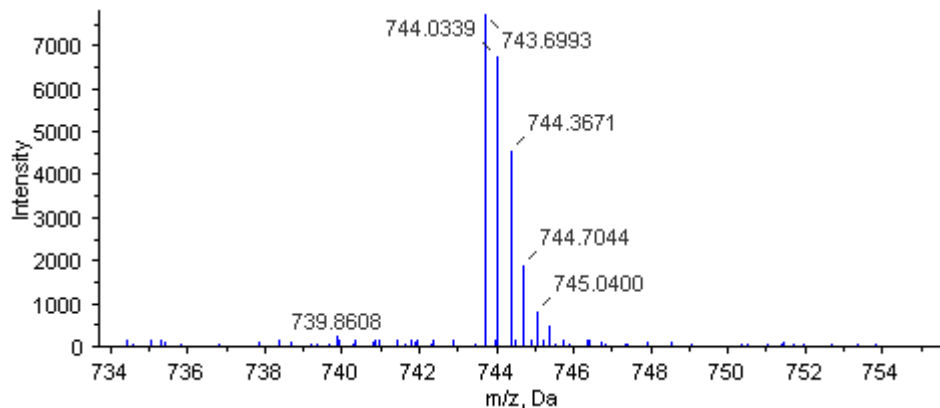
Seq Cov %: 39.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MFLTRTEYDRGVNTFSPEGRLFQVEYAIEAIKLGSTAIGLKTKEGVVLAVEKRITSPLLEPSSVEKIME
IDEHIGCAMSGLIADARTLVEHARVETQNHRRFSYGEPMTVESTTQALCDLALRFEGEGDEESMSRPFQVVS
LLIAGHDENGPSLYYTDPSGTFWQCNGKAIGSGSEGADSSLQEYQNKDLTLQEAETIALSILKQVMEEK
VTPNNVDIAKVAPTYHLYTPSEVEAVISRL

Protein No.: I-131

Protein name and Species:

40S ribosomal protein SA OS=Glycine max PE=2 SV=1

Accession: sp|O22518|RSSA_SOYBN

Unused ProtScore: 12.95

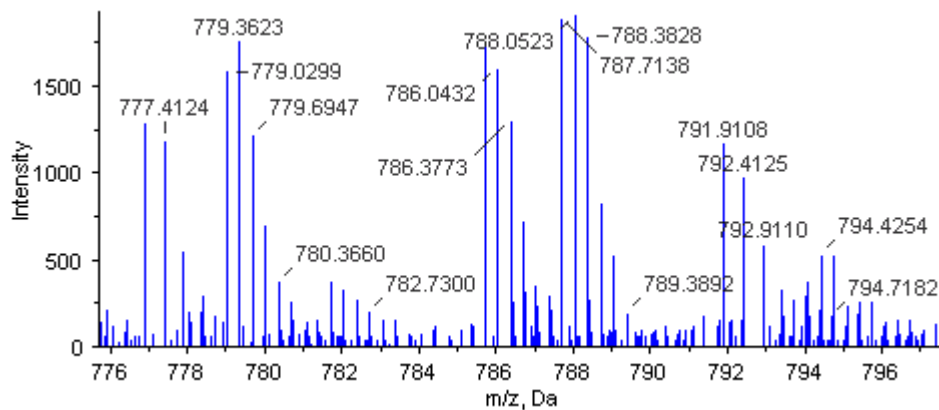
Seq Cov %: 31.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.47

116: 114=E5TL: D5TL=1.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATATNAAAAPPRLQSQKEADIQMMLAADVHLGTKNCDFQMERYIFKRRNDGIYIINLGKTWEKQLAA
RVIVAIENPQDIIVQSARPYGQRAVLKFAQYTGAAHAIAGRHTPGTFTNQLQTSFSEPRLLLLTDPRTDH
QPIKEAALGNIPTIAFCDDTDSPMRYVDIGIPANNK GKHSIGCLFWLLARMVLQMRGTIRPGLKWDVMVD
LFFYREPEEAKQQEEEEAPVDYAITDFNAGAIAADGQWPGTIDQSWSDAVPQPIPAVPGVNWGAPAEA
PAAAGGDWGEAVPPPQIPVPPSGIDTVQPSGWD

Protein No.: I-132

Protein name and Species:

UDP-D-glucose dehydrogenase OS=Gossypium hirsutum PE=2

SV=1

Accession: tr|D2D2Z2|D2D2Z2_GOSHI

Unused ProtScore: 12.91

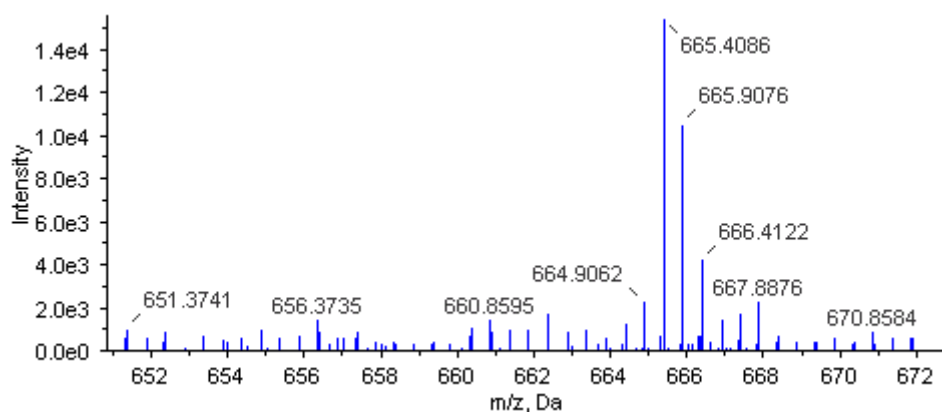
Seq Cov %: 19.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.27

116: 114=E5TL: D5TL=1.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MK**IC**CIGAGYVGGPTMAV**I**ALKCPDIEVAVVDISVPRIAAWNSDQLPIYEPGLDGVVKECRGRNLFFST
DVEKHVREADIVFVSVNTP**T**TK**TR**GLGAGKAAD**L**TYWESAARM**I**ADV**S**KSDKIVVEKSTVPV**K**TAE**A**IE**K**
ILTHNSKGIKFQILSNPEFLAEGTAIQDLFNP**DR**V**L**IG**GR**ETPEGNKAVQALKEVYAHWVPEER**IL****TT****N**
LWS**A**EL**S**KL**A**AN**A**FL**A**Q**R****I**SS**V**N**A**M**S**AL**C**EAT**G**AD**V**T**Q**V**S**Y**A**V**G**KDTRIGPKFLNASVGFGGSCFQKDI
LNLVYICECNGLPEVAEYWKQVI**K****I**ND**Y**Q**K**NR**F**V**N**R**V**SS**M**FN**T**V**S**N**K****I**AIL**G**F**A**F**K**KDTGDTR**E**TP**A**
ID**V**CKGL**L**GDKAR**L**SI**Y**DP**Q**VT**E**D**Q**V**Q**RDL**S**M**N**K**F**D**W**D**H**PL**H**L**Q**P**M**S**P**T**T**V**K**Q**V**S**W**V**W**D**A**Y**E**A**T**K**D**A**H**G
ICILTEWDEFKKLDFKR**I**Y**D**N**M**Q**K**P**A**F**V**F**D**GRNIVNADELREIGFIVYSIGKPLDPWLKDMPAVA

Protein No.: I-133

Protein name and Species:

Farnesyl diphosphate synthase OS=Hevea brasiliensis GN=FDP

PE=2 SV=1

Accession: tr|Q8L7F4|Q8L7F4_HEVBR

Unused ProtScore: 12.91

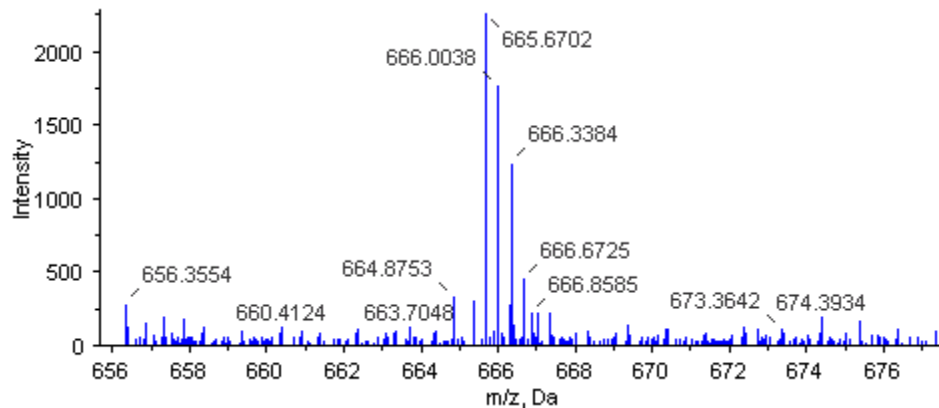
Seq Cov %: 25.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.56

116: 114=E5TL: D5TL=0.73

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADLKSTFLK**VY****SVL****KQ**ELLEDPAFEWTPDSRQWVER**MLDYNVPGG**LN**RGLSVIDSYK**LLKEGQELTE
EEIFLASALGWCIEWLQAYFLVLDDIMDSSHTRR**GQPCWFR**VPK**VGLIAANDGILLR**NHIPRILKKHFR
GKAYYVDLLDLFNEVEFQTASGQMIDLITLLEGEKDL**SKY****TLSLHR**RIVQYKTAYYSFYLPVACALLIA
GENLDNHIVVKDILVQMGIFYFQVQDDYLDCEGDPETIGK**IGTDIEDFK**CSWL**VVKALELCNEEQK****KVLY**
EHY**GKADPASVAK**V**KVLYNELK**LQGV**FTEYENESYK**KL**VTSIEAHPSK**PVQAVLKSFLAKIYKRQK

Protein No.: I-134

Protein name and Species:

Serine/threonine-protein phosphatase OS=Vitis vinifera

GN=VIT_13s0156g00060 PE=3 SV=1

Accession: tr|F6HPS0|F6HPS0_VITVI

Unused ProtScore: 12.79

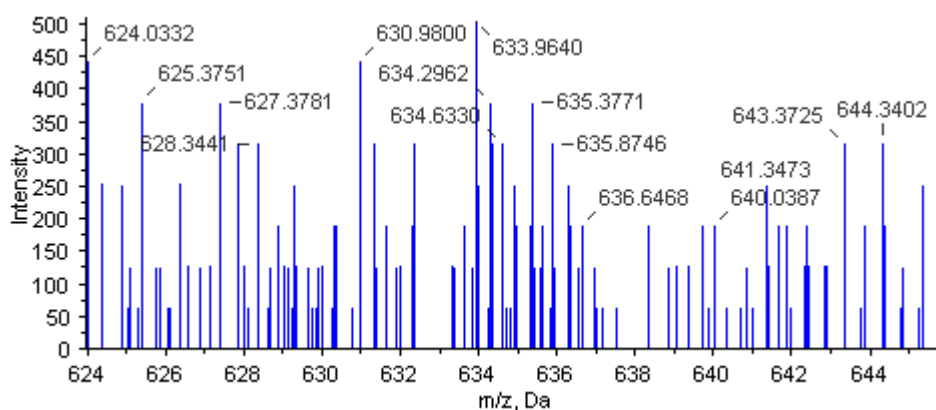
Seq Cov %: 27.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.21

116: 114=E5TL: D5TL=0.77

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDLISSSDSHGNLDAQISQLMQCKPLSEQEVRTLCEKAKEILMEESNVQPVKSPVTICGDIHGQFHDLAE
LFRIGGKCPDTNYLFMGDYVDRGYYSVETVTMFVKSNNKQDRVSKSPTKFEYRTMSLACSKIIWLRGLLA
ELDFSETDPTPLHADNTSANQITTNPVYHERTKHIEVDCHSIRAAFEARLLVALKVRYPQRITILRGNH
ESRQITQVYGFYDECLRKYGNANVWKIFTDLFDYFPLTALVESEIFCLHGGLSPSIEITLDNIRNFDRVQ
EVPHEGPMCDLLWSDPDDRCGWGISPRGAGYTFGQDISEQFNHTNNLKLIIARAHQLVMEGFNNGHEQKV
VTIFSAPNYCYRCGNMASILEVDDCKGHTFIQFEPAPRRGEPDVTRRTPDYFL

Protein No.: I-135

Protein name and Species:

Calcium-dependent protein kinase, putative OS=Ricinus communis GN=RCOM_1689450 PE=4 SV=1

Accession: tr|B9RCK2|B9RCK2_RICCO

Unused ProtScore: 12.78

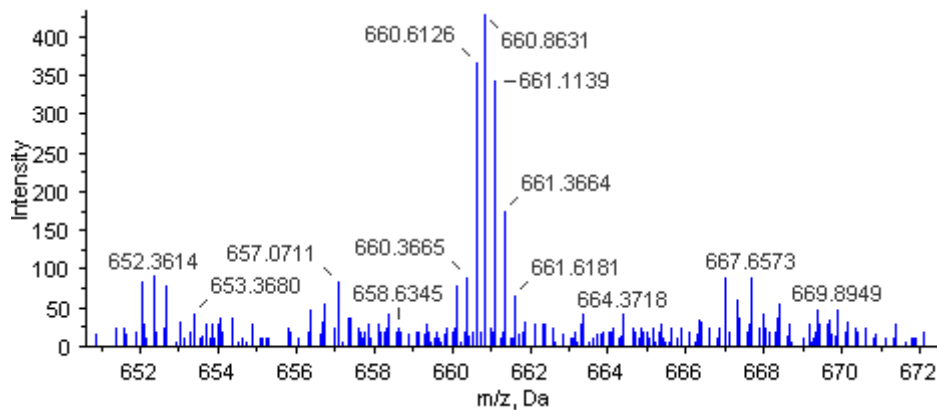
Seq Cov %: 18.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=1.20

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGNCSSNLPSTSTFTADRPPPPPPSHGITVHPPTASPPPRPPPPHSLQPTSNNRPSAAPAAVGR**VLGRP**
MEDVRSIYAFGRELGRGQFGVTVLVTHKETKQQFACKSIAATRKLINR**DDIEDVRR**EVQIMHHLTGHRNI
VELKGAYEDRHSVNLVMELCAGGELFDR**IIAK**GHYSERAAANLCRQIVTVVHDCHSM**GVIHRDLKPENF**
LFLSTDENSPLKATDFGLSVFFKPGDTFK**DLVGSAYYVAPEVLR**RNYGPAIDIWSAGVILYILLSGVPP
FWGETEQAIFDTVLRGHIDFSSDPWP**SISSSAK**DLVKKMLTADAKDR**ISAAEVLNHPWMRVDGDASDKP**
LDIAVLTRMKQFR**AMNK**LKKVALK**VIAENLSEEEIMGLK**EMFK**SMDTDNNGTITYEELK**AGLPKLGTKL
SESEVKQLMEAADVDGNGTIDYIEFITATMHNRMER**EDHLYKAFEFDKDKSGYITMEELEHALK**EYN
MGDARTIK**EIIAEVDTDHDGRINYEETFVAMMR**KGNPELVNRRRK

Protein No.: I-136

Protein name and Species:

obg-like ATPase 1 [Vitis vinifera] OS=Vitis vinifera

GN=VIT_10s0003g05020 PE=4 SV=1

Accession: [tr|D7TKK5|D7TKK5_VITVI](#)

Unused ProtScore: 12.7

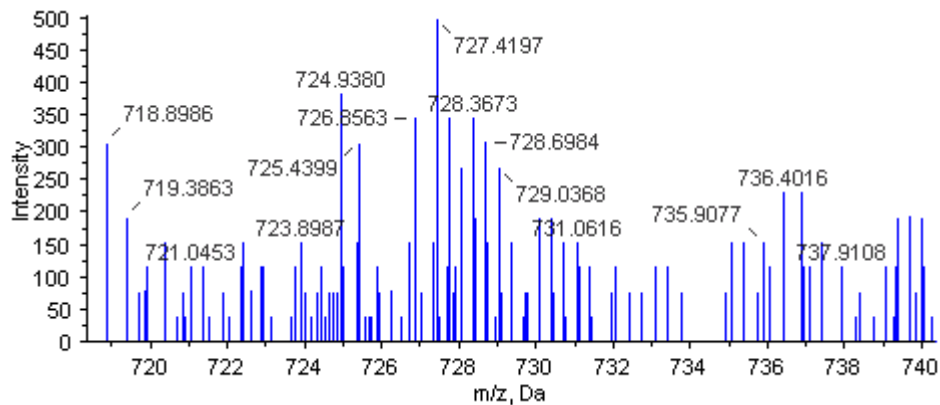
Seq Cov %: 18.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.64

116: 114=E5TL: D5TL=0.79

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPPKSSKSK**E**APAER**P**ILGRFSSHLK**I**GIVGLPNVGK**S**TL**F**NT**L**TK**L**AIPAENFPFCTIEPN**E**ARVNIP
DERFEWLCQLYKPKSEVS**A**FL**E**I**H**DI**A**GLV**R**GAHQ**Q**GLGNSFLSHIR**A**VD**G**IF**H**VL**R**AFED**P**DI**H**VD
DSV**D**P**V**R**D**LE**V**ISEELRLKDIEFIEKRIEDVEKSMKR**S**NDK**Q**LK**I**ELELCLK**V**KA**F**LEDGKD**I**RLGDWK
AADVEILNTFQLLTAK**P**V**V**Y**L**V**N**M**N**E**K**DYQRKKNKFLPKIHAWVQDHGGETIIPFSCALERNLADMPED
EAAKYCEENKVQ**S**ALPK**I**IK**T**GF**S**AINLIYFFTAGPDEVK**C**WQ**I**RR**Q**TK**A**P**Q**A**A**G**T**I**H**S**D**F**E**R**G**F**I**C**A**E
VM**K**F**D**D**L**KELGSEGA**V**KAAGKYR**Q**E**G**KTYV**V**QDAD**I**I**F**F**K**FNVSGGGKK

Protein No.: I-138

Protein name and Species:

GTP-binding nuclear protein Ran-3-like [Vitis vinifera]

OS=Vitis vinifera GN=VIT_04s0008g05030 PE=4 SV=1

Accession: tr|D7SUQ2|D7SUQ2_VITVI

Unused ProtScore: 12.64

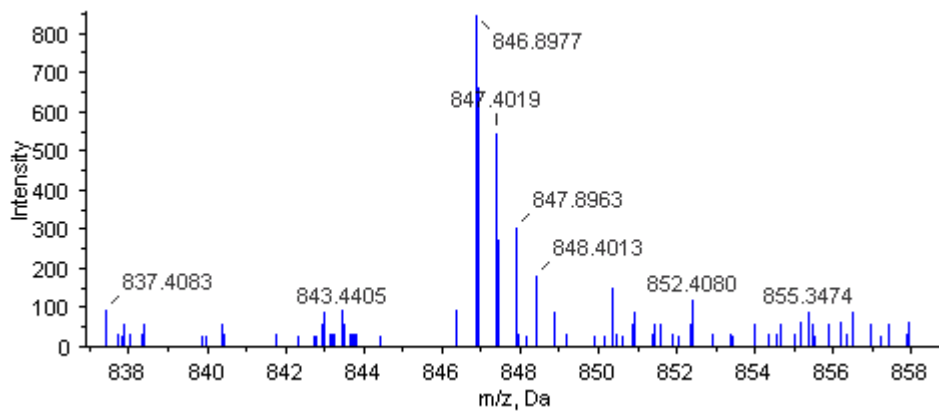
Seq Cov %: 19.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.46

116: 114=E5TL: D5TL=0.69

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPFCYNNNYCYFIKSKKIVITKLFRLDIQRLREIASIKGYNENTRRLLIYIRLKL~~LLLP~~PHSKLKPSFQS
APWRLPYEKLTLTLQMALPN~~QQTVDYPSFKLVIVGDGGTGK~~TTFVKR~~H~~LTGEFEK~~K~~YEPTIGVEVHPLD
FFTNCGKIR~~FYCWD~~TAGQEKFGGLRDGYI~~H~~GQCAIIMFDVTARLT~~YK~~NVPTWHRDL~~CR~~VCENIPIVLC
GNKVDVKNRQVKAK~~QVTFHR~~KK~~NLQYYEISAKSNYNFEKPF~~LYLAR~~K~~LAGDVNLHFV~~ES~~PALAPPEVQI
DMAAQAHHEAELAAAAAQPLPDDDDDTFE

Protein No.: I-141

Protein name and Species:

Aspartate aminotransferase OS=Vitis vinifera

GN=VIT_04s0008g03770 PE=3 SV=1

Accession: tr|D7SUD7|D7SUD7_VITVI

Unused ProtScore: 12.36

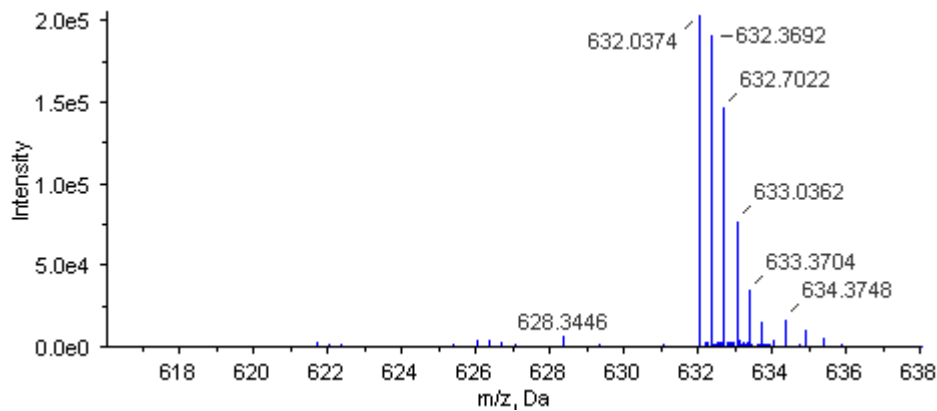
Seq Cov %: 27

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.55

116: 114=E5TL: D5TL=0.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDPNHTISASATSGSDFGGSVFDHVVQ**APEDPILGVTVA**YNKDPSPVK**LNLGVGAYRTEEGKPLV**LN**VV**
RRAEQLLVNDRSRVK**EYLP**IVGLAEFNKLSAKLMFGADSPA**IQVKRV**TT**VQCLSGTGS**LRVGA**EFLARH**
HHQRTIYIPQPTWGNHGKIFTLAGLSVKTYRYY**DPATR**GLNFQGLLEDLSLAPSGA**IVLLHACA**HNPTG
VDPTLQQWEQIRQLIRLK**GLLPFFDSAYQGFASGSLDADAQSVR**MFVADGG**ECLAAQSYAKNMGLYGER**
VGALSIVCKTADVASRVESQVKLVIRPMFSNPPIHGASIV**AIILK**NRDMYNEWTVELKAMADRIISMRQ
QLFDALRARGTPGDWNHILKQIGMFTFTGLNTAQVAFMTKEYHVYMTSDGR**ISMAGLSSKTVPHLADAI**
HAAVTRAI

Protein No.: I-145

Protein name and Species:

Citrate-binding protein OS=Hevea brasiliensis GN=CBP PE=1

SV=1

Accession: sp|Q39962|CBPR_HEVBR

Unused ProtScore: 12.21

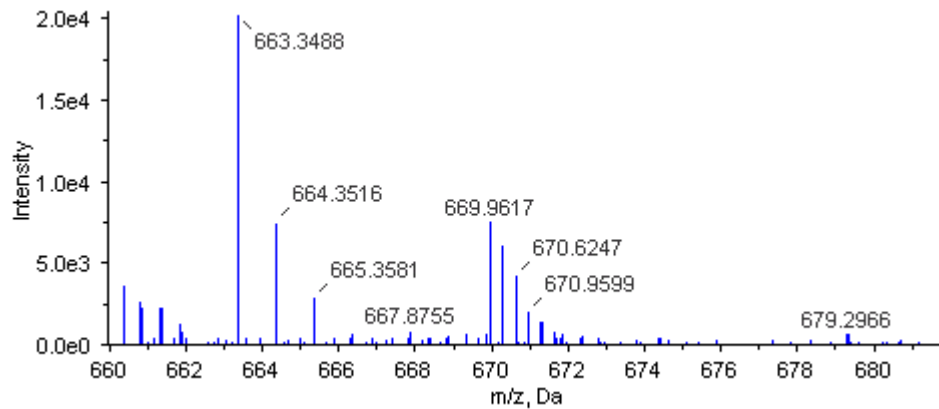
Seq Cov %:34.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.29

116: 114=E5TL: D5TL=0.38

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKMKRSPYCFCCSFALLLLVLSFLKDRHFCSA**DPTDGFTEVPLTEDNFVIQKPYDK**PLNDRYSYKNGIRR
LWVYENDKPFKVGSPTRPRTEIRIKGHDYSSGVWQFEGQVHVPEGTSGVTVM**QVFGAVNKATALQLRVY**
NGDLKSYK**SNSVATDIYNK**WLR**VNVVHK**VGK**GEITVFINGQQKLVVND**DGPAEHYFKCGVYAAPDGSSN
YMESRWKNIKLYKSDNKLEGCNNNHGTWLVQ

Protein No.: I-148

Protein name and Species:

Acetyl-CoA C-acetyltransferase OS=Hevea brasiliensis

GN=HbAACT PE=2 SV=1

Accession: [tr|A9ZMZ5|A9ZMZ5_HEVBR](#)

Unused ProtScore: 12

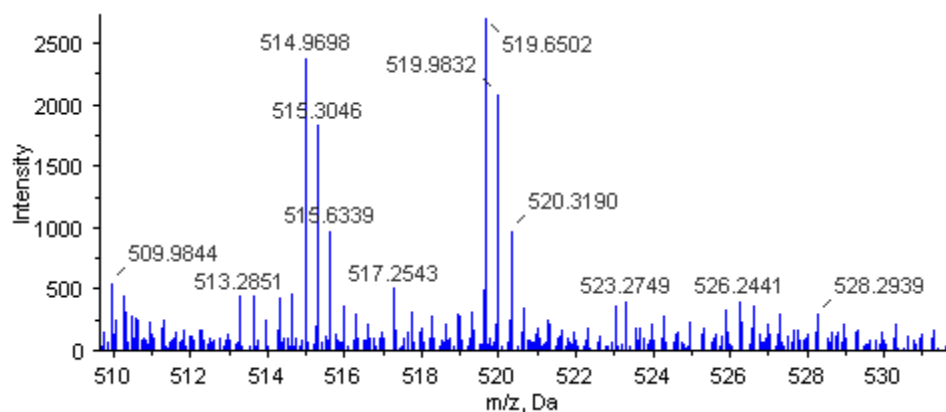
Seq Cov %: 61.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.55

116: 114=E5TL: D5TL=0.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPAAATAVAAEIKPRDVCIVGVAR**TPMGGFLGSLCTL**SATK**L**GSIAIEAALKRANVDPSLVQEVFFGN
VLSANLGQAPARQAALGAGIPNSVVCTTVNKVCASGMKATMLAAQSIQLGINDVVAGGMESMSNAPKY
LAEARKGSRLGHDSLVDGMLKDGLWDVYNDVGM**G**SCAEICADNHSITREDQDKFAIHSFERGIAAQESG
AFAWEIVPVEVSGGRGKPSTIVDKDEGLGK**FDPVKLRKLRPSFK**ENGGTVTAGNASSISDGAAAVILVS
GETALKLGLQVIAK**I**GGYADAAQ**AP**EL**FTT**SPAL**AIPK**TIANGGLDASQVDYYEINEAFVVALANQ**L**
LGLNPEKINVHGGAVSLGHPLGCSGARILVTLLGVL**R**QKNGKYGVGGVCNNGGGGASALVVELL

Protein No.: I-150

Protein name and Species:

Pyridoxal biosynthesis protein PDX1 OS=Hevea brasiliensis

GN=PDX1 PE=2 SV=1

Accession: sp|Q39963|PDX1_HEVBR

Unused ProtScore: 11.87

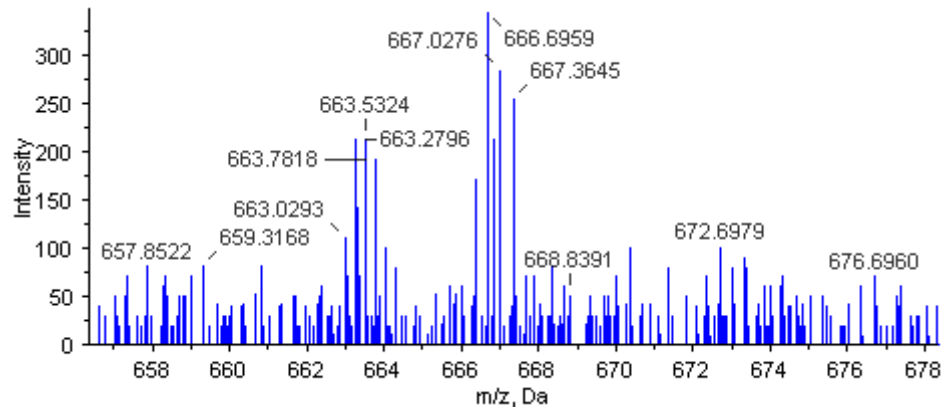
Seq Cov %: 29.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.40

116: 114=E5TL: D5TL=1.42

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAGTGVVAVYGN**GAITETK**KSPFSVKVGLAQMLRGGVIMDVVNPEQARIAEEAGACAV**MALER**VPADIR
AQGGVARM**SDPQLIK**EIKQSV**TIPVMAK**ARIGHFVEAQILEAIGIDYVDESEVLT**PADEENHINKHNFR**
IPFVCGCRNLGEALRRIREGAAMIR**TKGEAGTGNVIEAVR**HVR**SVMGDIRLLRNMDDEVF**TF**AKKIAA**
PYDL**VMQTK**QLGRLPVVQFAAGGVATPADAALMMQLGCDGVFVGS**GVFKSGDPARRARAIVQAV**THYSD
PDMLAEVSCGLGEAMVGINLN**DKKVERFANRSE**

Protein No.: I-151

Protein name and Species:

NAD dependent epimerase/dehydratase, putative OS=Ricinus communis GN=RCOM_1683000 PE=4 SV=1

Accession: tr|B9RC03|B9RC03_RICCO

Unused ProtScore: 11.81

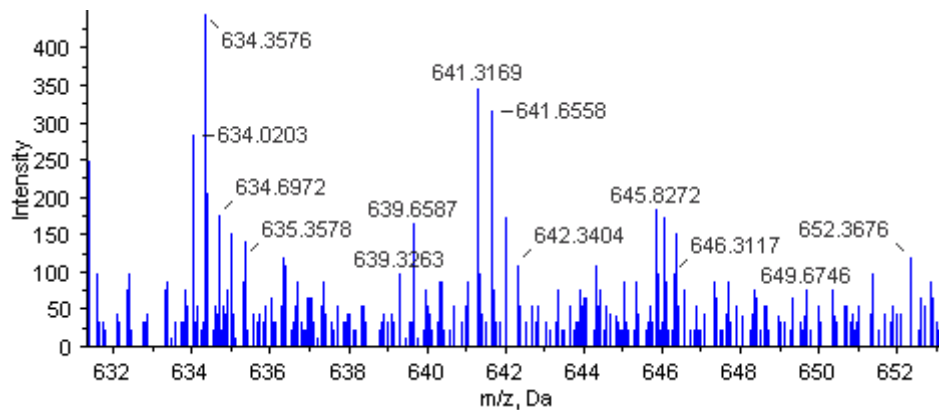
Seq Cov %: 27.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.75

116: 114=E5TL: D5TL=1.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGFQSN GATDNKKPYKFLIYGR**TGWIGLLGKLCESQ**GIDYTYGN**GR**LENRVSL**ENDIASINPTHVFNA**
AGVTGRPNVDWCESHKVETIR**TNVAGTLTLADVCR**EKGLVVLIN**YATGCIFEYDDKHPLGSGIGFK**EEDT
PNFIGSFYSKTKAMVEELLKNYENVCTLRVRMP**ISSDLANPRNFITK**ITRYEKVVDIPNSMTILDELLP
ISIEMAKRNLTGIWNFTNPGVVSHNEILEMYR**DYVDPNF**TWKNFT**LEEQAKVIVAPRSNNELDATKLSK**
EFPEMLPIKESLIKYVFKPNQKTAAA

Protein No.: I-152

Protein name and Species:

Calmodulin OS=Clematoclethra scandens subsp. tomentella

GN=CaM PE=4 SV=1

Accession: tr|B1NDK1|B1NDK1_9ERIC

Unused ProtScore: 11.77

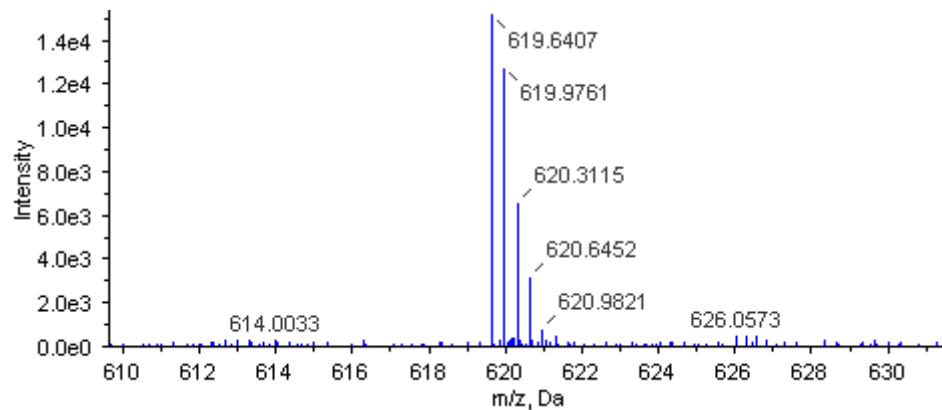
Seq Cov %: 50

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADPLTDDQISEFK**EAFSLFDKDGDCITTK**ELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEF
LNLMARK**MKD**TD**SEELKEAFRVFDK**DQNGFISAAELRHVMANL**GEK**LTDEFVDEMIREADV**DGDGQIN**
YEEFVKVMMA

Protein No.: I-160

Protein name and Species:

26S proteasome non-atpase regulatory subunit, putative

OS=Ricinus communis GN=RCOM_1507340 PE=4 SV=1

Accession: tr|B9RAM4|B9RAM4_RICCO

Unused ProtScore: 11.38

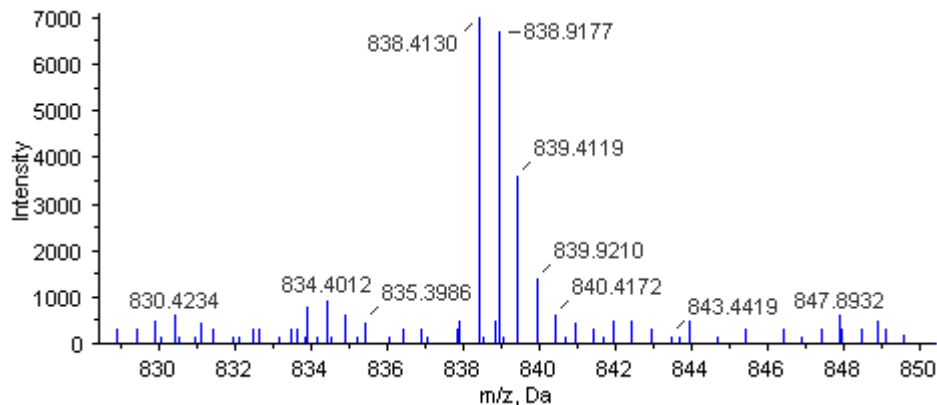
Seq Cov %: 20.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.44

116: 114=E5TL: D5TL=0.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEGQEGTQQPHLILAHKR**FLLTHPDVQDIEK**VRLKKEEVFAAVKSDDMAPLYETLITEGLLEKQSIIDL
MRAKNEDELKKIDEK**IADAEENLGESEVR**EAHLAK**SLFYIR**IGDKEK**ALEQLK**VTESKTVAVGQKMDLV
FYTLQLGFFYMDFDLISKSIDKAK**NLFEEGGDWER**KNRLK**VYEGLYCMSTR**NFTKAATLFLDISISTFTT
YELFPYDTFIFYTVLTSIITLDRVSLKQK**VVDAPAILTVIGK**IPYLSEFLNSLYFCQYKSFSAFAGIA
EQIKLDRYLHHPHFRYYMREVR**TVVYSQFLESYK****SVTIEAMAK**AFGVTVEFIDLELSRFIAAGKLHCKID
KVAGVLETNRPDAKNALYQATIKQGD**FLNRIQKLSRVIDL**

Protein No.: I-161

Protein name and Species:

Abscisic acid stress ripening-related protein 1 OS=Hevea
brasiliensis GN=ASRLP1 PE=4 SV=1

Accession: [tr|Q6XNP8|Q6XNP8_HEVBR](#)

Unused ProtScore: 11.37

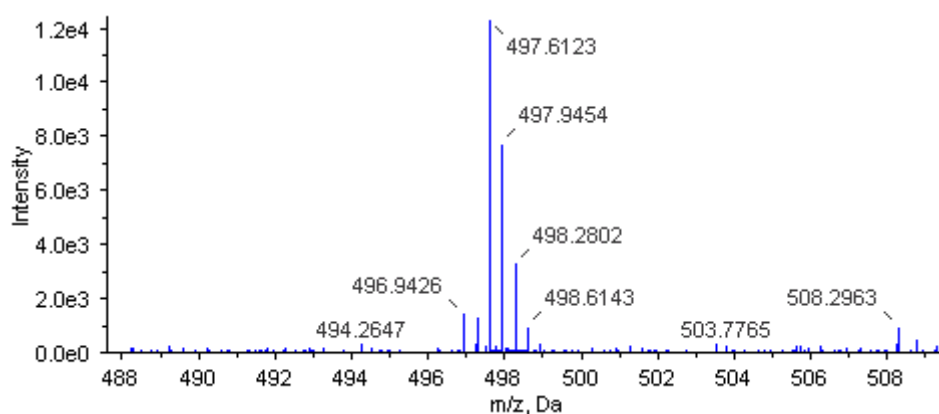
Seq Cov %: 21.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.31

116: 114=E5TL: D5TL=0.42

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEKHHHLFHHHK**KEGQEA**VDCR**K**EEKHHK**HLCQLGKLG**AAAAAGTYAL**HEK**HAAKKDPEHAHGHI**KEE**
VAAAAAIGAGGFAPFHEHHEK**K**EA**KKNEEGHGK**KHHHPF

Protein No.: I-167

Protein name and Species:

Myo-inositol-1-phosphate synthase OS=Ricinus communis

GN=MIPS PE=2 SV=1

Accession: tr|C7B9C0|C7B9C0_RICCO

Unused ProtScore: 11.12

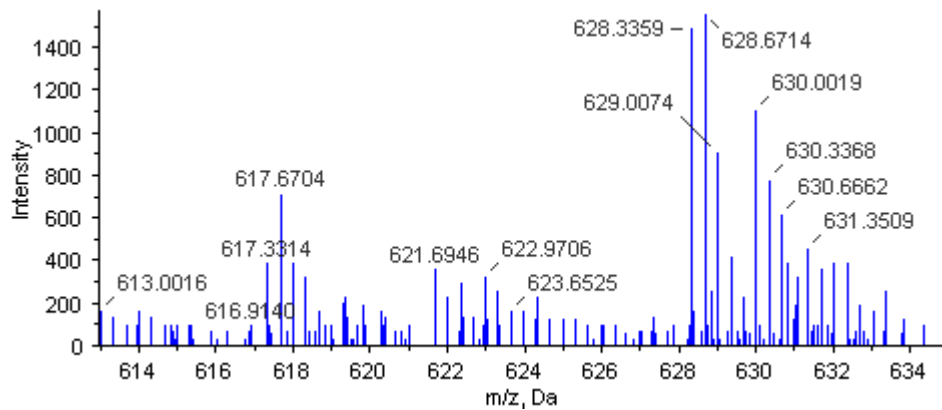
Seq Cov %: 18

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=10.47

116: 114=E5TL: D5TL=2.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MFIEK**FQVESPNVKY**SEDEIH**SVYNYETTEL**VHENRNGTYQW**IVKP**KTVQYEFKTDVHVPKLGVMVLVGV
GGNNGSTLTGGVIANREGISWATKDK**VQQANYFGSLTQASSIRVGSFN**GEEIYAPFKSLLPMVNPDDIV
FGGWDISDMNLADAM**ARAK**VLDIDLQKQLRPYMESMVPLPGIYDPDFIAANQGSRANNVIKGTKKEQME
QIVKDIREFKEKTKVDK**VVVLWTANTER**YSNVVVLNNDTMSLLASLERNEAEISPSTLYALACIFENV
PFINGSPQNTFVPGVIDLAIKG**NSLIGDDFK**SGQTKMKSVLVDFLVGAGIKPTSIVSYNHLGNNDGMN
LSAPQTFRSKEISKSNVDDMVSSNGILYEPGEHPDHVVVIK**YVPYVGDSKRAMDEYTSEIFMGK**STI
VLHNTCEDSLLAAPIIIDLVLLAELSTRIQLKAEGEGKFHSHFPVATILSYLTK**APLVPPGTPV**NALS
KQRAMLENILRACVGLAPENNMILEYK

Protein No.: I-168

Protein name and Species:

Catalytic, putative OS=Ricinus communis GN=RCOM_0291690

PE=4 SV=1

Accession: tr|B9SZU0|B9SZU0_RICCO

Unused ProtScore: 10.98

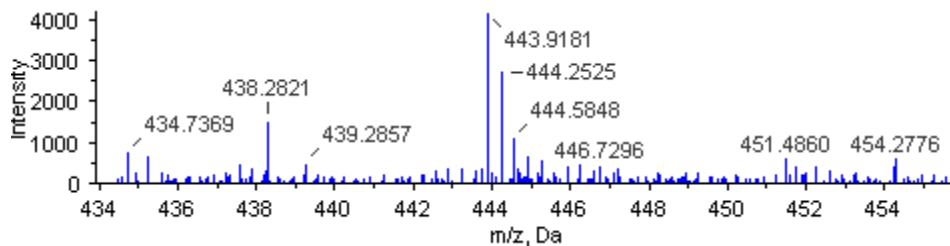
Seq Cov %: 22.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.45

116: 114=E5TL: D5TL= 0.64

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVPITVLLSSFLLLFTVSHGFAPPRSFLQSLSGSNNTYLTTKELWFNQILDHYSPTYDHRRFQQRYEYLD
YFRAPGGPIFLKICGESSCNGIANDYISVLAKKFGAAVVSLEHRYYGKSTPFKSSETKNLRYLSSKQAL
FDLAVFRQHYQEALNLKLNRTNVENPWIVFGISYSGALSAWYRLKFPHLTCGSVASSAVVLAVYNFTEF
DQQIGESAGAECKAALQETTQLVDERLASNRKAVKTLFNAAELEIDGDFLYFLADA AVIAFQYGNPDKL
CSPLVEAKKAGEDLVEAYAKYVKEYYVGSFGVSVETYNQKHLKDTAINENSSDRLWWFQVCTEVAYFQV
APSND SIRSSKVNTRYHLLDLCKNVFGEGIYPEVDTTNIYYGGTKIAGSKIVFTNGSQDPWRHASKQISS
PDTPSYIITCHNCGHGTDMRGCPQSPLSLEGNAQNCSSPDAVQKVRQQVIEHIDLWLSECEASGRSYI

Protein No.: I-169

Protein name and Species:

Proliferation-associated 2g4, putative OS=Ricinus communis

GN=RCOM_0489730 PE=4 SV=1

Accession: tr|B9SWY5|B9SWY5_RICCO

Unused ProtScore: 10.97

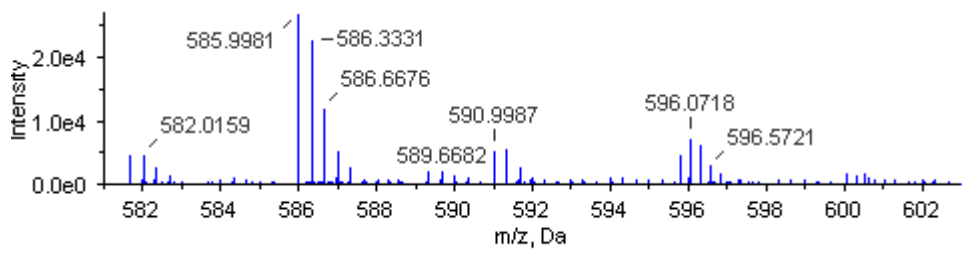
Seq Cov %: 15.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.53

116: 114=E5TL: D5TL= 1.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSDDEREK **ELDLTSPEVVTK**YK **SAAEIVNK**ALQLVISECKPKAK **IVDLCEK**GD AFIRE **Q TGNMYK**NVK
KKIERGVAFPTCVSVNNTVCHCSPLASDETLLEEGDVVKIDMGCHIDGFIAVVGHTHVLQAGPVTGR **AA**
DVIAAANTAAEVALRLVRPGKKNKDV **TEAIQK****VAAAYDCK****IVEGVL****SHQLKQFVIDGNK**VILSVSNPET
RVDDAEFEENEVY AIDIVTTTGGEGPKLLDEKHTT IYKRAVDKNYHLKMKASR **FIFSEISQK**FPIMPFT
ARALEEKRARLGLVECVNHDL LQPYPVLHEKPGDIVAHIK **FTVLLMPNGSDR**ITSHSLQELQPTKTIDD
PEIKAWLALGKTKKKKGGGKKKKKAKKGDKAEESTEAEPM DATNGAETQE

Protein No.: I-170

Protein name and Species:

Aspartic proteinase, putative OS=Ricinus communis
GN=RCOM_1303660 PE=3 SV=1

Accession: [tr|B9SVA7|B9SVA7_RICCO](#)

Unused ProtScore: 10.95

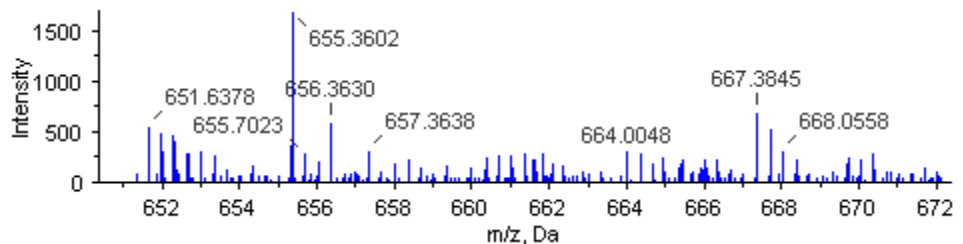
Seq Cov %: 26.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.30

116: 114=E5TL: D5TL= 0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGTIFKPALFFCLILLPLVCATASSNDGLVRI**IGLK**KRKFQNNRVAAQFESKEGEAFRASIKKYHIRG
NLGDA**AEDIDIVSLKNYMDAQYFGEIGIGTPPQK**FTVIFDTGSSNLWVPSSK**CYFSVACYFHSK**YKSGQS
STYKKNGKSADIHYGTAISGFFSQDNVKGELVIK**NQEFIEATREPSITFLVAK**FDGILGLGFQEISV
GNAVPVWYNMVNQGLV**KEPVFSFWFN**NADEDEGG**EIFVGGMDPNHYKGEHTYVPVTQK**GYWQFDMGDV
LIDGKTTGICSSGCAAIADSGTSLLAGP**TTIITEVNHAI**GATGVVS**QECKAVVAQYGETTIAMLLAK**DQ
PQKICSQIGLCTFDGSRGVSMGIESV**VNEKIQE**VAGGLHDAMCSTCEMAV**VWMQNQLKQNTQEHILNY**
VNELCERLPSMGESAVDCGSLSTMPNVSFTIGGR**VFDLAPEQYVLK**VGDG**EAAQCISGFTALDVPPPR**
GPLWILGDVFMGP**FHTVFDYGNK**RVGF**AEVA**

Protein No.: I-175

Protein name and Species:

Phosphoglyceride transfer family protein OS=Hevea brasiliensis

PE=2 SV=1

Accession: tr|Q6J6I5|Q6J6I5_HEVBR

Unused ProtScore: 10.83

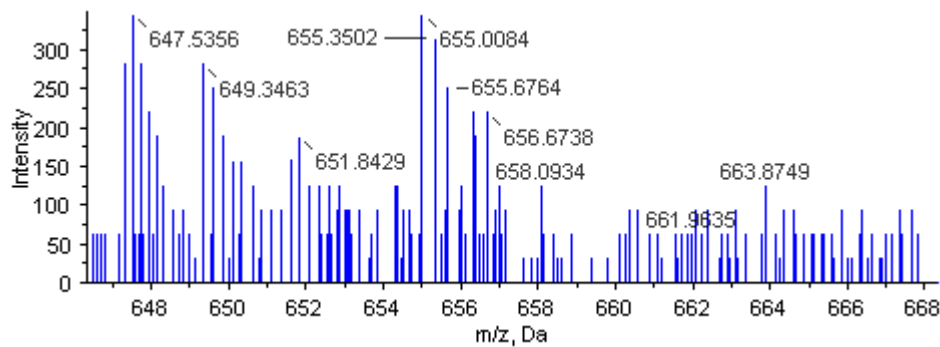
Seq Cov %: 33.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.08

116: 114=E5TL: D5TL= 0.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLT**GT**LKWRATYKPEEIRWHEISHEVEKGVFRANFHDYGR**TVLIMRPEMQNTTSAVDNIR**HLAYVIE
NSILNLAEGQEQMSWLIDFTGLSLSNSM**SIGTGV**DI**IKILQNHYPERLAVAFVYNPPRIF**EAFWKAVKC
VLNSKTSEKVK**FVYPNNK**ESEEVMR**HFFDVDNLPGEFGGK**ATMK**YDHEEFSRLMAQDDVK**TAKYWGFD
KPTHIANAQLRPPQLAPEPTPFAPPAS

Protein No.: I-181

Protein name and Species:

Polyadenylate-binding protein, putative OS=Ricinus communis

GN=RCOM_0812530 PE=4 SV=1

Accession: tr|B9RYE9|B9RYE9_RICCO

Unused ProtScore: 10.63

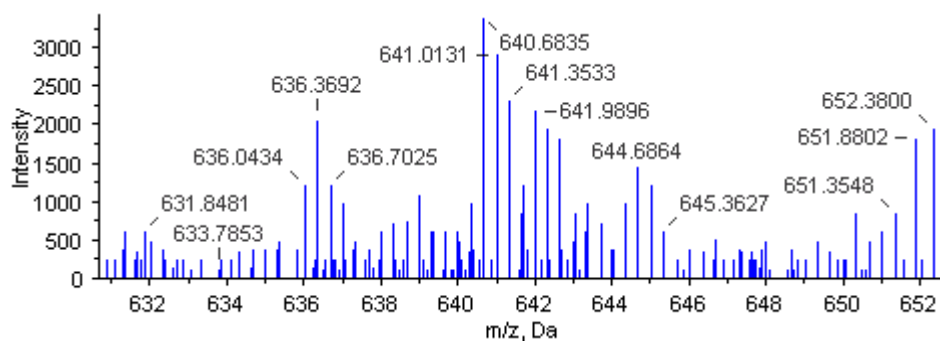
Seq Cov %: 15.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.75

116: 114=E5TL: D5TL= 1.24

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAQVQVPVQGQNVNNGGANAPYVTTSLYVGDLEANVTDSHLYDLFNQVGQVVSVRVCRDLTTRR**SLGYGY**
VNYSSPQDAARALDMLNFTPLNGSPIRIMYSHRDPSVRK**SGSGNIFIK**NLDKGIDHKALHDTFSAFGNI
LSCK**VATDSSGQSK**GYGFVQFDNEESAQKAIEK**LNGMLLNDKQVYVGPFLR**KQERESAIKTR**FNNVYV**
KNLSETTTEEDLKKAFGEYGTITSAVVMRDGDGKTKCF**GFVNF**ENADDAAT**AVEALNGK**KFDDKEWFG
KAQKKNERENELKVR**FEQSMKEAADKFQGANLYIK****NLDDSIGDDR****LKQLFSPFGTITSCK**VMRDPNGIS
RSGSFVAFSTPE**EASKALMEMNGK****MVVS****KPLYVALAQR**KEDRRARLQAQFSQIRPVAMAPSVAPRMPMY
PPGGPGLGQQIFYGQAPPAILPPQPGFGYQQQLVPGMRPGGAPMPNFFVPMVQQGQQGQRPGGRRAGAA
QQSQQPVPLMQQMVPRGRVYRYPGRGIPDVPMTGVAGGMLSVPYDMSGMPMRDAALSQPIPIGALAS
ALANASPEQQR**TMLGENLYPLVEQLEPDAAAK**VTGMLLEMDQTEVLHLLLESPEALKAK**VAEAMEVLR**SV
QQQQAGGAADQLASLSLNDNLVS

Protein No.: I-186

Protein name and Species:

Proteasome subunit beta type OS=Ricinus communis
GN=RCOM_0205360 PE=3 SV=1

Accession: tr|B9SPS6|B9SPS6_RICCO

Unused ProtScore: 10.47

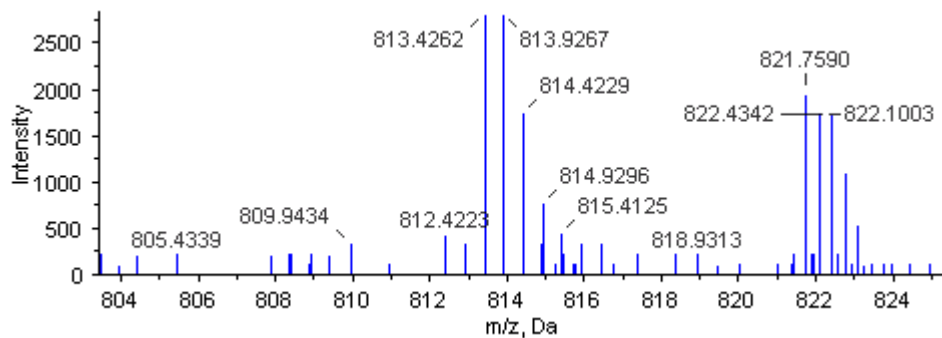
Seq Cov %: 29

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.60

116: 114=E5TL: D5TL= 1.41

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDLKAPHSMG**TTIIGVTYNGGVVLGADSR**STGMYVANR**ASDKITQLTDNVYVCRSGSAADSQIVSDYV**
RYFLHQHTIQLGQPATVKVAANLVRLISYNNKNMLETGLIVGGWDKYDGGKIYGIPLGGTIIIEQPFAIG
GSGSSYLYGFFDQAWKEG**MTKDEAEQLVVKAVSLAMAR**DGASGGVVR**TVIINSEGVTR**NFYPGDSLPLW
HEELEPQNSLLDILNASSPEPMNI

Protein No.: I-187

Protein name and Species:

ras-related protein RABC1 isoform 1 OS=Populus trichocarpa

GN=POPTRDRAFT_798654 PE=3 SV=1

Accession: tr|B9GTP5|B9GTP5_POPTR

Unused ProtScore: 10.45

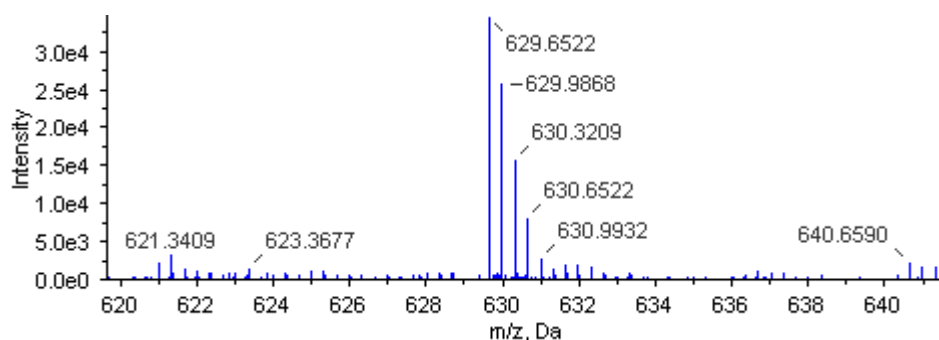
Seq Cov %: 42.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.52

116: 114=E5TL: D5TL= 0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEVPSTSQQEFE**YLFK**LLLLIGDSGVGK**STLLLSFTSK**NFEDLSPTIGVDFKVKHV**TIGGK**KLKLAIWDT
AGQERFR**TLTSSYYRGAQGI**IMVYDVTRRETFTNLSEIWAK**EIDLYSTNQDCIK**MLVGNKVDKESERVV
TKK**EGIDFAREYGC**LFLECSAKTRVNVEQCFEELVLKILETP**SLLAEGSSGVKK**NVFKQKPPEDVTSS
CCSW

Protein No.: I-188

Protein name and Species:

**ATP synthase subunit beta, mitochondrial OS=Hevea
brasiliensis GN=ATPB PE=2 SV=1**

Accession: [sp|P29685|ATPBM_HEVBR](#)

Unused ProtScore: 10.41

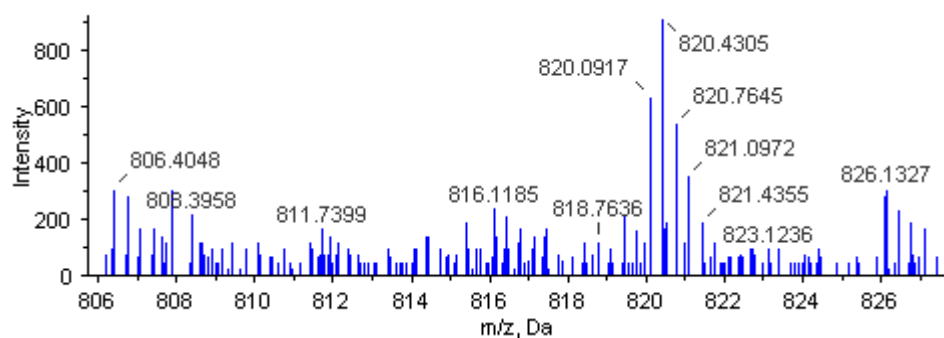
Seq Cov %: 17.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=7.52

116: 114=E5TL: D5TL=1.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASRRLLSLLLRSSRRSVSKSPI SNINPKLSSSSPSSKSRASPYGYLLTRAAEYATSAAAAAPPQPPP
AKPEGGKGGGK**ITDEFTGK**GAIGQVCQVIGAVVDVRFDEGLPPIILTSLEVLDHSIRLVLEVAQHMGEGM
VRTIAMDGTEGLVRGQR**VLNTGSPITVPVGR**ANPWTYHEVIGEPIDERGDIKTSHFLPIHR**EAPAFVDQ**
ATEQQILVTGIKVVDLLAPYQRGGKI**GLFGGAGVGK**TVLIMELINNVAKAHGGFSVFAGVGER**TREGND**
LYREMIESGVIKLGDQKQADSKCALVYGQMN**EPPGARARVGLTGLTVAEHFR**DAEGQDVLLFIDNIFR**FT**
QANSEVSALLGRIPSAVGYQPTLATDLGGLQER**ITTTK**KGSITSVQAIYVPADDLTDPA PATTFAHLDA
TTVLSR**QISELGIYPAVDPLDSTSR**MLSPH**ILGEEHYNTAR**GVQKVLQNYKNLQDIIAILGMDELEDD
K**LTVARARKI**QRFLSQPFHVAEVFTGAPGKYVELK**ESITSFQGVLDGK**YDDLPEQSFYMGVGGIDEVIAK
ADKIAKESAS

Protein No.: I-191

Protein name and Species:

Acid phosphatase, putative OS=Ricinus communis

GN=RCOM_0854040 PE=4 SV=1

Accession: tr|B9RUL1|B9RUL1_RICCO

Unused ProtScore: 10.38

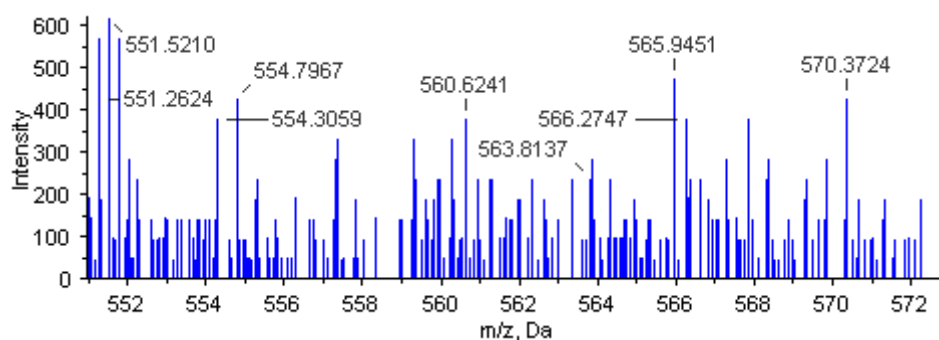
Seq Cov %: 7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=0.60

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEEEGGEMEKKIKIGVCMEEKKVL SAPMGQIMDRLQAFGEFEI IHFGDKVIAEDPIESWPICDCLIAFY
SSGYPLEK**AEAYAALR**KPFLVNELEPQHLLHDRRKVYQRLEMY**GIPVPR**YALVNREFPYQELDYFSEEE
DFVEVHG NRFWKPFVEKPIDGDNH SIMIYYPSSAGGGMKELFRKVG NRSSEFHPEVRRVRREGSYIYEE
FMPTGGTDVK**VYTVGPEYAHAEAR**KSPVVDGVVMRNPDGKEVRYPVLLTPNEKQ MAREVCI AFRQAVCG
FDLLRCEGRSYVCDVNGWSFVKNSYKYYDDAACVLRKMFLDAKAPHLSS TIPP TLPWKINEPVQPSEGL
TRQSGIIGTFGQSEELRCVITVMRHGDRTPKQVKLKVTEEK**LLNLMLK**YNGGRPRSETK**SAIQLQ**
DLLDATRILVPRIRPGR**ESDSEAEDIEHAEK**LRQVK**AVLEEGGHFSGIYR**KVQLKPLKWVKIPKSTGEA
EEERPVEAL**LMVLKYGGVLT**HAGRK**QAEELGR**YFRNNMYPGEGTGLLRHLHSTYR HDLKIYSSDEGRVQMS
A**AAFAK**GLLDLEGQLTPILVSLVSKDSSMLDGLDNASSE**MEEAK**ARLNEIIT**SSTK**AANSNESPEFPWM
TDGAGLPPNASELLPELVKLTKKVTEQVR**LLAK**DEDEELTETSSYNVIPPYDQAKALGKINIDVDR IAA
GLPCGSEGFLLMYARWRKLERDLYNERKDR**FDITQIPDVYDSCK**YDLLHNAHLNLEGLDELFK**VAQLLA**
DGVIPNEYGINPKQKLIKIGSKIARRLLGKILIDLNRNTR EEAISVAELKSNQDQHSTSTKNEKEDADYQS
KLFIKNEDTRRTSTSEISTDHDDDDDKETKYRLDPKYANVKTPERHVRTRLYFTSESHIHSLVNVLRYC
NLDESLQEEDSLVCHNALERLHKT KELDYMSYIVLRMFENTEVPLEDPKRYR**IEMTYSR**GADLSPLEKN
DSEANSLHQEHTLPIMGPER**LQEVGSYLTLEK**METMIRPFAMPAEDFPPPSTPAGFSGYFSKSAAVLER
LVNLWPFHKHDKHASANGK

Protein No.: I-195

Protein name and Species:

Putative uncharacterized protein OS=Ricinus communis

GN=RCOM_1341920 PE=4 SV=1

Accession: tr|B9RN01|B9RN01_RICCO

Unused ProtScore: 10.23

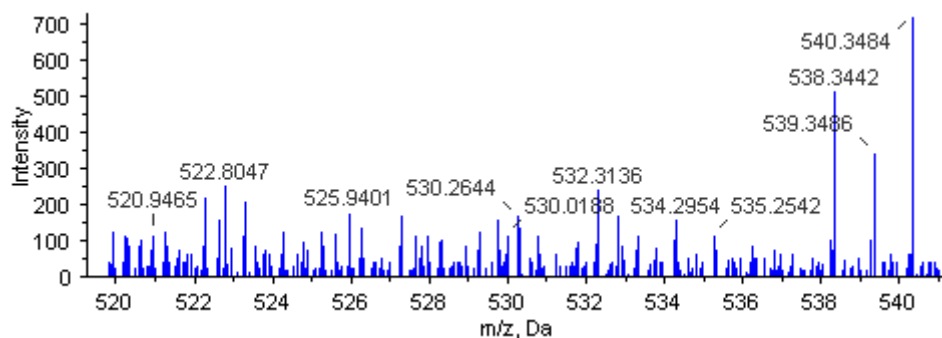
Seq Cov %: 4.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=5.50

116: 114=E5TL: D5TL=2.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSIPKELEQVMKLRGGSVLGKKTILKSDHFPGCQNKRLTPQIDGAPNYRQADSLPVHGVAIPTTEGIRN
VLKHIGAQKDGRVQVIWFNLREEPVYINGRPFVLRDVERPFSNLEYTGINRSRVEQMESRLKEDILM
EAARYGNKILVTDELDPGQMVDQWEPVSRDSANEELQLEGYLFDYERVPVTDEKSPEEPDFDILVDKIY
QADLNTEIIFNCQMGRGRTTTTGMVIATLVYLNRI GASGIPRTNSIGRVFDTGPTVTDNLPNSEEAIRRG
EYAVIRSLTRVLEGGVEGKRQVDKVIDKCASMQLREAIANYRNRILRQPDEMKREASLSFFVEYLERY
YFLICFAVYIHSERDALRSSSFHSSFADWMRARPELYSILRLLRRDPMGALGYASSKPSLMKIAESA
DGRPHEMGVVAALRNGEVLGSQTVLKSDHCPCQIHTLPERVEGAPNFREVPGFPVYGVANPTIDGILS
VIQRIGSSKGRPIFWHNMREEPVYIYINGKPFVLRREVERPYKNMLEYSGIDRERVQGMEARLKEDILRE
AESYGGAIMVIHETDDGQIFDAWEHVNFDVSKTPLEVFKCLEVDGFP IKYARVPITDGKAPKSSDFDTL
AVNIASASKDTAFVFNCQMGRGRTTTGTVIACLKLRIDYGRPIRVLVDDMACEEADSGSSSGEETGGN
AARSPSNTMRMTGTEQARAFGIDDILLWKITRLFDNGVECREALDAVIDRCSALQNIHQAVLHRYK
VNQQHVEPRVRRVALNRGAEYLERIFRLIAFAAYLGSEAFDGFQGESRMTFKTWLHQRPEVQAMKWS
IRLRPGRFFTIPEELRAPQESQHGDVMEATIKARNGSVLGTGSILKMYFFPGQRTSSHLQIHGAPHVY
KVDGYPVYSMATPTIAGAKEMLAYLGAKPNGEGLAQKVIITDLREEAVVYINGTPFVLRRELHKPVDTL
KHVGITGPLVEHMEARLKEDIVSEVRESGGRMLLHREEYNPATNQSSVIGYWENIFANDVKTPAEVYAA
LKDEGYDMTYRRIPLTRERDALASDVDAIQYCKDDCAGSYL FVSHTGFGGIAYAMAIICLRLGAEATFT
AEIPQTLVDTESFSVHEEILPSQLSEEETFRMGDYRDILSLTRVLMYGPKSKADVDIVIDKCVGAGHLR
DDILYYSKELRKCPHHDDEQLAHLMDMGVKALRRYFFLITFRSYLYCAKPTETRF TSWMNARPELGHL
NNLRIDK

Protein No.: I-197

Protein name and Species:

chitinase Class I, putative OS=Ricinus communis
GN=RCOM_0806420 PE=4 SV=1

Accession: tr|B9SIC4|B9SIC4_RICCO

Unused ProtScore: 10.18

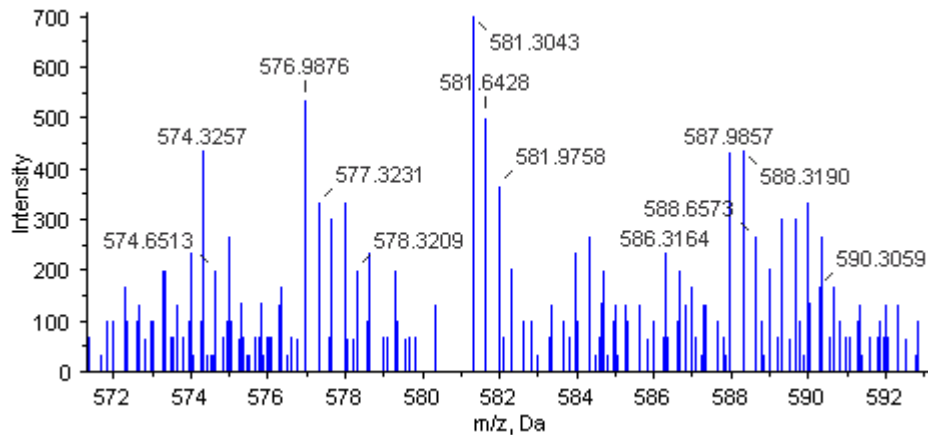
Seq Cov %: 24.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.55

116: 114=E5TL: D5TL= 0.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLPKMEVYAFTVFYIFFSFLLGGLAEQCGRQADGALCPGGLCCSQYGWCGNTDPYCGGGCQSQC GGGGG
GGGGDLGSIISRSTFDQLLKHRNDGACPGKGFYTYDAFISAAKDFPGFGTTGDVATRKG EIAAFFGQTS
HETTGGWPSAPDGPYAWGYCFIREQNPGSYCSPSSSTYPCAPNKQYYGRGPIQLTWNYNYGQCGR AIGVD
LLNNPDLVATDPVVISFKAAIWFWMTPQSPKPSCHDVTITGRWSPSAADR SAGRLAGYGVL TN IINGALEC
GRGWDSRVDDRIGFYKRYCDLLGIGYGNNLDCYNQRSFGNGAFGLVDTM

Protein No.: I-198

Protein name and Species:

Stem-specific protein TSJT1, putative OS=Ricinus communis

GN=RCOM_0910970 PE=4 SV=1

Accession: tr|B9RTJ4|B9RTJ4_RICCO

Unused ProtScore: 10.16

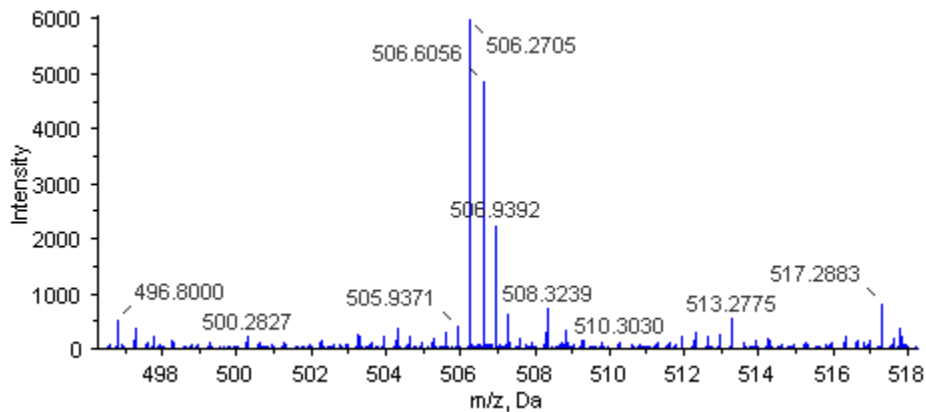
Seq Cov %: 20.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.52

116: 114=E5TL: D5TL= 0.31

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLAVFDNTVAKCPDALQSPHSASSSALK**DGFLAK**HFGSIHPASVTVNLGTAGIIAYS�DK**QNPLLP**LF
AVVDDIFCLFQGHIEI AVLK**QQYGLNK**TANEVIVIEAFRTL**DRGPYPADQVVR**DIQ**GF**AVLYDS
TSKATFIAADADGSPFFWGADSERHLVLSDDAQILQQACGK**SFAPFPKGCFFTTSGGLR****SYEHPLNEL**
KPVPRVDSS**QVCGATFK**VDAETKKEGGMPRVGSAYDSSNY

Protein No.: I-204

Protein name and Species:

Pyruvate kinase OS=Populus trichocarpa

GN=POPTRDRAFT_563414 PE=2 SV=1

Accession: tr|A9PFJ7|A9PFJ7_POPTR

Unused ProtScore: 9.98

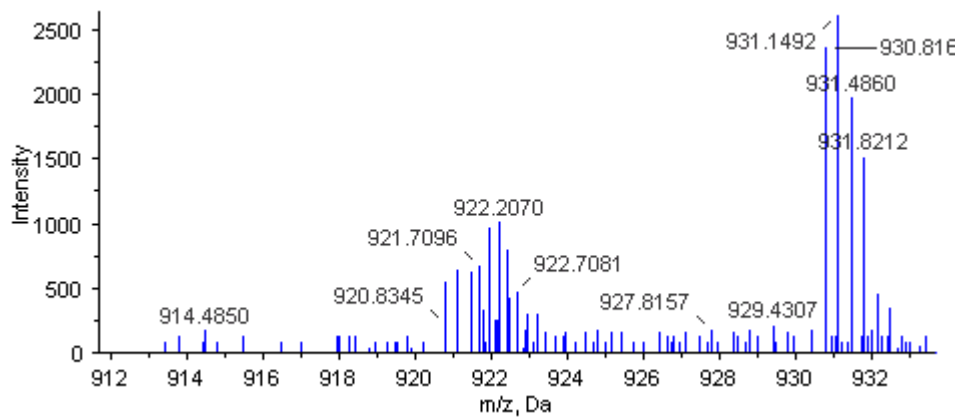
Seq Cov %: 21.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.85

116: 114=E5TL: D5TL= 1.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANID**IEGLLK**EHQDDEEGRVPRTKIVCTLGPSSRSVPMLEKLLRAGMNVARFNF~~SHGT~~THEYHQETLNN
LRIAMQNTN**LLAAVMLDTK**GPEIIRTGFLKDGNP IQLKEGQEITITTTDYSIK**GDTDMISMSYK**KLPVDIK
PRNTILCADGTITLTVLSCDPKAGTVRCRCENTAMLGERKNVNLPGVVVDLPTLTDKDKEDILGWGVPN
N**IDMIALSFVR**KGSDLVNVKVLGPHAK**HIQLMSK****VENQEGVVNFDEILR**ETDSFMVAR**GDLGMEIPVE**
KIFLAQKMMIYKCNIVGK**PVVTATQMLESMIK**SPRPTR**AEATDVANAVLDGTCVMLSGESAAGAYPEL**
AVKTMRRICIEAESSLDYAAIFKEMIR**STPLMSPLES**LASSAVR TANK**ARAK**LIVVLTRGGTTAKLVA
KYRPAVPILSVVVPVLTTSDFDWTCSDETPARHSLIYR**GLIPLLAEGSAK**ATDAESTEVI EAALKSAT
KRGLCKPGDAVVALHRIGAASVIKICLVK

Protein No.: I-205

Protein name and Species:

Peptidyl-prolyl cis-trans isomerase OS=Hevea brasiliensis PE=2

SV=1

Accession: [tr|F8RW92|F8RW92_HEVBR](#)

Unused ProtScore: 9.88

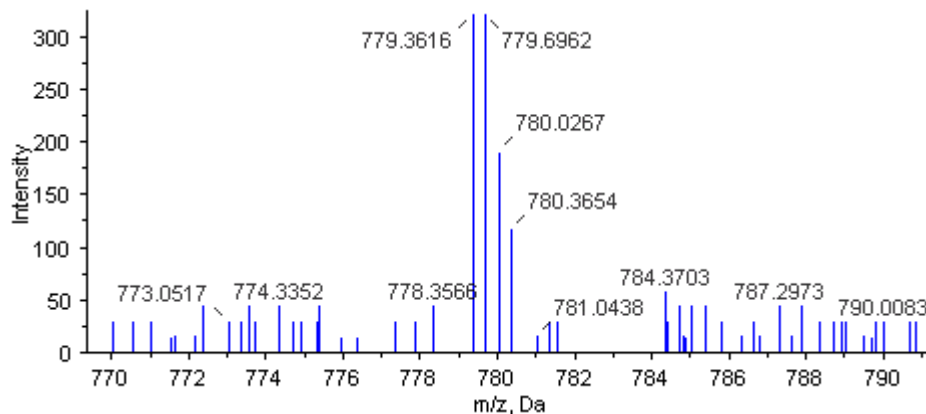
Seq Cov %: 66.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.66

116: 114=E5TL: D5TL= 0.75

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANPKVFFDMSVGGHPAGKIVMELYADVVPRTAENFRALCTGEKGIGKSGKPLHYKGSSFHRVIPGFMC
QGGDFTAGNGTGGESIYGAKFADENFTKHTGPGVLSMANAGPGTNGSQFFVCTAKTEWLDGKHVVFQ
VVEGMDVVKALEKVGSSSGRTSKPVVIADCGQLS

Protein No.: I-208

Protein name and Species:

Importin beta-3, putative OS=Ricinus communis

GN=RCOM_1361100 PE=4 SV=1

Accession: [tr|B9T1E9|B9T1E9_RICCO](#)

Unused ProtScore: 9.79

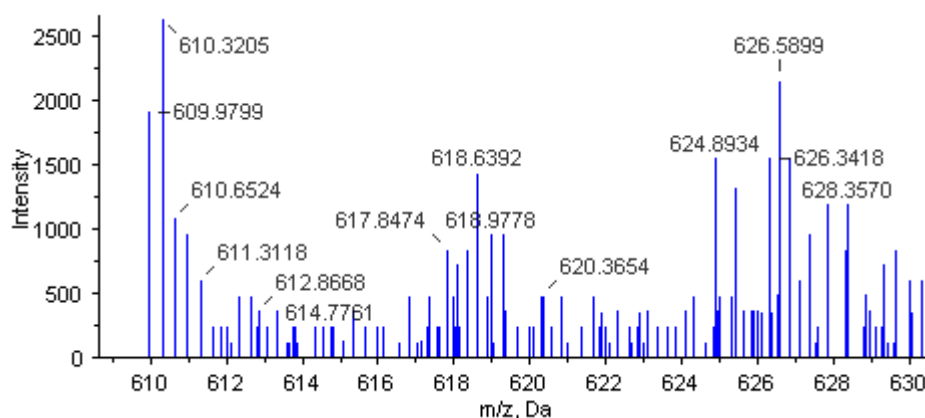
Seq Cov %: 6.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 3.31

116: 114=E5TL: D5TL= 2.11

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDESAQQLQLQQAQLAAAILGQDSAPFFETLISSLMSSSNEQRSQAEVLFNLCCKQTDPNLTLKLSHLLQF
SPHVDARAMSAVLLRKLKLLTRDNHVVDVTDSSSYLWPR**LSLATQSSIK**SILLTSIQHESTKSILKKLCDT
VSELAANILPDNGWPELLPFMFNCVSSDSAKLQESAFILIFAQLSQYIGESLIPFIKDLHTVFLQCLGSS
PSFDVKIAALNAVINFIQCLTSSADRDRFQDLLPAMMRTLTEALNNGNEATAQEAELELLIELAGTEPRF
LRRQLVDVVGSMLQIAEAEESLEEGTRHLAIEFVITLAEARERAPGMMRKLQPFI SRLFAILMRMLLDIE
DDPAWHAENEDEDAGETSNYSVGQECLDRLAISLGGNTIVPVASEQLPAYLAAP EWQKHHAALIALAQ
IAEGCSKVMIKNLEHVSMVLNSFHDPHPRVRWAAINAIGQLSTDLGPD LQNQYHQRILPALASAMDDF
QNPRVQAHAASAVLNFSENCTPEILTPYLDG**IVSKLLVLLQNGKQMVQEGALTALASVADSSQEHFQKY**
YDAVMPYLKTILVNATDKSNRMLRAKSMECISLVGMAVGKDKFREDAKQVMEVLM SLQGSQMETDDPTT
SYMLQPDVTITSADSDNDIDDSDES METITLGDKR**IGIK**TSVLEEKATACNMLCCYADELKEGFFPWI
DQVAPT**LVPLLLKFYFHEEVRKAAVSAMPELLR**SAKLAVEKGLSQGRNESYVKQLSDYIIPALVEALHKE
PDTEICANMLDALNECLQISGTLVDEGQVRSIVDEIKQVITASSSRKKERADR**AKAEDFDAEEGELIKE**
ENEQEEEFVDQVGEILGTLIKTFKASFLPFFDELSTYLTPMWGKDKTAEERR**IAICIFDDVAEQCRETA**
LKYYDTYLPFLLEACNDENPDVRQAAVYGLGVCAEFGGSVFKPLVGEALSRLNVVIQHPNAKQSENVMA
YDNAVSALGKICQFHRESINSAQIVPAWLNCLPITGDLIEAK**VVHEQLCSMVER**SDSELLGPNNQYLPK
IVSVFAEVL CGKDLATEQTASR**MVNLLR**HLLQQLP PATLASTWSLLHPQQMALQSILSS

Protein No.: I-210

Protein name and Species:

Profilin OS=Mangifera indica GN=Man i 3.01 PE=2 SV=1

Accession: tr|Q2XPH2|Q2XPH2_MANIN

Unused ProtScore: 9.66

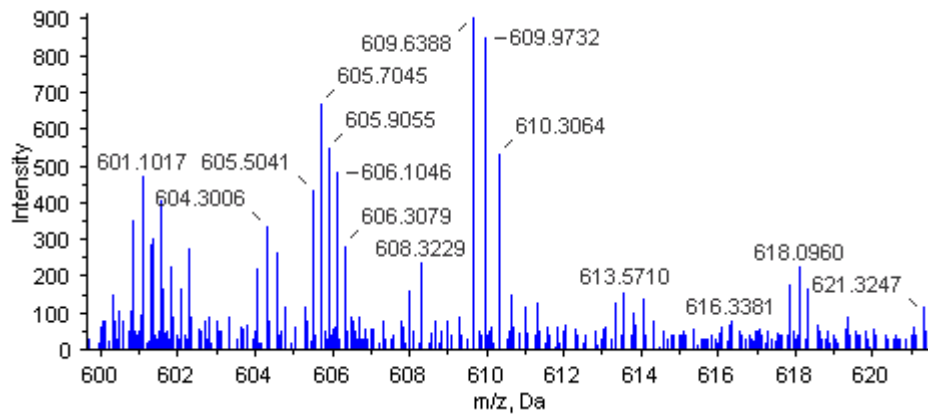
Seq Cov %: 31.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.67

116: 114=E5TL: D5TL= 1.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSWQAYVDEHLMCDIEGHHLTAAAI VGLDGSVWAQSANFPKLNPEEIT**AINKDFDEPGSLAPTGLHLGG**
TKYMVIQGEPEGAVIRGKKGPGGVTVKKTNMAFVIGIYDEPMTPGQCN**MIVER**LGDYLVEQGL

Protein No.: I-212

Protein name and Species:

Superoxide dismutase [Cu-Zn] OS=Hevea brasiliensis

GN=Cu/Zn-SOD PE=2 SV=1

Accession: tr|Q8GZP2|Q8GZP2_HEVBR

Unused ProtScore: 9.6

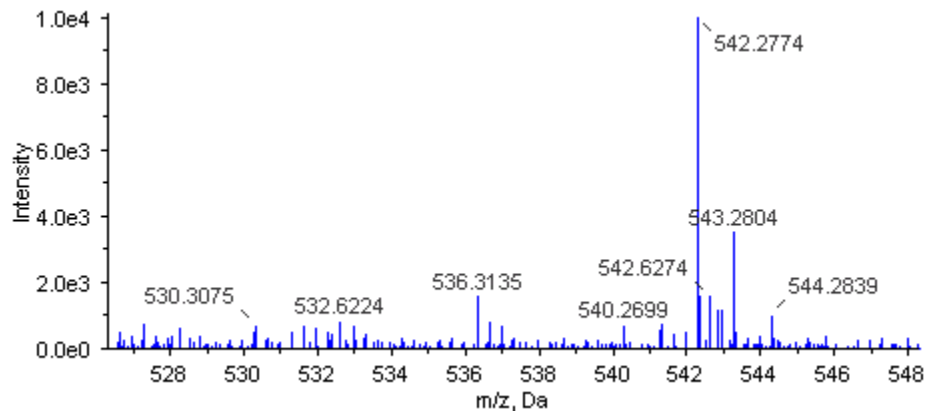
Seq Cov %: 37.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.35

116: 114=E5TL: D5TL= 0.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLK**AVAVITSS**EGISGKIFFFTQEGDGPPTTVTGSVSGLKPGHLHGFVH**TFGDTTNGCLSTGLHFNPASKD**
HGGPEDENR**HAGDLGNVNVGDDGTANFTIVDKHIPLSGPHSIAGR**SVVFHEGRDDLK**GGHEL**SKITGN
AGDRIACGLIIGLQE

Protein No.: I-213

Protein name and Species:

Seryl-tRNA synthetase, putative OS=Ricinus communis

GN=RCOM_1564380 PE=3 SV=1

Accession: tr|B9RXX9|B9RXX9_RICCO

Unused ProtScore: 9.57

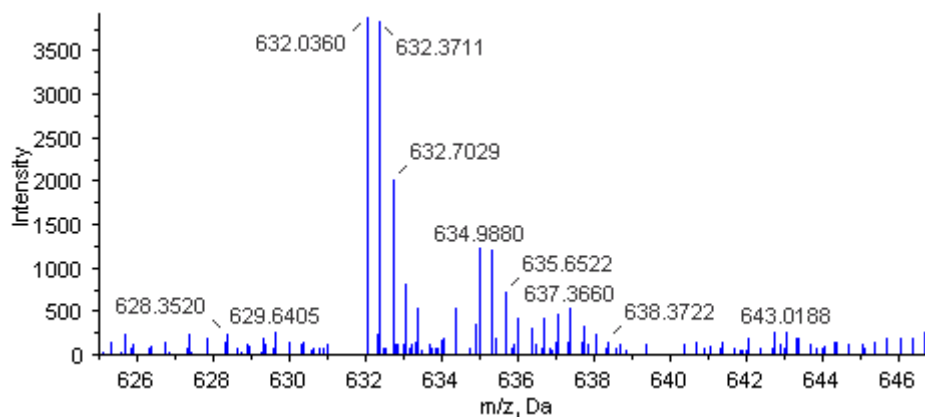
Seq Cov %: 13.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.66

116: 114=E5TL: D5TL= 0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLDINLFR^{EDK}GHNPQLIRESQRRRFANVNVVGEIILLDK^{EW}RQR^{QYEL}DNLR^{KDF}NKINKLVAKLKIA
GEDATEMIK^{DTNEN}KRLTAEK^{EAQVQE}AALALNK^{KLEEV}GNLVHDSVPVSNDEANNAVIR^{VWGE}KRLEP
KLNHVDLVELLGIADTKKGAN^{NVAGGR}GFYLGKGDVRLN^{QALIN}VALDFLEKRGYTALQTPFFMRKDIM
AK^{CAQLAQF}DEELYK^{VTGEGE}DKYL^{IATAEQ}PLCAYHLDDWIHPSQLPIR^{YAGYSS}CFR^{KEAGSH}GRDT
^{LGIFR}VHQFEKVEQFCITSPNGNDSWDMHEEMIKNS^{EDFY}KMLNIPYQVVAIVSGALN^{DAAAK}KYDLEA
WFPASNTYR^{ELVSC}SNCTDY^{QSR}KLEIRYGQKKNNEQAK^{QVHLLN}STLTATERTLCCILENYQ^{KENG}V
E^{IPEPL}RGYMGGKSFLPFQNNPPT^{EGK}GKSKA

Protein No.: I-216

Protein name and Species:

Phospholipase D OS=Populus trichocarpa

GN=POPTRDRAFT_829577 PE=3 SV=1

Accession: tr|B9GH43|B9GH43_POPTR

Unused ProtScore: 9.47

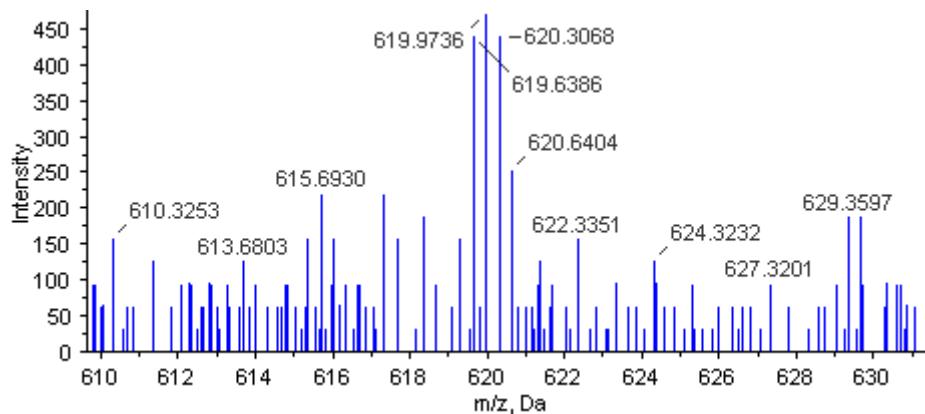
Seq Cov %: 18.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.36

116: 114=E5TL: D5TL= 0.77

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAQILLHGNLHVTTIYEVDKIGEGGGHGFHKLVGKVGEKVGIGNGISR**LYATIDLEK**ARVGRTR**ILENE**
ATNPRWYESFHIYCAHMASNVIFTVK**DVNPIGATLIGR**AYIPVEEILDGEEIDRWVEILDGDKNPIRAG
SKIHVKLQYFDITNDHNWGRGIRGSK**YPGVPYTFYSQR**QGCR**VSLYQDAHIPDKFIPK**IPLASGEYYEP
HR**CWEDVFDAITNAK**HLLIYITGWSVYTEISLVRDSR**RPKPGGDITLGELLK**KKASEGVR**VLMLIWDDRT**
SVGLLKRDGLMATHDEETEYHFQNTDVHCILCPRNPDDGGSIVQDLQISTMFTHHQ**KIVVDSAMPNGD**
SQRRRIVSYIGGIDLCDGRYDTPFHSLFRTLDTAHHDDFHQPNTGASIQKGGPREPWHDHRSRLEGPI
AWDVLFNFEQRWKKQGGK**DLLVQLR**ELEDVIIPSPVTPDDHETWNVQLFR**SIDGGAAFGFPETPEDA**
AKAGLVSGKDNIIDRSIQDAYINAIRRAKNFIYIENQYFLGSSFCWS**ADGIK**PEDINALHLIPK**ELSLK**
IVSKIEAGERFTVYVVVPMWPEGIPESASVQAILDWQRRTMDMMYKDVIQALRAKGLEEDPR**NYLTFFC**
LGNREVKKSGEYEPSEKPEPDSDYIRAQEARR**FMIYVHAK**MMIVDDEYIIIGSANINQR**SMDGARDSEI**
AMGGYQPYHLATRQPARGQIHGFRLGLWYEHGLMLDDTFLKPENEDCIR**KVNQIADK**YWDLYSSETLEG
DLPGHLLRYPIGISSEGNVTELPGTEYFPDTKAR**VLGAK**SDYMPPILTT

Protein No.: I-219

Protein name and Species:

14-3-3 protein 3 OS=Hevea brasiliensis PE=2 SV=1

Accession: [tr|F2YZ44|F2YZ44_HEVBR](#)

Unused ProtScore: **9.44**

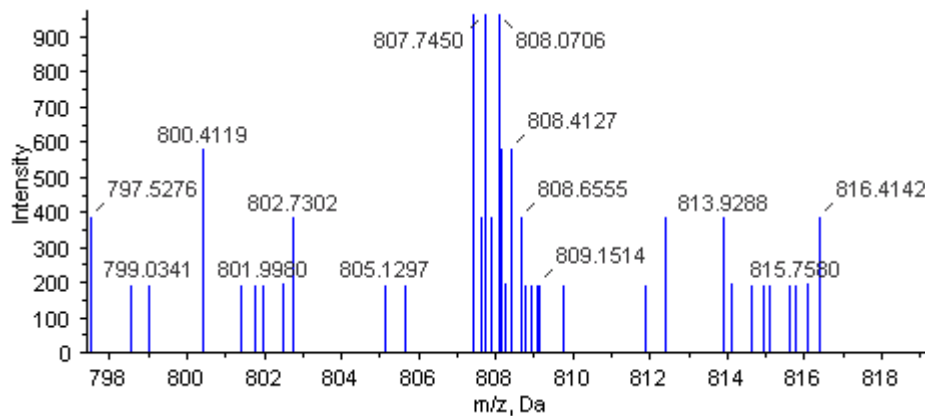
Seq Cov %: **47.7**

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in **different color**

MAVAPSSR**EESIYMAKLA****EQAERYEEMVEFM**EVKSASVEKEELTVEERN**LLSVAYKNVIGARR**ASWR**II**
SSIEQKEESRGNENHVMIRDYRAK**IESELSSICD**GILKLLDTRLIPPASPGDSK**VFYLMKGDYHRYL**
AEFK**TGAERKEAAESTLTAYKSAQDIATAELAP**THPIR**LGLALNFSVFYYEILNSPDRACSLAKQAFDE**
AIAELDTLGEESYKDSTLIMQLLRDNLTLWTSDIAD**EAGDEIK**EASKRESGEGQPQQ

Protein No.: I-220

Protein name and Species:

Caffeic acid O-methyltransferase OS=Boehmeria nivea

GN=COMT PE=2 SV=1

Accession: [tr|Q14VV8|Q14VV8_BOENI](#)

Unused ProtScore: 9.44

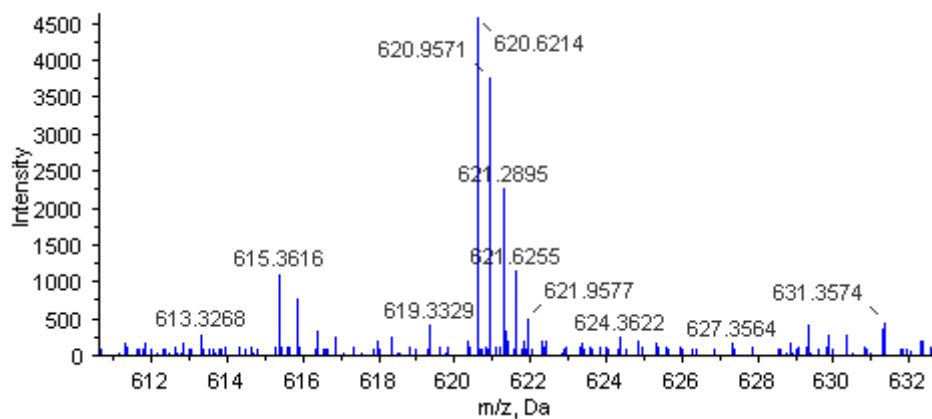
Seq Cov %: 19.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGSTGETQMTPTQVSDEEANLFAMQLASASVLPVLTAKTAEIDLL**EIIAK**AGPGAWLSPAETAAQLPTT
NPAAPVMLDRILRLLACYSVVACQLRTLPGGAAER**LYGLAPVCKFLTK**NNDGVSISPLCLMNQDKVLME
SWYYLK**DAVLEGGIPFNKAYGMTAFYHGTDP**RFNKVFNR**GMSDHSTITMK**KLLETYKGFEGLSVVDV
GGGTGAVLSMIVSN**YPSIK**GINFDLPHVIEDAPAYPGVEHVGGDMFVSVPK**GDAIFMK**WICHDSDEHC
LKFLKSCYDALPNNGKVIVAECILPVAPDTSLATK**GVAHIDVIMLAHNPGGKERAEKEFQALAKGAGFQ**
GFRVCSAFNTYVMEFLKKP

Protein No.: I-221

Protein name and Species:

Pathogenesis-related thaumatin (Fragment) OS=Populus
deltoides GN=PR52-1 PE=4 SV=1

Accession: [tr|D2JWP4|D2JWP4_POPDE](#)

Unused ProtScore: 9.34

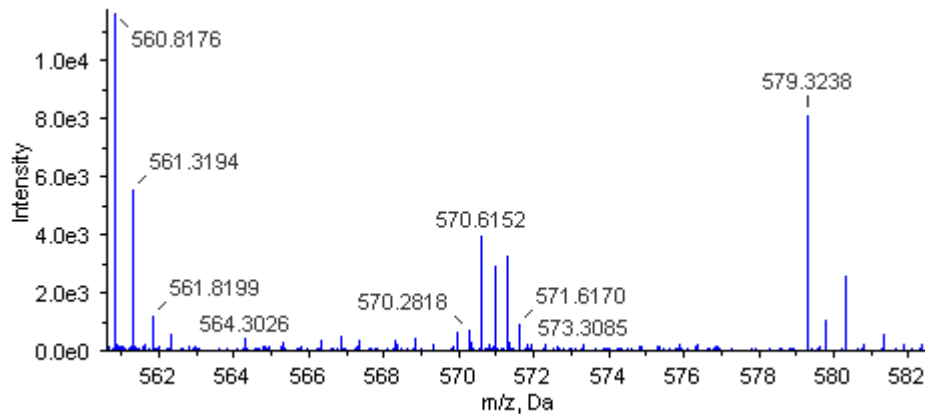
Seq Cov %: 35.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.28

116: 114=E5TL: D5TL= 0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSHLTKFLTSSLLFSLLIISTNAAT**FEIR**NNCPYTWAAASPGGRRLLDRGQTWYLNVPAGTSMAR**I**WG
R**TNCNFDGSGR**GRCQGTGDCTGGLECKGWGVPNTLAEYALNQFGNLDYDISLVDGFNIPME**FSPTSSG**
GSGKCQALLCTADINGQCPNELR**APGGCNNPCTVFK**TNEYCCTNGQGSCGPTYF**SRFFKDR****CPTSYSYP**
QDDPSSTFTCPGGTNYRVIFCPWGSPPHFPLEMVE

Protein No.: I-224

Protein name and Species:

Glutathione transferase, Lambda class OS=Populus trichocarpa

PE=2 SV=1

Accession: tr|D2WL72|D2WL72_POPTR

Unused ProtScore: 9.24

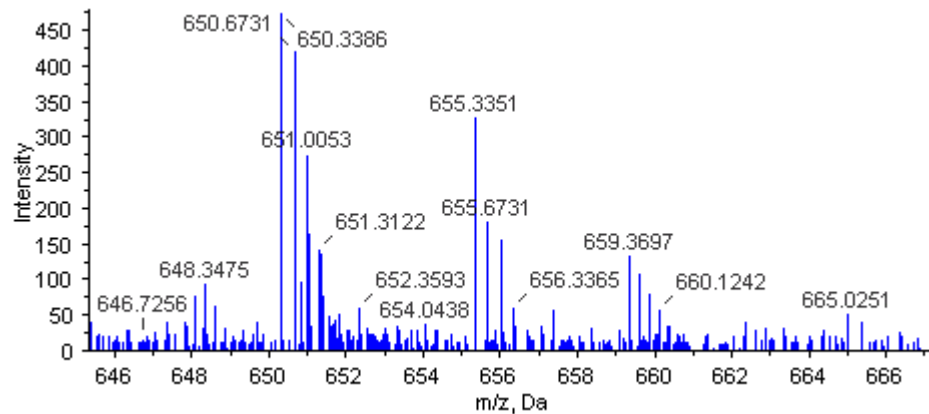
Seq Cov %: 32.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.52

116: 114=E5TL: D5TL= 0.61

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MELPRLYTCYTCPFAHR**VW**ITRNFKGL**LQDEIK**LVPLILQNRPAWYSEKVVPPNK**VPSLEHNGKITGESL**
DLIKYLESNFQGPSLLPEDPAKK**EFAEELFSYTD'TFNRTVFT'SFK**GDPAAK**EAGPAFDHLENALHK**FGDG
PFFLGQEF**SLVDIAYIPFVER**FCIFLSEVFK**YDI**TAGRPK**LAAWIEELNK****IEAYK**QTKTDPKEMVEVYK
KRFMA

Protein No.: I-226

Protein name and Species:

Latex cystatin OS=Hevea brasiliensis PE=4 SV=1

Accession: [tr|E8Z9H3|E8Z9H3_HEVBR](#)

Unused ProtScore: 9.2

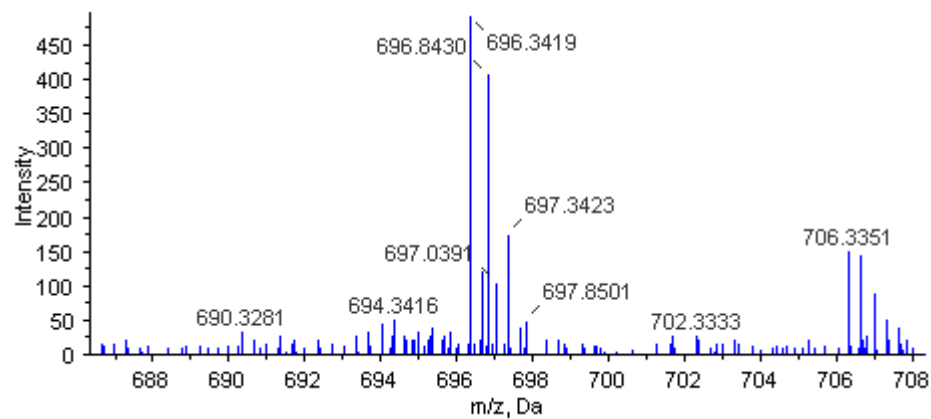
Seq Cov %: 32.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.57

116: 114=E5TL: D5TL= 0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKLGGVK **EV**EGSANS**VE**INSLARYAVDDYN**QK**QNAL**LE**FK**KVV**NAKQQVVAGTIYYITL**EV**IDGG**Q**KK
V**YE**AKV**WE**K**PWL**N**F**KE**VQ**EF**KL**IGDAPSD**STA**

Protein No.: I-227

Protein name and Species:

Rab4 OS=Hevea brasiliensis PE=2 SV=1

Accession: [tr|F2VXU6|F2VXU6_HEVBR](#)

Unused ProtScore: 9.17

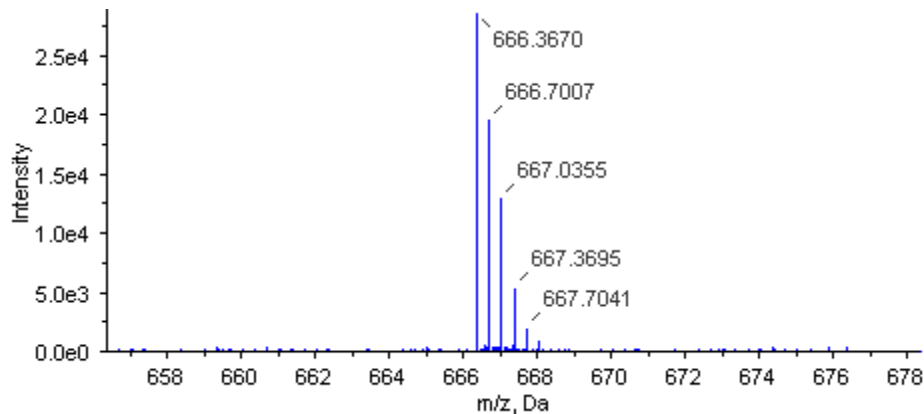
Seq Cov %: 40.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.17

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSNEYDYLFKLLLIGDSSVGKSCLLLRFADDSYVDSYISTIGVDFKIRTVELDGKTIK LQIWDTAGQER
FR TITSSYYRGAHGIIIVYDVTEMESFNNVKQWLNEIDRYANDSVCKLLVGNKCDLVDNKVVDTQTAKA
FADELGIPFLETSAKDSINVEQAFLTMAGEIKKMGSPAAASKSTGTTVQMKGQPIQQKNNCCG

Protein No.: I-230

Protein name and Species:

6-phosphofructokinase 3 OS=Populus trichocarpa

GN=POPTRDRAFT_866992 PE=4 SV=1

Accession: tr|B9H8X6|B9H8X6_POPTR

Unused ProtScore: 9.12

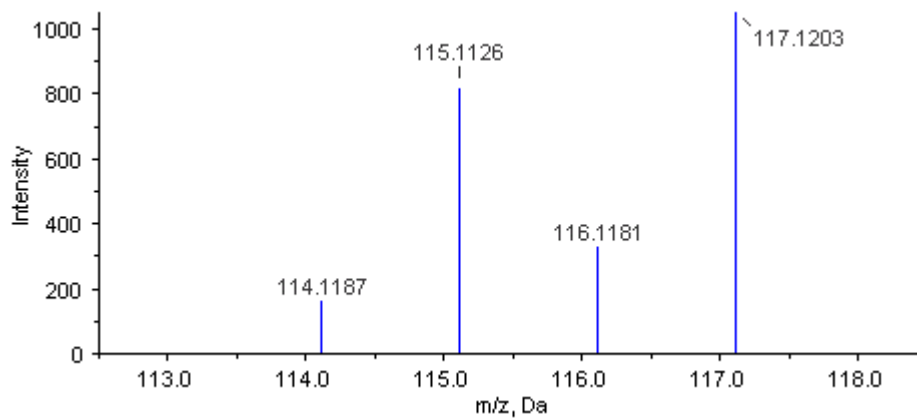
Seq Cov %: 14.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.54

116: 114=E5TL: D5TL= 0.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASNDVSKPKIITGDFGYVLEDVPHFTDYIPDLSTYSNPLQDNPAFCVVKQYFVHVDDSVPOKIVVHKD
SPRGIHFRRAGPRQKVYFDSDEVHACIVTCGGLCPGLNTVIREIVYSLYHMYGVTTVLGIDGGYRGFYA
RNTIALTPKVVNDIHKRGGTILGTSRGGHDTSKIVDSIQDRGINQVYIIGGDGTQK**GASVIFEEIR**RRG
LKVVV**AGIPK****TIDNDIPVIDK****SFGFDTAVEEAQRAINAAHVEAESVENGIGLVK**LMGRYSGFIAMYATL
ASRDVDCCLIPESPFYLDGKGGLFEYIEKQLKENGHMVIVIAEGAGQELLESEMQSRNQDASGNKLLQ
DVGLWISQGIKDYFSRQKTMAINLK**YIDPTMIR**AVPSNASDNVYSTLLAQSAVHGAMAGYTGFTSGLV
NGR**QTYIPFYR**IIEKQNK**VVITDR**MWARLLSSTNQPSFMSDKDVIEDKTECISGEKKEEDPATQFLDNG
NRADGVLENKEVSSV

Protein No.: I-241

Protein name and Species:

Acyl-CoA-binding protein (Fragment) OS=Jatropha curcas

PE=2 SV=1

Accession: tr|D6BR55|D6BR55_9ROSI

Unused ProtScore: 8.78

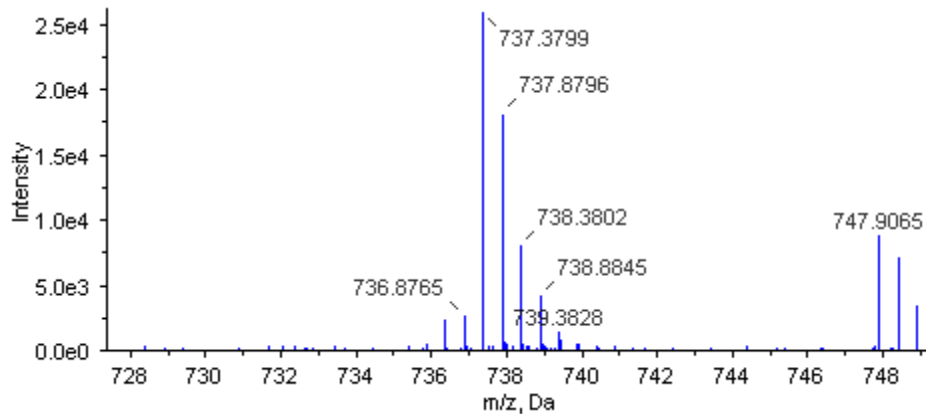
Seq Cov %: 35.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.40

116: 114=E5TL: D5TL= 0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGLKEEFEEYAAK**TL**PENT**TNEN**KL**LILYGL**LFK**QATVGPVNTSR****PGMFNMR**DRAKWD**AWKAVEGKSKE**
EAMSDYITKVKLLLEEEAAAAASA

Protein No.: I-242

Protein name and Species:

Actin-depolymerizing factor OS=Hevea brasiliensis GN=ADF

PE=2 SV=1

Accession: tr|D9I9X9|D9I9X9_HEVBR

Unused ProtScore: 8.71

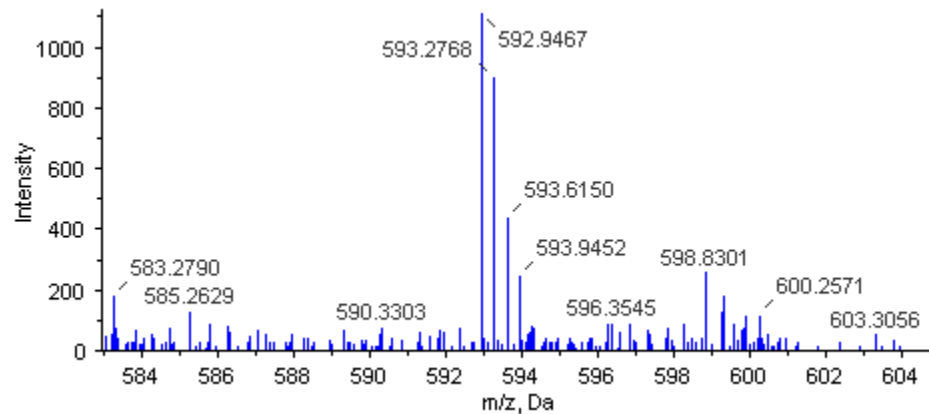
Seq Cov %: 61.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.58

116: 114=E5TL: D5TL= 0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANAASGMAVHDDCKLR**FLE**ELKAKR**TYR****YIV**FKIEEKAK**QVIVE**KL**GEPTQ**SYEDFTASLPAD**ECRYAV**
YDFDFVTEENCQKSRIFFIAWSPD**TSR**VR**SKMIYASSKDR**FKR**ELDGIQVELQATDPTE**MGLD**VFK**SRA
S

Protein No.: I-244

Protein name and Species:

Proteasome subunit alpha type OS=Ricinus communis

GN=RCOM_1595040 PE=3 SV=1

Accession: tr|B9R7X1|B9R7X1_RICCO

Unused ProtScore: 8.65

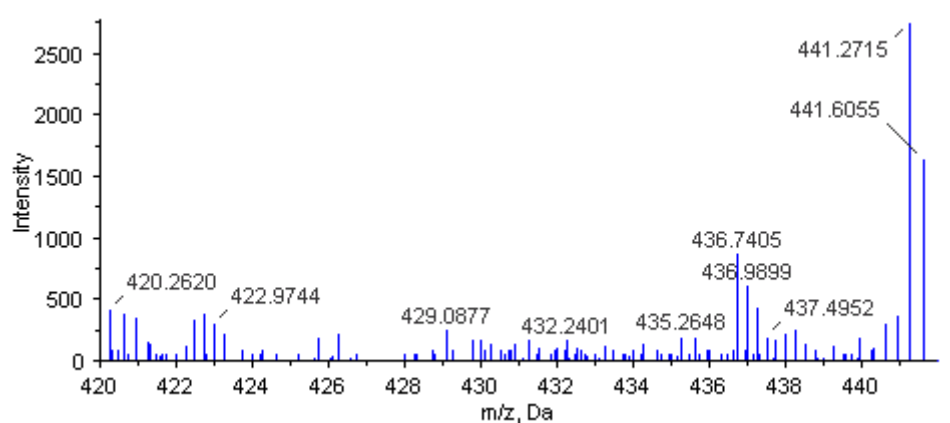
Seq Cov %: 23.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.61

116: 114=E5TL: D5TL=1.50

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MFRN**QYD****TDV****TTW****SPAG****RLFQ****VEYAMEAVKQGSAAIGLR**SK**THVVLACV****NKANSELSSHQ**KI**FKVDDH**
IGVAIAGLTADGRVLSRYMR**SECINYSFTYESPLPVGR****LVVQLADK**AQVCTQ**RSWKR**YPYGV**GLLVAGLD**
ESGAHLYY**NCPSGN**YFEYQAF**IGSR**SQA**AKTYMER****RFENFMDSSR**DDLIKDALIAV**RETLQGETLKSS**
ICTVAVV**GVGEAFH**VLDQ**ETVQQL**IDA**FEIVGEPEAPAAEPDAAAEGGGGAAADQG****GAAADQGGAAADE**
GVAPMDI

Protein No.: I-245

Protein name and Species:

ubiquitin-protein ligase 1 OS=Hevea brasiliensis PE=2 SV=1

Accession: [tr|F8RWS9|F8RWS9_HEVBR](#)

Unused ProtScore: **8.65**

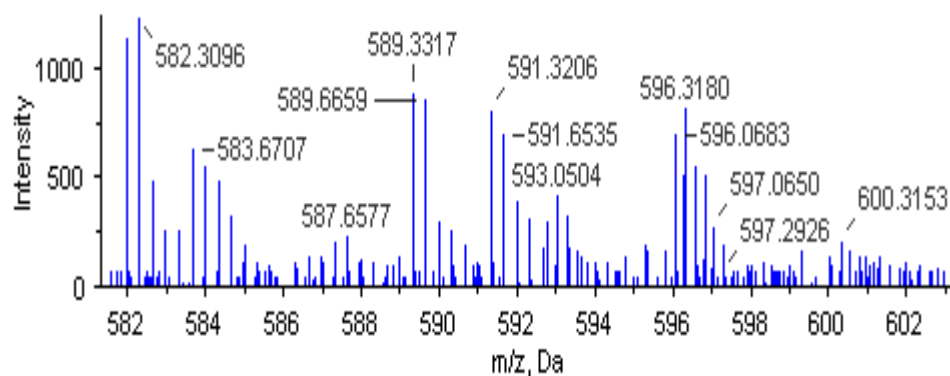
Seq Cov %: **41.8**

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in **different color**

MTLGS^{green}GGSS^{green}VV^{green}VP^{green}RN^{green}FR^{green}LL^{red}EEL^{red}ER^{red}GE^{red}KG^{red}IG^{red}DG^{red}TV^{red}SY^{red}GM^{red}DD^{red}DI^{red}YMR^{red}SW^{red}TGT^{red}II^{red}GP^{red}HNT^{red}V^{red}HE^{red}GR^{red}IY^{red}QL^{red}K
L^{red}FC^{red}DK^{red}DY^{red}PE^{red}K^{red}PP^{red}SV^{red}RF^{red}HS^{red}RIN^{green}M^{green}TC^{green}VN^{green}HET^{green}GV^{green}VE^{green}PK^{green}KF^{green}GL^{green}LAN^{green}W^{green}QR^{green}EY^{red}TM^{red}EDI^{red}L^{red}T^{red}QL^{red}KE^{red}MA^{red}A^{red}PH^{red}NR^{red}K^{red}LV^{red}
QP^{red}PEG^{red}TY^{red}F

Protein No.: I-246

Protein name and Species:

Plant synaptotagmin OS=Populus trichocarpa GN=NTMC2T1.2

PE=4 SV=1

Accession: tr|B9HR67|B9HR67_POPTR

Unused ProtScore: 8.6

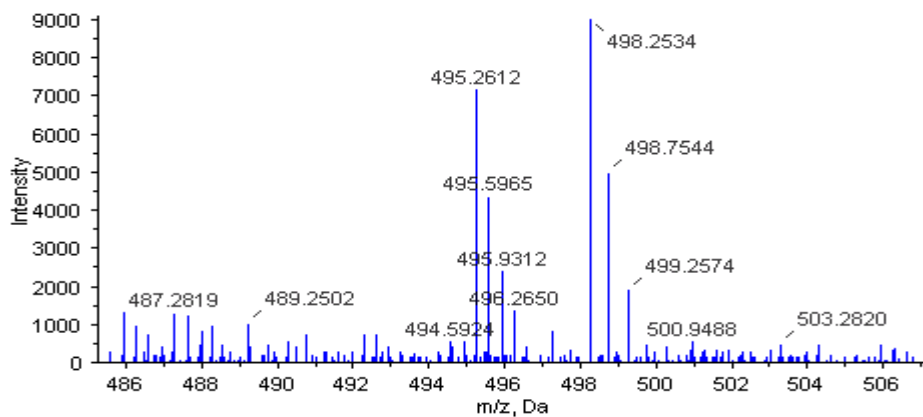
Seq Cov %: 12.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.79

116: 114=E5TL: D5TL= 0.69

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGFLSTISGFCGFGVGLSTGLTIGYYLFIYFQPTDVKDPEVR**PLAEQDSETLQR**ILPEIPLWVKNPDYD
RIDWLNRFIQLMWPYLDKAICKTVKNIAKPIIAEQIPKYKIDAVEFETLTLGTLPPTFHGMK**VYVTDEK**
ELIMEPCIKWAGNPVTVAVKAFGLK**ATAQVVDLQVFASPRITLKPLVPSFPCFAN**IYVSLMEKPHVDF
GLK**LLGADLMSIPGLYR****VQEI****IK**DQVANMYLWPK**TLEVP****ILDP****AK**AMK**LKKK****DLMGASDPYVK**IKLTE
DKLPAKKT**TVKHK**NLNPEWNEEFNLVVKDPESQALELRVYDWEQVGKHDR**MGMNVVPLK**DLTPEEPK**VM**
TLDLLKNMDLNDPQNEKSRGQLMVELTYKPFKEDDLNKSFKDEVEQKAPEGTPAGGLLVVTIHEAQDV
EGKHHTNPYVRL**LFRG****EEMK**TKRVKKNRDPWEEEFQFTLEPPVNAKLH**VEVSTSSR**IGLLHPKESL
GYVEINLSDVVSNNRRINERYHLIDSKNGKIQIELQWRPAS

Protein No.: I-247

Protein name and Species: P5CS, Delta
1-pyrroline-5-carboxylate synthetase, putative OS=Ricinus
communis GN=RCOM_1482350 PE=3 SV=1

Accession: tr|B9SE11|B9SE11_RICCO

Unused ProtScore: 8.57

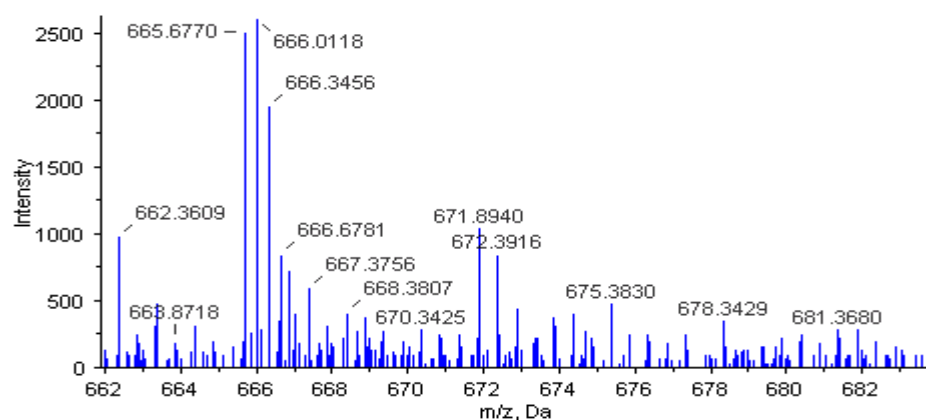
Seq Cov %: 6.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 2.03

116: 114=E5TL: D5TL= 1.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MNGGMDRSR**AFVK**DKVRLVIKVGTA>VVTRGDGRLALGRLGAFCEQVKELNSQGYEVIVVSSGAVGLGRQ
RLRYRKLVNSSFADLQKPQVEIDGKASAAVGGSSLMALYDTMFSQLDVTSAQLLVTDNDFRDKDFRKQL
NETVE**SLLSLRVIP****IFNENDAVSTR**KAPYEDASGIFWDNDSLAL**LAL****ELK**ADLLVLLSDVDGLYSGPP
SDPRSKLIHTYIKEIHHGEITFGDKSRVGRGGMTAKVKA>VNAAYAGIPV>IITSGFARENILKVLQGER
VGTLFHQDAHIWVPIKEVCGREMAVAARESSRRLQALSSQERKRILLDIADALEANEEQIKIENEADVA
AAQLAGLEKSLISRLALKSGKIKSLANSIRVLANMEDPI**CVLK****RTELADGLLLEK**TSSPLGVLLIIFE
SRPDALVQIASLAIRSGNGLLLKGGKEAKRSNEILHKIITAAI**PE****TIGGKLI****GLVTSR**DEIPDLL**KLDD**
VIDLVIPRGSNKLVSQIKASTKIPVLGHADGICHVYVDKSNMEMAKRIVLDA**KIDYPAACNAME****TLV**
HKDLVQTGGLNELTVDLRTEGVNLYGGPRASKELNVPEVDSFHHEYNMACTIEIVDDVYAAIEHIHEH
GSAHTDCIITEDHEVAEVFLC**QVDSAAVFHNASTR****FSDGAR**FGLGAEVGI**STSR**IHAR**GPVGVEGLLTT**
RWILRGNGQVVDGDKGVIYTHKDVTHIHSNGFVPASLTKEDN

Protein No.: I-248

Protein name and Species:

adenosine kinase 2 [Vitis vinifera] OS=Vitis vinifera

GN=VIT_13s0019g04480 PE=4 SV=1

Accession: [tr|F6HNF4|F6HNF4_VITVI](#)

Unused ProtScore: 8.56

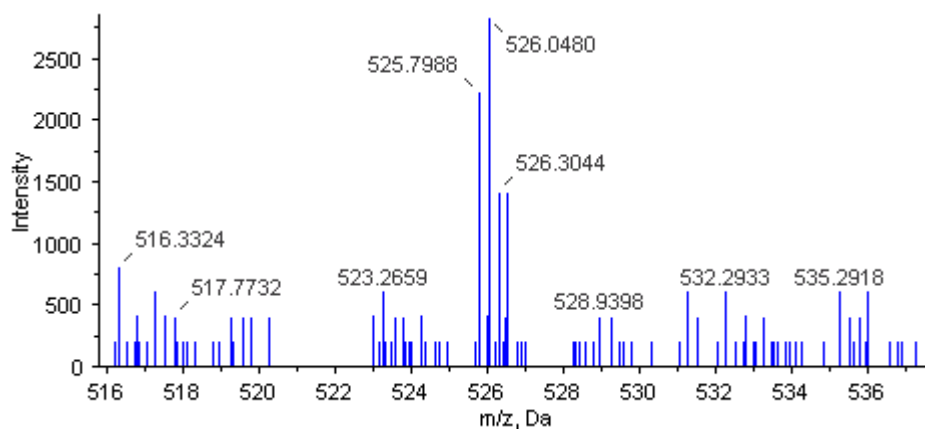
Seq Cov %: 16.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.34

116: 114=E5TL: D5TL= 0.50

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAYEGILLGMGNPLLDISSVVDEEFLQRYDIKLNNAI**LAEDK**HL**PMYDEM**ASKYNVEYIAGGATQNSIR
VCQWMLQIPGATSYMGCIGKDK**FGEEMK**KNSKLAGVNVHYREDETAPTGTCAVCVVGGER**SLIANLSAA**
NCYKSEHLKRPENWALVEKAKYFYIAGFFLTVSPESILLVAEHAAANNKVFMMNLSAPF**ICEFFK**DQQE
K**ALPYMDYVFGNETEAR**TFSR**HGWETDNVEELAIK**ISQWPKASGTHKR**ITVITQGADPVVVAEDGK**VK
SFPV**ILLPKE**KLVDTNAGDAFVGGFLSQLVQEKPIEECVRAGCYASHVIIQR**SGCTYPEKPDFS**

Protein No.: I-256

Protein name and Species:

Fructose-bisphosphate aldolase OS=Populus trichocarpa

GN=POPTRDRAFT_832739 PE=3 SV=1

Accession: [tr|B9HJ73|B9HJ73_POPTR](#)

Unused ProtScore: 8.36

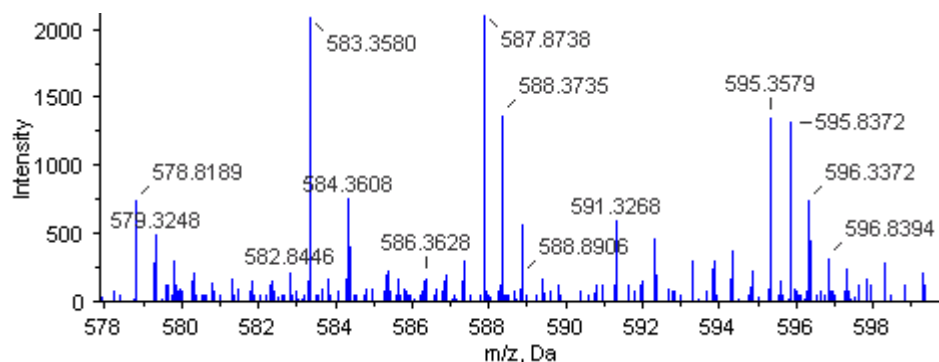
Seq Cov %: 19.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.66

116: 114=E5TL: D5TL=0.75

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MACASFVKLNAASSSWGKSSFGK**RSPGSSTRR**VSFSIRASSYTDELVQTAKLIASPGR**GILAI****DES**
ATCGKRLASIGLDNTEETNRQAYRQLLLTTPGLGEYISGAILFEETLYQSTTDGRK**FVDCL****RDENIVPGI**
KVDKGLVPLPGSNNESWCQGLDGLASRSAEYKQGARFAKWR**TVVSIPCGPSALAVK****EAAWGLAR**YAAI
SQDNGLVPIVEPEILLDGDHPIDRTLEVAEKVWAEVFYLAENNVVFEGILLKPSMVTPGAHEHKEKASP
DTIAK**YTLTMLK**RRVPPAVPGIMFLSGGQSEVQATLNLNAMNQSPNPWHVSFSYAR**ALQNTVLK**TWQGR
PENVEAAQKSLLVRAKANSLAQLGRYSAEGESEAKKGMFVKGYTY

Protein No.: I-261

Protein name and Species:

Arginyl-tRNA synthetase, putative OS=Ricinus communis

GN=RCOM_1049090 PE=3 SV=1

Accession: [tr|B9RKG2|B9RKG2_RICCO](#)

Unused ProtScore: 8.15

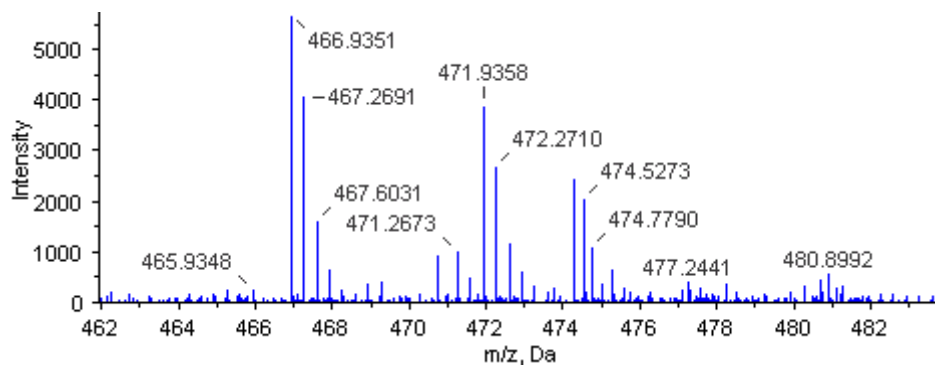
Seq Cov %: 14.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.53

116: 114=E5TL: D5TL= 0.96

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATNAENEDNVGNLKKQIAK**LF****EASLR****ETVPSEPDVEPLVA****ACTAK**FGDYQCNNAMSLWSKIKGKNTEF
K**GPPAVGQAIMKNLPPSEVIESCSVAGPGFVNVL****SK**KWMSKKIQKMLIDGIDSWAPKLLVKKR**AVVDF****S**
SPNIAKEMHVGHLRSTIIGDTLAR**MLEFSK**VDVLRRNHVGDWGTQFGMLIEFLFEK**FPNFEDVNERAIG**
DLQAFYKASKQRFDADSEFKERAQKAVVRLQGGEPKYRQAWAQICDISRKEFDKVYQR**LGVQLEEK**GES
FYNPYIPGIIDALSNQGLVEESEGARVIFIEGVNIP**LIVVK**SDGGFNYASTDLTALWYRLNEEKAEWII
YVTDVGQQQHFDVMVFKAASWLPADDSMFPKASHVGFGLVLG**DDGK**RFRTRATEVVR**LVDLLDEAK**T
RSKAVL**VERGK**AEEWTEQELEQIAEAIGYGAVKYADLKNNRLTNYTFNYDQMLNDK**GNTAVYLLYAHAR**
ICSIIRKSGRDMEELKKGSLVLDHPDERSLGLHLLQFAETVEEACTNLLPNVLCEYLYNLSEYFTKFI
SNCKVVESPEETSRLLLCEATAVVMRKCFFLLGIVPVYKI

Protein No.: I-262

Protein name and Species: Carotenoid cleavage dioxygenase 1

OS=Manihot esculenta GN=CCD1 PE=2 SV=1

Accession: [tr|E2DQG6|E2DQG6_MANES](#)

Unused ProtScore: 8.15

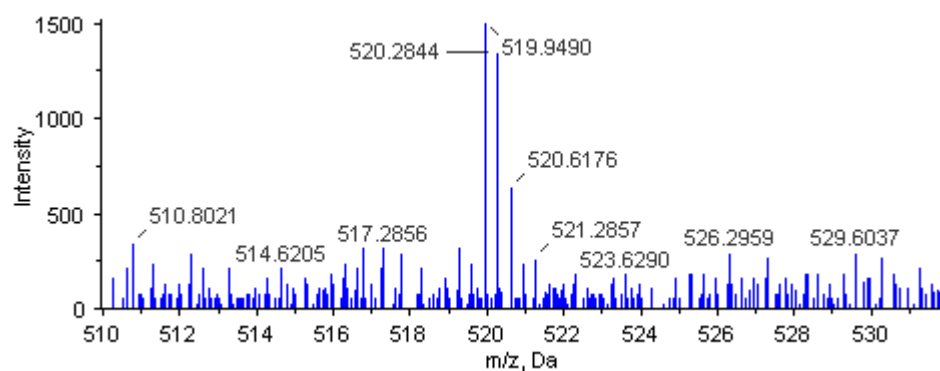
Seq Cov %: 10.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.20

116: 114=E5TL: D5TL= 0.65

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEKSEVEKKQGNSGGAGVPIVEVKPKPRKGLASK**FVDLL**EKLIVKLMFDASKPLHYLSGNFAPVTDE
TPPVRDLSVKGHLDPDCLNGEFVVRVGPNPKFAPVAGYHWFDDGDMIHGMR IKNGKATYVRRYVRTSR**IQQ**
EEFFGGSKIMKVGDLKGLFGLFMVNMQILRAKLVLDMSYNGTANTALIYHHGK**LLALQEADKPYVVK**
VLEDGDLQTVGMLDYDKRLKHSFT**AHPK**VDPNTGEMFTFGYAHEPPYITYRVISKDGMHDPVPIITISD
PIMMHDFAITENYAIFLDLPLYFRPKEMVKDKKLIFFDATKKARFGVLPYAKDDHQIRWFELPNCFI
FHNANAWEEDEEVVLIITCRLENPDLDMVSGNVKEKLENFANELYEMRFNMKTGVASQKRLSAPAVDFPR
VNESYTGRKQRYVYGTILDSIAKVTGI IKFDLHAEPQQGKTK**LEVGGNIKGIFDLGPGR**FGSEAVFVPR
EPGTSSEEDDGYLIFFTHDENTGKSSVNVIDAK**TMSSDPVAVVELPHR**VPYGFHAFVTEEQQLQAQATL

Protein No.: I-264

Protein name and Species:

Glutaredoxin OS=Hevea brasiliensis PE=4 SV=1

Accession: [tr|B3FNP8|B3FNP8_HEVBR](#)

Unused ProtScore: 8.09

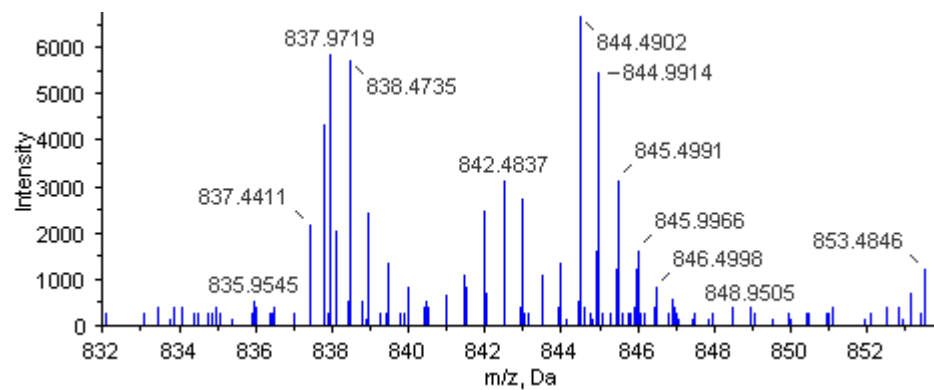
Seq Cov %: 43

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.28

116: 114=E5TL: D5TL=0.31

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAMTKAKELVSSNSVVVFSKTYCPYCTSVKLLDELGANYKTVELDTEGDGSQVQSALAEWTGQRSVVPN
VFISGKHIGGCDTTTGMHKEGKLIPLLLTEAGALAKASA

Protein No.: I-266

Protein name and Species:

ras-related protein RABA3 OS=Ricinus communis

GN=RCOM_0143940 PE=3 SV=1

Accession: tr|B9T509|B9T509_RICCO

Unused ProtScore: 8.05

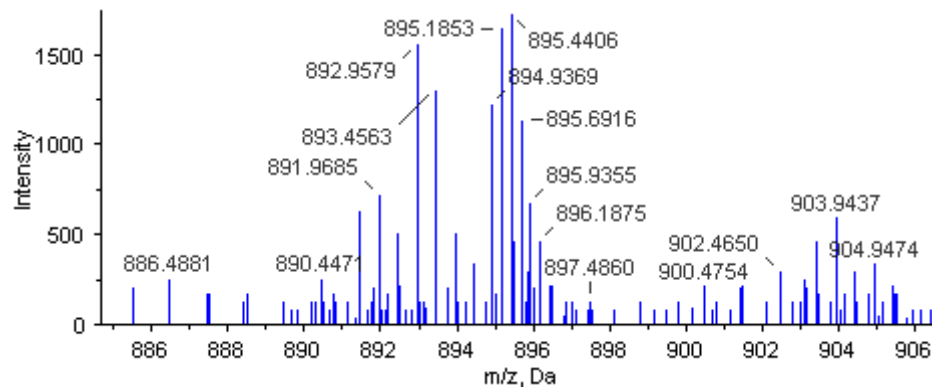
Seq Cov %: 42

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.46

116: 114=E5TL: D5TL= 0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MNQEMNGDDQENLQEKIDYVFKVVVIGDSAVGKTQLLSRFTKNEFCFDSKSTIGVEFQTRTVTIKGVV
KAQIWDTAGQERYRAVTSAYYRGALGAMLVYDITKRATFDHVARWVEELRAHADNSIVITLIGNKADLV
DQRAVPTEDAVEFAEDQGLFFSETALSAGDNVDRAFFRLLLEEIYGVISKKSLECGGHKTNGADSVMLRG
SKIDVISGSDLEISEMKKLSACSC

Protein No.: I-267

Protein name and Species:

Peroxiredoxin, putative OS=Ricinus communis

GN=RCOM_1052060 PE=4 SV=1

Accession: [tr|B9RKM9|B9RKM9_RICCO](#)

Unused ProtScore: 8.02

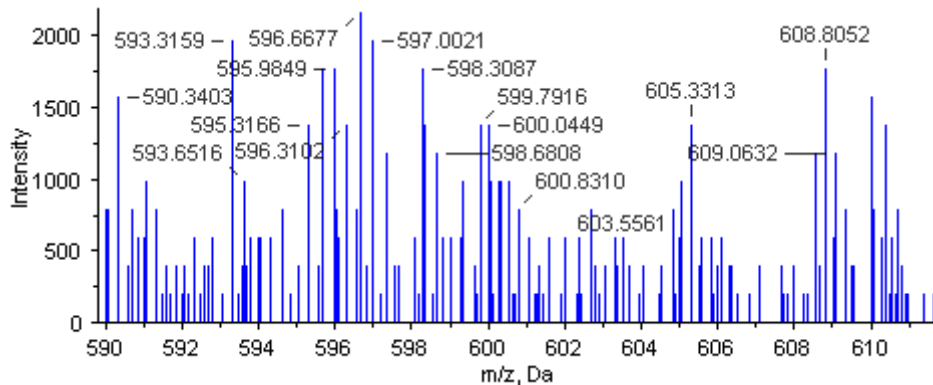
Seq Cov %: 29

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.39

116: 114=E5TL: D5TL= 0.12

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPIAAGDTLPDGTLAYFDEQDQLQQVSIHSLAAGK**KVVIVGVPGAFTPTCSLK**HVPGFIEKAEELKSK

GVAEILCLSVNDPFVVKAWAKTYPENKHVKFLADGSATYTH**ALGLELDLK**EKGLGTRSR**R**FALLVDDLK

VK**AANLEEGGEFTVSSVDEILKAL**

Protein No.: I-268

Protein name and Species:

Ubiquilin, putative OS=Ricinus communis GN=RCOM_0873810

PE=4 SV=1

Accession: tr|B9S6T7|B9S6T7_RICCO

Unused ProtScore: 8

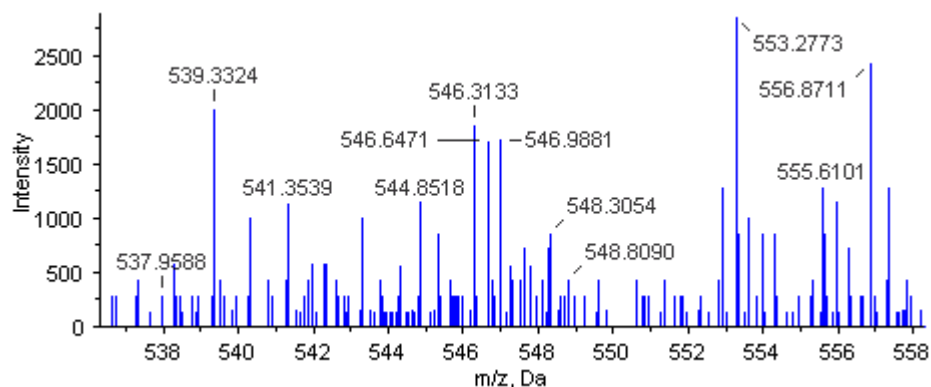
Seq Cov %: 9.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.53

116: 114=E5TL: D5TL= 1.67

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGGGNGASVDESSNNGDEVNVNIRCSNNGSKFSVGLISLSESVETFKTVLAGKCDVPADQQRLIYKGRILK
DDQTLQSYGLEADHTVHLVIRGFAPAAAANTAPPSTGGSNPASTNTRAVGSNEGGALGGSIDLGLFPGMR
LNGLGGSAGLFGAGLPEFEQVQQQLTRNPIMREIMNTPVVQNLMMNPEIMRNLIMNNPQMR**EIIDRNP**
ELAHILNDPSTLRQTLAARNPELMREMMRNTDR**AMSNISSPEGFNMLR**RMYEYTVQEPFLNATTMAGN
TGGDSANPFAALLGNQAGNQASDATTNPSIASSESTTGSPAPNTNPLPNPWTATGTGGALNNTARSSNT
GDARPQTPVGLGGLGLPEFDSMFGAMPDSNVMSQMLQNPASQMMQSLLSNPQYMNQMLGSNPQFRSML
DSNSQFREMMQNPEFLRQLTSPETMQQLLTFQQALLSQFGRQQSNQEPGQTGAGTGTNNMGLDMLMNM
FGGLGAGSLAVPNRSNVPPEELYATQLSQLQEMGFFDTQENIR**ALIATAGNVHAAVERLLGNSGQ**

Protein No.: I-269

Protein name and Species: 2,3-bisphosphoglycerate-independent
phosphoglycerate mutase OS=Populus trichocarpa
GN=POPTRDRAFT_825441 PE=4 SV=1

Accession: [tr|B9IGY9|B9IGY9_POPTR](#)

Unused ProtScore: 7.99

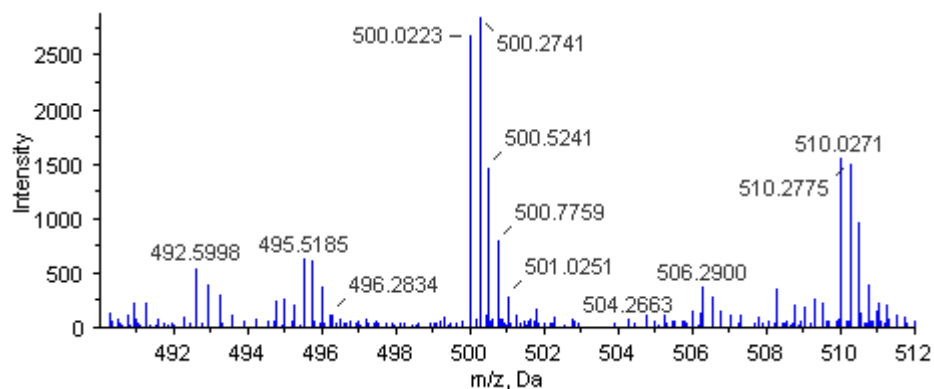
Seq Cov %: 7.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGSPGQNAWKLADHPKLPKGKTIAMVVLGDWGEAKPDQYNCIHVAHTPTMDSFKTTAPEKWRLIKAHGT
AVGLPSEDDMGNSEVGHNALGAGRIFAQGAKLVDLALASGKIYDGEQFKYIKECFDNGTLHLIGLLSDG
GVHSRLDQLQLLLKGAVENGAKRIRVHILTDGRDVLGSSIGFVETLEKDLNLREKGIQAQIASGGGR
MYVTMDRYENDWDVVKRGWDAQVLGEAPYKFRNAVEAVKKLREEPKANDQYLPPFVIVDESGNPVGP
DGDVVTFFNFRADRMAMLAKELEYEDFKFDRVRVPKIHYAGMLQYDQELKLP SHYLVSPPEIDRTSGE
YLVHNGIRTFACSETVKFGHVTFWNGNRSGYFNQEMEEYVEIPSDVGLTFNVQPKMKAIETAEKARDA
ILSGKFDQVRVNLPNGDMVGHTGDI EATV VACKVADDAVKMIIDAIEQVGGIFVITADHGNAEDMVKRD
KSGKPLLDKNGNLQILTSHTLQPVPIAIGGPGLAPGARFRNDVPTGGLANVAATVMNLHGFEAPSDYEP
TLIEVVND

Protein No.: I-278

Protein name and Species:

26S proteasome non-atpase regulatory subunit, putative

OS=Ricinus communis GN=RCOM_0974240 PE=4 SV=1

Accession: [tr|B9SXW5|B9SXW5_RICCO](#)

Unused ProtScore: 7.82

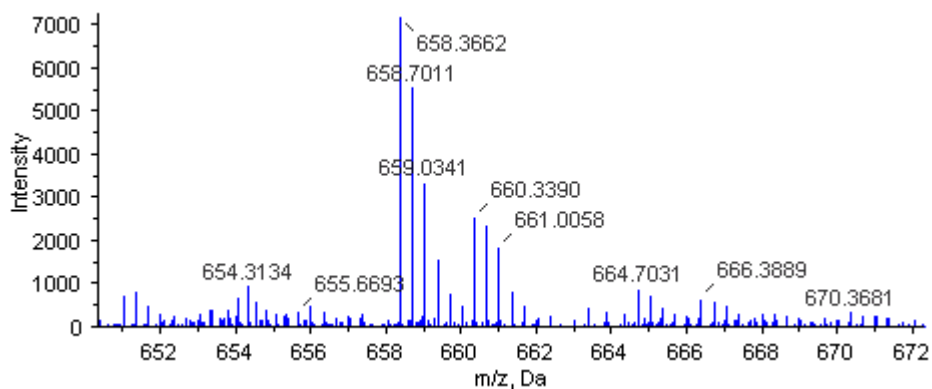
Seq Cov %: 20.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.58

116: 114=E5TL: D5TL= 0.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVLEATMICIDNSEWMRNGDYNPSRFHAQADAVNLI**CGAKTQSNPENTVGVLTMAGK**GVR**VLVTPTSDL**
GKILACMHGLEIGGEMNLAAGIQVAQLALKHRQNKQQQR**IIVFAGSSIK**HDKKALEMIGKKLKKNNVA
LDIVDFGEEDEKAEKLEALLAAVNSNDTSHIVHVPPGPSALSDVLISTPVFTGDGEGGSGFAAAAAAA
AAGGVSGFEFGVDPNLDPELALALR**VSMEEER**AR**QEAAAKKAAEEAAK**QEK**GGEQPSSSQDATMTESAS**
VTASEADNKRHDLTNEENALLQQALAM**SMDDPASSQELR**DTDMSEAAADDPELALALQLSVQDSPKDSG
NPTDMSKLLADQSFVSSILASLPGVDPNDPSVK**DLASMQSQSEPQEK**KDEDKPKEEK

Protein No.: I-279

Protein name and Species:

FAS-associated factor 2 OS=Populus trichocarpa

GN=POPTRDRAFT_554543 PE=4 SV=1

Accession: tr|B9GXV5|B9GXV5_POPTR

Unused ProtScore: 7.78

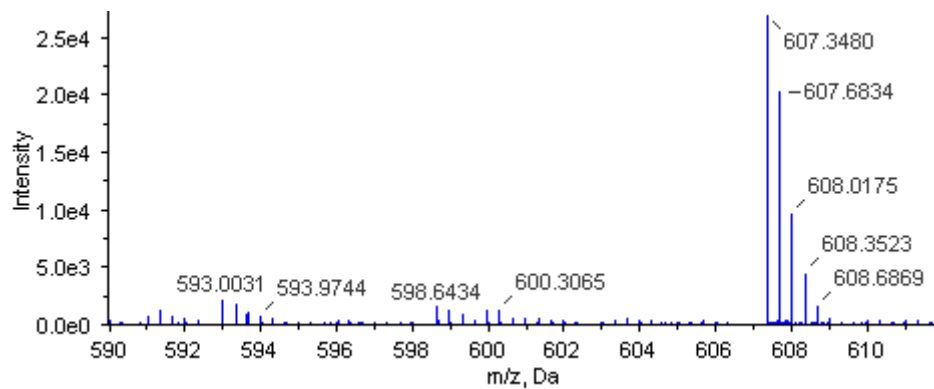
Seq Cov %: 14.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=0.67

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVDVADKLAYFQAITGLEDPDLCTQILQAHNWDLELAISSFTSNHNNDPLSYSSSTATATTSTVVEPPI
SSIHRSDSTAIAPVAPPPPGLGWKIITLPIISIVSGSLRLISGAVGFGFWAAGSIFSYSLSLGFIFSSNSG
RGGDSSAQLVTVSAASREALEFIAQFERDYGGSGSSSRPNFVGEFMDALTRSRSNSFKLLFVYLHSPDH
PDTPAFCEGTLTCEVFSFAFVNENFVAVGGSLRGSEGFKMSNSLKASR**FPFCAVVMPATNQRIALLQQVE**
GPKSPEEMLMTLQRVLEESAPVLVAARLEAEERTTNMR**LREEQDAAYR**AALEADQARERQLREEQERLE
REAA**EAER**KRKEEEEEAQERATREAAEKEAALARMRQEK**ALSLGAEPEKGPNTQVLVRFPTGER**KERRF
HSTATIQSLYDYVDSLGLDVENYSLVSNFPRVVYGTDKVLSLSLKEAGLHPQASLFVELN

Protein No.: I-280

Protein name and Species:

Putative uncharacterized protein OS=Ricinus communis

GN=RCOM_0799000 PE=4 SV=1

Accession: tr|B9RRX1|B9RRX1_RICCO

Unused ProtScore: 7.72

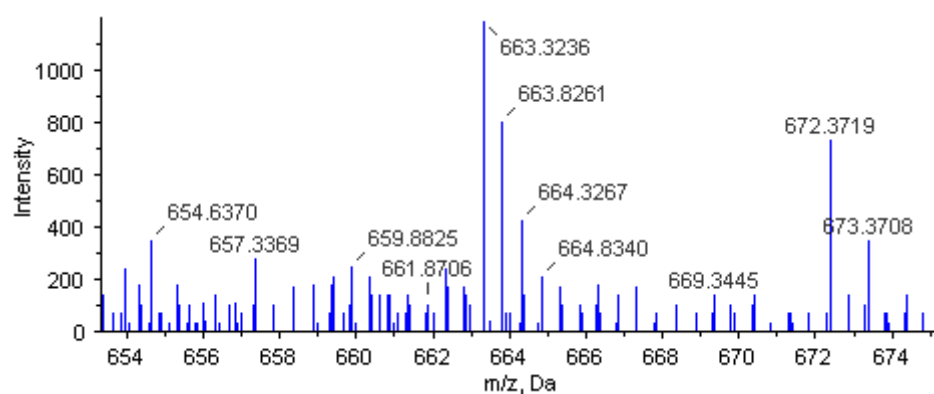
Seq Cov %: 3.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.34

116: 114=E5TL: D5TL= 0.50

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MARFYSSVTLFFNFALIIITTTLISNPNFVISSNNVHTSFSIIDYDSNLFHQDYSPSPPPPPHAPSVS
CTDDLGGIGSLDTCRIISNVNLTTRDVYIAGKGNFYIHPGVSFNCLSFGCSVTINITGNFTLSINASIV
TSSFELVAYNASFSNNSVVNTTGLAGNPPPQTSQTPQGIDGAGGGHGGR**GACCLVDDK**KLPEDVWGGDA
YSWSSLQIPNSYGSRRGGSTSKEVNY**GGGGGK**VKFTI SEYLVVDGGILADGGDGGSK**GGGSGGSIFIK**
AYKMTGSGR**ISACGGSGFAGGGGGRVSDIFSR**HDDPQIFVHGSSSF**GCPENAGAAGTLYDAVPR**SLIV
SNHNMSTDTELLLLDFPYQPLWTVYVRNHRATVPLLWSRVQVQGGQISLLCHGVLSFGLAHYASSEFE
LLAEELLMSDSVIKVYGALRMTVKIFLMWNSKMIVDGGEDTTVTTSWLEASNLIIVLKESSVIQSNANLG
VHQQLLNLSGPGDSIEAQRLVLSLFYSIHVGPVSVLRGPLQNATSDAVTPRLYCELQDCPIELLHPPE
DCNVNSSLFRTLQICRVEDITVEGLIKGSVVHFHRARTVSVLSSGR**ISASGMGCTGGVGRGHVLENGIG**
SGGGHGKGGLGCVNGSCIEGMSYGNVELPCELGSGSGDESSAGSTAGGGIIVMGSLDHPPLSSLSVEG
SVRADGESFQQTVKLGKLTVKNDTTGGPGGGSGGTILMFLHTLDLSESAVLSGGGYGSQNGAGGGGGG
RIHFHWSDIPTGDVYQPIASVKGSILFGGGTGRDEGCAGENGTVTGKACPKGLFGVFCEECPAGTFKNV
TGSERSLCHPCPANELPHRAVYVAVRGGIAETPCPYKCI SDRFHMPHCYTALEELIYTFGGPWLFCLLL
VALLILLALVLSVARMKFVGVDELPGPAPTQHGSQIDHSFPFLESLENEVLETNRAEESQNHVHRMYFMG
PNTFSEPWHLPHTPPEQIKEIVYESAYN**SFVDE**INAITAYQWWEAMYSILSALLYPLAWSWQQWRRRI
KLQKLREFV**SEYDHA**CLRSR**ALYEGLK**VAAATPDLMLAYLDFFLGDEKRTDLPPRLHQRFMSII
FGGDGSYMAPFSIQSDNILTSLMSQTVPPPTTWYRMVAGLNAQLRLVRRGRRLRVTFRSVIKWLETHANPA
LRIHGIRVDLAWFQATACGYCQYGLLVYAI EEEETGE**SIDGK**QTLQESRENYTRRKS YWGSIDTNNLQ
MLEEKRDIFCLLSFI IHNTKPVGHQDLVGLVISMLLLGDFSLVLLTLLQLYSISLVDVLLVLLI LPLGI
LLPFPAGINALFSHGPRRSAGLARIYALWNVMSLINVVVAFVCGYVHYHSQSSSSKKFPFQPWNISMDE
SEWIFPAGLVLCILQSQLVNVHVNLEIQDRSLYSSDFELFWQS

Protein No.: I-281

Protein name and Species:

Glutamate decarboxylase, putative OS=Ricinus communis

GN=RCOM_0112580 PE=3 SV=1

Accession: [tr|B9SR96|B9SR96_RICCO](#)

Unused ProtScore: 7.7

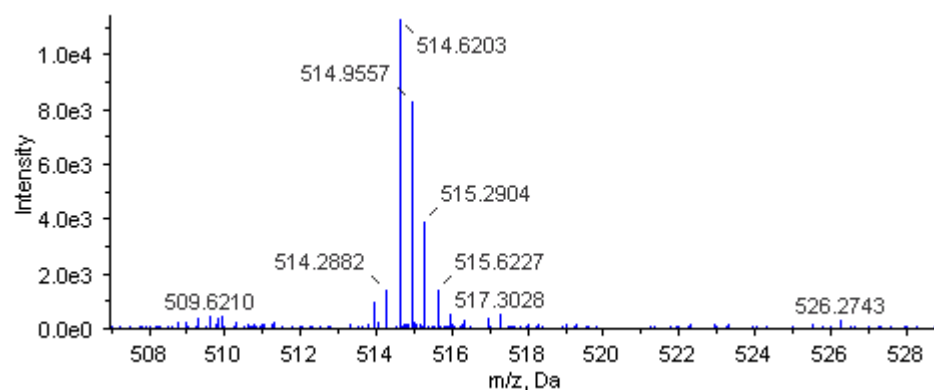
Seq Cov %: 12.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 3.25

116: 114=E5TL: D5TL= 0.90

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVLSKTASESDVSVHSTFASRYVRASLPRFKMPESSIPK**EAAAYQIINDELMLDGNPR**LNLASFVTTWME
PECDKLIMASINK**NYVDMDEYPVTTELQNR**CVNMI AHLFNAPLGDSETAVGVGTVGSSEAIMLAGLAFK
RKWQNKRKAEGK**PYDK**PNIVTGANVQVCWEKFARYFEVELKEVKLRDGYVMDPVKAVEMVDENTICVA
AILGSTLNGEFEDVKLLNDLLTEKNKQTGWDTPIHVDAASGGFIAPFLYPELEWDFRLPLVKSINVS GH
KYGLVYAGIGWVIWRNKDDL PDELIFHINYLGADQPTFTLNFSK**GSSQVIAQYYQLIRLGYEGYR**NIME
NCRDNMLVLKDGLEKTGRFT**IVSKDNGVPLVAFSLK**DNSSHNEFEISELLRRFGWIVPAYTMPDPAQHV
TVLRVVIREDFSRFTAER**LVLDI EK**VLHELDTLPSRLREKIAIVEEKEKNGTKAAKKS VIETQREITTI
WKKFVLEKKKMNGVC

Protein No.: I-284

Protein name and Species:

hydroxycinnamoyltransferase ; Quinate

O-hydroxycinnamoyltransferase/shikimate

O-hydroxycinnamoyltransferase OS=Populus trichocarpa PE=2

SV=1

Accession: tr|B2Z6Q5|B2Z6Q5_POPTR

Unused ProtScore: 7.66

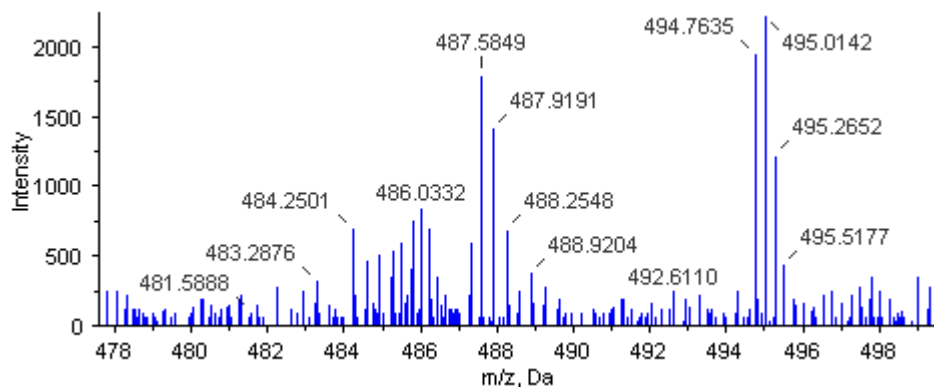
Seq Cov %: 15

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.38

116: 114=E5TL: D5TL= 1.00

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MI **INVK**ESTMVQPAEETPRRGLWNSNVDLVVPR**FHTPSVYFYR**PTGASNF**FDAK**VLKEALSK**ALVPFY**
MAGRLRRDDDGRIEIDCNAEGVLFVEAGTASVVADFGDFAPTLELKQLIPTVDYSGGISTYPLLVLQVT
YFKCGVSLGVGMQHHAADGFSGLHFVNTWSDMAR**GLDLTIPPFIDR**TLLRAR**DPPQAFHHVEYQPP**
AMKTVLETSKPESTAVSIFKLTRDQLNLTAKAKAKEGGNNIGYSSYEMLAGHVWR**SACK**ARGLPDDQETK
LYIATDGRSRLRPTLPPGYFGNVIFTATPIAVAGEIQSKPTW**YAAGK**IHDSLVR**MDNDYLR**SALDFLEL
QPDLSALVRGAHTFR**CPNLGITSWVR**LPIHDADFGWGRPIFMGPGGIAYEGLSFIIPSSSTNDGSLVAI
SLQ**AEHMK**LFEKFIYDIKE

Protein No.: I-289

Protein name and Species:

**Eukaryotic translation initiation factor 2c, putative OS=Ricinus
communis GN=RCOM_0476750 PE=4 SV=1**

Accession: tr|B9SCN8|B9SCN8_RICCO

Unused ProtScore: 7.53

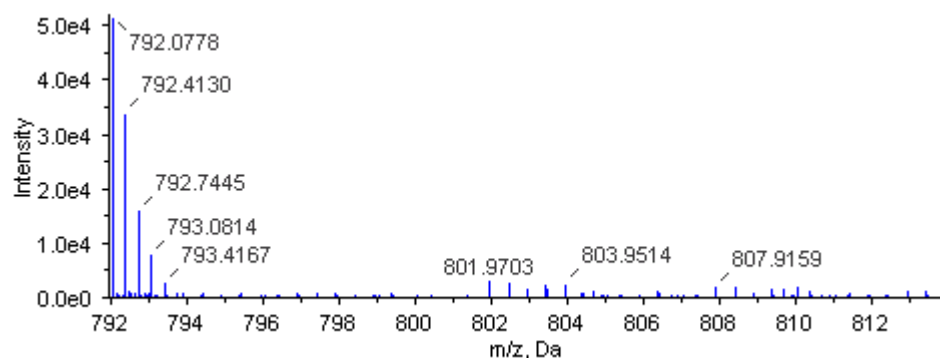
Seq Cov %: 7.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.50

116: 114=E5TL: D5TL= 1.39

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

M**SHRGGGRRQESQRDR**QSSATSPSFN**RGGGGGRGGRGR**GGAGSFYAQPAPPPAGSDFPSSLRPPPTSSR
AAAAPQAAPPSSSSRAPPAPAPAPAPPPAAAASTSTQIEKLTHGVEQLTTTAGAPTPSSSKEIRFPNRP
GYGSIGMKCVVKANHFVLDVADRDLRQYDVSITPELTSKKINRDVISQLIRMFRQSHLGNRRAAYDGRK
SLYTAGPLPFESKEFVVKLVESNKNAGSSVSSKKEREFKVAIKFASKPDIHHLKQFLIGRQMDCPQETI
QVLDIVLRETPSEKYTPVGRSFFSPDLGQK**GELGDGIEYWR**GYYSLSRPTQMGLSLNIDVSARSFYEPI
IVTD**FVSK**YLKLRDMSRPLSDQDRIKVKKALKSVKVQILHREYAKSYKVTGISNKPLNQ**IFFK**LDDKST
DISVVQYFREKYN**IGLK**YTSLPALQAGSDAKPIYLPMEELCKIVDG**QRYSK**KLNERQVTALLRATCQRPH
EREESIKQMVKRNSYNQDVLVRDEFGIQVK**EELTFVDAR**VLPAPMLNYHETGRESRVDPRCGQWNMINK
KMVNGGSVNFWTCVNFSL**LNINR**DLPAEFRC**QLIQMCVSK**GMAFNPNPIIPISSA**HPGQIGKTLNDIKRQ**
CEAKLVKQLQLLIIILPDISGSYGIKRV**CETELGIVSQCCQPR**QAAKLSK**QYFENVALKINVK**VGGRN
TVLNDAVQRRIPLVTDCTIIFGADVTHPPPGEDESSPSIAAVVASMDW**PEVTK**YRGIVSAQAHR**EETIQ**
DLYKSFQDPQGILKHSGMIRELFVAFRRETGMKPKR**IIFYR**DGVSEGGQFSQVLLYEMDAIRKACASLEE
GYLPPVTFVVVQKRHHTR**LFPVDR**GQTDR**SGNILPGTVIDTK**ICHQREFDFYLNHAGIQGTSRPTHYH
VLYDENHFTADNLQVLTNNLCYTFARCTR**SVSIVPPAYYAH****LAAFR**ARYYIEGEMSDGG**STSGK**STTGR
SKEVQPL**PVIK**DNVKDVMFYC

Protein No.: I-290

Protein name and Species:

Fructose-bisphosphate aldolase OS=Mesembryanthemum
crystallinum PE=2 SV=1

Accession: [tr|O04975|O04975_MESCR](#)

Unused ProtScore: 7.51

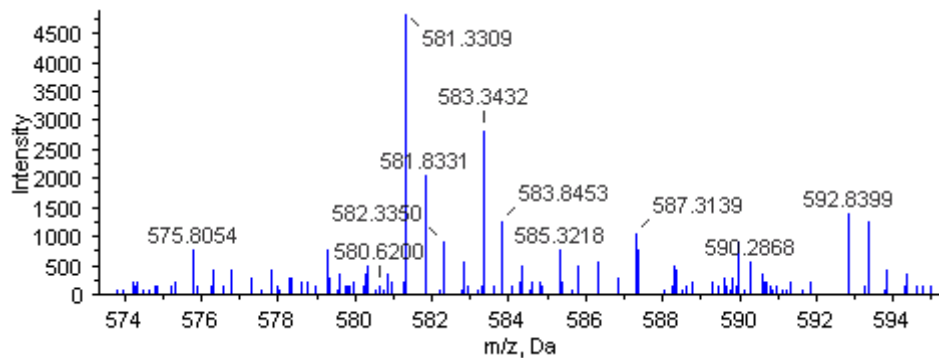
Seq Cov %: 21.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.66

116: 114=E5TL: D5TL= 1.37

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTAYRGGK**YADELIANAAYIGTPGK**GILAADE**STGTIGKR**FAGINVENVESNRRALRELLFTTPGAVQYL
SGVILFEETLYQKTAAGKPFVEVLK**EGNVLP**GIKVDKGVVELAGTNGETTTQGLDGLGARCAQYYAAGA
RFAKWRAVL**KIGP**TEPSPLAILLENANGLARYAII**CQ**ENGLVPIVEPEILVDGPHDIDRCAEVTER**VLAA**
CYKALNDHHVLLEGTLLKPNM**VTPGSESKKVAPEVIAEYTVR**ALQRTVPPAVPAVMF**LSGGQSEEEATV**
NLNAMNKLQGKKPWTL**SFSYGRALQSSTLK**AWSGKEENVEKAQAVFL**ARAK**GNSEATLGKYQGGAGGAD
ASESLHVKDYKY

Protein No.: I-293

Protein name and Species:

Nuclear protein localization, putative OS=Ricinus communis

GN=RCOM_0557110 PE=4 SV=1

Accession: tr|B9S3Y6|B9S3Y6_RICCO

Unused ProtScore: 7.44

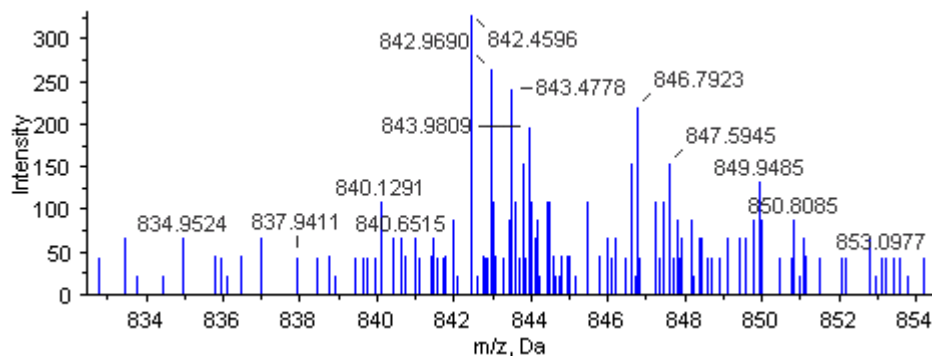
Seq Cov %: 18.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.11

116: 114=E5TL: D5TL= 0.68

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MMIRIRSRDGLERVSVENPNITVSQKTLIQNQLNIPIQNQTLSTNQNL~~LLAK~~SPSDVLKFTDMSNPNT
PLSSLNITHGSILFLTYDGER~~TIAGPAVNPAGSFGRKMTMDDLIAKQMRITRQENPHCESVSFDR~~DCAN
AFQHIPMMVKLRFIIIIYEPQOGTEENMLLRDPEEEKLVDAIAVGLGMRRVGFIFTQITQDKKDYTL
SNR~~EVLQAAELHAESLK~~EWVTAIVKLEVNEDGGADVHFEAFQMSDMCIRLFKEDWFEKEIAEDSDPKL
SKMKK~~DVVVGK~~DVR~~EVDNDFFLVVVKILDHLGPLSSSFPIENR~~INQVTKRALKSHLDRLKNLSFVKRI
SDFHLLLFLGRFLDVSDVPALAEVLTQTAVPEGYQLIIESVANS

Protein No.: I-297

Protein name and Species: Nucleic acid binding protein, putative

OS=Ricinus communis GN=RCOM_1326600 PE=4 SV=1

Accession: [tr|B9S228|B9S228_RICCO](#)

Unused ProtScore: 7.32

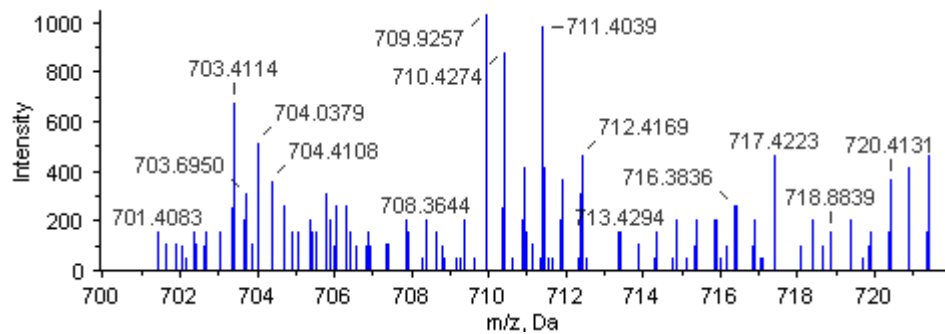
Seq Cov %: 21.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.50

116: 114=E5TL: D5TL= 0.64

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAITTVK**VSNVSLGATEQDIK**EFFFSFSGDIDYVELLGDNER**SQIAYVTFK**DQQGAETA VLLSGATIVDQ

SVTIELAPDYKLPAAASVPTTATESSTASGAESAFQ**KAEDIVSSMLAKGFILGK**DAVNKAKAFDEKHQF

TSTATSKVASLDEKIGLTEK**ISAGTTLVNDK**VREVDEKFRVSETTK**SAFAAAEQTVSNAGSAIMK**NR**YV**

LTGASWVTGAFNRVAKAAGEVVGQKTKEKVLAEQEQNQAEGYTQIHGTDSPNMSEQMSKSSH

Protein No.: I-299

Protein name and Species:

Proteasome subunit beta type OS=Populus trichocarpa

GN=POPTRDRAFT_814139 PE=3 SV=1

Accession: tr|B9HUT6|B9HUT6_POPTR

Unused ProtScore: 7.28

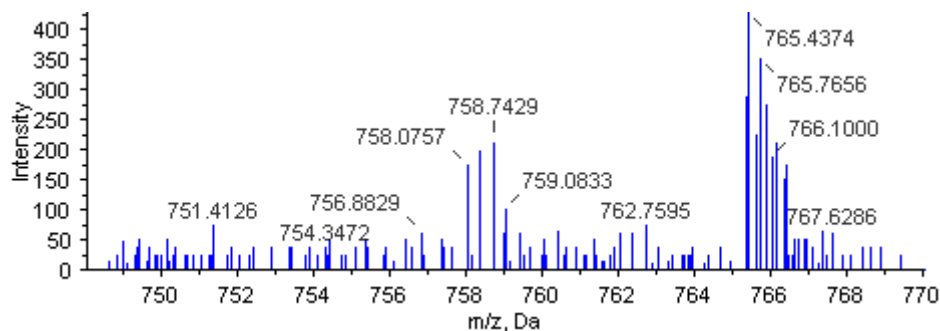
Seq Cov %: 28.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.57

116: 114=E5TL: D5TL= 0.84

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MECVFGLVGDGFVIVASDTSAVNSILVHKTNEDK**IMKLD**SHK**LVAASGESGDRVQFTEYIQKNVALYQF**

RNGIPLTTAAANFTRGELATALRKNPYMVNILLAGYDK**ETGPSLYYIDYIATLHK**VDRGAFGYGSYFC

LSMMDRHYHSGMSVEEAVELVDKCITEIQSR**LVVAPPNFVIK**IVDR**DGAREYAWRESVK**DTPTAQPEAL

GV

Protein No.: I-306

Protein name and Species:

Ganglioside induced differentiation associated protein, putative

OS=Populus trichocarpa GN=POPTRDRAFT_765804 PE=4

SV=1

Accession: tr|B9HIC5|B9HIC5_POPTR

Unused ProtScore: 7.1

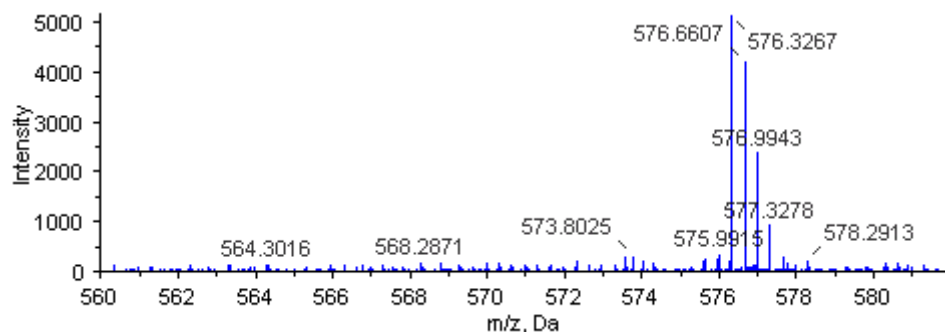
Seq Cov %: 12.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 2.78

116: 114=E5TL: D5TL= 1.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MYQRVPAAVTTR**GGSP****TDNGDSVV****TLDQVPR**WSDAESRSSFGYDNEDPSFTNPFFPDPLTSPSEGESS
CGMVSR**FPVDHEINSK**IYLWRGNPWNLEVDVAVNSTNELLDEAHSSPGLHAAAGPGLAEECTTLGGCRT
GMAKVTNAYDLPARR**VIHTVGP**KYAMKYHTAAENALSHCYRSCELELLIENGLQSIAMGCIYTESKNYPR
EPAAHVAIRTVRRFLEKQKNKITAVVFCTTTSTDTEIYKRLPLLYFPREKHEEE**VAIAKLPADVGDENG**
ETIIDERKIRIKPLPKKNIPRPSQPLADLPVIDVGLVRRNSSLDSYLDPAFMSVIKDPDQRRKEQWEK
TAQAQSGWNCAKIFGFGDLGGPTLSAAEEYSLHSRYLAK**ANSLNLS**EIAEMKIVYRGGVDSEGRPVMV
VGAHFLRLCLDLERFVLHVVKEFEPLIQKPYTIVYFHSAASLQVQPDLGWIRRLQQLTRKHQRNLHAI
YVLHPNFHLKATIFALQV**FVDK**VTWKKVVYVDRLVQLFRYVPREQLTIPDFVFQHDLEVNGGGLIVDP
RTKYVYHRP

Protein No.: I-310

Protein name and Species:

40S ribosomal protein S2, putative OS=Ricinus communis

GN=RCOM_1577790 PE=3 SV=1

Accession: tr|B9RIC4|B9RIC4_RICCO

Unused ProtScore: 7.05

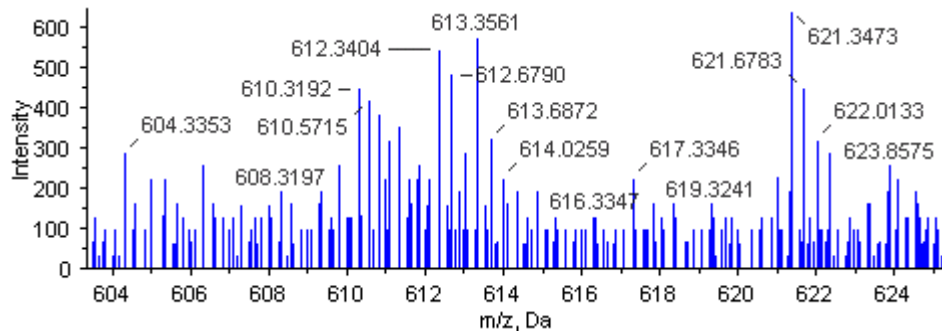
Seq Cov %: 18.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.51

116: 114=E5TL: D5TL= 1.12

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSERPGGGERGAFRR**G**FGG**A**GRGDRGGRGRRRPRREEEKWPVTKLGRLVKEGKIR**SLEQIYLHSLPI**
KEHQIIDTLVGPSLKDEVMKITPVQKQTRAGQRTRFKAFVVVGDGNHGVGLGVKCSKEVATAIRGAI**IL**
AKLSVIPVRRGYWGNKIGKPHTVPCKVTGKCGSVTVRMVPAPR**GAGIVAAR**VPKK**VLQFAGIEDVFTSS**
RGSTKTLGNFVKATFDCLLKTYGFLTPDFWRETHFTKSPFQYTDLLGKPTKVLIEDVERVDA

Protein No.: I-314

Protein name and Species:

DNA damage-inducible protein OS=Populus trichocarpa

GN=POPTRDRAFT_744891 PE=2 SV=1

Accession: tr|A9PEP6|A9PEP6_POPTR

Unused ProtScore: 6.98

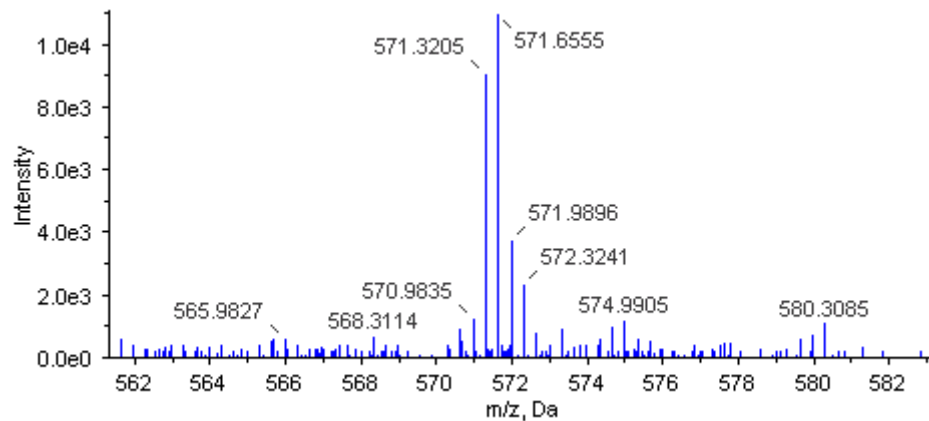
Seq Cov %: 13.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.47

116: 114=E5TL: D5TL= 0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRITVMTADEQIIISLEVDPHESVENVK**ALLEVETQVPLQQQQLLYNGR**EMRNNEK**LSALGVK**DEDLVMM
VSNAALSA^SPNLGLNPDGSAMNPGAFQQQLRND^SNTMAQLFQADPELAQVILGNDLNK**LQDLLR**QRH
RQRSELHR**QQEEEFALLEADPF**DVEAQK**IEAAIR**QK**GIDENWAAALEYNPEAFAR**VIMLYVDMEVNGV
PLK**AFVDSGAQSTIISK**SCAERCGLLRLLDQRYKGI**AHGVGQSEILGR**I**HVAPIK**IGNIFYPCSFMVLD
SPNMEFLFGLDMLRKHQCIIDLKENVLR**VGGGEVSV**PFLQEKDIPPRFLDEERY**SKEASS**GNPVTSGK
AEKKNPAMGQSSGVARSSVTQGPDFEAK**VAKLVELGFGR**EAVIQALKLFDGNEEQAAGFLFGG

Protein No.: I-315

Protein name and Species:

Putative uncharacterized protein OS=Vitis vinifera

GN=VIT_18s0001g08370 PE=3 SV=1

Accession: [tr|F6H158|F6H158_VITVI](#)

Unused ProtScore: 6.98

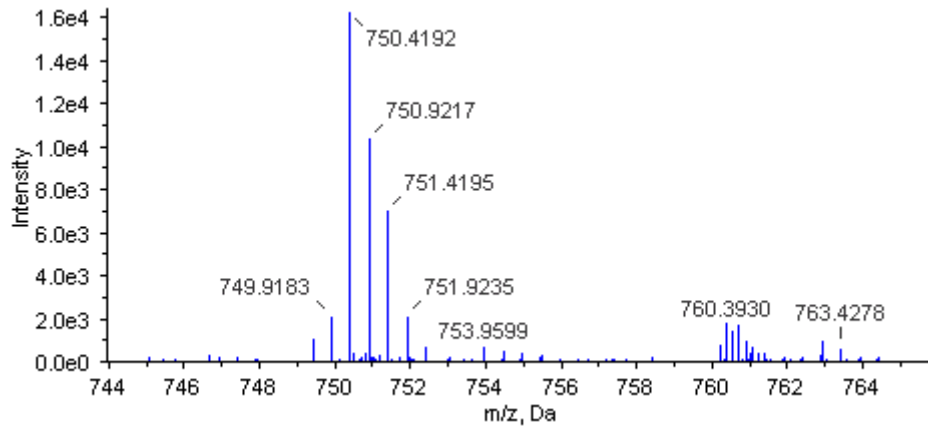
Seq Cov %: 5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.44

116: 114=E5TL: D5TL= 0.60

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRRIWPC**CFTR**RVSNTHQKAEDIQR**SIGTMENPK**EGNADHGVSEKQNESTIKSRDSLSSNIILNHDFSR
GLHSWNLNCCNGSVVSAESGFLEGISVKSGGNYAVITNRKECWQGLEQDITSRVSLGSTYSVSACVGV
GSLQGSAAVQATLKLEYQGSATSYLFIGRTSVSREQWKK**LEGTFSLS**TMPDRVVFYLEGPPGL**DLLIE**
SVVIFCSPTEEESSSTRCAAAGDENIILNPIFEDGVNWSGRGCKILLHDSMGGGKIVPQSGKFFASA
TERTQSWNGIQQEITGRVQR**KLAYEVA**AVRIFGNNVTSADVRLWVQTPNLREQYIGVANSQATDKD
WIQLQGKFLNAPSRRVVIYLEGPPPSTDILVNSLVVKAEEKIPPSPPPVEDPAFGINTIQNSNLNDG
SNGWFPLGSCTLSVATGSPRILPPMARDSLGAHNPLSGHYILVTNRTQTWMGPAQMITDRVKLYLTYQV
SAWVRIGPGATAPQNVNVALGVDSQWVNGGQANVSDDRWEIGGSFRIEKQPLKVMVYVQGPASGVDLM
VAGLQIFPVDRHARFRHLKKETDKIRKRDVILNFSGSGTGT**SIGTFVK**VRQTQNSFGFGSCVSRNIDN
EDFVD**FFVK****NFNWAVFGNELK**WYWTESQQGNFNRYRDADELDDLCKSHNMETRGHCIFWEVEGTVQPWVK
SLNKNDLMTAVQNRLTGLLTRYKGGFRHYDVNNEMLHGSFYQDRLGKDIRANMFKTANQLDSSAALFVN
DYHVEDGCDTRSSPEKYIEQVIDLQKQGAPVGGIGIQGHIDSPVGPVCSALDKLGLVGLPIWFTELD
SSINECIRADDLEVMLREAFAPAVDGIWGFWELFMSRNNALVNAEGEINETGWRYLALRKEWLSH
AHGHIDEQGEFMFRGFHGSYVVEIGTGSKKISKTFVVDNNGESPLVVSIGL

Protein No.: I-321

Protein name and Species:

Ubiquitin-protein ligase, putative OS=Ricinus communis

GN=RCOM_1154930 PE=4 SV=1

Accession: tr|B9SG36|B9SG36_RICCO

Unused ProtScore: 6.86

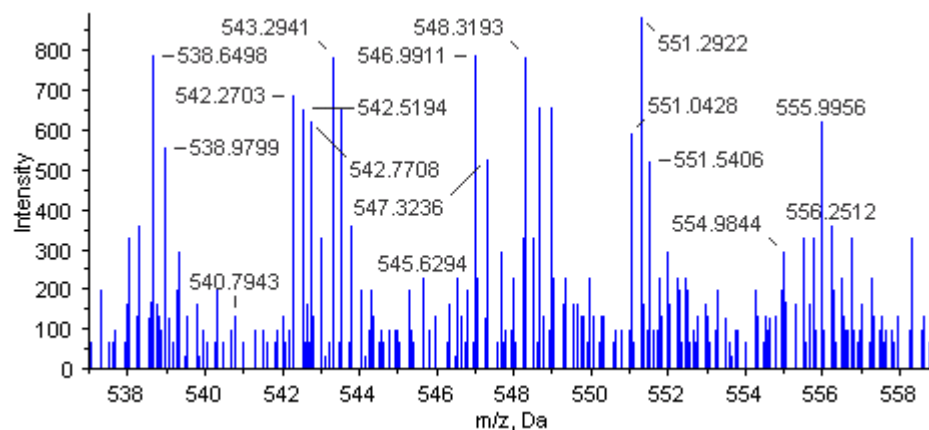
Seq Cov %: 6.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 1.80

116: 114=E5TL: D5TL= 1.08

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSVMGYNLAGDVTSANLFHK**ESSVMEISLLK**ALLSNISSFLHLSSIDNICSDLVQKCYQK**AEETL**LLK
PILDAIVDSEIASDEVLT**AFDELGQSVDEL**RELFFENWQPLSSKVVFFVLQIESLISKIRTLGLD**IFQLL**
KSSHEHLPDELSTSSLEEILIEAVALEKLEKNAEQAEKPREAELFDQMISLSQTCSHVPIPADFCCPLS
LELMTDPVIVGSGQTYER**AFIK**NWIELGLTVCPKTRQTLAHTNLIIPNYTVK**ALIANWCE**SNNV**KLPDPV**
KSVSFNQPSALLIHAESGTPRGSHGFYSRGNQPMSPSTRSTDSFDRNWISSVHRESTSPCHPRSTSD
SSLSGIVGNEQGLDMARISLASSEERSVNLEGRNRDSGV**RHSVS**PSRNEVSNVAVRVGEP**IAQSHSRNAS**
ASSINASFSGAQVDTNDSSEVLNHLTSYSSDNSGEVKAETQASTALNSPRPHREPEFAPRFIETR**SRS**
QTIWRRPSDRLIPRIVSSP**AIETRADLSGVETQVR**NLVEDLKSDSIDVQRAATAEL**LLAK**HNMDNRIV
IANCGAINILVNLRSADAKIQENAVTALLNLSINDNNKTAIANADAIGPLIHVLETGSPEAKENSAAT
LFSLSVIEDNKVRIGRSGAVGPLVDLLGN**GTPRGK**KDAATALFNLSIFHENKARIV**QAGAVKHLVELMD**
PAAGMVDKAVAVLANLATIPEGRTAIGQEGGIPVLVEVVELGSARGKENAAAAALLQLCTNSNRF**CNTVL**
QEGAVPPLVALSQSGTPRAKEKAQALLSFFRNQRHGNARG

Protein No.: I-322

Protein name and Species:

alanine aminotransferase OS=Populus trichocarpa

GN=POPTRDRAFT_1073568 PE=4 SV=1

Accession: tr|B9GXZ6|B9GXZ6_POPTR

Unused ProtScore: 6.86

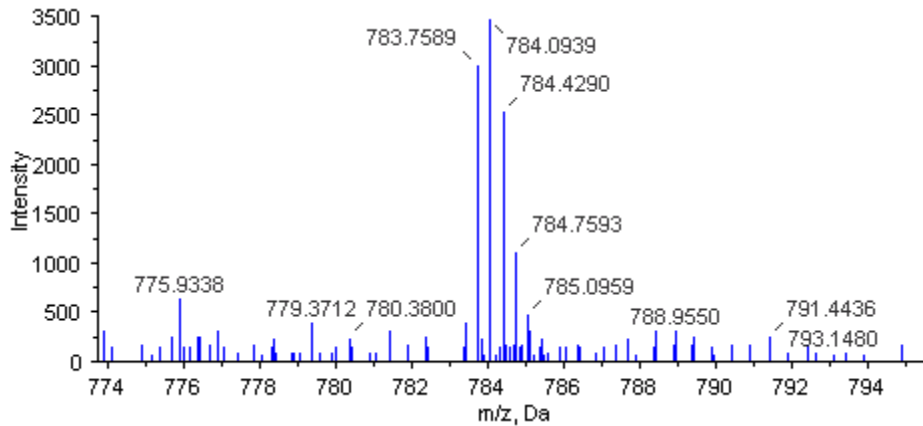
Seq Cov %: 20.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.44

116: 114=E5TL: D5TL= 2.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPPVSLDNINPKVLKCEYAVRGEIVTLAQALQEELKSKPGSHPPFDEILYCNIGNPQSLGQQPITFFREV
LALCDHPSILDR**SETQGLFSADAIER**AWQILDQIPGR**ATGAYSHSQGIK**GLRDTIAAGIEARDGFPADP
NDIFLTDGASPAVHMMQQLIRSEKDGILCPIPQYPLYSASIALHGGALVPYYLDEATGWGLEVSELKK
QLADAKSKGITPR**ALVVINPGNPTGQVLAEDNQR**GIVEFCK**QEGLVLLADEVYQENVYVPEK**KFDSFKK
VARSMGYGEKDISLVSFQSVSKGYYG**ECKRGGYMEVTGFGEIRE**EQIYKVASVNLCSNISGQILASLV
MSPPK**VGDESYESYSAEKDGI****ILSS****LAR**RAK**TLEDAFNNLEAVTCNK**AEGAMYLFPICLPEKAIAKAA**EA**
AKTAPDNFYCRLLNATGIVFVPGSGFGQLPGTWHFR**CTILPQEDKIPAVVSR****LTEFHK**SFMDEFDRD

Protein No.: I-324

Protein name and Species:

ATP-citrate synthase alpha chain OS=Vitis vinifera

GN=VITISV_017316 PE=4 SV=1

Accession: tr|A5AQP2|A5AQP2_VITVI

Unused ProtScore: 6.85

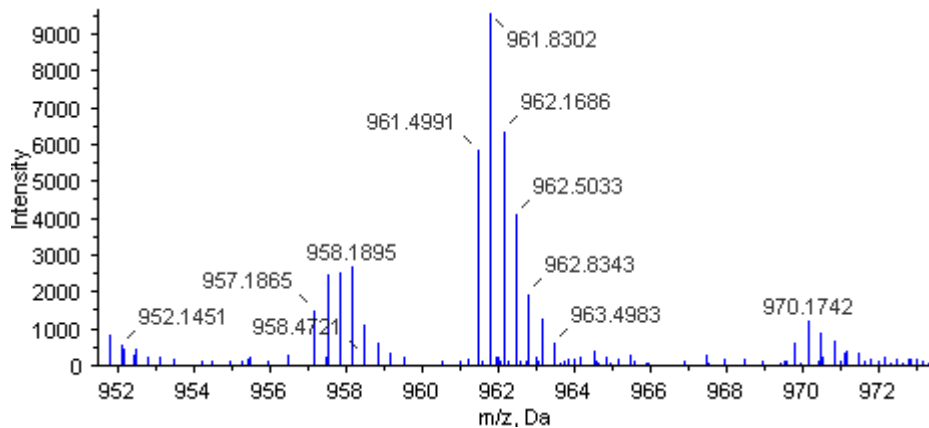
Seq Cov %: 19.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.51

116: 114=E5TL: D5TL= 0.71

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MARKKIREYDSKRLKLEHLKRLVIGIDLQICSAQVTEATDFAELTNKEPWLSS**TRLVVKPDMLFGK**RGKS
GLVALNLDLAQV**AEFVK**ARLGVVEVMGGCKAPITTFIVEPFVPHDQEYYLSIVSDRLGCTISFSECGGI
EIEENWDKVKVTINLPTEKPMTPETCAPLIATLPLEVRGKIGDFIKGVFAVFQDLDFSFLEMNPFLLVNG
EPYPLDMR**GELDDTA****AFK****N**FKT**WGNIEFPLPFGR**VLSPTEGYIHLLDEKTSASLK**FTV****LNPK**GRIWMTV
AGGGASVIYADTVGDLGY**ASELGN****YAEYS****GAPNEEEVLQYAR****VVLD****CATADPDGR**KRALLIG**GGIAN****FT**
DVAATFNGIIRALKEKESKLKASRMHIYVR**RG****GP****NYQTGL**ARMR**ALGEELGIP****LEVY****GPEATMTGICK**Q
AIDCIMSTA

Protein No.: I-327

Protein name and Species:

Heat shock protein 70 OS=Hevea brasiliensis GN=HSP70 PE=2

SV=1

Accession: tr|B2MW33|B2MW33_HEVBR

Unused ProtScore: 6.81

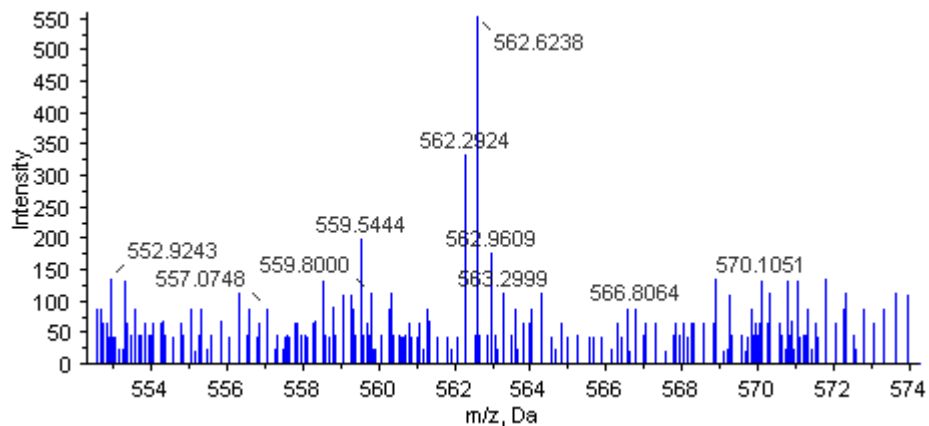
Seq Cov %: 33.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPKTEGKAIGIDLGTTYSCVGVWQNDR**VEIIANDQGNR**TTPSYVAFTDTER**LIGDAAK**NQVAMNPQNT
VFDAKRLIGRR**FSDPSVQSDMK**HWPFFK**VISGPGDKPMIVVQYK**GEEK**QFAPEEISSMVLTK**MKEIAEAY
LGQTVKNAVITVPAYFNDSQRQATK**DAGAIAGVNVMRI**INEPTAAAIAYGLD**KK**GSSTGEKNVLIIFDLG
GGTFDVSLLTIEEGIFEVK**ATAGDTHLGGEDFDNRLVNHFVAEFK**GKHKKDIST**NARALRRLRTARERA**
KRTLSSSTSQTIEIDSLYEGIDFYATITR**ARFEELNMDLFRK****CMEPVEK**CLRDSKIDK**SQVHDVVLVGG**
STRIPKVQQL**LQDIFNGK**ELCK**SINPDEAVAYGAAVQAAILSGEGDEK**VQDLLLLLDVTP**LS**GIETAGG
VMTVL**IPRNTTIP**TK**EQIFSTYSDNQPGVLIQVYEGERAR**TK**DNNLLGKFELTGIPPAPR**GVPQINVC
FDIDANGIVNVSAED**KTAGVK**NK**ITITNDKGR**L**SKEEIERMVQEA**EKYKAEDDEEVKKKVEAK**NS**LENYA
YNMRNTVKDDKFAGKLAPADKGI**EKAIDETIEWLDRNQLAEVEEFEDK****LKELEGLCNPIIAK**MYQGGAGG
GGDVPVGAEMPNSNYGKTSSGGSGAGPKIEEVD

Protein No.: I-328

Protein name and Species:

Esterase D, putative OS=Ricinus communis

GN=RCOM_0893450 PE=4 SV=1

Accession: tr|B9SCD6|B9SCD6_RICCO

Unused ProtScore: 6.77

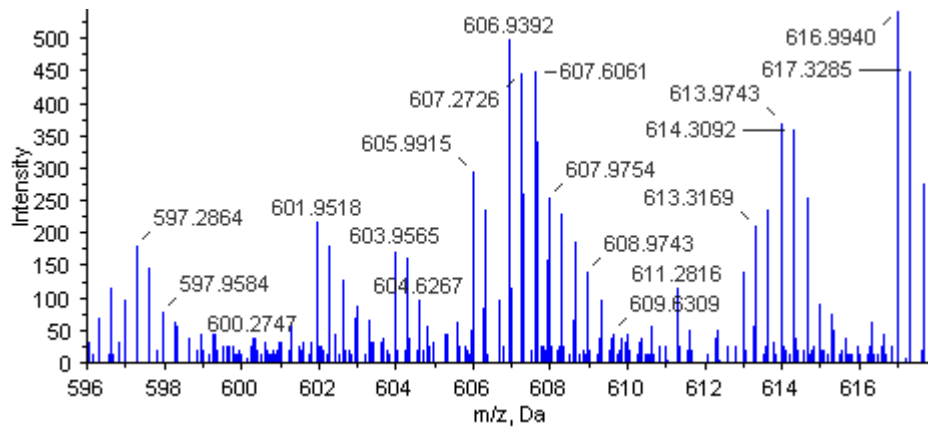
Seq Cov %: 17.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.32

116: 114=E5TL: D5TL= 2.32

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKSVAQRCL EDTIKD TDISILYFLSGLTCTDENFIIKSGAQR**AASSEGVALIAPDTS**PRGLNVEGEADS
WDFGVGAGFYLNATQEKWKNWR**MYDYVVKELPKLLSDNFPQLDTS**RASLSGHSMGGHGALTIYLKNL DK
YK**SVSAFAPISNPINCPWGQKAF**TNYLGSSKGDWEEYDATSLVSKFHDV SATILIDQGEDDKFLHDKQL
LPQK**FEEACRSANVPLLLR**MQPGYDHSYFFISTFIDDHIRHHAQALNL

Protein No.: I-329

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_647799 PE=4 SV=1

Accession: [tr|B9H2B8|B9H2B8_POPTR](#)

Unused ProtScore: 6.77

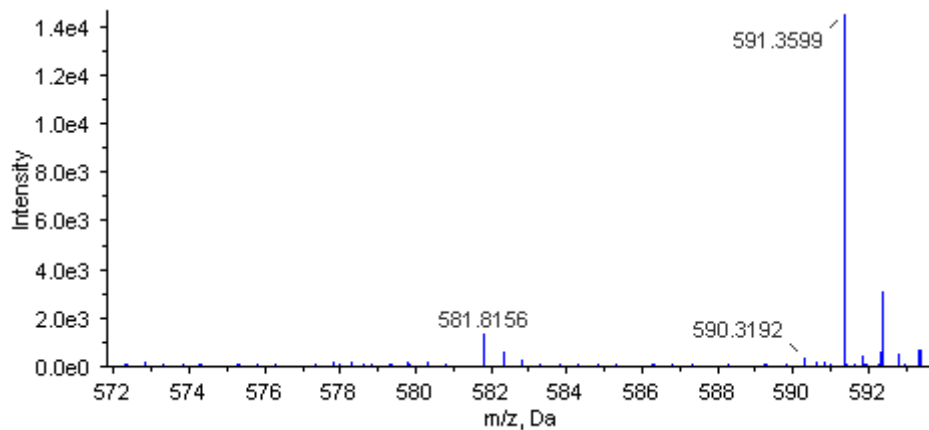
Seq Cov %: 30.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.23

116: 114=E5TL: D5TL= 0.75

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTSQHIATHREKAEIHTGESLCKQKSLELLEEIH**LPMGLLPLDDIVEVGYNR**TTGFVWLKQKKRKDHRF
LKIGRQVSYDT**EVTAFVENR**RMRLTGVKTKELLFWVVISDIYVDEK**DLEKITFGNPTGISRTFPVSAF**
ELEEEKK

Protein No.: I-335

Protein name and Species:

L-asparaginase, putative OS=Ricinus communis

GN=RCOM_1467530 PE=4 SV=1

Accession: [tr|B9RLJ0|B9RLJ0_RICCO](#)

Unused ProtScore: 6.7

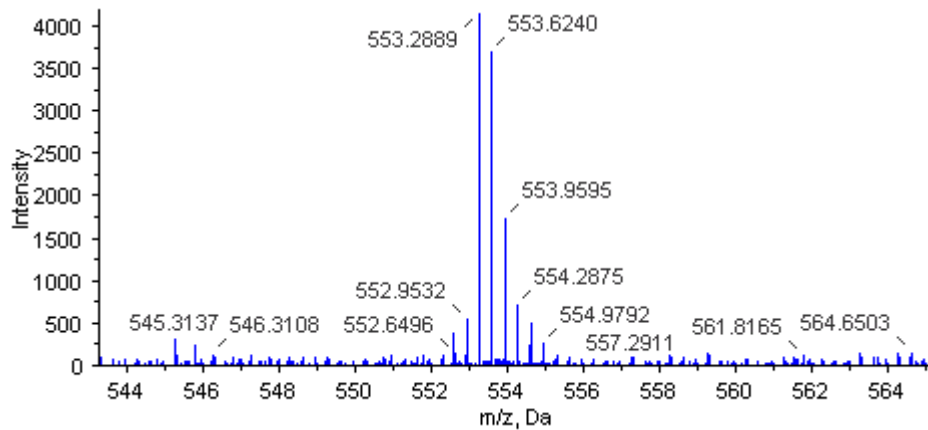
Seq Cov %: 24.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.37

116: 114=E5TL: D5TL= 0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGWAIALHGGAGDIPLNLPPEPRLPREAALRHCLIEIGVAALQAQK**HPLDVVELVVRELENHPNFNAGKG**
SVLTTEGTVEMEACIMDGKTKKCGAVSGLTTVVNAISLARLVMEKTPHIYLAFDG**AEAFAREQGVETVD**
SSQFVTPENVERLKQAKEANRV**QIDYTQPIQK**NEETQNPADGDSQIG**TVGCVAVDTNGNLSATSTGG**
LVNKMVGRIGDTPIIIGAGTYANNLCAVSATGKGEF**IIRGT**VARDVAALMEYKGLSLMEAAAAYVVEQCVP
RATVGLVAVSATGEVTMPFNNTTGMFRACATEDGYSEIAIWPPVQD

Protein No.: I-338

Protein name and Species:

Chorismate synthase OS=Populus trichocarpa GN=CS1 PE=3

SV=1

Accession: tr|B9HLM0|B9HLM0_POPTR

Unused ProtScore: 6.66

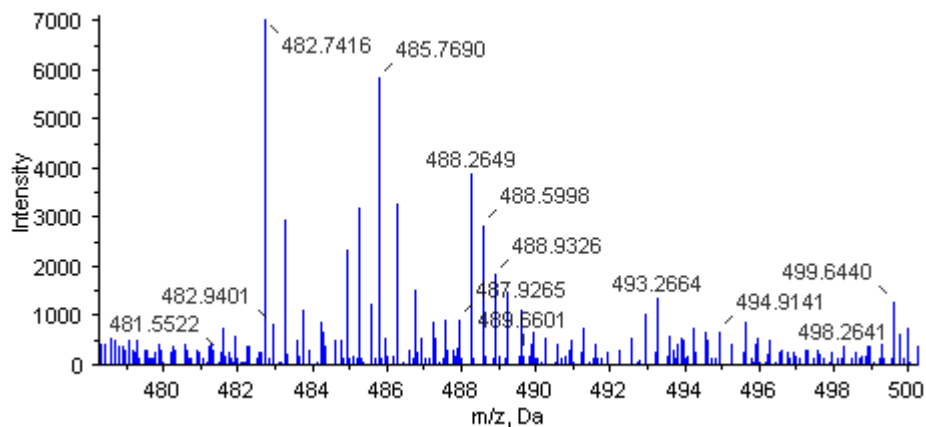
Seq Cov %: 12.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.61

116: 114=E5TL: D5TL= 1.26

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASSTLTSKSFLDSSRIDTASLSSAHLRKLKSFSSVQISSRSRLPKKLQINAAGSTFGNNFR**VTTFGESH**
GGGVGCIIDGCPPRIPLSESDMQFDLDRRRPGQSRITTPRKETDTCKISSGVSEGQTTGTPIHVFPNT
DQRGFDYNEM**SVAYR**PSHADATYDMKYGVRSVQGGGRSSARETIGRV**AAGAVAK**KILK**LYAGTEILAYV**
SQVHKVVLPEGVVNHDSLSDQIESNIVRCPDPE**YAEKMIAAIDAVR**VK**GDSVGGVVT****CIVR**NAPRGLG
SP**VFDKLEAELAK**AAMSLPATKGFEEFGSGFSGTFLSGSEHNDEFYTDEHGRIRTRTNRSGGIQGGISNG
EIIINLR**IAFKPTSTIGR**KQHTVTRDKKEIELIARGR**HDP****CVVPR**AVPMVEAMVALVLMQQLMAQFSQSY
LFPINPDLQEPLTMPRLEAANASV

Protein No.: I-343

Protein name and Species:

40S ribosomal protein S11, putative OS=Ricinus communis

GN=RCOM_0658740 PE=3 SV=1

Accession: tr|B9SKG4|B9SKG4_RICCO

Unused ProtScore: 6.6

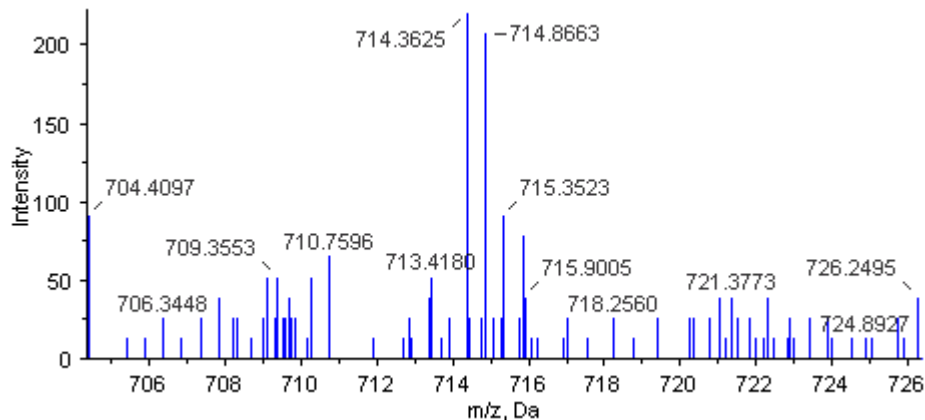
Seq Cov %: 17.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 2.09

116: 114=E5TL: D5TL= 0.82

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEQTEKAFLKQPKVFLSSKKTGKGRPGKGGNRFWKSIGLGFKTPREAIEGTYIDKKPCPFTGTVSIRG
RILAGTCHSAKMNRRTIIVRRNYLHFIKKYQRYEKRHSNIPAHISPCFRVKEGDHVIIGQCRPLSKTIVRF
NVLKVIPAGSSGGAKKAFTAM

Protein No.: I-345

Protein name and Species:

JHL07K02.17 protein OS=Jatropha curcas GN=JHL07K02.17

PE=4 SV=1

Accession: tr|E6NU17|E6NU17_9ROSI

Unused ProtScore: 6.54

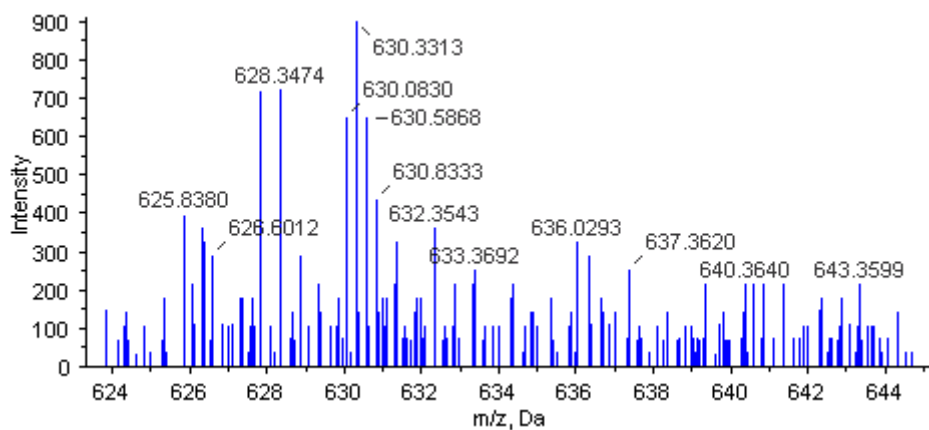
Seq Cov %: 6.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.33

116: 114=E5TL: D5TL= 1.27

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGNCCSDEAGGRAAVGGTGTASAGHTTTANDAIDYYLKSFRGMFFQIELSFSATNLRDRDVLKSDP
MVVVYTKGRDEPPTTEVFRTEVVLNSLNPTWITKYSITFQFEVVQTLQFHVYDVDVDTQFHNVDVKMLKLDE
QQFLGEASCVLSEIVTRPNRTLTLDLVHKDSTISSQPRCGQLVVHAEECISSKTTTQMTLRCSBLEHKD
LFSRINPFLVISKTVESGMPPIPVCKTEVLKNDHSPVWKPVFLNIQQVGSKDSPLVIECYNFNSSGKHDL
IGEVKSLADLEKLCSTGAGQNLFLQTAVGHDHSAKLSQLFVDNFSESIQYTFLDYLGKGCENFMVA
IDFTASNGNPRLLPDSLHYIDPSGRPNAYQQAILEVGEVLQFYDSDKRFPWGFARPIDGPVSHCFNLS
GSTNHCEVEGIQGITSYTSALFNVSLAGPTLFGPVISNAAHIAQSIANGGKKYFVLLIITDGVVTDL
QETKDAIVKASDLPLSILIVGVGGADFKEMEILDADKGERLESSTGRVASRDIQVQVFPFRSIQSQQISV
VQALLAELPTQFLTYMRSRNIQPNI

Protein No.: I-348

Protein name and Species:

Hydrolase, hydrolyzing O-glycosyl compounds, putative
OS=Ricinus communis GN=RCOM_0750500 PE=4 SV=1

Accession: tr|B9SUE9|B9SUE9_RICCO

Unused ProtScore: 6.52

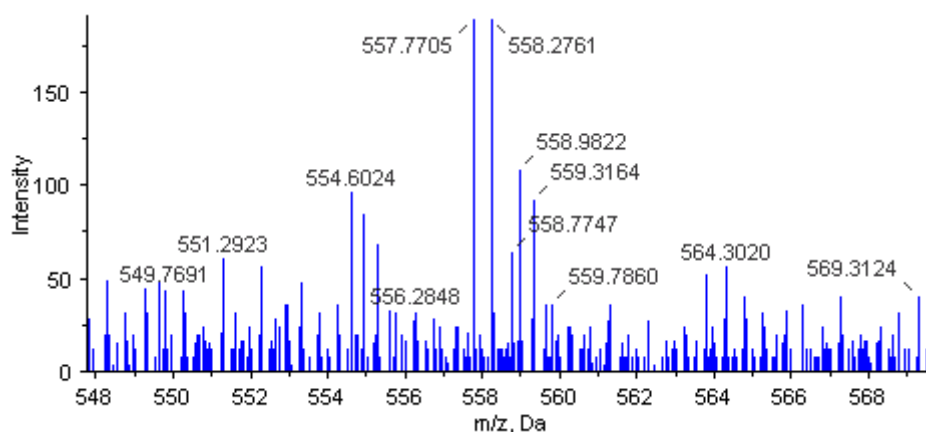
Seq Cov %: 7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 31.33

116: 114=E5TL: D5TL= 2.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MT**VTPNISINDGNLVVHGK**TILTRVPDNIIVLTPGSGVGLLAGAFIGASAADSKSLHVFPVGVLEGLRFM
CCFRFKLWWMQTQRMGTGCGK**DIPLETQFMLVESK**DGGEGVDQDDAQTIYTVFLPLLEGQFRAVLQNEKS
EMEICLESQDGTAVETNQGHYLVYMHAGTNPFEVINQAVKAVEKHMQTFLHREKKKVTISFFFFYIKNFY
HKHCEAESASISSFVLLVLCSCPLFLTGLAGLK**HVVEDAK**KHHNVKYVYAWHALAGYGGVGPAAAGME
HYDTALAYPMSSPGVKGNQPDIVMDSLSVHGLGLVHPKKVFNFYNELHAYLASCIDGVK**VDVQNIET**
LGAGHGGRVSLTR**SYHQALEASIR**NFPDNGCIACMCHNTDGLYSAKQTAVVR**ASDDFYPR**DPASHTIH
ISSVVYNSLFLGFEFMQPDWDMFHSLSLHPAADYHGAARAIGGCPYVSDKPGNHNFELLKK**LVLPDGSVLR**
AQLPGRPTRDCLFADPARDGTSLKLVWNMNKCTGVVGVFNCQGAGWCKIEKKTR**IHDASPGTLTASVRA**
SDVDCIAQVANADWNGETVVYAHRSADVIRLPKGASLPVTLKVLEYELFHFPCPIKEIISNISFAPIGLL
DMFNSSGAVDQVEIRTASDGKPELFDGEVSSSELTTSLSENRSPTATIEMRRPLKCLVGGAE'ETDFNYDSD
SGLLTLTLPVPEEDMYRWPVEIHV

Protein No.: I-349

Protein name and Species:

60S ribosomal protein L12, putative OS=Ricinus communis

GN=RCOM_0153900 PE=3 SV=1

Accession: tr|B9SWB0|B9SWB0_RICCO

Unused ProtScore: 6.51

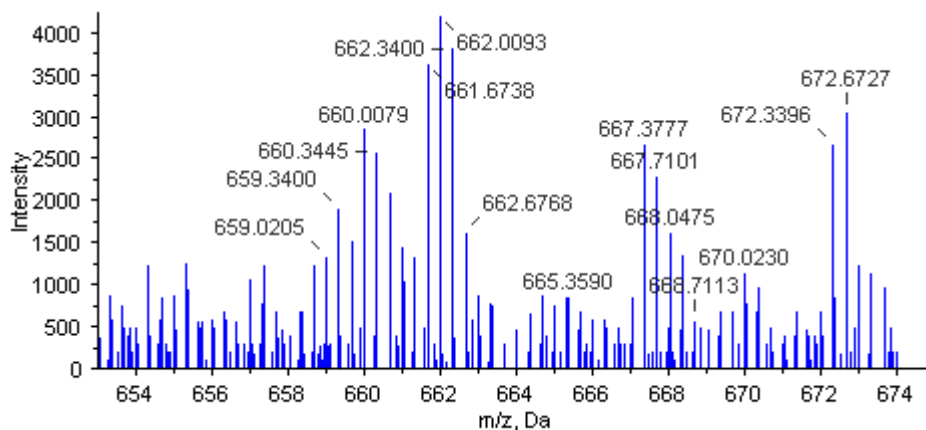
Seq Cov %: 31.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 2.42

116: 114=E5TL: D5TL= 1.28

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPPKFDPSQVVDVFVR**VTGG**EVGA**ASSLAPKIGPLGLSPK**KIGED**IAK**ETAKDWKGLRVTVKLTVQNRQ
AK**VT**VVPS**SAAALVIK**ALKEPERDRKKTKN**IKHSGN**ISLDDV**IEIAK**VMKPR.SMA**KDLSG**TV**KEILG**TCV
SVGCTVDGKDPKDLQQEITDGDVEVPLD

Protein No.: I-350

Protein name and Species:

**developmentally-regulated GTP-binding protein OS=Populus
trichocarpa GN=POPTRDRAFT_718912 PE=4 SV=1**

Accession: tr|B9HG22|B9HG22_POPTR

Unused ProtScore: 6.49

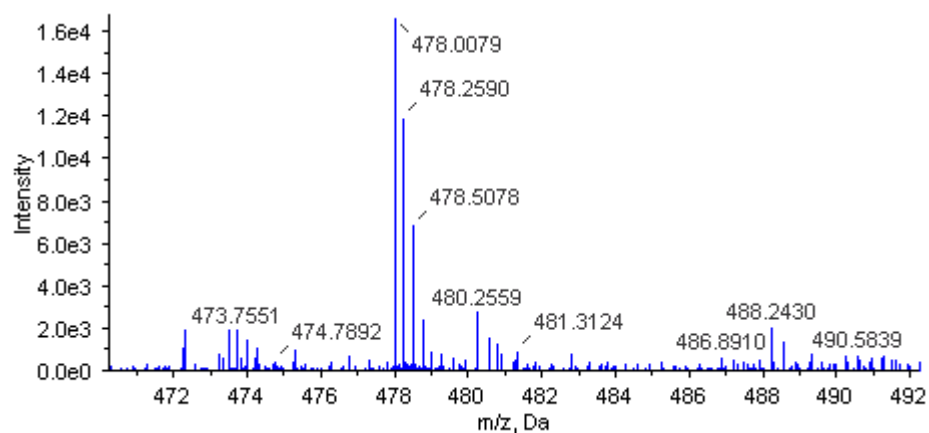
Seq Cov %: 14.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.48

116: 114=E5TL: D5TL= 0.84

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSTVMQIKIKDIEDEMARTQKNKATAHHLGLLKAKLAKLRRELLEPSAKGGGGAGQGFDVTKSGDARVGL
VGFPSVVGKSTLLNKLGTGFSEVASYEFTTLCIPGVIVYKGAKIQLLDLPGIIEGAKDGKGRGRQVIST
ARTCNCILIVLDAIKPITHKRLIEKELEEGFGIRLNKEPPNLTFRKKDKGGINFSTSTVANTHLDLDTVKA
ICSEYRMHNADITLRYDATADDLIDVIEGSR IYMPCIVVVKIDQITLLEELEILDKLPHYCPVSAHLEW
NLDGLLDKVWEYLNLTTRIYTKPKGMNPDYEDPVILSSKRTVEDFCER IHKDMLKQFKYALVWGSSAKH
KPQRVGKEHELEDEDVVQIIKKV

Protein No.: I-351

Protein name and Species:

Cis-prenyl transferase OS=Hevea brasiliensis GN=HbCPT PE=2

SV=1

Accession: [tr|A9ZN23|A9ZN23_HEVBR](#)

Unused ProtScore: 6.48

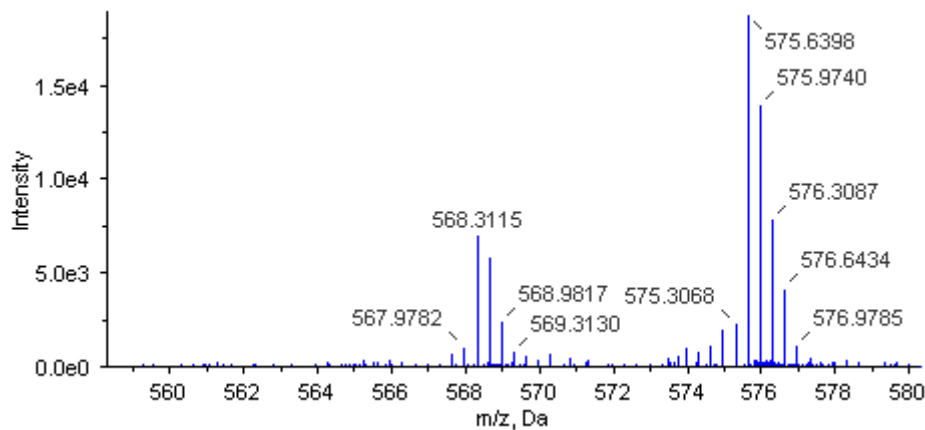
Seq Cov %: 37.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.39

116: 114=E5TL: D5TL= 0.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MELYN GERPSVFRLLGKYMRKGLYGILTQGP I PTHLAFILDGNR RFAKKHKLPEGGGHKAGFLALLNLVLT
TYCYELGVK YATIYAFSIDNFR RKPHEVQYVMDL MLEKIEGMIM EESIINAYDICVRFVGNLKL LSEPV
KTAADQSMRATANNRFRVLLI AVAYSSTDEIVH AVEESSKDKLNSNEVCNNGIEAEQEFKEANGT GNSV
IPVQKTESYSGIKLVDLEKNTYINPYPDV LIRTSGETRLSNYLLWQTTNCILYSPYALWPEIGLRHV VV
SVINFQRHYSYLEKHKEYLK

Protein No.: I-355

Protein name and Species:

40S ribosomal protein S14, putative OS=Ricinus communis

GN=RCOM_0632900 PE=3 SV=1

Accession: tr|B9S120|B9S120_RICCO

Unused ProtScore: 6.46

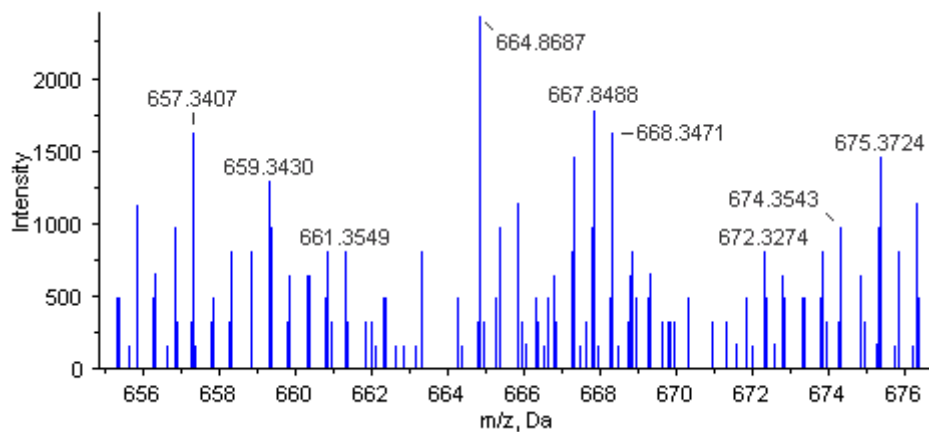
Seq Cov %: 22.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 2.27

116: 114=E5TL: D5TL= 0.86

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSKKKTR**EPK****EENVTLGPAVR**EGEHVFGVAHIFASFNDTFIHVTDLSGRETLVRLITGGMKVK**ADRD**ESS
PYAAMLAAQDV**TQR**CK**ELGITALHIK**LRATGGNKTK**TPGPQAQSALR**ALARSGMRIGR**IEDVTP**IP**TDS**
TRRKGRRGRRL

Protein No.: I-357

Protein name and Species:

Rubber elongation factor OS=Hevea brasiliensis GN=REF PE=2

SV=1

Accession: [tr|Q6T708|Q6T708_HEVBR](#)

Unused ProtScore: 6.44

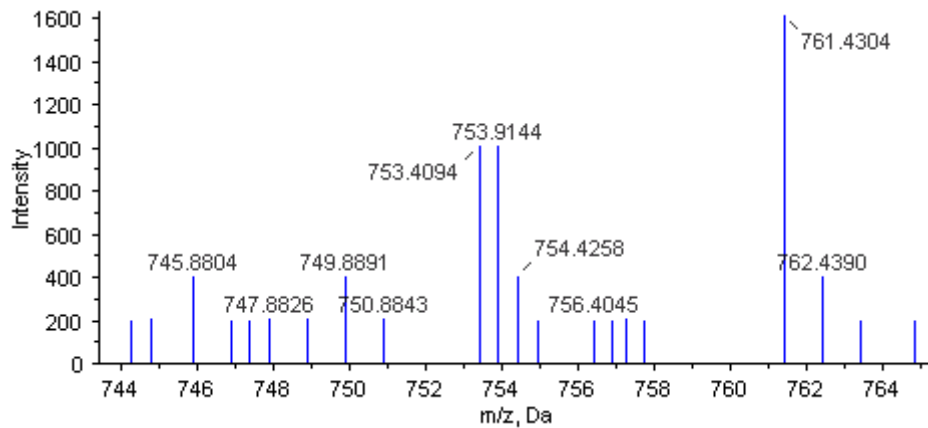
Seq Cov %: 64

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL= 0.51

116: 114=E5TL: D5TL= 1.17

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEGEEEVNIQEEANKGEENPQEEANIQEETNKGEENIQEEANIEEEANKEEESLKYLDFVQAATVYAR
ASFSKLYLFAKDKSGPFKPGVNTVESRFKSVVRPVYNKEQPVPNKVLKFAADR RVDAYVTVLDRIVPPIV
KRASIQAYSVAPGAALAVASYLPLHTKRLSKVLYGDG

Protein No.: I-364

Protein name and Species:

chitinase, Class I (Fragment) OS=Gossypium hirsutum PE=2

SV=1

Accession: tr|Q9ZTT8|Q9ZTT8_GOSHI

Unused ProtScore: 6.34

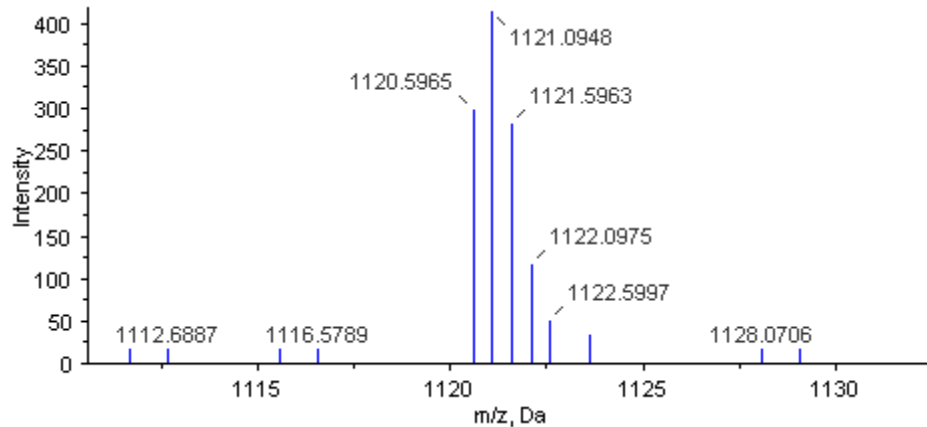
Seq Cov %: 13.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

EQCGRQAGGALCP**GGLCCSQFGWCGSTADYCTV**PGCQSQCSCSGSPAPGPGGLTNLISRETFNRMLLHRN
DGACPARGFYTYDAFIAAARSFPAPAFATTGDQATRKREIAAFLAQTSHETTGGAGWAAPDGPYAWGYCYN
R**ELNPP**SSYCASGPNYPCSPGKQYFGRGPMQLSWNYNYGPCGRAIGVDLLNPDLLSSDPT**V**SFKSAFW
FWMTPQSPKPSCHNVIIGAWSPSSSDRAAGR**ATGYGVITNIINGGLECGK**GWNAQ**VEDRIGFYKRYCDI**
LGVSYGNNLDCYNQRPFNGGVSVDSM

Protein No.: I-366

Protein name and Species:

Protease inhibitor protein OS=Hevea brasiliensis PE=4 SV=1

Accession: [tr|B3FNP9|B3FNP9_HEVBR](#)

Unused ProtScore: 6.31

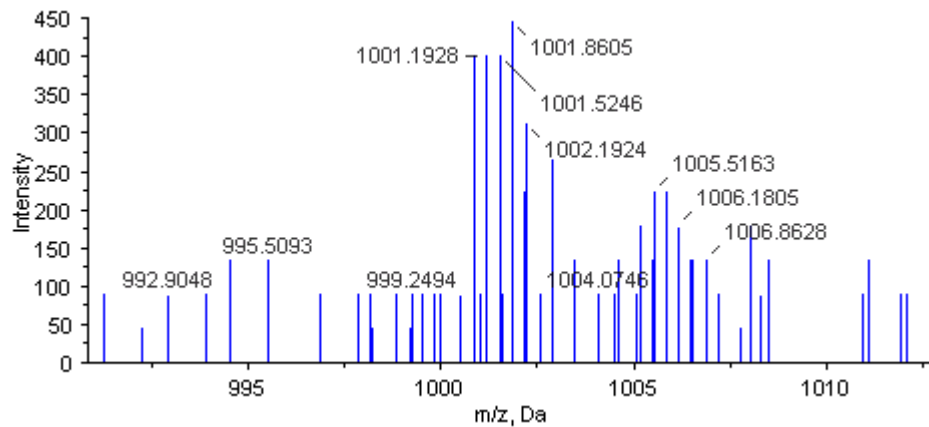
Seq Cov %: 67.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.78

116: 114=E5TL: D5TL=1.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASQCPVK**DAWPELIGTNGDIAAGIIE**TENANVKAIIVL**K**KGSPMTMEYNLCRVLV**FVDDNR**VVTQAPVI
G

Protein No.: I-369

Protein name and Species:

Ras-related protein RABB1b-like OS=Populus trichocarpa

GN=POPTRDRAFT_648984 PE=2 SV=1

Accession: tr|A9P8X5|A9P8X5_POPTR

Unused ProtScore: 6.2

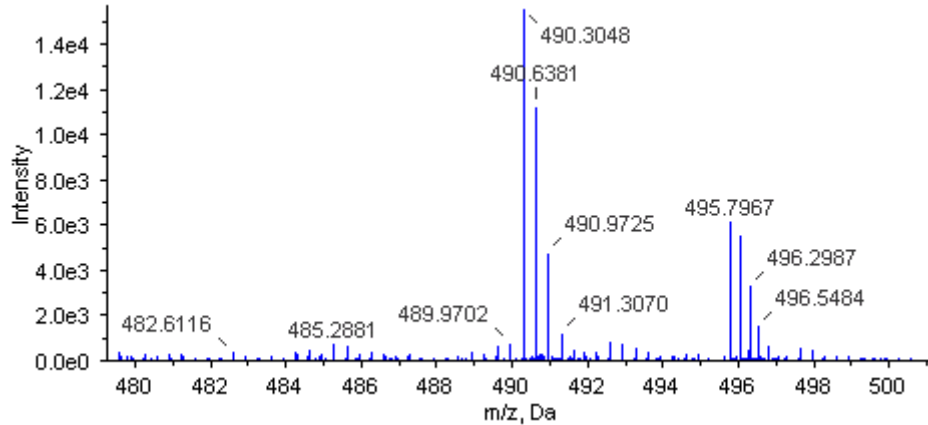
Seq Cov %: 51.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.61

116: 114=E5TL: D5TL=1.12

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSYDYL~~LFKY~~**YIIIGD**TGVGK**SC**LL**LQ**FTDKR~~FQ~~PVHDLTIGVEFGAR**MVTIDAR**PIK**LQ**IWD**TAGQ**ESFR
SITRSYY**RGAAG**ALLVYDITRRETFNHLASWLE**DARQ**HANPNMS**IM**L**IGNK**CDLAHRR**AVSKEE**GEQ**FA**
KENGLL**FLEASAR**TAQNVEEAFIGTAGK**ILQNIQ**EGVFDVSN**ESSGIK**VGYGR**PQGASGAR**DGTVAQ**RG**
GCCS

Protein No.: I-370

Protein name and Species:

Asparaginyl-tRNA synthetase, cytoplasmic 1-like [Vitis vinifera]

OS=Vitis vinifera GN=VIT_11s0016g02680 PE=3 SV=1

Accession: tr|F6HGX0|F6HGX0_VITVI

Unused ProtScore: 6.18

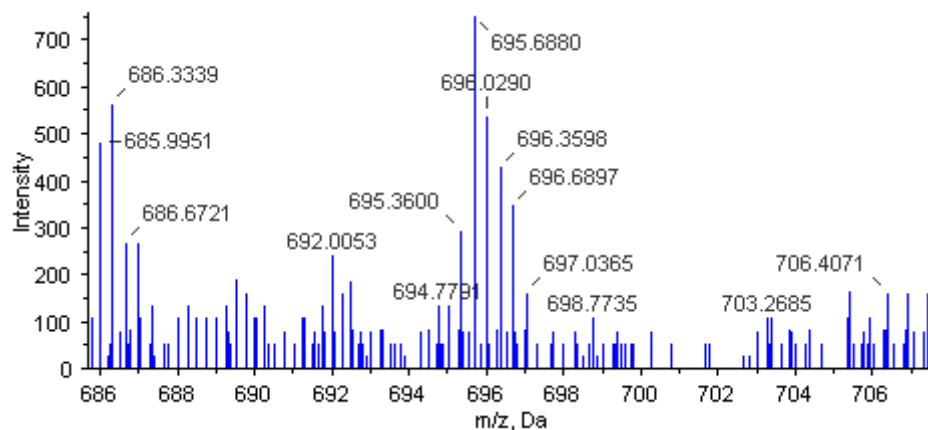
Seq Cov %: 11.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.64

116: 114=E5TL: D5TL=1.17

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEDSVPPVDQMALATLNDDVSTPFVKAQFSDRHLIRTIILSRPDGGAGL**AGQTVK**VGGWVKTGREQGKG
SFAFLELNDGSCPANLQVIVDAAVAPLGQLVQTGTCVHV**EGLLK**VPPEGTKQRVELRVEK**VHHVGPVDP**
AKYPLPKTRLTLEFLRDFVHFRPR**TNTISAVAR**IRNALAYATHHTFFQNHGFLYIHTPIITTSDCGAGE
MFQVTTLISDAEKVEK**ELIKNPPPSEADIEAAK**ALVKEKGEAVAQLKSAKASK**GEITASVAELNK**AKEN
LSRLEERSKCLKPGIPQKDGKIDYSQDFFARQAFLTVSGQLQVETYACAVSSVYTFGPTFRAEHSHTSRH
LAEFWMVEPEIAFADLKDDMNCA**EAYVK**FLCQWLLDNCIDDMEFMAKNFDKGCIDRLRMVASTPFER**IS**
YTEAIKL**LEEAVK**KDKKFENKVEWGIDLASEHERFLT**EVLFK**KPVIVHDYPKGIA**AFYMR**LNDDMK**TVA**
AMDVLVPKVGELIGGSQREERYEVIKRILEMGLPLEPYEWY**LDLRR**YGTVK**HCGFGLGFERMILFATG**
IDNIRDVIPFPYPGRADL

Protein No.: I-371

Protein name and Species:

S-adenosyl-methionine-sterol-C-methyltransferase OS=Ricinus communis PE=2 SV=1

Accession: tr|O24328|O24328_RICCO

Unused ProtScore: 6.18

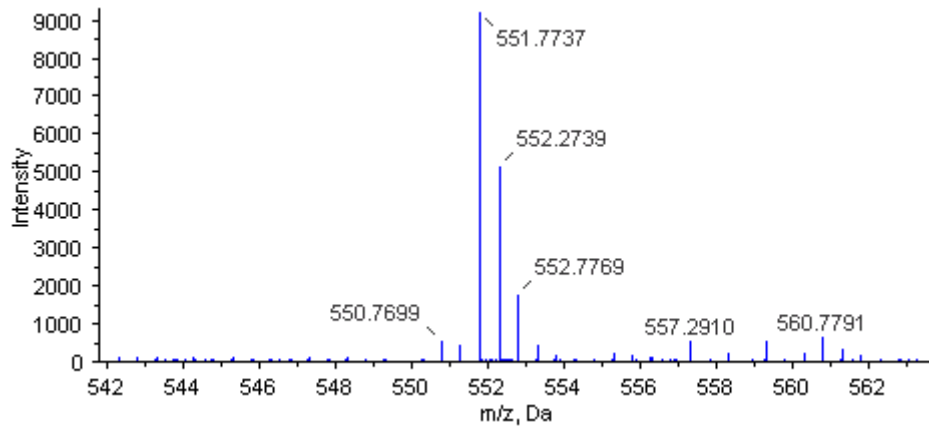
Seq Cov %: 17.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=1.24

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSKAGALDLASGVGGKIDKNEVLSAVEKYEKYHVYYGGAAEEERKANYTDMVNKYYDLVTSFYEFGWGES
FHFahrRFKGESLRRESIKRHEHFLALQLGLKPEQKVL DVGCGIGGPLREISRFSLT SVTGLNNNEYQITR
GKVLNR IAGVDKTCDFVKADFMKMPFPANSFDAVYAIEATCHAPDAYGCYSEIYRVLKPGQFFAAYEWC
MTDSFDPNNQEHQKIKAEIEIGDGLPDIRLTGQCIEALKKAGFDVIWSGDLTASSPVPWYLP LDKNQYS
LTGFRLTAIGRFFTRNMIKALEFAGLAPKGSQRVQDFLEKAAEGLVEGGRKEIFTPMFFFLAQKPHSEN
Q

Protein No.: I-372

Protein name and Species:

60S ribosomal protein L4 [Vitis vinifera] OS=Vitis vinifera

GN=VIT_08s0040g03200 PE=4 SV=1

Accession: tr|F6HQV3|F6HQV3_VITVI

Unused ProtScore: 6.14

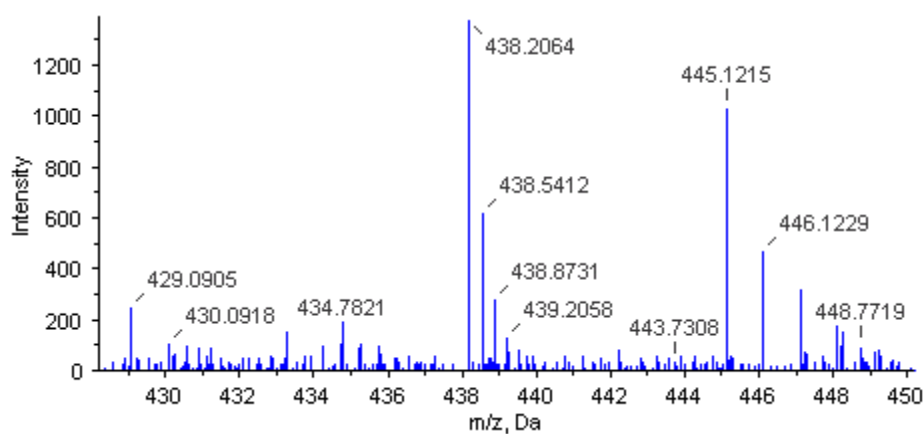
Seq Cov %: 8.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.31

116: 114=E5TL: D5TL=2.14

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAAAARPLVTVQVLKSDMATDGGNAVPLPDVMKASIRPDIVTFVHSNISKNSRQPYAVSRRAGHQ TSA
ESWGTGRAVSRI PRVPGGGTHR **AGQGAFGNMCR** **GGRMFAPTK** IWRRWHRK INVNQKRYAVVSAIAASAI
PSLVMARGHRIESVPELPLVIGDSAESVEKTS **AIDLK** QVGAYP **DAEKAK** DSHAIRPGKGKMRNRRYI
SRK **GPLIVYGTEGAK** LVKAFR **NIPGVEVANVDR** **LNLLK** LAPGGHLGRFVIWTKSAFEK **LDSIYGSFEK**T
SEKKNGYLLPRSKMVNADLAR **IINSDEVQSVVRP** **IK** KEVKRAPMKNPLK **NLNTMLK** LNPYAKTARRMA
LLAEAQRVKAKQEKLDKKRKQIPKEEVAAIKAAGKAWYQTMISDSYTEFDNF SKWLGVSQ

Protein No.: I-373

Protein name and Species:

Malate dehydrogenase OS=Ricinus communis

GN=RCOM_1520380 PE=3 SV=1

Accession: tr|B9SE47|B9SE47_RICCO

Unused ProtScore: 6.14

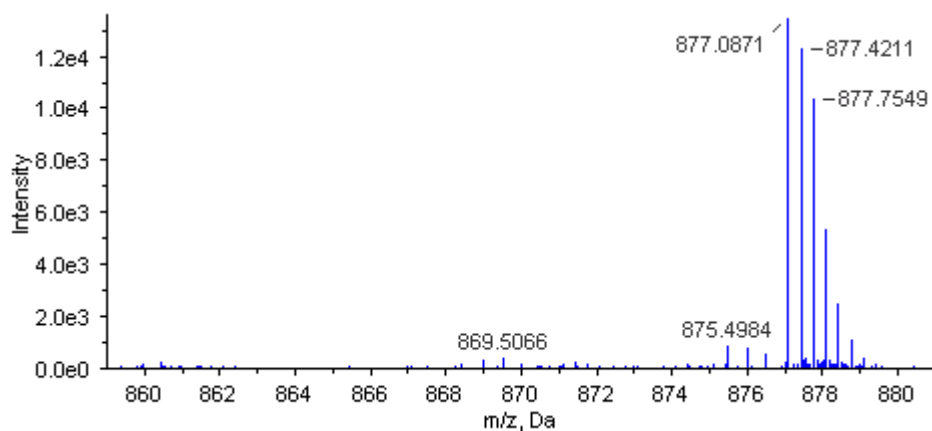
Seq Cov %: 13.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.28

116: 114=E5TL: D5TL=0.31

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRSSLFRSVKALGSTSSSSHLLRRGYASEAVPDRK**VAVLGAAGGIGQPLALLMK**LNPLVSNLALYDIAN
TPGVAADVSHINTRSDVKGYVGEDQLGK**ALEGS DVVIIPAGVPR**KPGMTR**DDLFNINAGIVK**GLCEAIA
KYCPNALVNMLSNPVNSTVPIAAEVFKKAGTYDEKRLFGVTTLDVVRAKTFYAGKAKVPVAE VNVVVG
GHAGITILPLLSQATPK**ANLPDEEIVALTK**RTQDGGTEVVEAKAGKGSATLSMAYAGAI FADACLKGLN
GVPDVVECSFVQSTVTELPFFASKVRLGK**NGVEEVLGLGPLSDYEK**EGLEK LKPELLSSIEKGINFANK

Protein No.: I-374

Protein name and Species:

Alcohol dehydrogenase, putative OS=Ricinus communis

GN=RCOM_0605880 PE=4 SV=1

Accession: tr|B9SUZ4|B9SUZ4_RICCO

Unused ProtScore: 6.12

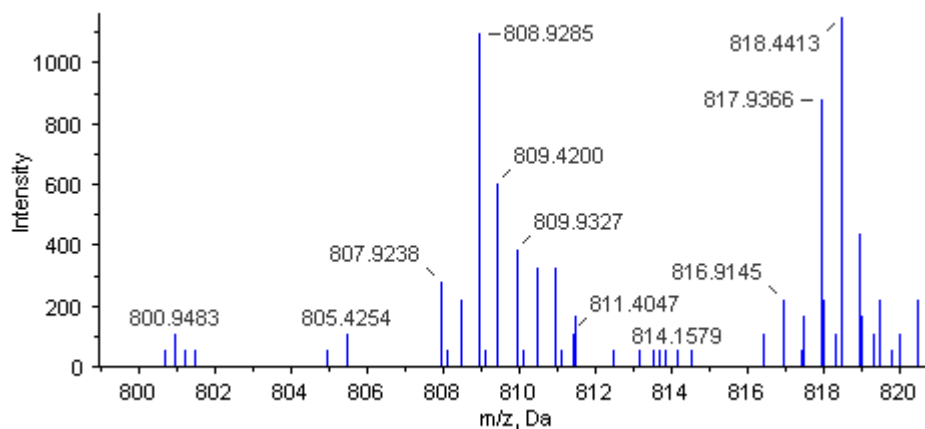
Seq Cov %: 18.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.09

116: 114=E5TL: D5TL=0.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTSKESVHRNSRRKAIDYREMAEAEVVSNNKQVIFKEYVSGFPKESDMYMTTSSVKLQVEEGSTSVLVK
NLYLS^{CDPYMR}GRMRNTPSDDPEFSPLHPGSPVFGGLGVAK^{VVDSGHPGFK}KGDLVWGSTRWEEYTLITA
PEGLFKIHHTDIPLSYTGLLGMPGITAYFGLNDICTPKKGER^{VVSAASGAVGQLVGQFAKLMGCYVV}
^{GSAGSKEKVDLLKNKFGFDEAFNYREEHDWNAALKR}^{YFPEGIDYFENVGGKMLDAVLLNMR}THGRIAA
CGMISQYNLEHPDGVHNLIVVVHKRIRIQGFISFDYFGQYSK^{FLDFVLPYIR}EGKITTYVEDIAEGIESA
PAALVGLFSGRNVGK^{QVVAVAHE}

Protein No.: I-375

Protein name and Species:

Methionine synthase OS=Camellia sinensis PE=2 SV=1

Accession: [tr|G3G858|G3G858_CAMSI](#)

Unused ProtScore: 6.11

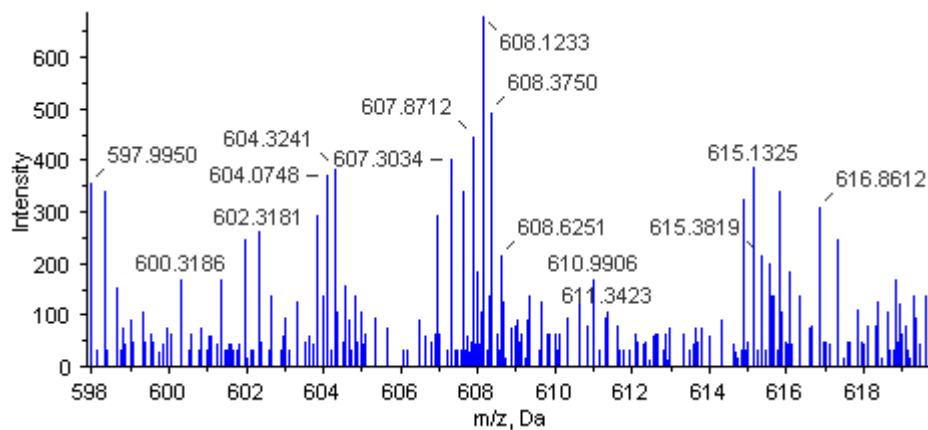
Seq Cov %: 17.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.39

116: 114=E5TL: D5TL=0.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASHIVGYPRMGPKRELKFALESFWDKSSAEDLKKVAADLRSSIWKQMASAGIKYIPSNTFSSYYDQVL
DTTAMLGAVPPRYGWTGGEIGFDTYFSMARGNASVPAMEMAKWFDNTYHFIVPELGPEIKFSYASHKAV
DEYKEAKALGVDTVPVLVGPVSYLLLSKPAKGVEKSFSLLSLLDKILPIYKEVVAELKAAGASWIQFDE
PTLVKDLQESHQLQAFTAAYSELESALSGLNVIVETVFADVPAAEFKTLTSLKCVTGFDFDLVRGAQTLD
LITSGFPPSGEYLFAGVVDGRNIWANDLAASLSLLQTLEGIVGKDKLVVSTSCSLHTAVDLVNETKFDK
ELKSWLAFAAQKVVEVNSLAKALAGHKDEAFFSENAAAQASRKSSPRVTNEAVQKAAAALRGSDHRRAT
NVSARLDAQQKLNLPILPTTTIGSFPPQTELRVRREYKAKKISEEEYVKAIKEEINKVVKLQEELDI
DVLVHGEPERNMVEYFGEQLSGFAFSANGWVQSYGSRCKVPPIIIFGDVSRPKAMTVFWSMAQSMTR
PMKGMLTGPVTILNWSFVRNDQPRFETCYQIALAIKDEVEDLEKAGINVIQMDEAALREGLPLRKSEQA
FYLDWAVHSFRITNCGVTDTTQIHTHMCYSNFNDI IHSIIDMDADVITIENSRSDEKLLSVFREGVKYG
AGIGPGVYDIHSPRIPSTEEIADRINKMLQVLETNILWVNPDCGLKTRKYHEVKPALLNMVAAAKQIRT
QLASAK

Protein No.: I-382

Protein name and Species:

Trafficking protein particle complex subunit, putative

OS=Ricinus communis GN=RCOM_0183430 PE=4 SV=1

Accession: tr|B9SA27|B9SA27_RICCO

Unused ProtScore: 6.03

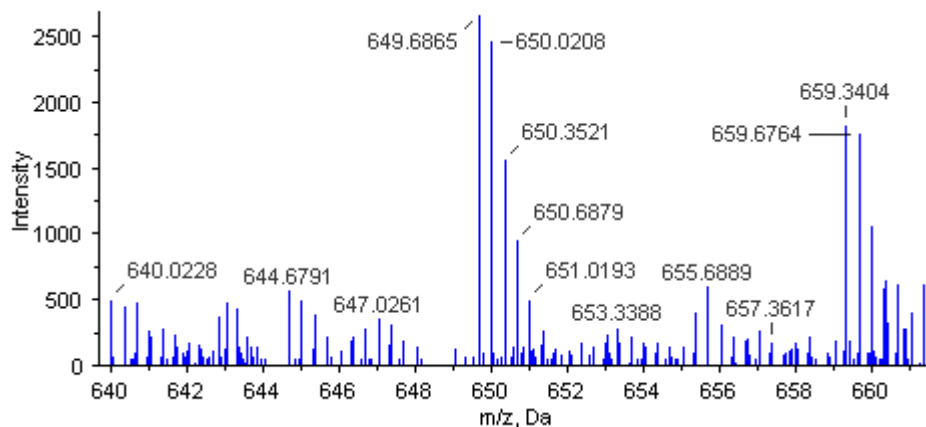
Seq Cov %: 24.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.71

116: 114=E5TL: D5TL=1.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPVGPRSGDAIFASVERVNAELFTLTYGAIVRQLLTDLEEVVEFNKQLDQMGYNIGIRLVDEF~~FLAK~~SN
VNRCVDFRETAIEVIKVGFKMFLGVSASVTNWDADGTCCSIILEDNPLVDFVELPDTQCGLLYCNIILSG
VIRGALEMVSMKTEVTWARDMLRGDDAYELQVKLLKQVPEEYPYKDDE

Protein No.: I-383

Protein name and Species:

Sucrose phosphate phosphatase OS=Malus domestica PE=2

SV=1

Accession: tr|Q5J3P0|Q5J3P0_MALDO

Unused ProtScore: 6.02

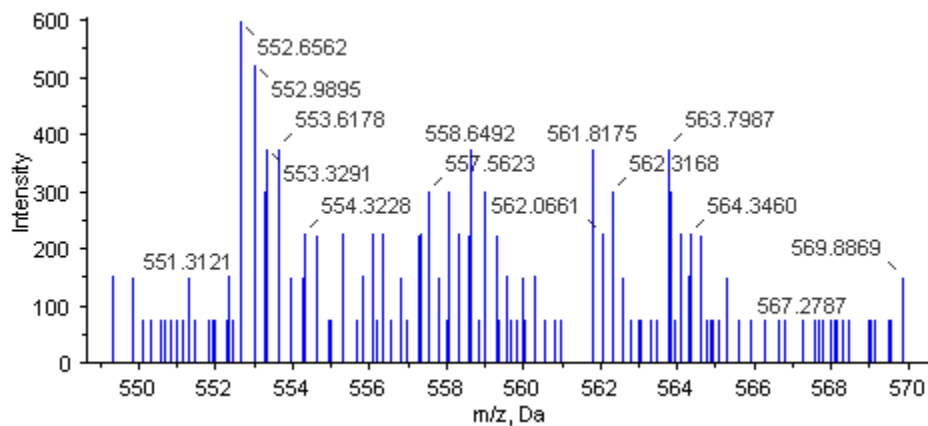
Seq Cov %: 9.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.50

116: 114=E5TL: D5TL=0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDRLEAPARLMIVSDL DHTMVDHHD TEN **L S L L R** FNSLWEANYC **H D S L L V F S T G R** SPTLYKELRKEKPML
TPDITIMSVGTEITYGNAMVPDDGWVEVLNQKWDRNIVKE **E A S K** YSELKLQAETEQRPHKVSFYVEKAK
AQAVTKALSEVFEKRGLDVK **I I Y S G M D L D I L P Q G A G K G Q A L A Y L L K** KFKSEGSSPVNTLVCGDSGND
ELFSIPEVYGVMSNAQEELQWHAENAKGNTRI IHATER **C A A G I I Q A I G H F K** LGPSLPPRDIADFSD
KLENPNPGHELVKFF **L F Y E K** WRRRAEVENSEIYLASLKADCSPSGTFVHPSGVEHSLSDSINALRNCYGD
KQKQFRVWVDGVLATHVGSNTWLVKFDKWELSGEERYAIKGTAVISSKGSVSDGFTWIRVHQTWYKG
YEAKDDSTWFF

Protein No.: I-386

Protein name and Species:

60S ribosomal protein L9, putative OS=Ricinus communis

GN=RCOM_1315040 PE=4 SV=1

Accession: tr|B9RYZ1|B9RYZ1_RICCO

Unused ProtScore: 6

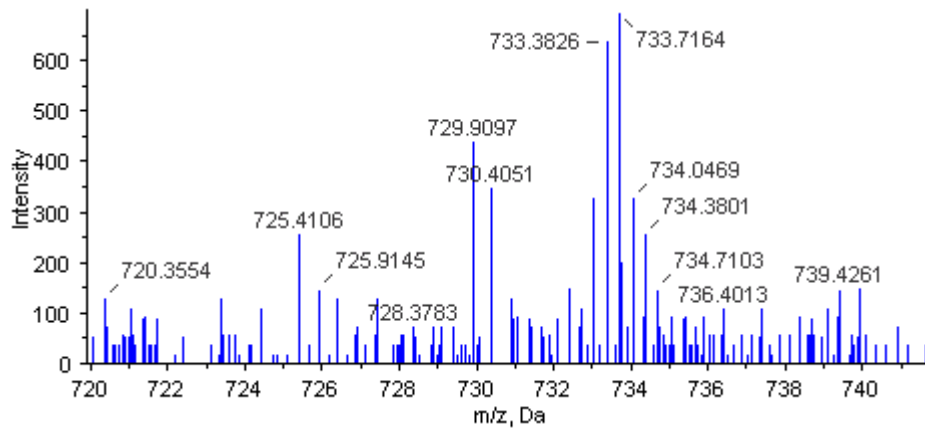
Seq Cov %: 19.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.19

116: 114=E5TL: D5TL=1.74

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKTILSSETMDIPDGVKIKVNAKIIIEVEGPRGKLTNRNFKHLNLLDFQLIKDEETGKRKLLKIEAWFGSRKT
SAAIR**TALSHVENLITGVTK**GYRYKMRFFVYAH**FPINASITNSNSAIEIR**NFLGEKKVR**KVDMLEGVTVV**
RSEKVKDELVLVDGNDIELVSRSAALINQKCHVKNKDIRK**FLDGIYVSEK**GTVAEQE

Protein No.: I-389

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_571988 PE=4 SV=1

Accession: tr|B9IBL7|B9IBL7_POPTR

Unused ProtScore: 6

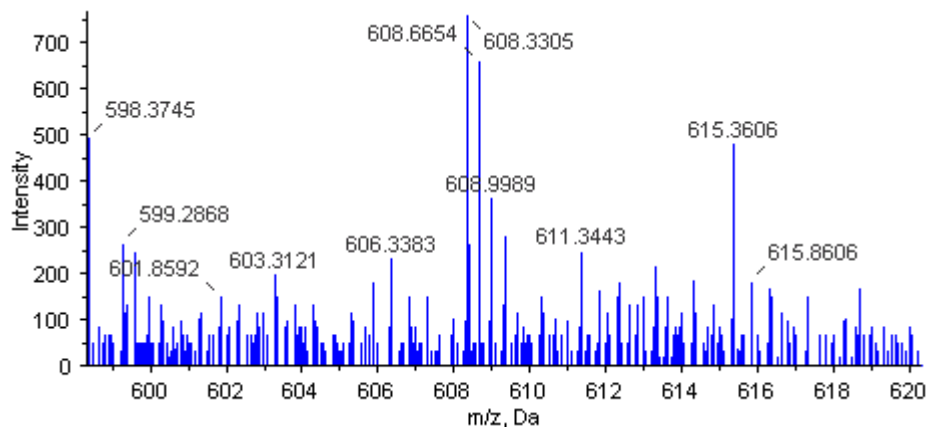
Seq Cov %: 6.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=6.19

116: 114=E5TL: D5TL=1.20

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSWLARSIANSLKFEDDDQQPDKNTTATTTTTSAPTTDNVNNKDLSENSESDQQQSATPRGVKEDLTDLKK
TLTRQLWGVASFLAPPEPPLTENRSHTSDPDGSNDDDDAALIAGIR**SDFAEIGGR**FKSGITKLSNK
TVSEFTKIASNLLQLGSESHEIGTTASAVGVTEEVVGFARDVAMHPETWLDPLPDVQGFEDFDMSDAQ
QEHALAVEHLAPRLAALRIELCPGYMSEGCFWK**IYFVLLHPR**L**SKHDAELLSTPQIVEAR**AMLSHELQN
KAKAKSTPDWSGVDTSNVKADLPHEESLSVPSRAKSESVPIMTSGIEAVSPTLAAKTSDNAEAPSFVSV
ESETEKHPVESTQM**QIIDK**SVVEEGKVDQTKHQHSSSSSSSGILEEKFDDDGDDWLKDDSSSEMIGVSGS
SMPLGNDEDVSFSDLEEDDGDEPASYKKVASGSDCATKGSQDWVQLSRSSADSVKDIKPVSIKNAGSEK
VSARNSENKESDWDVDDIDVI

Protein No.: I-390

Protein name and Species:

Putative uncharacterized protein OS=Vitis vinifera

GN=VIT_19s0015g02610 PE=3 SV=1

Accession: [tr|F6I510|F6I510_VITVI](#)

Unused ProtScore: 5.99

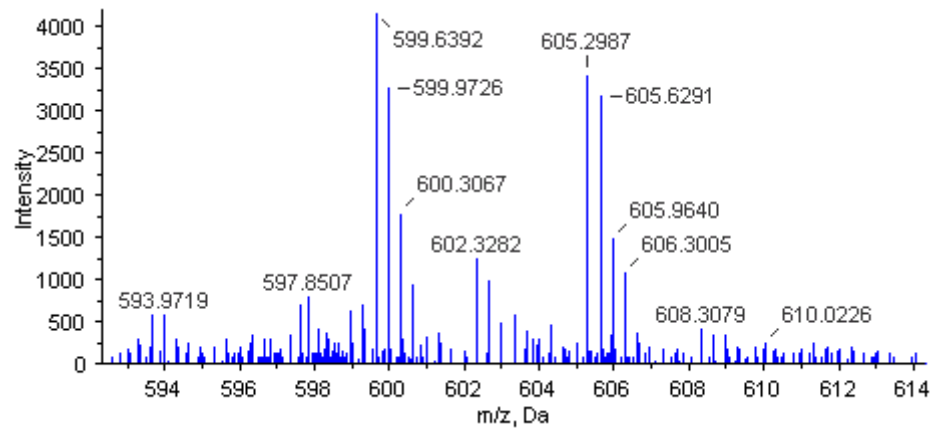
Seq Cov %: 18

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.39

116: 114=E5TL: D5TL=0.71

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADEIILLDFWPSMFGMRVRL**LALAEK**GLK**YEYRQEDLR**NK**SPLLLEMNPVHK**IPVLIHNGKPICESLI
IVQYIDEVWVK**DKSPLLPSDPYQR**AQARFWADYVDKPLYELGGKIWSTKGEEQETGK**KEFIECLKLLEGE**
LGEKPYFGGEKIGFVDVALVTFSCWFYAYETFGNFSIEAECPKLVAVTKRCMEKESVSSSLEDPHKVHG
FIMGMRKRFGEIVR**LALAEK**GLK**YEYKEEDLR**NK**SPLLLEMNPVHK**IPVLIHNGKPICESLIIVQYID
EVVH**DKSPLLPSDPYQR**AQARFWADYVDKKGFFVQNFVQAGFFFTHSLPKAPSSS

Protein No.: I-391

Protein name and Species:

Carbonic anhydrase OS=Populus trichocarpa

GN=POPTRDRAFT_666464 PE=3 SV=1

Accession: tr|B9IER7|B9IER7_POPTR

Unused ProtScore: 5.98

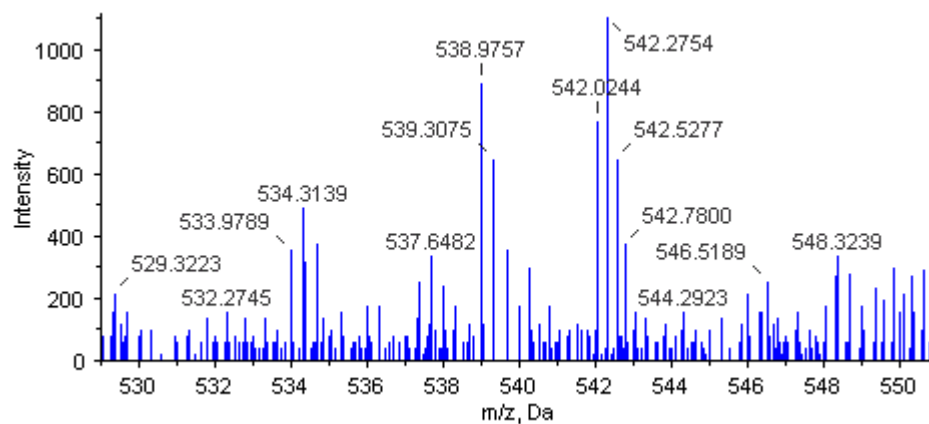
Seq Cov %: 11.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.54

116: 114=E5TL: D5TL=1.06

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSNLSHEGAIIEGSKKLLIDNEKDDQLNKEVEAKIEKLIIGELQKRLPDHCDPVGRILEGFHRFKTTKFD
KYPELYRELAEGQSPKFLVFACSDSRVSPSHVLDFQPGAEAFMVRNIANLVPAFNQLRYSVGATIEYAV
ATLGVENILVIGHSRCGGIERLMTLPEDGSTANDFVDDWVKIGLPAKAKVEAEFGHLPLPEQIHKCEKE
AVNLSLINLQTYPYQERMAEGALALRGGYYDFVKGCFELWEVKSTVTPPISTCCK

Protein No.: I-392

Protein name and Species:

**Protein SEY1, putative; root hair defective 3 OS=Ricinus
communis GN=RCOM_0312010 PE=4 SV=1**

Accession: tr|B9SN36|B9SN36_RICCO

Unused ProtScore: 5.95

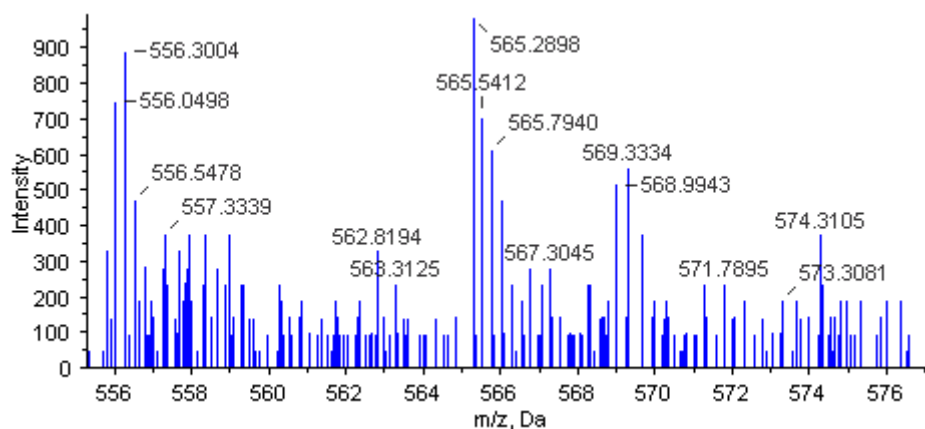
Seq Cov %: 7.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=5.06

116: 114=E5TL: D5TL=1.78

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANSEESCSTQLIDGDGTFNAAGLEHFTKEVRLGECGLSYAVVSIMGPQSSGK**STLLNNLFGTNFR**EMD
AFRGRSQTTK**GIWLAR****CAGIEP****CTLVMDLEGTDGR**ERGEDDTAFQKQSALFALAVSDIVLINMW**CHDIG**
REQAANKPLLKTVFQVMMRLFSPRKTTLMFVIRDKTR**TPLENLEPVL**REDIQKIWDVAVPKPQEHKETPL
SEFFNVEVVALSSYEEKEEQFKEQVASLRQR**FFHSIAPGGLAGDR**RGVVPASGFSFSAQQMWKVIKENK
DLDLPAHKVMVATVRC EEIANEKYANFTTNEEWHQIEEAVQSGPVSGFGKLSSTLSTSFSEYDAEAIY
FDEGVRSAKRKQLEEKLLQLVQPAHQSM LGHIR**SGTL****DK**FKEAFDKALAAGEGFSSAAYSCTQYYMTVF
DEGCTDAIIEQASWDTSKVRDKLRR**DI****DAHV****SVRAAK****L****SELT****SSFEAK**LNEALSGPVEALLDGATSET
WPAIRKLLQRESESAVSGLSALAGFDMKQSKDKMLSSLETYARGVVEAKAKEEAGRVLIRMKDRFSM
LFSHSDSMPRVWTGKEDIRAITKTARSASLKL SVMVAIRLDDEVDNVESTLSSVFLDTKNNAVTER
SITKTDPLASSTWDEVPSKTLITPVQCKSLWRQFK**AETEYSVTQAI****SAQEANK**RNNNWLP PPWAI VAL
VVLGFNEFMTLLRNPLYLGFIFVVFLLVKALWVQLDVSGEFRNGALPGLISLSTKFLPTIMNLIK KLA E
EGQKPATNDPQRNPALAAKSFRNGVGSDDMSTASSGVTSTENGTEFSSASKDD

Protein No.: I-395

Protein name and Species:

Receptor for activated protein kinase C, putative OS=Ricinus communis GN=RCOM_0571360 PE=4 SV=1

Accession: tr|B9SU88|B9SU88_RICCO

Unused ProtScore: 5.85

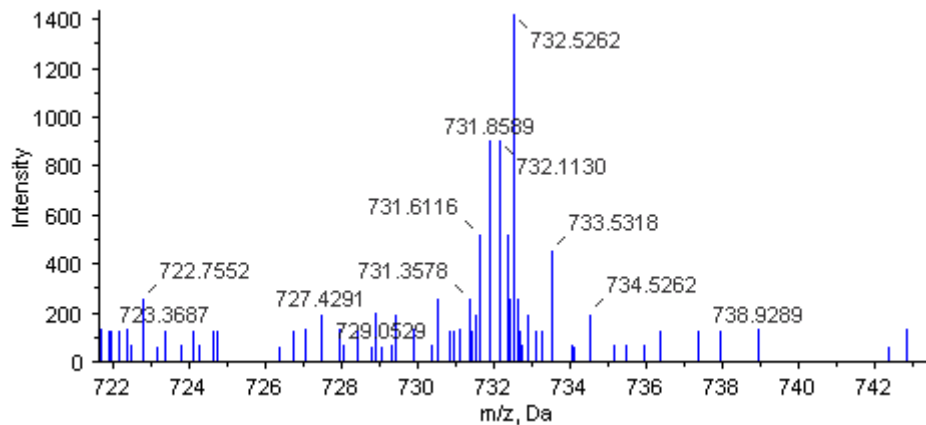
Seq Cov %: 17.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.75

116: 114=E5TL: D5TL=1.46

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAERLILLGTMRAHTDQVTAIATPIDNSDMIVTASRDKSIILWKLKDEKTYGVAHRRLTGHSHFVQDV
VLSSDGQFALSGSWDGELRLWDLAAGVSARRFVGHGTHKDVLSVAFSIDNRQIVSASRDRTIKLWNTLGE
KYTIQDGD~~AHNDWVSCVR~~FSPNTLQPTIVSASWDRTVKVVNLTNCKLRLCTLAGHGGYVNTVAVSPDGS
L~~CASGGKDG~~VILLWDLAEGKRLYNLDAGAVIHALCFSPNRYWLC AATENS IKIWDLESK~~SIVEDLK~~VDLK
AEAEKSDGSTVASTGAKKKNIYCTSLSWNADGSTLFSGYTDGVIIRVWGIGRF

Protein No.: I-401

Protein name and Species:

Fumarylacetoacetate hydrolase (Fragment) OS=Dimocarpus longan PE=2 SV=1

Accession: tr|G0YC94|G0YC94_9ROSI

Unused ProtScore: 5.79

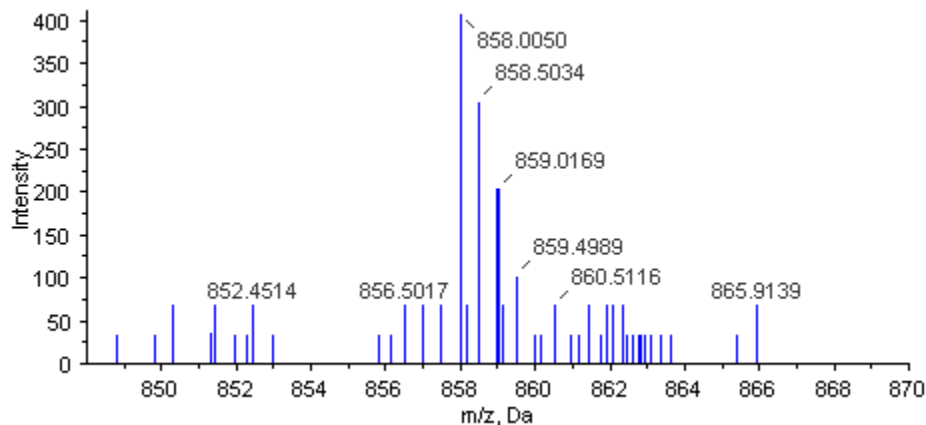
Seq Cov %: 22.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.61

116: 114=E5TL: D5TL=3.14

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAVLQSFVEVKPDSHFPIQNLPGVFKPDPTSSPRPGIAIGDYVLDLSEIAKAGLFGPTLS**GSDCFLQ**
PNLNKFLALGRPAWKEARATLQK**LLSSSEAAALRDNASLR**QKSLVSMQKVMVVPVIAIGDYTDFFSSMH
AK**NCGTIFR**GPQNPVPANWFHLPVIAIHGR**ASSIVISGTDIVRPR**GQGVPSGNSPPFPGPSQK**LDFELEM**
AAVVGPGNELGKPVDVNEAADHIFGVVLMNDWSAR**DIQAWYVPLGPF**LGK**SFGTTIS**PWIVTL

Protein No.: I-408

Protein name and Species:

Protease inhibitor HPI OS=Hevea brasiliensis GN=PI1 PE=1

SV=2

Accession: sp|Q6XNP7|HPI_HEVBR

Unused ProtScore: 5.72

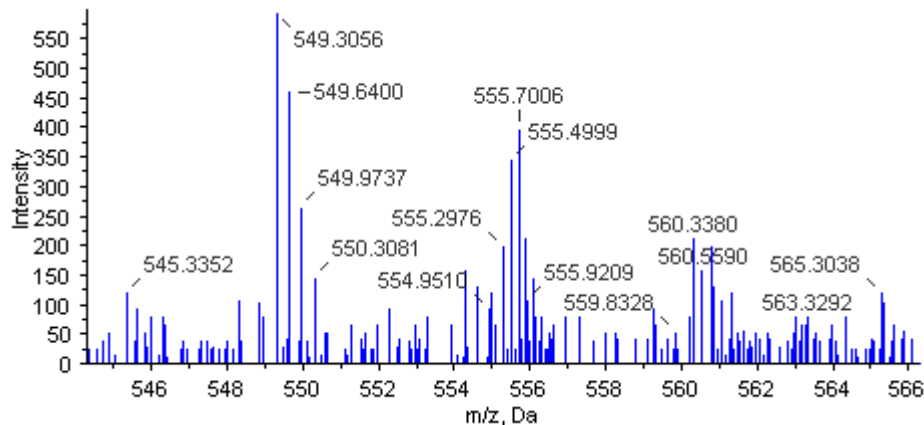
Seq Cov %: 65.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=1.34

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASQCPVKNSWPELVGTNGDIAAGIIQTENANVKAIVVKEGLPITQDLNFNRRVRFVDENRVVTQVPALG

Protein No.: I-409

Protein name and Species:

**1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase,
putative OS=Ricinus communis GN=RCOM_0339640 PE=4
SV=1**

Accession: [tr|B9T5Y1|B9T5Y1_RICCO](#)

Unused ProtScore: 5.7

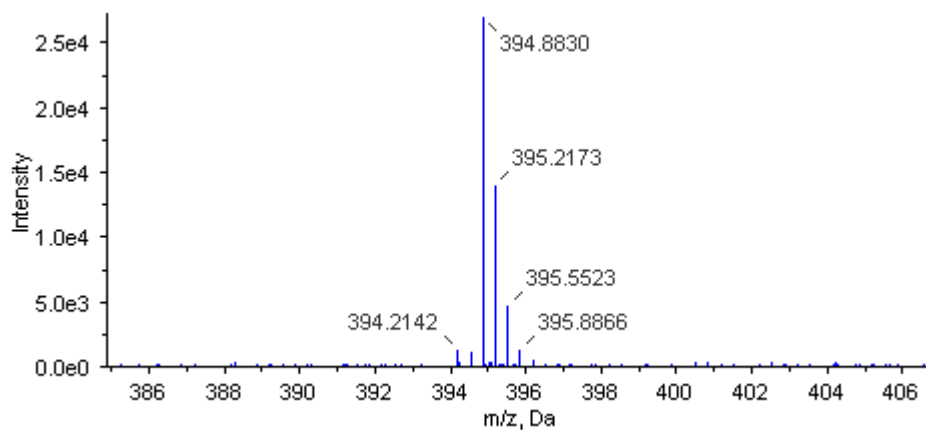
Seq Cov %: 13.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=0.50

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSKQTYRVCFCFRRRFRRLAVAEAPQEIKSLFDQYSDNNGLMS **IDQLR**RFLVEIQKQDNATTEDAQAIFN
NLHELKHLNIFHRK **GLNLEAFFKYLFGDINPPLDVK**RGVHHDMTCPLSHYFIYTGHN SYLTGNQLSSDC
SDVPIIQALQRGVR **VIELDIWPNSTKDNVEVLHGR**TLTTPVELIKCLRSIKEHAFRASDYPVVITLEDH
LTPDLQAK **VAEMITQTFGDILFTP** **GSECLKEFPSPESLK**KRIIVSTKPPKEYLEVREIREREGDSQSGK
PGSDEETWGKEIPDLKGFHFRVDDKNELDEDNNDDEDAAPDGNKSQQNIAPEYK **HLIAIHAGKPKGGIE**
ECLKVDPDKVRRRLSLSEQQLEKAAETHGKEIVRFTQRNILR **VYPK**GIRVDSSNYNPLIGWMHGAQMVAF
NMQGHGRSLWLMQGMFR **ANGGCGYVK** **KPDFLLK**SGPHGEVFDPRAKLPVKTTLVKVKVYMGEGWYDFDR
THFDAYSPPDFYAR **VGIAGVPADTIMK**KTKTLEDNWIPVWNEEFE **FPLTVPELALLR**VEVHEYDMSEKD
DFGGQSCLPVSSELKGIIRAIPLHDKGVKYNVSVKLLVRFDFV

Protein No.: I-410

Protein name and Species:

Protein disulfide isomerase, putative OS=Populus trichocarpa

GN=POPTRDRAFT_643603 PE=3 SV=1

Accession: tr|B9GU26|B9GU26_POPTR

Unused ProtScore: 5.68

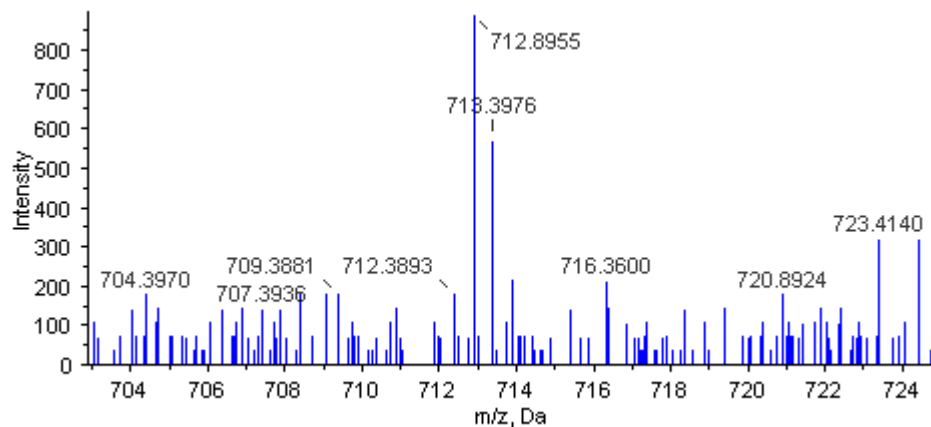
Seq Cov %: 8.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.29

116: 114=E5TL: D5TL=2.13

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASTVSWSCIFLLSLIVALSAGEDSKKEYVLTLDHSNFNETVSKHDFIVVEFYAPWCGHCCKKLAP EYE
KAASILSSNDPQVVLAKVDANEDANKEIASQYDVKGFPTIVILRKGKSVQ EYKGP READGIVEY LK KQ
SGPASAE LKSDDDATGFIGDKKVVIVGVF PKFSGEEFENFLAVAEKLRSDYEF GHTLDAKYLPRGESSV
SGPLVRLFKPFDEL FVDSKDFNVDAL EK FVEESSIPIVT LFNK DPSNHP FVVK YFDSPLAKAMLFMNF S
SENGDSIRTKYQEVAGLHKGDGLVFL LGDVEASQ GALQYFGLKEDQVPLI VIQT TDGQKYLKPNLVSDQ
IAPWLKEYKEGK VPPFKK SEPIPEVNDEPVKVVVADSLDELVTKSGKNV FLEFYAPWCGHCQKLAPILE
EVAISFQSDADVVI AKLDATANDIPSDT YDVKGFPTIFFR SATGKLVQYEGDR TKQDIIDFIEK NRDKI
GQQEPAK EEEPAKEQETAKDEL

Protein No.: I-412

Protein name and Species:

DEAD-box ATP-dependent RNA helicase 37-like [Vitis vinifera]

OS=Vitis vinifera GN=VIT_08s0007g07070 PE=4 SV=1

Accession: tr|F6HLF4|F6HLF4_VITVI

Unused ProtScore: 5.65

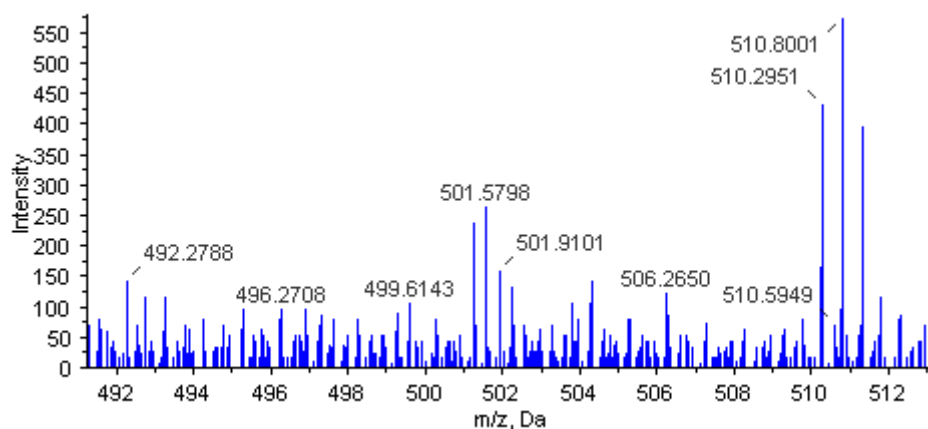
Seq Cov %: 8.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.16

116: 114=E5TL: D5TL=1.61

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRTSWADSVANSTSDNLVSGSSDNSGFGAGAPSRSGR**SSYVPPHLR**NRPPSSDPPAPSYTSQ**ASAGYGG**
PPGGTRWGGGSR**ADFGRSGVTTGVTSGGRVGGSSGWNTRSGGWDRGR**DREVNPFGDDDNAEPAFSEQEN
TGINFDAYEDIPVETSGDNVPPPVNTFAEIDLGEALNQNIIRRCK**YVKPTPVQR**HAIPIISLSGKDLMACA
QTGSGKTA AFCFPIISGIMTGQFAQRPRGAR**TVYPLALILSPTRELSQIHDEAR**KFSYQTGVKVVVAY
GGAPINQQLRELERGVDILVATPGR**LVDLLER**ARVSLQMIRYLALDEADR**MLDMGFEPQIR**KIVEQMDM
PPPGVRQTMLFSATFPKEIQRLASDFLSSYIFLAVGRVGSSTD LIVQRVEFVHESDKRSHLMDLLHAQR
ANGAHGKQSLTLVFVETKKGADSLEHWLCMNGFPATTIHGDR TQQEREHALRSFK**SGNTPILVATDVAA**
RGLDIPVVAHVNFNFDLPNDIDDYVHRIGRTGRAGK**TGLATAFFNENNSLAR**PLADLMQEANQEVPAWL
TRYASR**ASYGGGK**NRRSGGGRFGGRDFRKDTSFNRGGGATDYGGNTSSGYGIPGSYGGGYGPGVTSAW
D

Protein No.: I-413

Protein name and Species:

Urease accessory protein ureG OS=Morus alba GN=ureG PE=2

SV=1

Accession: tr|B9A9C9|B9A9C9_MORAL

Unused ProtScore: 5.62

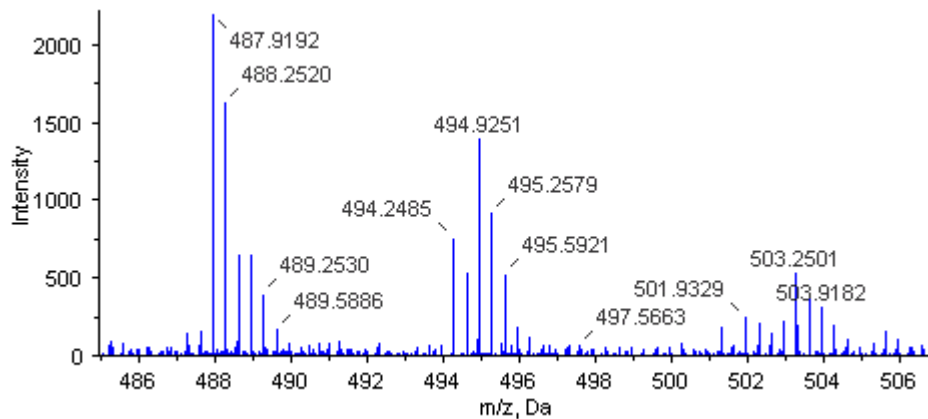
Seq Cov %: 15.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.64

116: 114=E5TL: D5TL=1.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASDDHHHHHDHHHHHDHDHDHHDHHSRTGAWVGPDRVYHSHDGLAPHSHEPIYSPGSFSK**RAPPLL**
TRDFNERAFTTIGIGGPVGTGKTALMLALCKFLRDKYSLAAVTNDIFTKEDGEFLVKNGALPEERIR**AVE**
TGGCPHAAIREDISINLGPLLEELSNL**FKADILLCESGGDNLAANFSR**ELADYIIYIIDV**SAGDK**I**PRKG**
GPGITQADLLVINK**TDLAPAVGADLAVMER**DALRMR**DGGPFVFAQVK**HGVGIEEIVNHVLQAWAATGK
KRH

Protein No.: I-414

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_580946 PE=4 SV=1

Accession: tr|B9N3J3|B9N3J3_POPTR

Unused ProtScore: 5.61

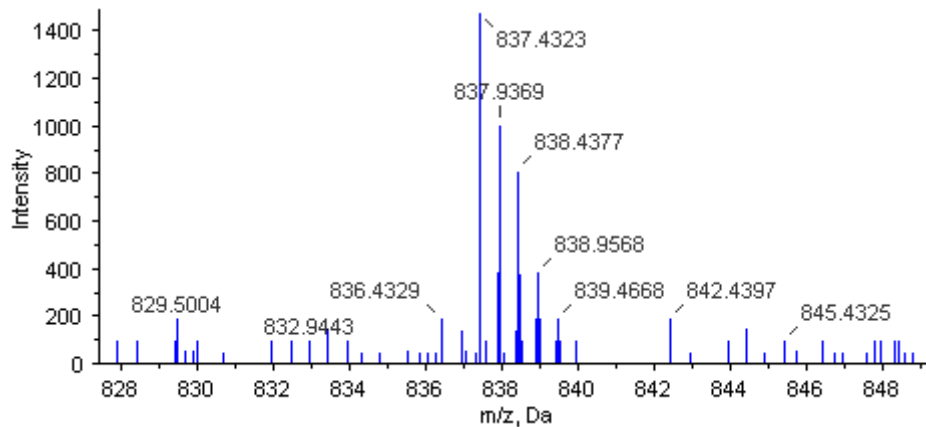
Seq Cov %: 7.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.41

116: 114=E5TL: D5TL=1.27

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGVDYYNTLKVDKNAKDEDLKKAYRKLAMKWHDPKNPNNKKEAEAKFKQISEAYEVLSDPQKRAIYDQY
GEEGLKGQVPPPETGGPGGATFFFSTGDGPATFRFNPRNADDIFAEFFGFSSPFGGMGGGGGMRGGSRS
FGGMFGDDIFSSFGEARPTNPAPRKAPPIENTLPCSLLEELYKGTTKMKISR EIVDVSGLTLPVEEILT
IDIKPGWKRGTKITTFPEKGNEQPNVIPADLVFVIDEKPHSTFTREGNDLVVTKKIPLVEALTGCTVHLT
TLDGRTLTIPVNNVIHPNYEEVVAKEGMPIPKDPSTRGNLR IKFDIKFPTRL SAEQKSGIKKLLNS

Protein No.: I-419

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_825512 PE=4 SV=1

Accession: [tr|B9IJM2|B9IJM2_POPTR](#)

Unused ProtScore: 5.57

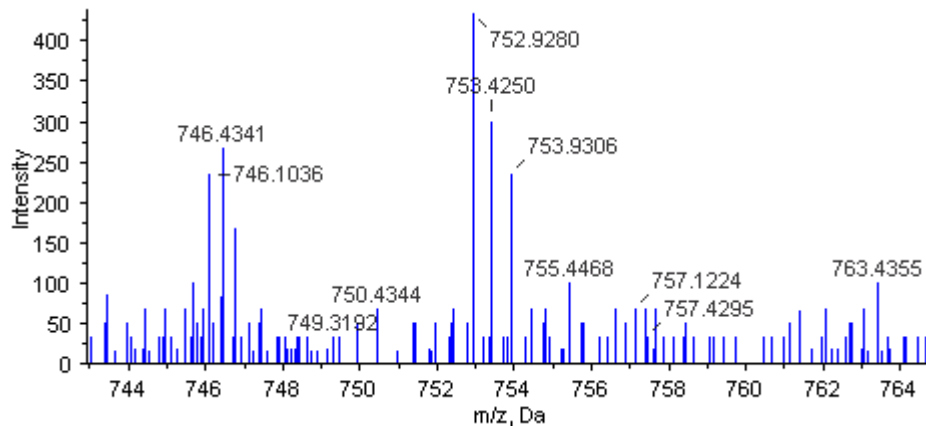
Seq Cov %: 11.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.41

116: 114=E5TL: D5TL=0.73

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEGAEATRIMMGVNESTIKGYPHASISSR**GAFDWTLQK**I VRSNTSGFKLLFLHVQVPDEDGFDDMDSL
Y ASPEDFKNMKHRDRTR**GLHLLEYFVNR**CHEIGVACEAWIKKGDPK**EVICHEVK**RVQPDLLVVGSR**GLGP**
FQRFVGTIVSEFCQKHAEC**PVISIK**RA**DETPQDPVDD**

Protein No.: I-422

Protein name and Species:

Aspartic protease (Fragment) OS=Manihot esculenta PE=2

SV=1

Accession: tr|Q94KV2|Q94KV2_MANES

Unused ProtScore: 5.53

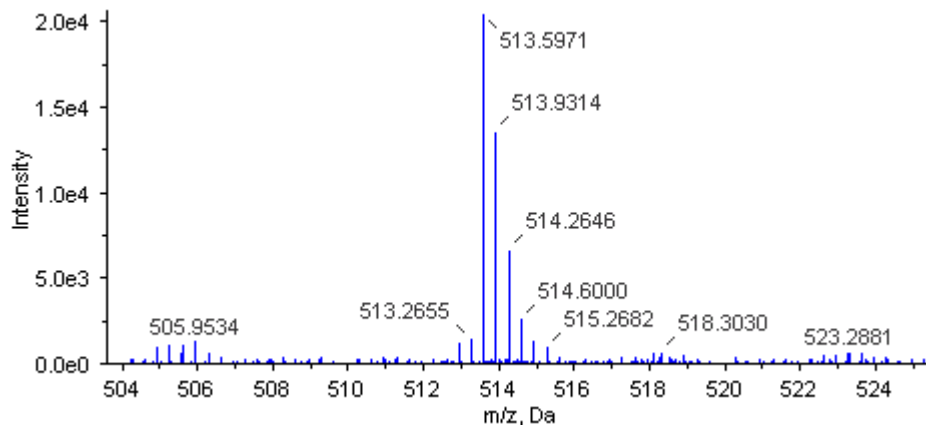
Seq Cov %: 43.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.25

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

CTFDGSRGVSMTIESVNVNENSQEVAGSLHDAMCSTCEMAVIWMQNQLKQNTLERILNYANELCERLPS
PMGESAVDCGSLSTMPNVSF**TIGGK**VFDLSPEQYVLKVGEGEAAQ**CISGFTALD**VPPPRG**PLWILGDVF**
MGRFHTVFDYGNLRVGFAEAA

Protein No.: I-424

Protein name and Species:

Vacuolar H⁺-ATPase catalytic subunit A; V-type proton ATPase catalytic subunit A-like OS=Populus trichocarpa

Accession: tr|B9HV14|B9HV14_POPTR

Unused ProtScore: 5.45

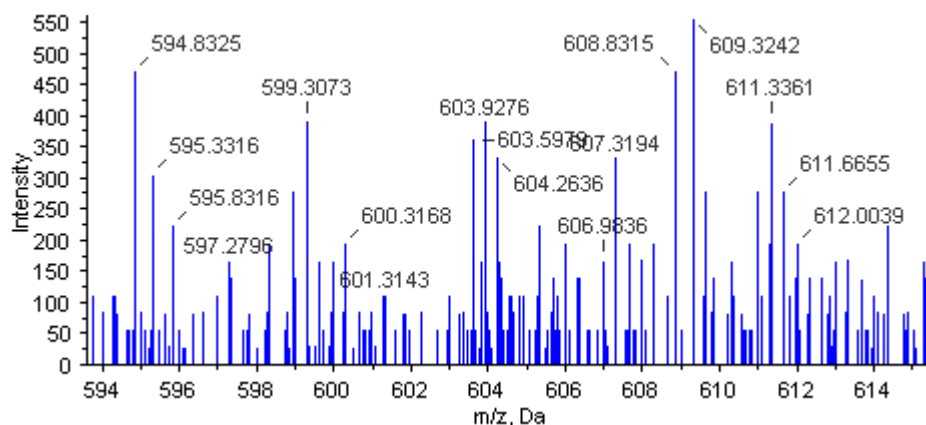
Seq Cov %: 43.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.02

116: 114=E5TL: D5TL=2.08

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPSVYGARLTTTFEDSEKESYGYVRKVSQPVVADGMAGAAMYELVRVGHNDNLIGEIIIRLEGHSATIQV
YEETAGLMVNDPVLRTHKPLSVELGPGILGNIFDGIQRPLKTIARI SGDVYIPRGVSVPALDKDTLWEF
QPKKIGEGDLVTGGDLYATVFENTLMQHHVALPPDAMGKITFIAPPGQYSLKDTVLELEFQGVKQFTM
LQTPVRSRPPVASKLAADTPLL TGQRVLDALFPSVLGGTCAIPGAFGCGKTVISQALSKYSNSDTVVY
VCGGERGNEMA EVLMDFPQLTMTLPDGR EESVMKR TTLVANTSMPVAAR EASITYGTITIAEYFRDMGY
NVSMMADSTSRWAEALREISGR LAEMPADSGYPAYLAARLASFYERAGKVKCLGSPERTGSVTIVGAVS
PPGGDFSDPVT SATLSIVQVFWGLDKKLAQRKHFPSVNWLISSYKYSGALESFYERFDPDFINIRTKAR
EVLQREDDLNEIVQLVGDAL AETDKITLETAKLLR EDYLAQNAFTPYDKFCDFYKSVWMMRNI IHFCN
LANQAVERGAGMDGQKISYSLIKHRLGDLFYRLVSQKFEDPAEAGEAVLVEKFSKLHEDLTAGFRALEDE
TR

Protein No.: I-426

Protein name and Species:

Enolase 2 OS=Hevea brasiliensis GN=ENO2 PE=1 SV=1

Accession: sp|Q9LEI9|ENO2_HEVBR

Unused ProtScore: 5.44

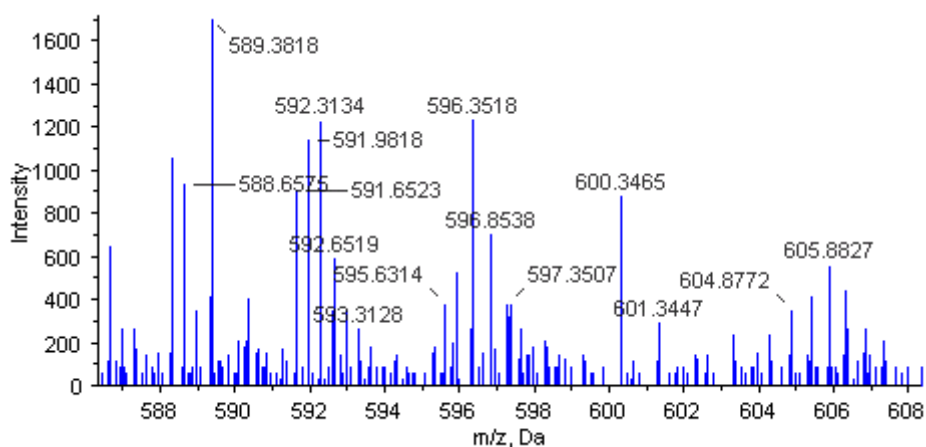
Seq Cov %: 42.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.41

116: 114=E5TL: D5TL=0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAITIVSVRARQIFDSRGNPTVEADVKLSDGYLARAAVPRGASTGIYEALELRDGGSDYLKGVSKAVE
NVNIIIGPALVGKDPDQVGIIDNFMVQQLDGTVNEWGWCKQKLGANAILAVSLAVCKAGAHVKGIPLYK
HVANLAGNKNLVLVPAFNVINGGSHAGNKLAMQEFMILPVGASSFKEAMKMGAEVYHHLKSVIKKKYG
QDATNVGDEGGFAPNIQENKEGLELLKTAIAKAGYTGKVVIGMDVAASEFYGSDKTYDLNFKENNNGS
QKISGDVLLKDLKYSFVTEYPIVSIEDPFDQDDWEHYAKLTSEIGVKVQIVGDDLLVTNPKRVEKAIKEK
ACNALLKVNQIGSVTESIEAVKMSKRAGWGMASHRSGETEDTFIADLSVGLATGQIKTGAPCRSERL
AKYNQLLRIEEELGAEAVYAGANFRTPVEPY

Protein No.: I-429

Protein name and Species:

**alpha-galactosidase-like isoform 1 [Glycine max] OS=Glycine
max PE=2 SV=1**

Accession: tr|C6TFR0|C6TFR0_SOYBN

Unused ProtScore: 5.42

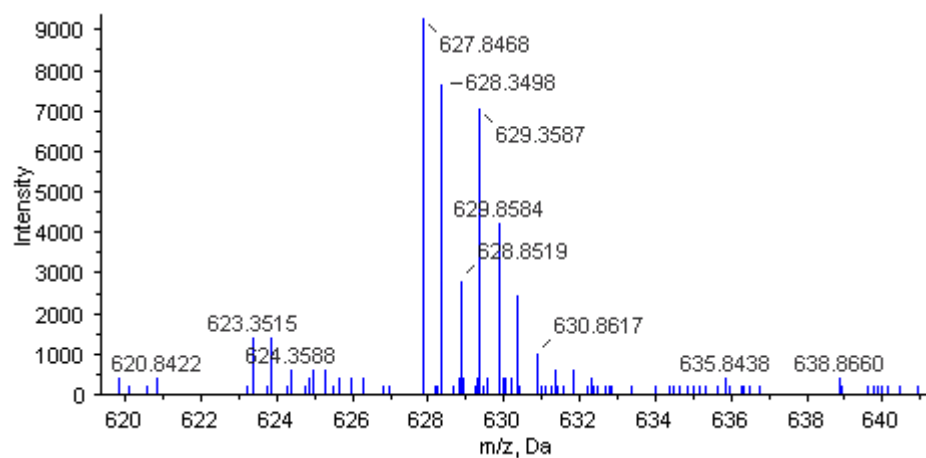
Seq Cov %: 8.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.43

116: 114=E5TL: D5TL=0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTKQKIRNALLVHLVILFFFSTSVVSARVVSLQNYGNPIFRSNFH**SIYDTSK**YGVFQLSNGLGKTPQM
GWNSWNFFACNIN**EMVIK**ETADALVSTGLADLGYVYVNIDDCWSSVTRNLKGQLVPDHKTFPSGIK**ALA**
DYVHGKGLK**LGIYSDAGVFTCQVR**PGSIFHETDDADLFASWGVVDYLK**YDNCYNLGI**PPKERYPPMRDAL
NATGQKIFYSLCEWGVEDPALWADKVGNSWRRTTGDINDSWASMTTIADLNDKWAAAYAGPGGWNDPDMLE
VGNGGMTYQEYRAHFSIWALAK**APLLIGCDVR**NLTGETLEILSNKEVIAINQDSLGVQGRKVQVSGADG
CRQVWAGPLSGNR**LAV**ALWNRCSKVATIT

Protein No.: I-436

Protein name and Species:

Betaine-aldehyde dehydrogenase OS=Gossypium hirsutum

PE=2 SV=1

Accession: tr|Q6S9W9|Q6S9W9_GOSHI

Unused ProtScore: 5.37

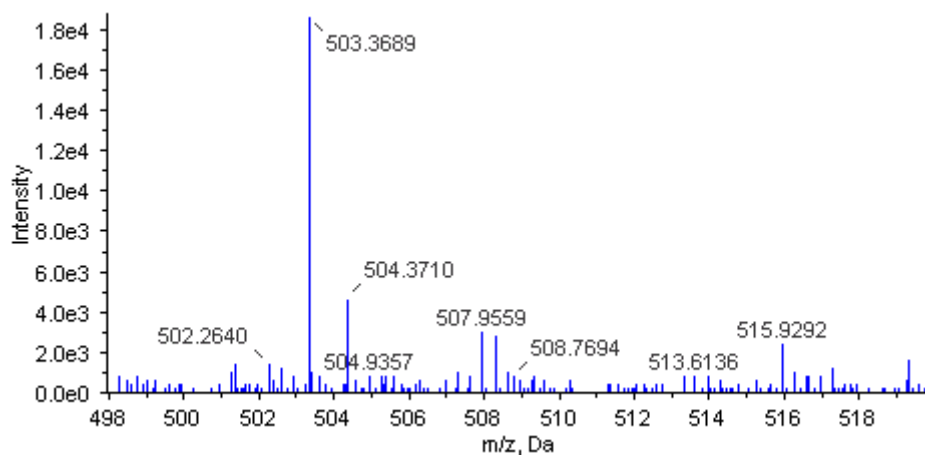
Seq Cov %: 7.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=1.35

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAVQVPSRQLFIDGEWREPIPKERLPTINPATEEIIIGNIPAATAEDVELAVAAARRALSRNKGKDWATA
PGAVRAKYLRAIAAKVTERKTELAKLEAIDCGKPLDEAVWDIEDVAGCFEYYADLAEGLDARQKAPVSL
PMETFKSYVLKEPIGVVGLITPWNYPILLMATWKVAPSLAAGCAAILKPSELASITCLELAKVVKGSRLP
PGVLNLAGLGPEAGAPLASHPDVDKIAFTGSSATGSKIMAAAAQMVKPVSLLELGGKSPIIVFEDVDLD
KAAEWTAFGCFWTNGQICSATSRLIVHENIAREFLDRLVKWTKNIKISDPFEEGCRLGPVVS GGQYEV
LKFISTAKSEGATILSGGVRPEHLKKGFFVEPTIITDVTSMQIWR EEVFGPVL CVK TFRTEEEALELA
NDTHYGLGAAVISNDLERCDRVSKNLQAGIVVWNCSPFCFCQAPWGGNKRSGFGRELGEWGLDNYLSVK
QVTQYVSDEPWGWYRSPSKL

Protein No.: I-437

Protein name and Species:

2-hydroxyphytanoyl-CoA lyase, putative OS=Ricinus communis

GN=RCOM_0466960 PE=3 SV=1

Accession: tr|B9SPZ1|B9SPZ1_RICCO

Unused ProtScore: 5.35

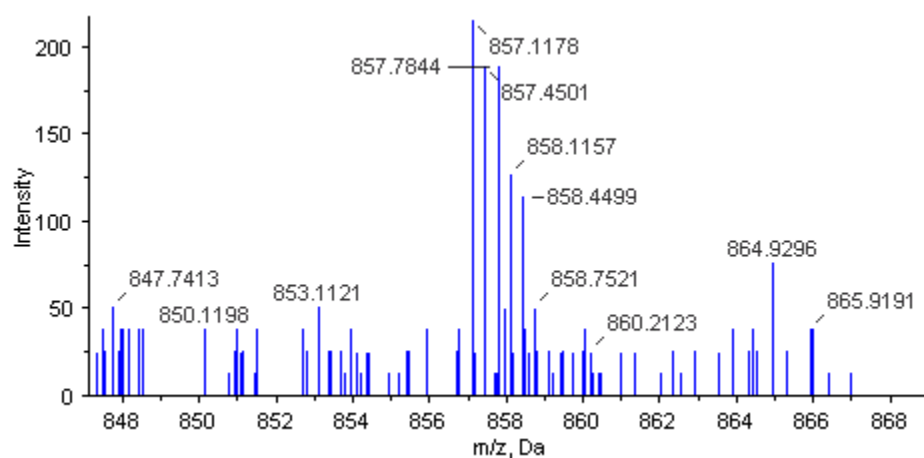
Seq Cov %: 12.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.45

116: 114=E5TL: D5TL=0.61

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADSNPQNAPESRIDGNILAAKSLARYGVTHMFGVVGIPVTSANR**AVSLGIR**FVAFHNEQSAGYAASA
YGYLTGKPGLLLTVSGPGCVHGLAGLSNAMVNTWPMVMISGSCDQNDVGKGFQELDQIEAVKPFVKFS
VKVKDIK**EIPNCVFQVLDR**AVSGRPGGCYLDIPSDVLHQTVDESEAESLLS**DAFK**PKSIVNEFNTKSSD
FERAAELLRTAER**PLIVFGK**GAAAYARAESELKKLVELTGIPFLPTPMGKGILPDNHELAASAARSLAIG
K**CDVALVVGAR**LNWLLHFGQPPKWSKDVKFILVDVCEDEIELRKPFLGL**VGDAKKVLEIINKEIKDDPF**
CLAKNHPWVEAISSKVKENVSR**MESQLAKNVVPENFLTPMR**IIR**DAILGVGSPAPIVVSEGANTMDVGR**
AVLVQTEPRTRLDAGTWGTMGVGLGYCIAAAVAEPNRLVVAVEGDSGFGFSAMEVETLVRYKLPVVIV
FNNGGV**YGGDRR****SPEELIAGPFK**DDPAPTSFVPGAAYHILIK**AFGGK**GYLVA TPDELK**SALSESFSAREP**
TVINVTIDPYAGAESGRLQHK

Protein No.: I-439

Protein name and Species:

**Calcium-dependent protein kinase 5; CDPK OS=Arabidopsis
thaliana GN=CPK5 PE=1 SV=1**

Accession: sp|Q38871|CDPK5_ARATH

Unused ProtScore: 5.34

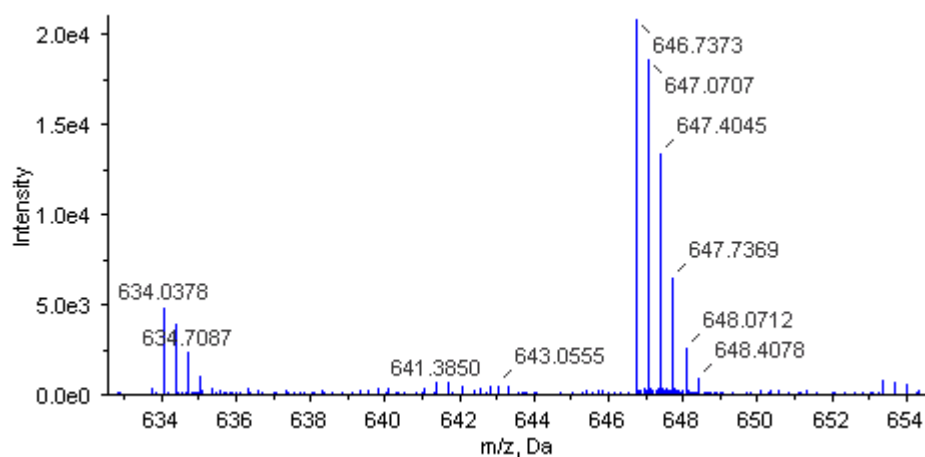
Seq Cov %: 9.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.58

116: 114=E5TL: D5TL=2.14

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGNSCRGSFKDKLDEGDNNKPEDYSKTSTTNLSSNSDHSNAADI IAQEF**SKDNNSNNNSK**DPALVIPL
REPIMRRNPDNQAYYVLGHKTPNIRDIYTL**SRKLGQGQFGTTYLCTE**IASGV**DYACKSISKRKLISKED**
VEDVRREIQIMHHLAGHGSIVTIK**GAYEDSLYVHIVMELCAGGELFDRI**IQRGHYSERKA**AELTKIIVG**
VVEACHSLGVMHRDLK**PENFLLVNKDDDFSLK**AIDFGLSVFFKPGQIFTDVVGSPYYVAPEVLLKRYGP
EADVWTAGVILYILLSGVPPFWAETQQGIFDAVLKGYIDFESDPWPVISDSAKDLIRRLMLSSKPAERLT
AHEVLRHPWICENGVAPDRALDPAVLSRLK**QFSAMNK**LKKMALK**VIAESLSEEEIAGLREMFQAMTDN**
SGAITFDELKAGLRKYGSTLKDTEIHDLMDAADVDNSGTIDYSEFIAATIHLNKLEREEHLVAAFQYFD
KDGSGFITIDELQQACVEHG**MADVFL****LEDLIK**EVDQ**NNDGKIDYGEFVEMMQGNAGVGR**RTMRNSLNIS
MRDA

Protein No.: I-441

Protein name and Species:

O-linked n-acetylglucosamine transferase, ogt, putative

OS=Ricinus communis GN=RCOM_1259290 PE=4 SV=1

Accession: tr|B9SX16|B9SX16_RICCO

Unused ProtScore: 5.34

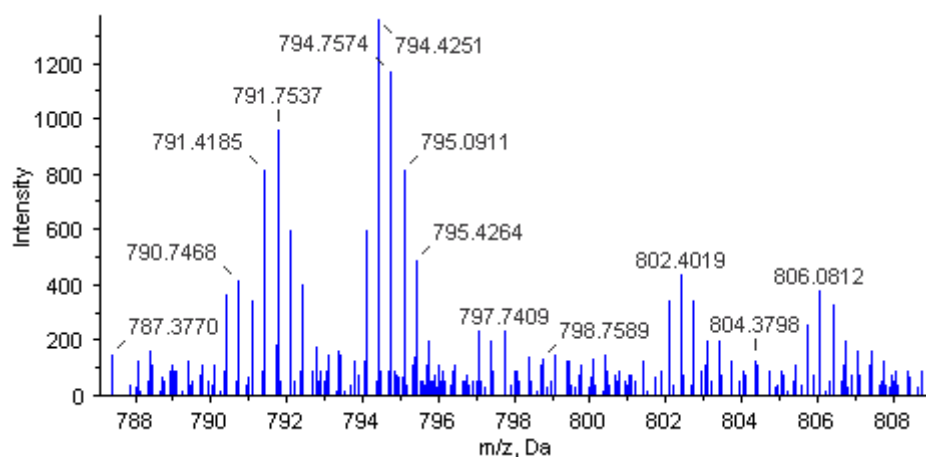
Seq Cov %: 8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.10

116: 114=E5TL: D5TL=0.39

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAWTEKNNNGNGKEGGPIEDNGFLKGTQEPSPSASGSPV**AVAAGLKGIEEK**DSLSY**ANILR**SRNK**FVDAL**
AIYESVLEKDSGNVEAYIGKGI CLQM QNMGR**LAFDSFAEAIK****LDPQNACALTHCGILYK**EEGRIVEAAE
SYQKALRADPLYKPAAECLSIVLTDLGTSLK**LSGNTQEGIQK**YYEALKIDPHYAPAYYNLGVVYSEMMQ
YDTALNCYEKAALERPMYAEAYCNMGVIYKNR**GDLESIAICYER**CLAVSPNFEIAKNNMAIALTDLGTK
VK**LEGDINQGIAYYK**KALYYNWHYADAMYNLGVAYGEMLKFDNAIVFYELAFHFNPHCAEACNNLGVIIY
KDRDNLDKAVECYQTALS IKPNFSQSLN NLGVVYTVQGM DAAA SMIEK**AIMANPTYAEAYNNLGVLYR**
DAGNIPMAINAYEQCLKIDPDSRNAGQNRL LAMNYI**NEGHD**EKLFEAHRDWGRRFMRLYPQYTMWDNPK
DLDRPLVIGYVSPDYFTHSVSYFIEAPLVYHDYANYKVVVYSAVVKADAKTIRFREKVLKQGGIWRDIY
GIDEKKVASMVREDNVDILVELTGHTANNKLGMMACRPAPIQVTWIGYPNTTGLPTIDYR**ITDSLADPR**
DTKQKHVEELVRLPDCFLCYTPSPEAGPVCPTPALANGFITFGSFNNLAKITPKVLQVWARILCAVPNS
RLVVKCKPFCCDSVRQRFLTMLEELGLESRLRVDLLPLILLNHDHMQA YSLMDISLDTFPYAGTTTTCES
LYMGVPCVTMAGAIHAHNVGVSLLSKVGLGHLVAQNEDNYVQLALQLASDIPALSNLRMSLRDLMSKSP
VCDGSKFTLGLESSYRDMWHRYCKGDVPSLKRME LLKQK GSEAVPNENFEPTRNAFPVEGPPESVKLN
GYNIVSSSILNRSSEENVSQTLNHTTNSDKPS

Protein No.: I-447

Protein name and Species:

Triosephosphate isomerase OS=Vitis vinifera

GN=VIT_13s0019g01090 PE=3 SV=1

Accession: **tr|D7TLU7|D7TLU7_VITVI**

Unused ProtScore: **5.22**

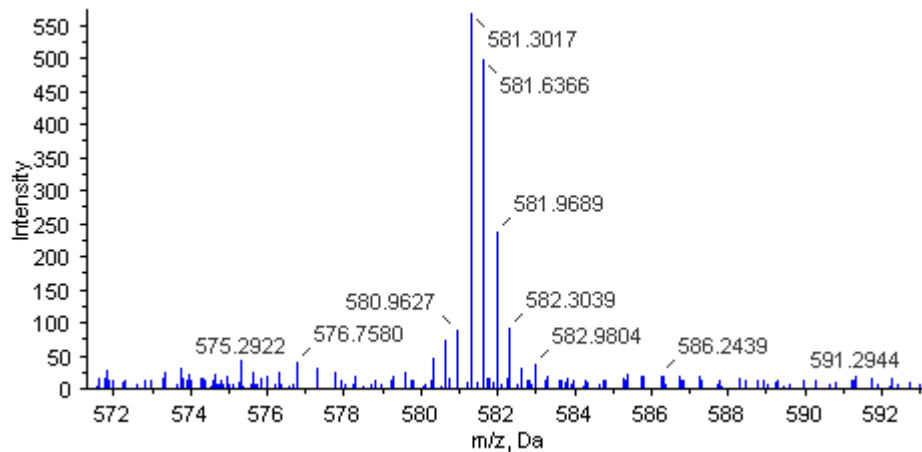
Seq Cov %: **16.1**

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.21

116: 114=E5TL: D5TL=0.17

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in **different color**

MGRK**FFVGGNWK**CNGTGEVKKIVSTLNAGEVPSGDVVEVVVSPPFVFLPLVKSTLRPDFHVAAQNCWV
KKGGAFTGEISAEMLVNLGIPWVVIIGHSEERR**LLLNESNEFVGEKVAYALSKGLKVIACVGETLEQRESG**
STMEVVAAQTKAIADKVSNNWANVVLAYEPVWAIGTGK**VATPAQAQEVHSELR**NWFQANASPEVAATIRI
IYGGSVSGANCKELAAKPDVDGFLVGGASLKP**EFIDI**IK**SAEVK**KNC

Protein No.: I-448

Protein name and Species:

Serine-threonine kinase receptor-associated protein, putative

OS=Ricinus communis GN=RCOM_0897280 PE=4 SV=1

Accession: tr|B9RUZ3|B9RUZ3_RICCO

Unused ProtScore: 5.22

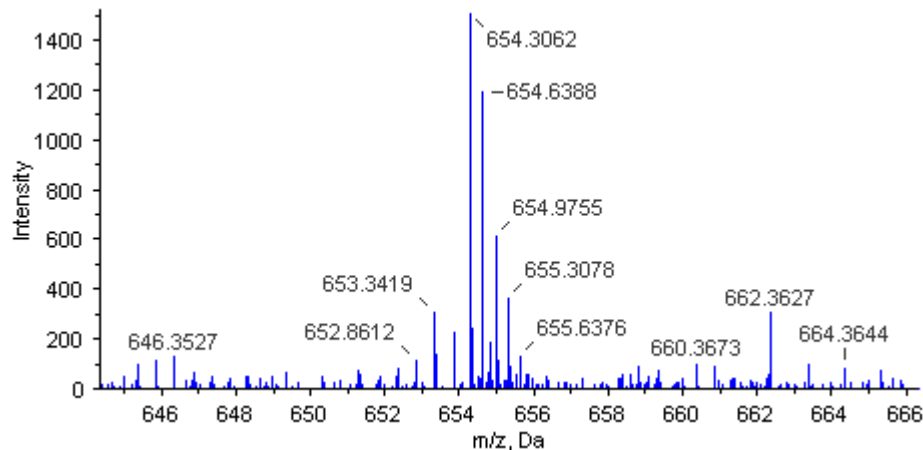
Seq Cov %: 17.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=9.73

116: 114=E5TL: D5TL=2.08

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDKK**KVAVPLVCHGH**SRPVVDLFYSPVTPDGFLLISASKDSSPMLRNGETGDWIGT**FEGHK**GAVWSCSL
DTKALR**AASASADFTAK**LWDALTGDELHSFEHRHIVRACAFSEDTHTLLLTTGGMEKILRLFDLNRPDAPP
REVNSSPGSIRTVAWLHSDQITILSSCTDMGGVRLWDIRSGK**IVQTL**ETK**SPVTS**AEVS**QDGRYIT**TADG****
STVKFWDANHFGLVK**SYNMP**CNVESASLEPK****LGNKFVAGGEDMWIHVFD**FHTGEQIGCNKGHHGPVHCL**
R**FSPGGESYASG**SEDGTIR****IWQ**TGPQNH**DEN**GPTGK**AMASADDVTQKIKGKGKTAGTDP

Protein No.: I-449

Protein name and Species:

40S ribosomal protein OS=Populus trichocarpa

GN=POPTRDRAFT_814470 PE=2 SV=1

Accession: [tr|A9PGL4|A9PGL4_POPTR](#)

Unused ProtScore: 5.22

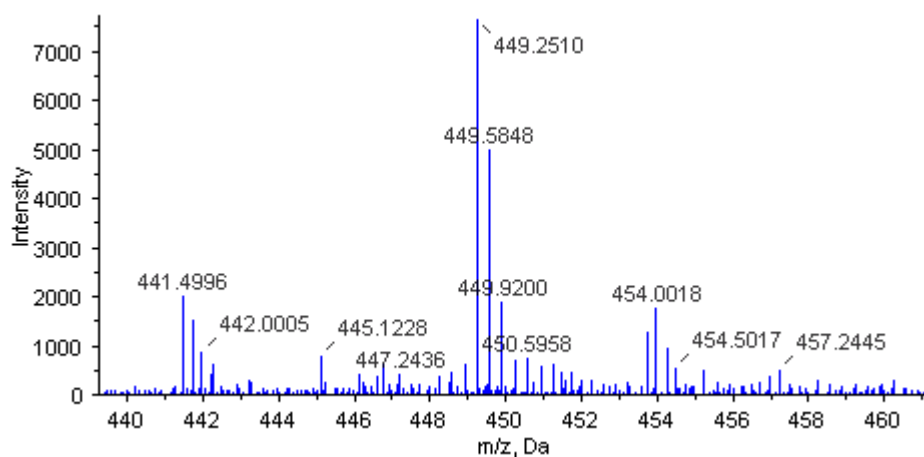
Seq Cov %: 21.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.56

116: 114=E5TL: D5TL=1.71

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATAKSVK**DVSPHEFVK**AYSAHLKRSGKIELPLWTDIVKTGKFK**ELAPYDPDWYYVR**AASMARK**IYIRG**
GLGVGAFRRIYGGSKRNGSRPPHFCKSSGSIARHILQQQLQNVNIID**IDPK**GGRR**ITSSGQR**DLQVAGR
IVVAP

Protein No.: I-453

Protein name and Species:

quinone oxidoreductase, putative OS=Populus trichocarpa

GN=POPTRDRAFT_826614 PE=4 SV=1

Accession: tr|B9MU39|B9MU39_POPTR

Unused ProtScore: 5.19

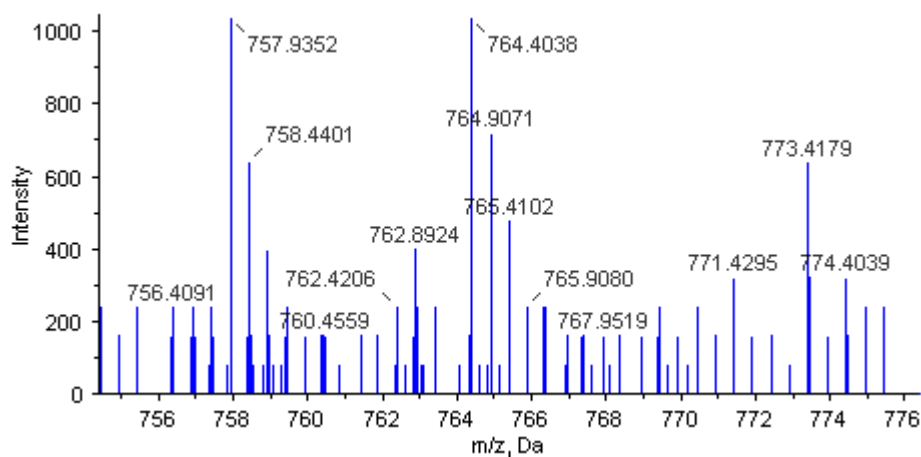
Seq Cov %: 20.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.38

116: 114=E5TL: D5TL=0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVKAIR**VHELGGPEVLK**WEDVEIGEPGEGERVKNKAIGLNFIDVYYRKGVYTASTMP**FIPGR**EAVGEV
IAVGPGLTGRKVGDVVAYAGDPMGSYAEEQILPANKVVSVPESISPVIAASVMLKGMTTQFLLRRCFKV
EPGHTILVHAAAGGVGSLLCQWANALGATVIGTVSTKEKAAQAKEDGCQHVILYQEE**DFVAR**VNEITSC
NGVDVVYDSVGK**DTFQGS**L**ACK**TR**GYMVSFGQSSGTPDPVPLSALAPK**SLFLTRPSMMHYNQTRDELL
GAAGELFSALASGVLRRVR**VNHTYPLSQAAQAHADIESR**KTTGSVVLIP

Protein No.: I-456

Protein name and Species:

Beta-1,3-glucanase OS=Hevea brasiliensis GN=Glu I PE=4 SV=1

Accession: tr|Q7XJ83|Q7XJ83_HEVBR

Unused ProtScore: 5.16

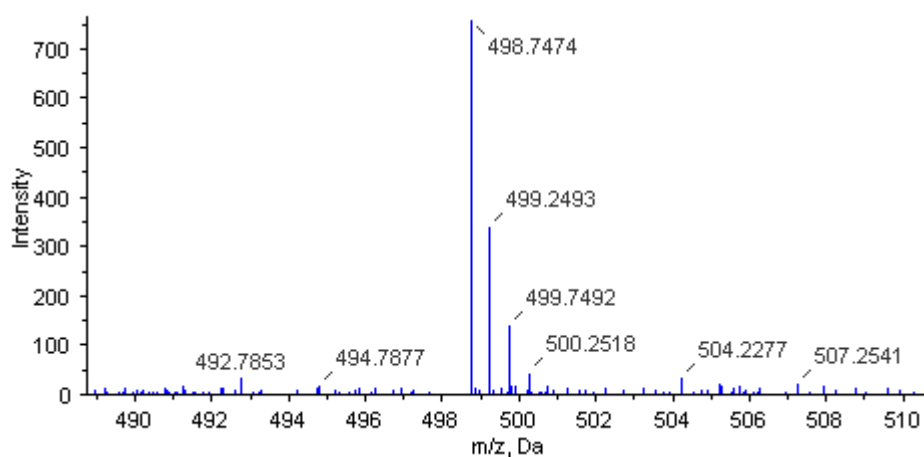
Seq Cov %: 59.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.13

116: 114=E5TL: D5TL=0.65

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAISSSTSGTSSSLPSRTTVMLLLIFFTASLGITDAQVGVICYGMQGNLPPVSEVIALYKQSNIKRMR
YDPNRAVLEALRGSNIELILGVPNSDLQSLTNPSNANSWWQKNVRGFWSSVLFRYIAVGNEISPVNGGT
AWLAQFVLPAMRNIHDAIRSAGLQDQIKVSTAILDLTLVGNSYPPSAGAFRDDVRSYLDPIIGFLSSIRS
PLLANIYPYFTYAGNPRDISLPYALFTSPSVVWDGQRGYKNLFDATLDALYSALERASGGSLVWVSE
SGWPSAGAF AATFDNGRTYLSNLIQHVKGGTPKRPNRAIETYL FAMFDENK KQPEVEKHFGLFFPDKRP
KYNLNFGAEKNWDISTEHNATILFLKSDM

Protein No.: I-459

Protein name and Species:

ATP-citrate synthase beta chain OS=Populus trichocarpa

GN=POPTRDRAFT_656642 PE=4 SV=1

Accession: [tr|B9HIN6|B9HIN6_POPTR](#)

Unused ProtScore: 5.11

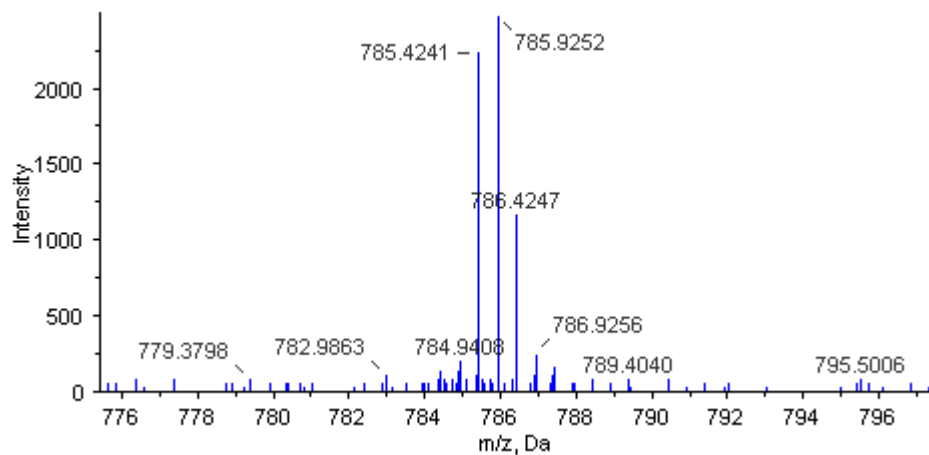
Seq Cov %: 38.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=0.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATGQLFSR**TTQALFYNYKQLPIQRMLDFDFLCGRELPSVAGIINPGAEGFQK**LFFGQEEIAIPVHSTI
EAACAAHPTADVFINFASFR**SAAASSMSALKQPTVRRVVAIIAEGVPEADAKQLIAYAR**ANNK**VVIGPAT**
VGGIQAGAFKIGDTAGTIDNIIACKLYRPGSVGFVSKSGGMSNELYNSIARVTDGIYEGIAIGGDVFPG
STLSDHVLRF**FNNIPQVKMIVVLGELGGRDEYSLVEALKQGK**VSKPVVAWVSGTCAR**LFKSEVQFGHAGA**
KSGGEMESAQAKNQALK**DAGAVVPTS YEAFETAIK****ETFEK**LVEEGK**ISSVK**EFTPPQIPEDLN**IAIK**SG
KVR**APTHIISTISDDR****GEEPCYAGVPM**SSIVEQGYGVDVISLLWFKRSLPRYCTHFIEICIMLCADHG
PCVSGAHNTIVTARAGK**DLVSSLVSGLLTIGPRFGGAIDDAAR**YFKDAYDR**GLTPYEFVESMK**KKGIRV
PGIGHRIKRGDNRDK**RVELLQLFAR****THFPSVK**YMEYAVQVETY**TLSK**ANNLVLNVDGAIGSLFLDLLAG
SGMFTKQEIDEIV**GIGYLNGLFVLARSIGLIGHTFDQK****RLKQPLYR**HPWEDVLYSK

Protein No.: I-467

Protein name and Species:

**COP9 signalosome complex subunit 1 [Vitis vinifera] OS=Vitis
vinifera GN=VIT_15s0048g01980 PE=4 SV=1**

Accession: [tr|D7U7I9|D7U7I9_VITVI](#)

Unused ProtScore: 4.99

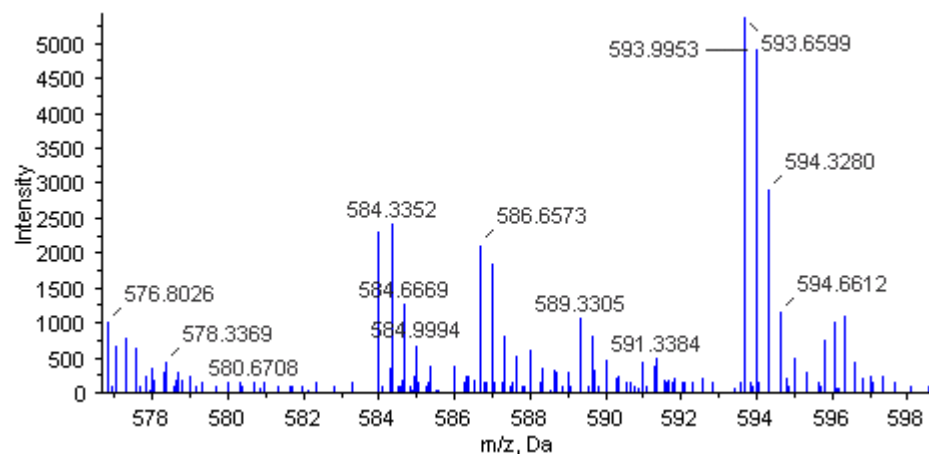
Seq Cov %: 7.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.59

116: 114=E5TL: D5TL=1.10

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEGEEESSAGAMIDEIYSNGGDAKRNRP IISGEALDIEAYASLYSGRTKITRLLFIADR CENRQMOMEA
YR MAYDEIKK GENTQLYREVVQKIDGRLGPQYGLDLVWTESVERRADQRKEK LENELNAYR TNLIKESI
RMGYNDFGDFYYAHGLLADAFKNYVRTRDYCTTSKHI IHMCLNAILVSIEMGQFTHVTSYVSKAEQTPE
ALDPVTVAKLRC AAGLAHLEAK KYKLAARKFLETGAELGNNYTEVIAPQDVATYGGLCALASFDRTELK
NKVIDNLFNRNFLELVPEVRELIHDFYSSHYASCLDYLGNLKTNNLLLDIHLHDHVEMLYNQIRHKALIQ
YTHPFVSVDLRMMANAFKTSVAGLEK ELEALITDNQIQAR IDSHNK ILYAR HADQRNATFQVRLQTGNE
FDRDVRAMLLRANLLKHEYNLRASRKP

Protein No.: I-475

Protein name and Species:

Amidase, putative OS=Ricinus communis GN=RCOM_1431340

PE=4 SV=1

Accession: tr|B9RF45|B9RF45_RICCO

Unused ProtScore: 4.89

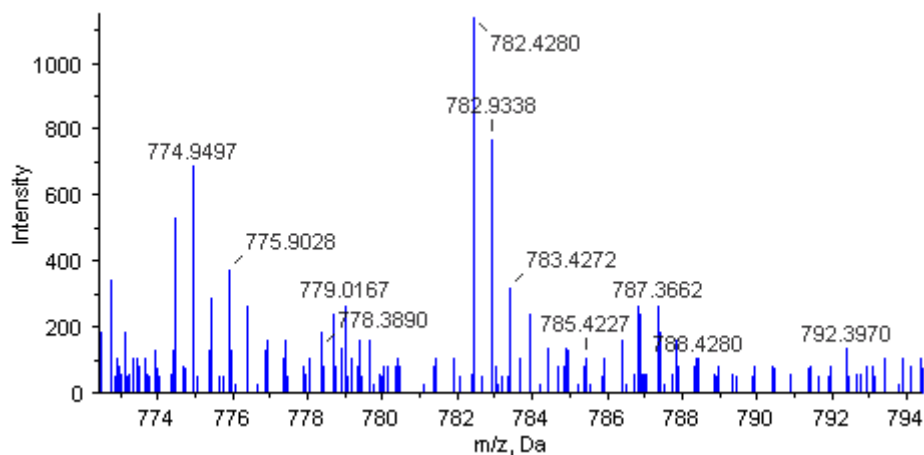
Seq Cov %: 5.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.64

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTHQFYELAITLCCSVLSDSNQSPACQWIKGWPTENDQIVLWKIGRPAKAACQIDRESWDRAQSLTVRA
VTDMAISPDYGAFMEKFVLKPSSSSDQLPLHSLTFAVKDIFDVDGYVTGFGNPDWARTHSAATATAPAV
LAVLRGGATCVGKVMIDEMAYSINGENAHYGTPTNPSAPDRVPGSSSSGSAAVAVGAKLVDFSLGSDTGG
SVRVPASYCGILGFRPSHGVSVSGVIPMAQSFDTVGWFSRNPVILKHVGRLLLQLPDVDRTPNQIFI
AEDCFQLSSIPKKRVSQVLVKSVEKLFGGDIVKHVNLGDYVEDKVPSLRHFMSKEIKEQEYNIAPLAAL
SSAMRMLQRYEFKTNHGEWVTTVKPDFGPGPKERIWEAVRSTEENIDAFQSVRTELRAALTNLLEEFI
IAIPTVPGVPPKLNTPPTLEIFRAKAFSLLSITGVSFGCQVSIPLGMHDGLPVSISLLAKHGSDVFL
NVVETLYDTLQEEVCNI

Protein No.: I-478

Protein name and Species:

Ligatin, putative OS=Ricinus communis GN=RCOM_1045170

PE=4 SV=1

Accession: tr|B9SBV7|B9SBV7_RICCO

Unused ProtScore: 4.86

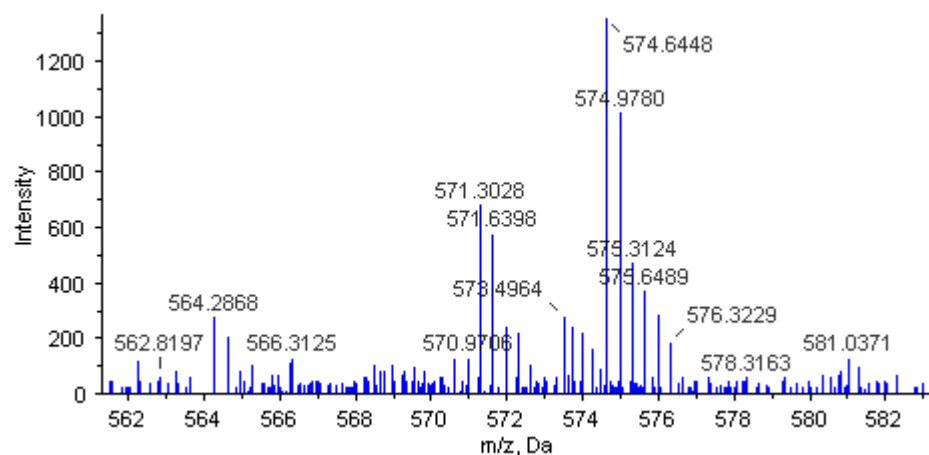
Seq Cov %: 5.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=1.06

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MFKKAVEAKSHQRLSGADRKKLKR SIRDKFPRASDADIDTLLPPKADITVAKFQNRVHVYGVVEGGFPMF
FDVDGRGTDIFPTVFALWNVPEFLPSFMLKGGEVSRYLGGADLMFPGISIPAEGLPFSFASAGEPWAVKV
PGNPAPIAVGSTTMSSEAIKAGLRGKALRITHYYRDLLWESVEGHYVPNAGFFEDVVFEDPAFTSSIQ
VSDSYETAYDVSNDQLNKVETDEIGESADVNDVISESHPSTITELDSKESKHDIIEQVTAVVSDMKVMD
NDTADESTIEEQHILSTGDVDAYLDKCLLQALHTTVKDKDLPMPGSTLWSNHVLP CRPPGVLLDIKKSS
HKKLSKWLQAKSSAGLISVKEDKYKKETVLI SINRSHPDYLSFKPEKRQEQKIDQAGDR**ATSESQSK**KM
LEVAEIYKPSVHVNP I FASVGADTGKLYTASEASDIVFN Y IEKENLVKPTNKS FVVL DATLCDALFKGT
VKK**GSTYPTEIHK**KDLGS**IFISRMQAHYIVTR**GSDSAIRKGLKTIQ**ILTER**RQGNKKVTKVSGLEQFL
MDAEALASELQKK**FACSTSVQELPGK**K**GNEVLIQGGVIDDVARHLVEQYGVPKRYIEVLDK**TKK

Protein No.: I-481

Protein name and Species:

Steroid dehydrogenase, putative OS=Ricinus communis

GN=RCOM_1082860 PE=3 SV=1

Accession: tr|B9RMR2|B9RMR2_RICCO

Unused ProtScore: 4.82

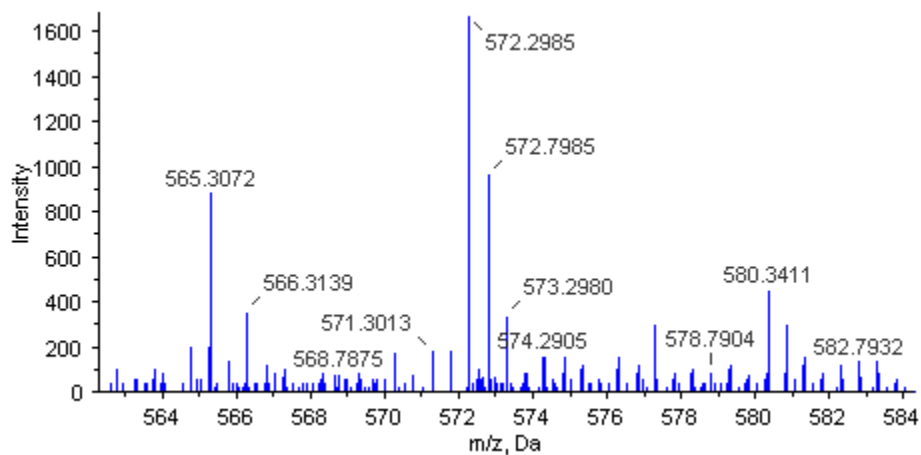
Seq Cov %: 5.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.40

116: 114=E5TL: D5TL=1.38

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MELCFVDK LKSQPLWFLVLFSLGSL SLLRCFF TILNWVYVNF LRPKNLKKYGSWALVTGPTDGIGKGF
AFQLARKGLN LVLVAR NPDKLKDVS DSILSKYGKVQIK TVVVD FSGDIDEGVKRIKDTVEGLDVGVLIN
NVGVSYPYAR FHEVDEELLK NLIKVNVEGT TTKVTHAVLP GMLKR KKGAIINIGSGAAIVIPSDPLYAV
YAATK AYIDQFSR CLYVEYK KSGIDVQCQV PLYVATK MASIRRSSFVPSTDDYARAGLRWVG YEP RCT
PYWPHSLIWGLISIVPEFAVDAWRYKFN LGIRKRGQQKDARKKE

Protein No.: I-482

Protein name and Species:

Importin alpha-2 subunit, putative OS=Ricinus communis

GN=RCOM_0819430 PE=4 SV=1

Accession: tr|B9SGQ4|B9SGQ4_RICCO

Unused ProtScore: 4.81

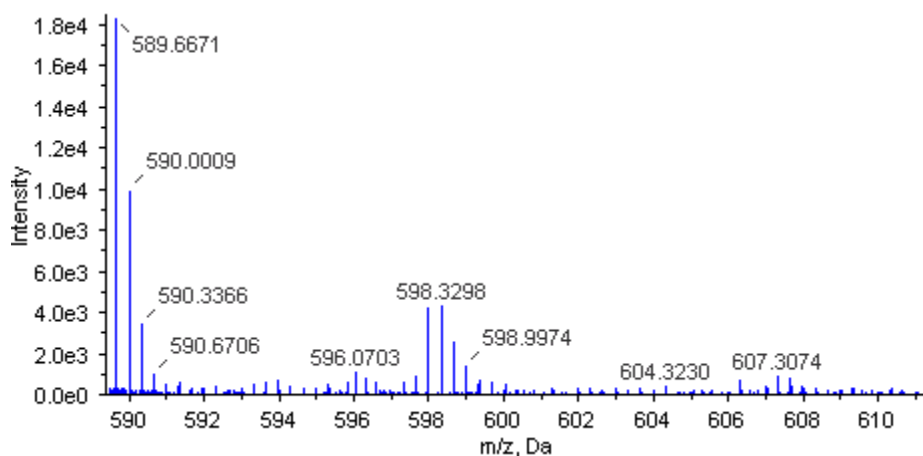
Seq Cov %: 11.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEGLTSLKREPIKSSVGNVAAQKRK**QNAVAVGKER**RESLVRAKRLCRVGTSGDSDSEMIIDEEQSIL
DAQTSSAVEELKSAVAFQGGAMQKKVGALRELRRLLSRSEFPPIEAAIKAGAIILLVQCLSFSGPDEQ
LLEAAWCLTNIAAGKPEETKALLPALPLLIAHLGERSSSPVAEQCAWALGNVAGEGEDLR**NVLLSQGAL**
PPLARMMLPNRGSTV**TAAWALS**NLIK**GPDPKAA**TELIRVDGVLDIVRHLRKADEELATEVAWAVVYL
SALSNVATSMVLKSDVLQLLIQ**RLATS**NSL**QLLIP**VLRSLGNLIAGDSHTISAVLLPGIEITDSIIAVL
VKCLKSEHRVLKKEAAWVLSNIAAGSVEHKQLIYCSEAVPLLLR**LLSTAP**F**DLR****KEVAY**VLGNLCVAPA
EGTGKPDLILEHLVSLVSRGCLPGFIDLVRSDTEAARLGLQFIELVLRGMPNGEGPKLVEQENGEAM
ER**FQFHENE**DLRNMANGLVDRYFGEDYGLTELTD

Protein No.: I-485

Protein name and Species:

Adenylyl cyclase-associated protein OS=Populus trichocarpa

GN=POPTRDRAFT_722043 PE=3 SV=1

Accession: tr|B9HRN7|B9HRN7_POPTR

Unused ProtScore: 4.79

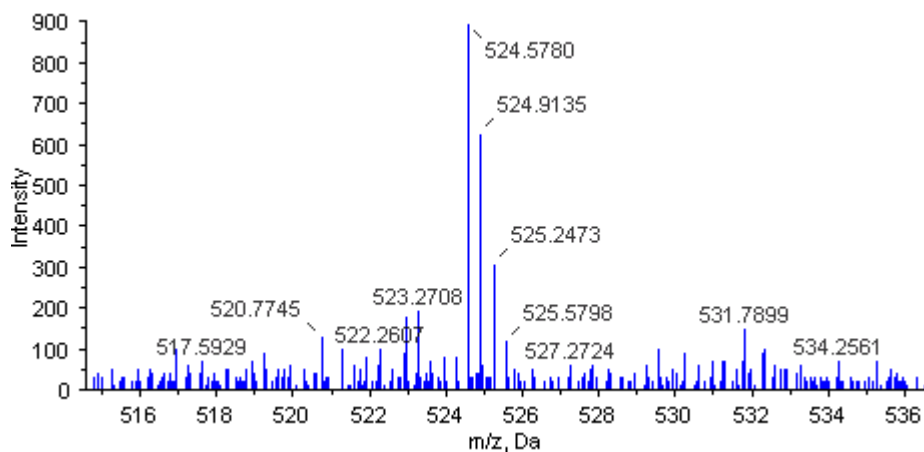
Seq Cov %: 8.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=0.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEEKLIER**LESAVAR**LEALSLRSGGLALSGGDDSAATDPSIVAFDDFIGTFFVRVSSAAEKIGGQVLEV
TRILEQALNVQKELLIKIKQTRKPDLAGLAEFLKPL**NEVIMKANAMTEGRRS**DFFNHLKAAADSLTALA
WIAYTGKDCGMSMPIAHVEESWQMAEFYSNK**ILVQYK**SKDPNHVEWAKALK**DLYLPGLR**DYVKSHYPLG
PVWSTTGK**ATASAPSKAPAPPPPPASLF**SSESSQPSSSKPKEGMAAVF**QEISSGK**SVTTGSLKKVTDD
MKTKNR**ADRTGVVAVTEK**GGRASAPSFASKAGPPK**LELQMR**KWVVENQIGKK**NLVIDDCDAKQSVYVFG**
CKDSVLQIQGK**VNNITIDK**CTKMGVVF^{TDVVAACEIVNCTGVEVQCQGSAPTISVDNTGGCQLYLSK}**DS**
LGASITTAKSSEINVLVPGAEPGGDLAEHALPQQFIHAFK**DGQFETTPVSHSGG**

Protein No.: I-487

Protein name and Species:

Mevalonate kinase, putative OS=Ricinus communis

GN=RCOM_1431350 PE=3 SV=1

Accession: tr|B9RF46|B9RF46_RICCO

Unused ProtScore: 4.74

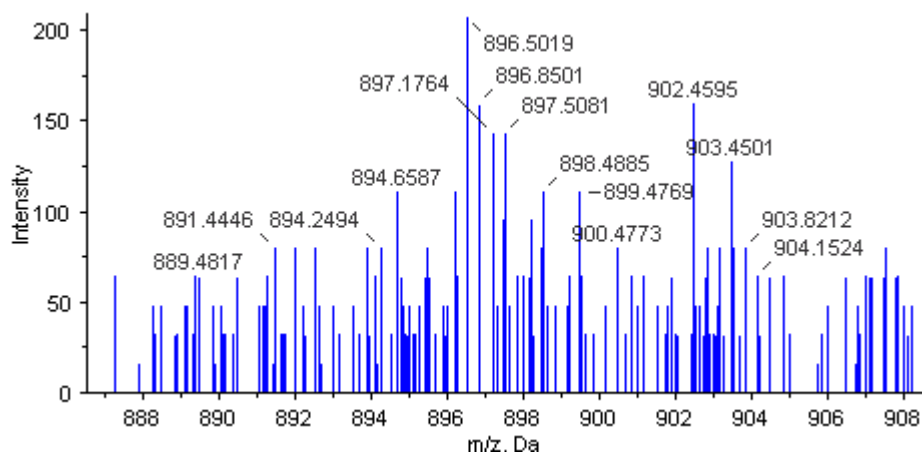
Seq Cov %: 10.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.66

116: 114=E5TL: D5TL=0.89

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEVKARAPGKIILSGEHAVVHGSTAVAAAALDLYTYVVISFPSSGNDGTLKLQK**DLALEFSWPVAK**IRE
ALPNLGVPSSSTPTSCSIESLK**SISALVEEQDIPEAK**IALASGVSAFLWLYTSIQGFEPATVVVTSCLP
LGSGLGSSAAYCVSLSAALLAFSDSDVDRGHQGWLKFGVDP**LELLNK**WAFEGEKIIHGK**PSGIDNTVS**
TYGNMIKFRSGNLTRMKSNMPLKMLITNTRVGRNTK**ALVAGVSER**TFRHPNAMSFFVNAVDSISNELAN
IIQSPAPDELSITEKEEMLEELMEMNQGLLQCMGVSHASIE TVLQTTLKYKLASK**LTGAGGGGCVLTL**
PTLLSGTVVDKVIAELESSGFQCLIAGIGGDGAEICFASSS

Protein No.: I-498

Protein name and Species:

Heat shock protein 90-2 OS=Glycine max PE=2 SV=1

Accession: [tr|B6EBD6|B6EBD6_SOYBN](#)

Unused ProtScore: 4.69

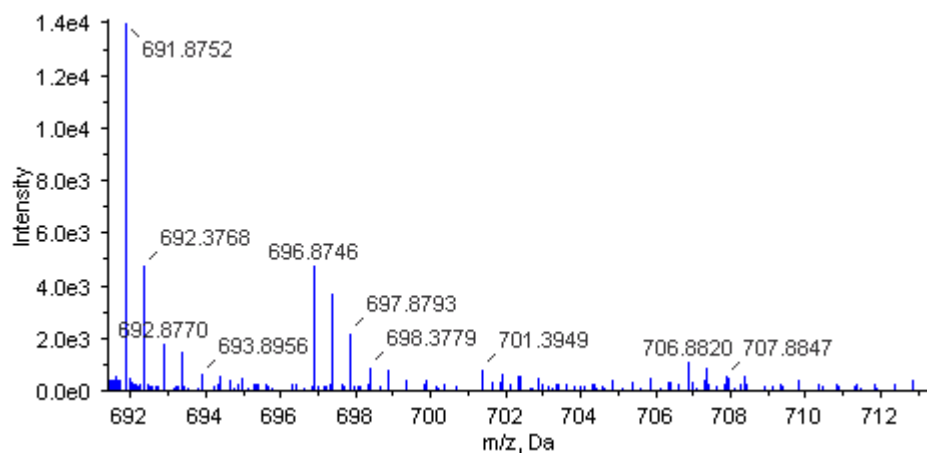
Seq Cov %: 30.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.10

116: 114=E5TL: D5TL=0.44

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASETETFAFQAEINQLLSLIINTFYSNK**EIFLR**ELISNASDALDKIR**FESLTDK**SK**LDAQPELFIHI**
PDKTNNTLSIIDSGIGMTKADLVNMLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVADKVIV
TTKHNDDEQYVWESHAGGSFTVT**RDTSGENLGRGTKITLFLKEDQLEYLEERRLKDLIKKHSEFISYPI**
SLWIEKTTTEKEISSDDEDEEEKKDEEGKVEDVDEDKEKEEKKKKTIK**EVSHEWSLVNK**QKPIWMRKPEEI
TKEEYAAFYKSLTNDWEEHLAVKHFSVEGQLEFKAVL**FIPKRAPFDLFDTK**KKPNNIKLYVRR**VFIMDN**
CEELMPEYLSFVKGIVDSEDLPLNISREMLQQNKILKVIRKNLVKCCIEM**FFEI**AENKEDYNK**FYEAFS**
KNLKLGIHEDSQNKTKLAELLRYHSTKSGDEMTSLKDYVTRMKEGQNDIYYITGESKKAVENSPFLEKL
KKKGFEVLY**MVDAID EYAVGQLKEFEGK****LVSATKEGLK**LDESEDEKKK**KEELKEKFEGLCHVIK**DVLG
DKVEKVVVSDRVVDSPCCLVT**GEYGWTANMER**IMKAQALRDSSMAGYMSSK**KTMEINPENPIMEELRKR**
ADADKNDKSVKDLVLLLLFETALLTSGFSLDDPNTFGNRIHRMLK**LGLSIDEDAGEADAMP**PLEDADAD
AEGSKMEEVD

Protein No.: I-503

Protein name and Species:

isoflavone reductase related protein OS=Populus trichocarpa

PE=2 SV=1

Accession: tr|A9PF66|A9PF66_POPTR

Unused ProtScore: 4.65

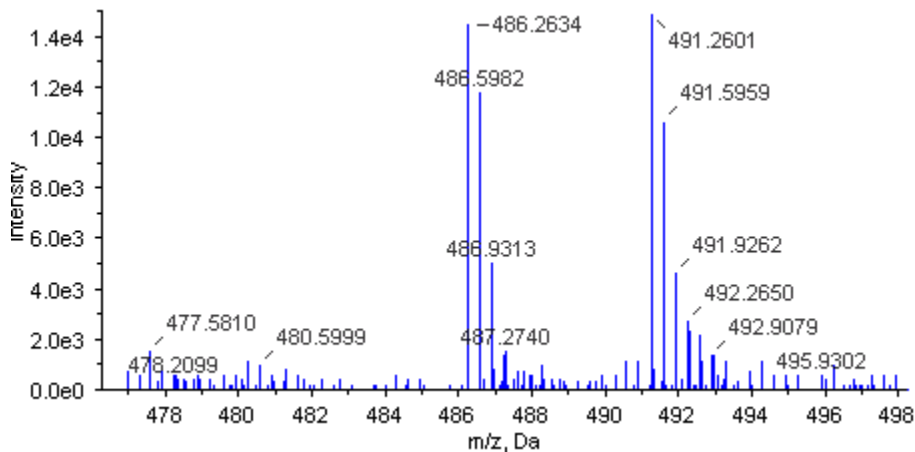
Seq Cov %: 4.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.69

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASKILFIGGTGYIGKFIVEASAKAGHPTFVLVRESTLSNPAK**SVVIDNFK**NLGVNFLIGDLFDHE**SLV**
KAIK**QVDVVI**STV**GHAQLVEQDR**IIAAIKEAGNVKR**FFPSEFGNDVDRVNAVEPAK**SAFATKANVRRAI
EAEGIPYTYVSSNFFSGYFLLSFNQPGATAPPRDK**VVILGDGNPKAVFNKEDDIATYTIK**AVDDPRTLN
KILYIKPPANTISFNDLVSLWEKKIGKTLER**IYVPEEQLLK**NIQEASVPVNVVLSIGHSVFVKGDHTNF
EIEPSFGVEASELYPDVKYTTVDEYLYKQFV

Protein No.: I-504

Protein name and Species:

Superoxide dismutase (Fragment) OS=Hevea brasiliensis

GN=sod PE=2 SV=1

Accession: tr|Q9STB5|Q9STB5_HEVBR

Unused ProtScore: 4.65

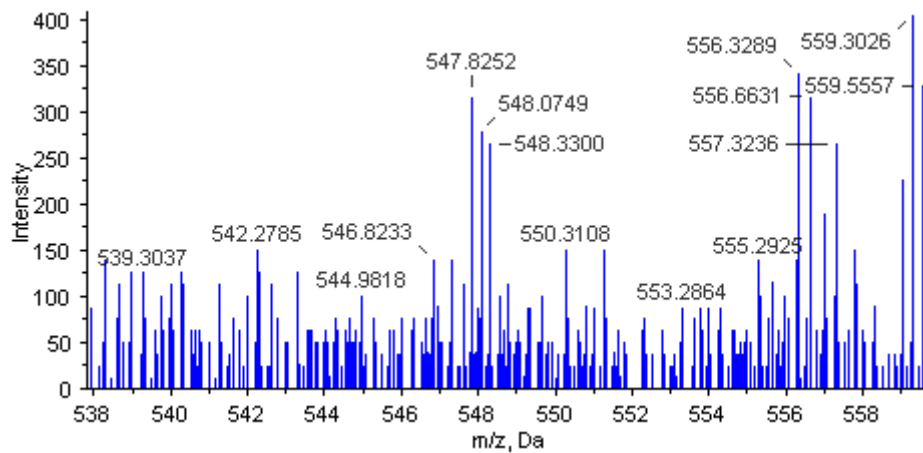
Seq Cov %: 13.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.44

116: 114=E5TL: D5TL=0.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

QTFSLPDLPYDYGALEPAISGEIMQLHHQKHHQTYITNYNK**ALEQLNDAIEK**GDSAADVVKLQSAIKFNG
GGHVNHSIFWKNLAPVREGGELPHGSLGWAIDADFGSLEKLIQLMNAEGVALQSGGWVWLALDKEL**KK**
LVVETTANQDPLVTKGPPTLVPLLGIDVWEHAYYLQYKNVRPDYLNKNIWKVMNWK**YASEVYAK**ECPSS

Protein No.: I-506

Protein name and Species:

Cysteine synthase OS=Glycine max PE=2 SV=1

Accession: [tr|C6TIP9|C6TIP9_SOYBN](#)

Unused ProtScore: 4.63

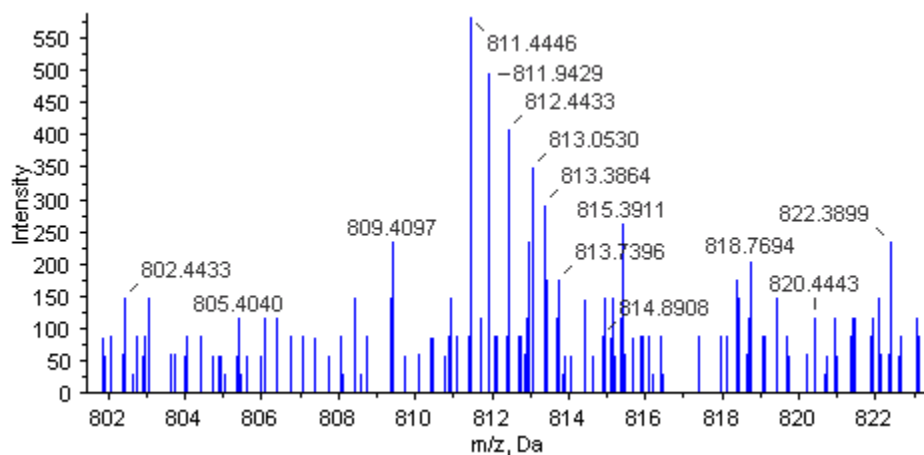
Seq Cov %: 16.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAEKSNIAKDVTE~~LI~~IGKTPLVYLNHIVDGCVAKVAAKLE~~ME~~PCSSVKDRIGHSMIVDAEEKGLITPG
ESVLI~~IE~~PTSGNTGIGLAFMAAAKGYKLIITMPSSMSLERRTILRAFGAELVLTDPAGMKGAVQKAEEI
RDKTPNSYMLQQFENPTNPKVHYETTGP~~EW~~KGSSGKVDALVSGIGTGGTVTGAGKYLKEQNPDIKLYG
IEPVESPI~~LS~~GGKPGPHKIQQIGAGFIPGVLDVLLDEVVQISSEEAIE~~TA~~KLLALK~~E~~GLLVGISSGAA
AAA~~AV~~KIAKRPENAGKLVVAVF~~PS~~FGERYLSSVLFESVKREAESLVFEP

Protein No.: I-510

Protein name and Species:

Fimbrin, putative OS=Ricinus communis GN=RCOM_0549750

PE=4 SV=1

Accession: tr|B9T216|B9T216_RICCO

Unused ProtScore: 4.59

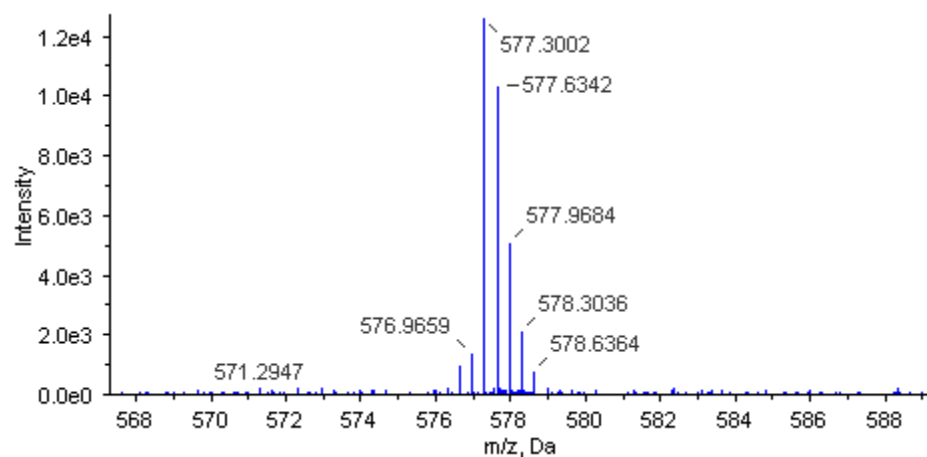
Seq Cov %: 15.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.54

116: 114=E5TL: D5TL=1.43

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSAGFVGVLVSDPWLQSQFTQVELRTLKAKYVSIRTEGGR**VTVGDLPVVFVKLR****AFTEVFNEDEIK**AIL
KESYSKAE EELDFETFLR**AYLNVQAR**VPAKSGGKRLRYSSSFLK**ASTTFRHNINSEK**KASYVSHINNH
LGEDSFLKTYLPIDPATN**ALFDLVK**HGVLLCK**LINVAVPGTIDER**AINTKKEMNPWER**NENHTLCLNSA**
KAIGCTVVNIGTQDLAEARPHLVLGLISQI**IKIQLLADLNLK****TPQLVELVDDSK**DVEELMGLPPEKVL
LKWMNFHLKKAGYN**KEVTNFS****SDVK**DGEAYVYLLNALAPELSTPDTKAASN**PAERAKVLEQA****EK**LDCK
RYLNANDIVEGSPNLN**LAFVAQIFQHR**NGLSTDITNKMPVAEMMEDDAETSREERC**FRLWINSIGIVTYV**
NNVFEDVRNGWVLEVL**DKVSPGSVNWK**QATKPP**IKMPFRKVENCNQA**IK**IGKELSFSLVNVAGNDIVQ**
GNKLLLLAFLWQLMR**FTMLQLLR**NLR**SHSSHSQK****EITDADILKWANSK**VKKV**GKTSQMESFK**DKT**LSN**
GVFFLDLLGAVEPR**VVNWSVVT**KGESDED**KKLNSTYIISVAR****LGCSIFLLPEDIIEVNQK**MMLTTLTAS
IMFWSLQHAAEPESAAEDNADASSTASMEGENEAALAGEVSDMTMDDAASDSAMSP

Protein No.: I-511

Protein name and Species:

Folylpolyglutamate synthase OS=Populus trichocarpa

GN=FPGS2 PE=4 SV=1

Accession: tr|B9HMM6|B9HMM6_POPTR

Unused ProtScore: 4.59

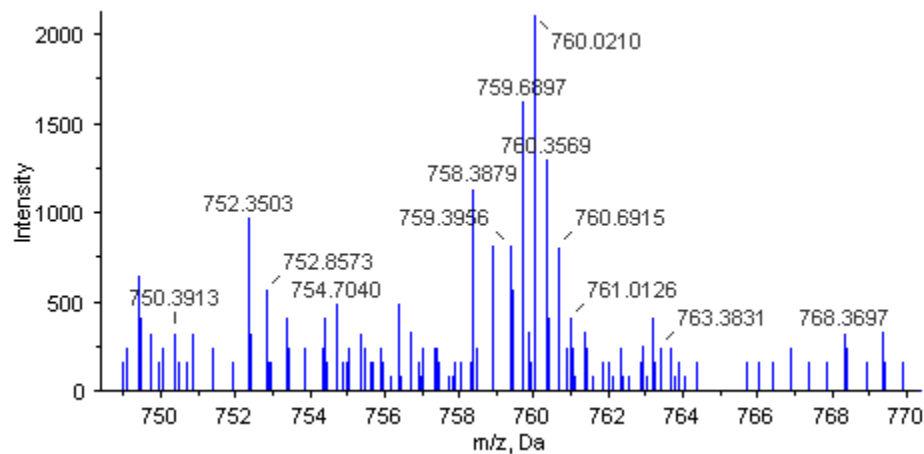
Seq Cov %: 5.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.26

116: 114=E5TL: D5TL=1.11

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEGDNNSSKPTVTPYEEALDALSSLITKRSRADKSNNGDRFDVLFDYLKLEEAISEMKIIHVAGTKG
K**GSTCTFTESILR**NCGFR**TGLFTSPHLIDVR**ERFRLDGKDICEEKFLAYFWWCYDRLKEKSTEDVPMPT
YFRFL**ALLAFK**IFS AEQVDVAILEVGLGGKFDATNVVQKPIVCGVASLGYDHMEILGNTLAQIAGEKAG
IFKDGIPAFTVPPQDEAMNVLEEKASELNVHLQVAEPLDAKLLNGLKLRLEGEHQYLNAGLAIALSF'TW
LQRTGHHEFTHMEQASSLPEQFIKGLTTASLQGRAQIVTDQYINAESYGDLVIFYLDGAHSPESMEMCAR
WFLAIAIKEDSQKRTFNYPQNNSESTIELVQEHHDERYGKSSMQILLFNCMSVRDPQLLLPPLMKACAS
HGVYFKKALFVANTSVYYKVGSHALPPTDSQFNLSWQFALQRVWENLIQSDKGGEVKHAVAVCEEKED
AKMSGR**TCENSAVFPSLPLAIK**WLKESVQRNRSVHYQVLVTGSLHHLVGDVLRRLVKK

Protein No.: I-512

Protein name and Species:

Myosin XI, putative OS=Ricinus communis

GN=RCOM_1724180 PE=4 SV=1

Accession: tr|B9S596|B9S596_RICCO

Unused ProtScore: 4.58

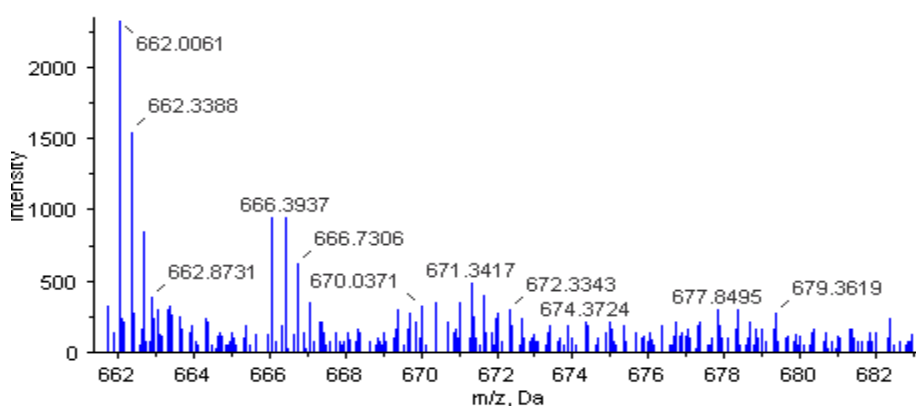
Seq Cov %: 5.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.61

116: 114=E5TL: D5TL=1.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MMKQAAAVTLVVGSLVWLEDPDVAWIDGEVEMKGDNIKVLCTSGKTVVVKASNIYPK**DAEAPPCGVDD**
MTKLAYLHEPGVQLQNLRSRYDMNEIYTYTGNILIAVNPFRKLPPLYDSHMQYK**GAAFGELSPHPF**AV
ADAAAYRLMINEG**ISQSILVSGESGAGK**TESTKLLMRYLAYMGGRAVAEGR**TVEQQVLESNPVLEAFGNA**
KTVRNNNSSRFGKFVEIQFDQMGRISGAAIRTYLLERSR**VCQVSDPER**NYHCFYMLCAAPQEDVQRYKL
GNPRTFHYLNQSNCYELDGIDDSKEYIATRR**AMDIVGISSDEQDAIFR**VVAAVLHLGN**IEFAK**GKETDS
SMPKDEKSRFHLRTAAEELMCDVK**ALED**SLCKR**VIVTR**DETITKWLDPESAVLSRDALAKIVYSR**LFDW**
IVDKINNSIGQDPDSKSLIGVLDIYGFESFKTNSFEQFCINLTNEKLQQHFNQHVFKMEQEEYTKEEID
WSYIDFVDNQ**DVLDLIEK**KPGGI IALLDEACMFPRSTHETFAQK**LYQTFK**NHKRFSPKPLARSDFITICH
YAGDVTYQTE**LFLDK**NKDYVVAEHQALLSASTCSFVSGLFPLSAEESKQSKFSSIGSRFKQQQLQSLE
TLSATEPHYIRCVPNNLLKPAIFENKNILQQLRCCGVMEAIR**ISCAGYPTR**KPFDEFVDRFSILAPEV
LDGSSDEITACKRLLEK**VGLEGYQIGK**TK**VFLRAGQMADLDTR**RSEVLGR**SASIIQRKVRSYLSRR**SFI
MLR**RAAIIHQASCRGQLAR**QVYENMLREAASLRIQTYLRMYVARKAYIELYCSAISIQTCMRGMAARDE
LRFRRRTRAAIVIQSHCRKYLARLHFMELEK**ATITAQCAWRGRVAR**KELRTLKMAARETGALQAAKNKL
EKQVEELTWRLQLEKMRADLEEAKTQENSKLQSALQEMQLQFKETKEMLVKER**EAAK**TAKEIIPVIQE
VPVVDNAMLEKLTENEKLIKAMVSSLEKKIDETEKKFEETSKISEERLKQALEAESKIVELKTAMHRLE
EKFTDMETENQILRQQSLLQTPVKKTSRPPIPAVPNLENGHHVNEEHRASEPQTPVKVFGTESDSKFR
RSHIERQHENIDALINCMHNIGFSHGKPVAAFTIYKCLLHWKSFEAEKTSVFDRLIQMIGSAIENEDN
NDHMAYWLSNTSTLLFLLQKSLKAAGAGGATPNKKPSSA**ASLFGR**MAMGFRSSPSSSNLAAALAVVRQV
EAK**YPALLFK**QQLAAYVEKIYGIIRDNLKKESSLLSLCIQAPRTSKGSALRSGRSFGKDSPPSSHWQSI
IDSLNILLSTLKQNFVPPVLIQKIYTQTFSYINVQLFNR

Protein No.: I-514

Protein name and Species:

Cinnamyl alcohol dehydrogenase 1-like [Vitis vinifera]

OS=Vitis vinifera GN=VITISV_025556 PE=3 SV=1

Accession: tr|A5C5R6|A5C5R6_VITVI

Unused ProtScore: 4.58

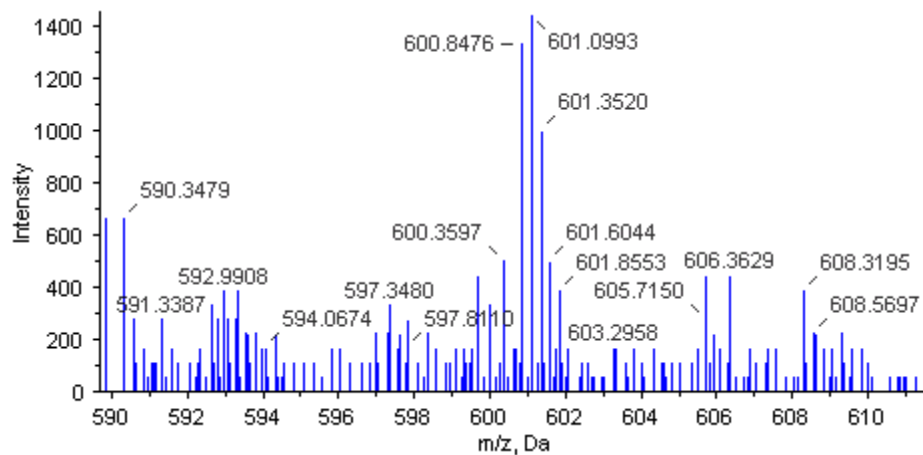
Seq Cov %: 4.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.29

116: 114=E5TL: D5TL=0.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDSVKEKTHGDTKSKKLAQQRSLQTMSLNWVSCMSKPDMMNNCLGWAARDESGVLSPTYTFTRREVGD
EDVSLKITHCGICYADMLFTKNRLGDSR**YPLVPGHEIVGIVK****E****VGSNVHHFK**VGHRVGVGAYVNSCREC
ESCNQSLEVYCSKGSVYTSNGVDADGTITN**GGYSSFIVVHER**YCFRIPDEYPLALAAPLLCPGITAYSP
MVRHKMNQPGKSLEVIGLGGVGH LAVKFGKAFGLNVKLFSTSIKKEEALSLLGDDNFVSSDEQQMKA
MANS�DFIIDTASGDHSLDHYMSCLKTAGVLALVGFPGMKTISGSLVGGVKETQEMLDF**CAAHK**IYPDI
EIVPIQYVNEAWERLTKGDVKYRVVGSDDVSLKITHCGICYADIHTRNKFGNSKYPVVPGHDIVGIVK
EVGSNVGVFKVGDVGVGTIVNSCRECENCEEGLEIHCSKGPVFTFGGVDVDGTITK**GGYSSFIVVHQR**
YCYRIADDYPLGLAAPLLCAGITVY**TPMIR**HKMNQPGK**SLGVIGLGLGHMAVK**FGKAFRLNVTVFSTSI
MSKKEEALTLGADKFVLSDEQDMK**AMAK**SLDFIINTASGDHPFDPYMSLLKTAGILEAQKTQEMLDF
CAAHKIYPEVEMVAIQNVNEALERVIKRDVKYRF**VIEIEK**SLK

Protein No.: I-516

Protein name and Species:

Acetylornithine deacetylase, putative OS=Ricinus communis

GN=RCOM_0864770 PE=4 SV=1

Accession: tr|B9S1F8|B9S1F8_RICCO

Unused ProtScore: 4.57

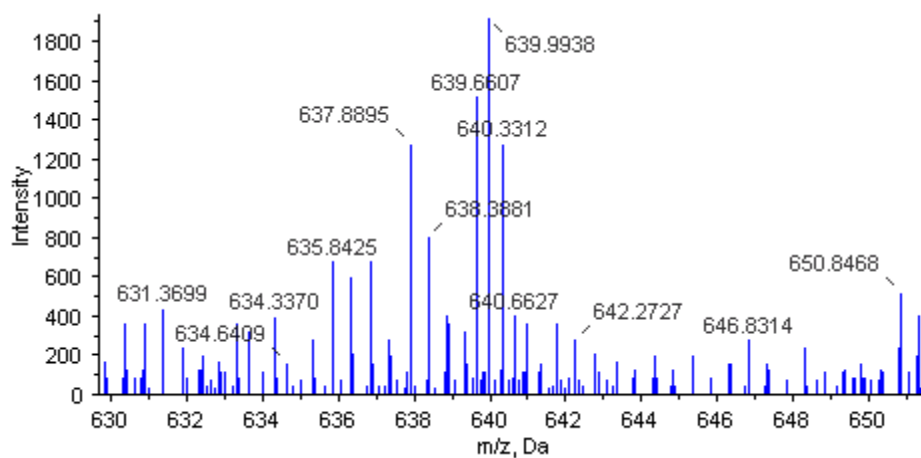
Seq Cov %: 12.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.14

116: 114=E5TL: D5TL=0.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANVEEILGELDKESFVTLRKKIIGESK**HVQNNPPELIPEEDR**VVKHVLDSELLPYSTTSGGGPLIVNHV
SYFPG**RGNLIVEYPGTEPGK**ILSFVGMHMDVVTANPNDFEFPFSLTINGDKLCGR**GTTDCLGHVAVVT**
ELMKMMLAEKKPKLKSTVVAVFIANEENSAITGVGVDALVQDGLLDKLGKGGPLFWIDTADKQPCIGTGGM
IPWKLHVTGKLFHSGLAHKAINALELAMDALQEMQSRFYKDFPPHPREQVYGFATASTMKPTQWSYPGG
GINQIPGECTISGDVRL**TPFYNLVDVK**NML**QEVVDDINENIEK**LGTRGPVSKYVLPDENLRGSITLTFE
EAMSGVACNLDSRGFHVLCATEKVVGHVKPY**SITGSLPLIR**ELQEEGFVQTAGYGLMATYHAKNEYC
LLSDMCQGYRVFVSIISQLED

Protein No.: I-520

Protein name and Species:

Isoleucyl tRNA synthetase, putative OS=Ricinus communis

GN=RCOM_0574620 PE=3 SV=1

Accession: tr|B9SUT5|B9SUT5_RICCO

Unused ProtScore: 4.51

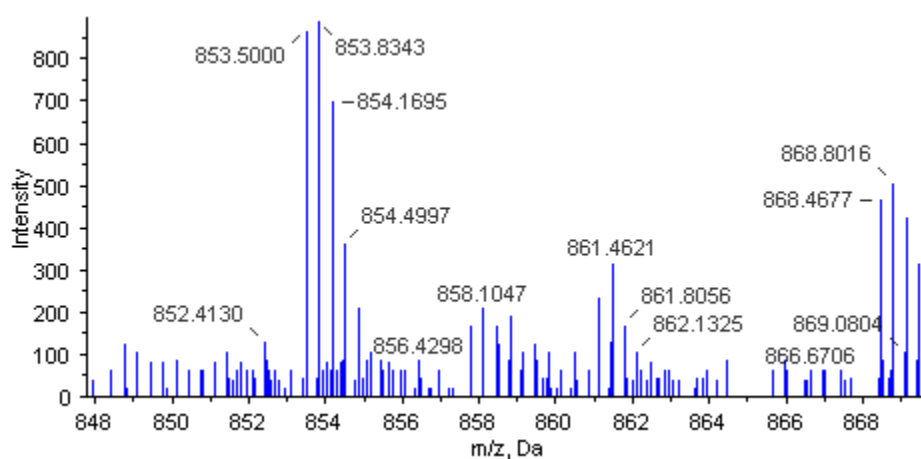
Seq Cov %: 5.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.38

116: 114=E5TL: D5TL=0.57

nnotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEEVCEGKDFSFNQEEKILSFWSEIK**AFETQLSR**TESLPEYIFYDGPFFATGLPHYGHILAGTIK**DIV**
TRYQTMRGHHVTRRFQWDCGLPVENEIDRKLGIQRRDEVLMGIDKYNEECRSIVTRYVGEWEKVI**TR**
TGRWIDFKND**DYKT**MDLKFMESVWVWFYQLFDKGLVYK**GFKVMPYSTGCKTVLSNFEAGQNYK**DVPDPEI
MVAFPVDDPHNAAFVAWTTTPWTLPSNLALCVNGNFDYVKVRNKYTGK**VYVVAESRLSALPTEKPKSS**
AVNGPAGGKTKGGKTENLMDSFELLEKVKGNELVKKKYVPLFNFFSDFSNTAFRVVADNYVTDDSGTGI
VHCAPAFGEDDYRVCIE**ENQ**IINKGENLIVAVDDDGCF**AER**ITEF**SGRYVK**DADKDIIEAVKAKGRLVKS
GTFTHSYPPFCWRS**DTPLI**YRAVPSWFVRVEELKVQ**LL**ENNKQTYWVPDYVKEKRFHNWLENARDWAVSR
SRFWGTPLPVWISQDGEEVIVMDSVAKLEKLSG**IKVFDLHR**HHIDHITIPSSRGPEFGVLRVDDVDFDC
WFESGSMFYAYIHYPFENI**ELFEKSFPQFIAEGLDQTR**GWFYTL**MVL**STALFGKPAFK**NLVCNGLVLA**
EDGKKMSKLLKNYSPMEV**IDD**FGADALR**LYL**IN**SPVVR**AE**TL**RFKKEGVY**SVVKD**VFLPWYNAYRFLV
QNAK**R**LEVEGLAPFTPLDFGKLQ**SS**NVLD**R**WINSATQSLVHFV**RQ**EMDGYR**LYTVVPYLLK**FLDNLTN
IYVRFNRKRLKGRIG**EEDCR**TALSTLYSVLLT**SCK**VMSPFT**PPF**TEVLYQ**NMRK**VSSG**A**EESIHYCS**FP**
QEEGERDERIEQSVSR**MMTIIDLAR**NIRERHYKPLKSPLR**EMIVVHHDADFLDDIAGK**LK**EYVLEELNV**
RSLIPCVDTLKYASLR**AEPEFSLLGK**RLGKAMGVV**AKEIKAMSQK**DILAFEEAGEVTIASHNLK**LADIK**
VVREFKRPDGLTEKEIDAAGDGDVLV**IMDLR**PD**ES**LYEAGVAREVVNR**IQKLRKK**VALEPTD**VVDVYFE**
SLDDDKSKLGRV**LN**SQEYIKDAIGSP**LLS**STMM**PE**AVVIG**EES**YHHIYEL**SFT**TYLAR**AALVFKSDA**
ILLTYAGNTKFAK**GLE**TYLLSRDHSNLRSEFQQRNGKITVDCIENQPAADVVLGEHLFLTVGDYFLR**TR**
SG

Protein No.: I-533

Protein name and Species:

3R-hydroxymyristoyl ACP dehydrase [Arabidopsis thaliana]

OS=Arabidopsis lyrata subsp. lyrata

GN=ARALYDRAFT_481086 PE=3 SV=1

Accession: tr|D7LDD9|D7LDD9_ARALL

Unused ProtScore: 4.37

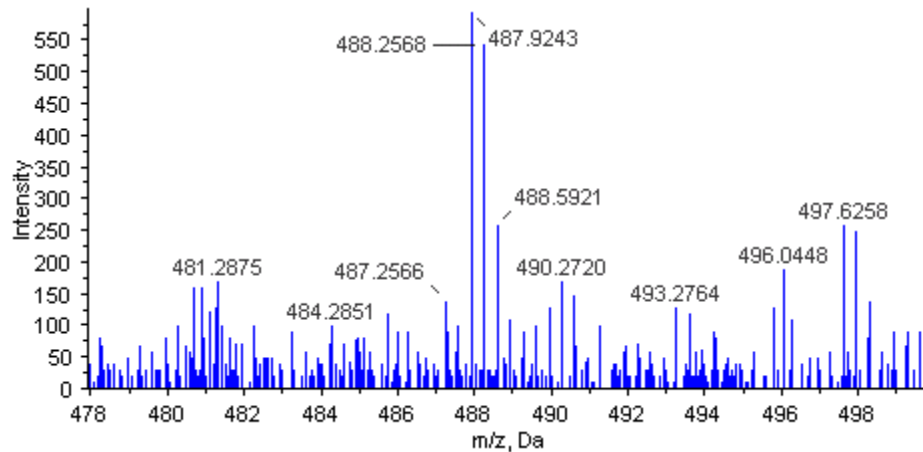
Seq Cov %: 9.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.31

116: 114=E5TL: D5TL=0.21

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATTNSVLF~~FLSSDSL~~SHHHHHHHQ~~QPLHLP~~SSRS~~HSVSL~~PPNK~~RSNSLTLRCSTNGDNTSSEK~~ETPI
ELKFPAPPTVMD~~INQIRE~~EILPHRF~~PFLLVDR~~~~YIEYTPGVS~~AVA~~AIK~~NVTINDNFFPGH~~FPERP~~IMPGVLM
IEAMAQVGGIVMLQPEVGG~~SQDNFF~~FAGIDK~~VRFR~~KPVIAG~~DTLV~~MRMTLLKFQKR~~FGLAKMEG~~KAYVG
GALVCEGEFMMVSAGSS

Protein No.: I-534

Protein name and Species:

Glyceraldehyde 3-phosphate dehydrogenase, putative

OS=Ricinus communis GN=RCOM_1574030 PE=3 SV=1

Accession: tr|B9RHV9|B9RHV9_RICCO

Unused ProtScore: 4.35

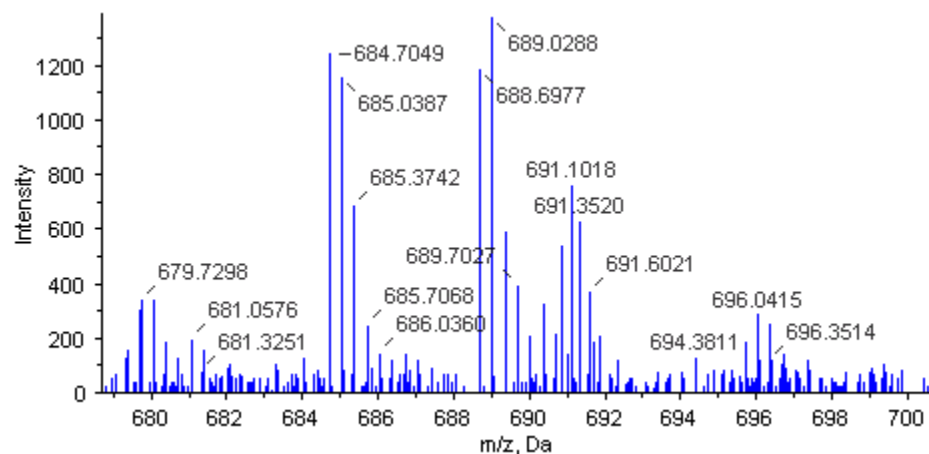
Seq Cov %: 20

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.23

116: 114=E5TL: D5TL=0.36

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAFSCILRSTATSPLIEASRSDLSPSPSDPLQASSVNFNRDLKASKSFFGTSTVPTASSSLEACSARSLQ
PIKATVTEMPPTILKSRSDGRTK**IGINGFGR**IGRLVLR IATLR**DDVDVAVNDPFIDTK**YMAYMLKYDS
THGLFKGHIKVVDESTLEINGKQIKVSSKRDPAEIPWGDHGAEYVVEASGVFTTIDK**ASAHK**KGGAKKV
VISAPSADAPMFVVGVNEQTYKPNMDIVSNASCTTNCLAPLAKVVHEE**FGIVEGLMTTVH**ATTATQK**TV**
DGPSMKDWRGGR**GAGQNIIPSSTGAAKAVGKVLPELNGLTGMAFR**VPTPNVSVVDLTCRLEKSASYED
VKAAIKYASEGPLK**GILGYTDEDVVSNDVFGDSRSSIFDAK**AGIGLSAAFMK**LVSWYDNEWGYSNRVLD**
LIEHMALVAAQN

Protein No.: I-536

Protein name and Species:

Glutathione-S-transferase OS=Rheum australe PE=2 SV=1

Accession: tr|B5M1W3|B5M1W3_RHEAU

Unused ProtScore: 4.35

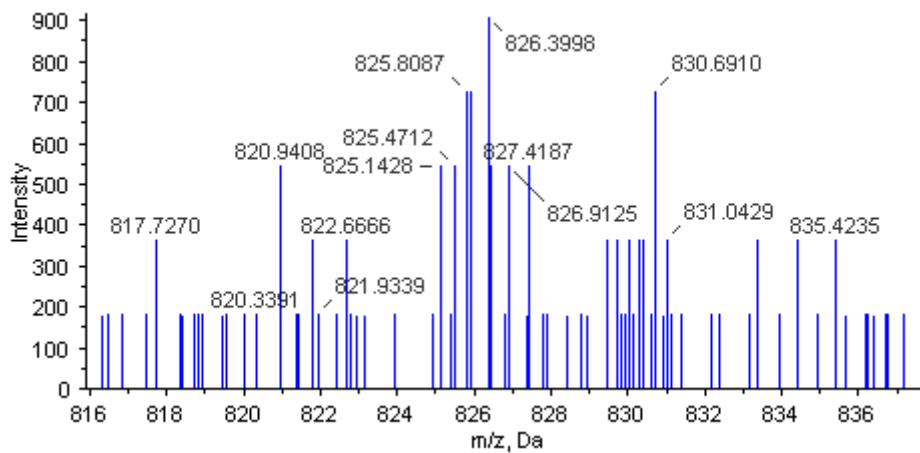
Seq Cov %: 12.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.22

116: 114=E5TL: D5TL=0.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAATLPPALDASSPPPLFDGTT**RLYTSYTC**PFAQRVW**ITR**NYKGLQEIKLVLGINLQNRPDWYKEKVN
PANK**VPALEH**DGK**I**IV**ESLD**LIK**Y**VDSNFEGPSLYPDEPAKREFGEE**LLTYVSEFV**PKMYGAFKGG**DTT**
KVADAEFDYLEKALQKFDDGPF**FLGQFSLVDI**AY**APFIER**FQLVIADV**WKYDLTAGR**PKLA**EWV**EELNK
IEAYKETKTDPDQLLPYLKSRFVAQQ

Protein No.: I-547

Protein name and Species:

Beta-1,3-glucanase OS=*Vitis vinifera* GN=VIT_05s0077g01150

PE=2 SV=2

Accession: [tr|Q9M563|Q9M563_VITVI](#)

Unused ProtScore: 4.31

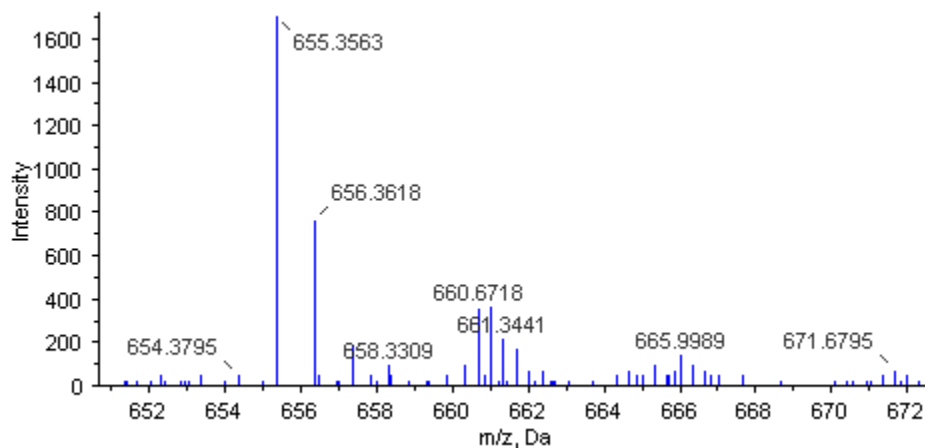
Seq Cov %: 15.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=15.42

116: 114=E5TL: D5TL=3.93

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAMVLLLGFLLATLQITGVKSVGVCYGMLGNNLPPASQVVALYKSRNIDRMRIYDPNQALQALRGSN
IQLMLGVPNSDLQGLATNPSQAQSWVQRNVRNYWPGVSFRYIAVGNEVSPVNGGTSRFAQFVLPAMRNI
RAALASAGLQDRVKVSTAILDTLLGNSYPPSQGAFRGDVRGYLDPIIRFLVDNKSPLLANIYPYFSYSG
NPKDISLPYALFTANSVVWDGQRGYKNLFDAMLDALYSALERAGGASLEVVLSESGWPSAGGFETTVD
NARTYNSNLIRHVKGGTPKRPGRAIETYLFAFMDENKKEPQLEKHFGLFFPNKQPKYSINFSGEKPWDV
SSENDTNEESLKSDI

Protein No.: I-549

Protein name and Species:

annexin [Populus tomentosa] OS=Populus trichocarpa
GN=POPTRDRAFT_654779 PE=3 SV=1

Accession: [tr|B9HFG8|B9HFG8_POPTR](#)

Unused ProtScore: 4.3

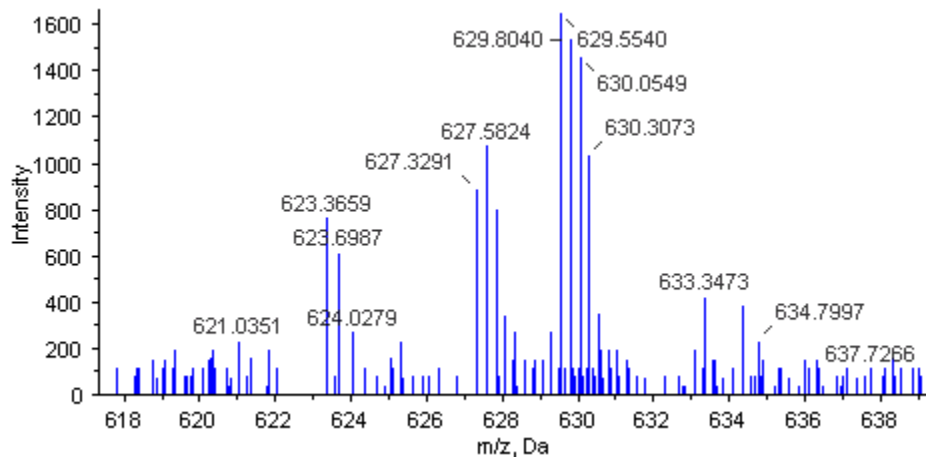
Seq Cov %: 17.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.18

116: 114=E5TL: D5TL=2.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASLKVPASVPPPYEDAEQLHKAFEGWGTNEGLIISILAHRNAAQRNLIRKVVYAEAYGQDLLKDLKEL
SSDFERAVLLWTLDPAERDAYLANEATKRFTSSNWVLMETACTRSSHDLFKVRQAYHARYKKSLEEDVA
YHTTGDFRKLIVPLVSAFRYEGEEVNTILAKSEAKILHEKISDKAYSDEEIIIRILTTRSKAQLNATLNH
YNNAFGNAINKNLKEEADNDFLKLRLRATIKCLTYPEKYFEKLLRLSIKKLGTDERALTRVVTTRAEVDM
ERIKEEYHRRNSVTLERDIAGDTSGDYERMLLALIGHGDA

Protein No.: I-550

Protein name and Species:

Argininosuccinate synthase, putative OS=Ricinus communis

GN=RCOM_0395600 PE=3 SV=1

Accession: tr|B9SS35|B9SS35_RICCO

Unused ProtScore: 4.3

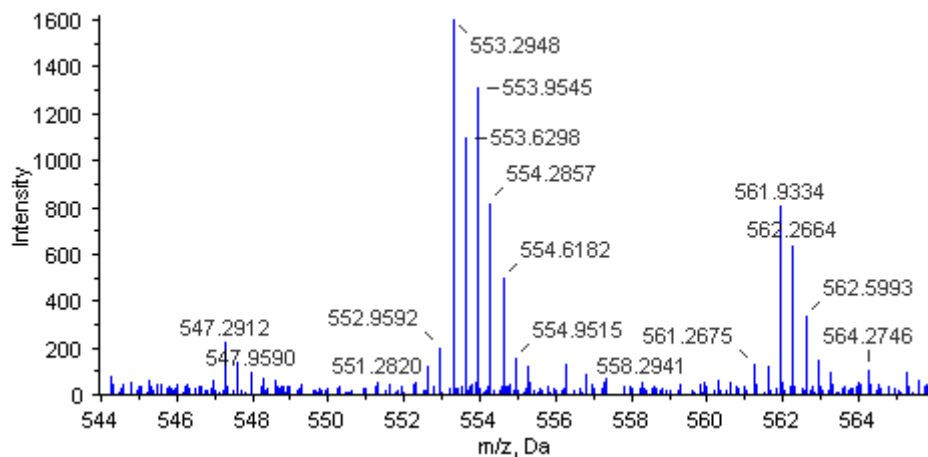
Seq Cov %: 8.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAISSSSFNFVHDSNR**DEFLQNHNI****PSIK**KSPTIFFKKLGAKRGELQGIA**FACTK**RVILRTHQNKAIQA
VLSSDREVEVS**EASK**SKGLRGQLNKVVLAYSGLDTSVIVPWLRENYGCEVVCFCTADVGGQGLKELEGLE
EKAKASGACQLVVKDLQEEFVR**DYIFPCLR**RAGAIYERKYLLGTSMARPVIAK**AMVDVAK****EVGADAVAHG**
CTGKGNDQVRFELTFFALNPELNVVAPWREWDIKGREDAIEYAKK**HNVVPVPTK**KSIYSRDRNLWHLSH
EGDILEDPANEPNKDMYMSVDPEDAPNQPEYIEIGIVSGLPVSVNGK**QLSSASLLS****QLNEIGGR****HGIG**
RIDMVENRLVGMKSRGVYETPGGTILFTAARELESITLDRETMQVKDSLALK**YAEVYAGR**WFDPLRES
MDAFMEK**ISEK**TTGSVTLKLYKGSVLVTSRTSPYSLYR**QDISSFESGK**IYDQADAAGFIRLYGLPMKVR
AMLENGI

Protein No.: I-552

Protein name and Species:

Glycerophosphodiester phosphodiesterase-like protein

(Fragment) OS=Manihot esculenta PE=2 SV=1

Accession: [tr|Q5PYQ3|Q5PYQ3_MANES](#)

Unused ProtScore: 4.28

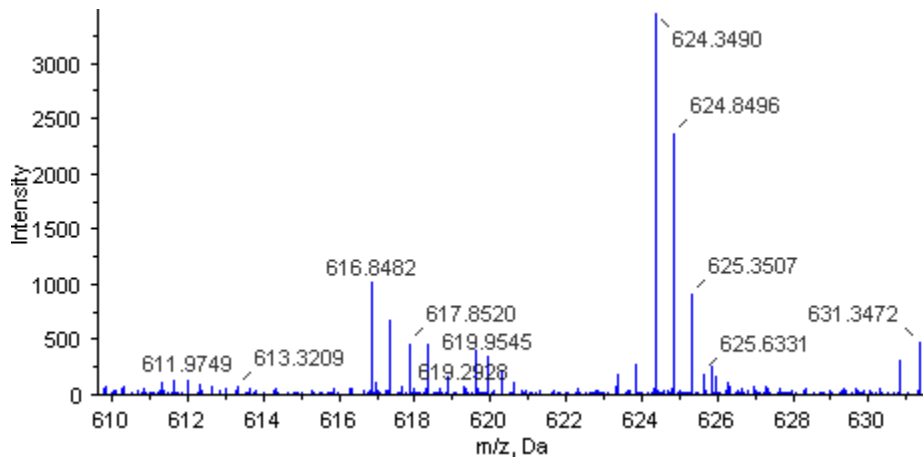
Seq Cov %: 9.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.13

116: 114=E5TL: D5TL=0.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MALTCSVLIIIFLSLTLVSTATAR**RP**I**Y**PL**PSK**ISNGIRKPLQTSRPYNIAHR**GS**N**GE**I**PE**E**TAA**Y**MRA**I
EEG**AD**F**IE**T**D**I**L**S**SK**DGVLICFHDVTLDN**TT****DI**A**K**HNEF**T**NR**K**RTYDVQGV**NT**T**GF**F**T**V**D**F**T**L**E**L**K**T**L**
RVKQRHPFRDQYNGKFSII**T**F**E**E**F**I**A**I**A**L**D**A**S**R**V**G**I****Y**P**EM****K****N**P**V**F**I****N****Q****H****V****K**WPGGKRFEDKFVETLK
KYGYKGSYMSKDWLK**Q**P**V****F**I**Q**S**F**A**P**T**S**L**V****Y**I**S****N**M**T**D**S**P**K**IFLIDDDIDIP**T**Q**D**T**N**Q**S**W**E**I**T**S**D**A**Y**L**D**Y**I**
KNYVVGH

Protein No.: I-556

Protein name and Species:

DNA-binding protein smubp-2, putative OS=Ricinus communis

GN=RCOM_0089600 PE=4 SV=1

Accession: tr|B9SL55|B9SL55_RICCO

Unused ProtScore: 4.24

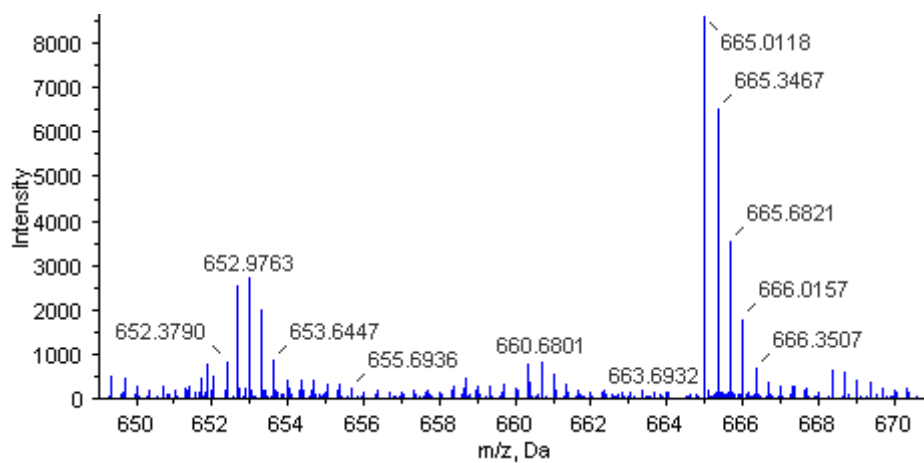
Seq Cov %: 7.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.68

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEKDKTKKKLSLQEFVVSITSPLLDLEKEAEISASISSGTSRNLDNAQKRGSTILNLKCVDAQTGLMGKT
LLEFQSNKGDVLP SHRFSTHDVVVLKPNKADLGSPALGQGVVYRLKDSSITVAFDDIPEEGLNSPLRLE
KVANEVTYRRMREALIQLSKGVQRGPAADLVPVLFGERQP TMSKKGVTFTPFNSNLDHSQKDAISKALS
SKDVFLFHGPPGTGKTTTVEIILQEVKRGAKILACAASNIAVDNIVERLVPHRVKLVRLGHPARLLPQ
VLDSALDAQVLKGDNSSLANDIRKEMKALNGKLLKTKDKSTRRDIQKELRTLSKEERKRQQLAVTDVIK
NADVLTTLTGALSHKLDNTSFDLVIIDEAAQALEIACWIALLKGSRCILAGDHLQLPPTIQSVEAEKK
GLGRTLFERLADLYGDEVTSMLTVQYRMHELIMTWSSKELYNSKIKAHPSIAAHMLSDLEGVKRSSATE
PTLLLLIDIAGCDMEKKDEEESTLNEGEADVAVAHAKRLVENGVQASDIGIITPYAAQVLLKILRSNE
DKLKDVEISTVDGFQGREKEAIIISMVRSNSKKEVGFSDRRR MNVAVTRARRQCCLVCDTETVTSDF
LKRLIEYFEEHGEYLSAAEYCNE

Protein No.: I-561

Protein name and Species:

transportin, putative OS=Populus trichocarpa

GN=POPTRDRAFT_570025 PE=4 SV=1

Accession: tr|B9I337|B9I337_POPTR

Unused ProtScore: 4.21

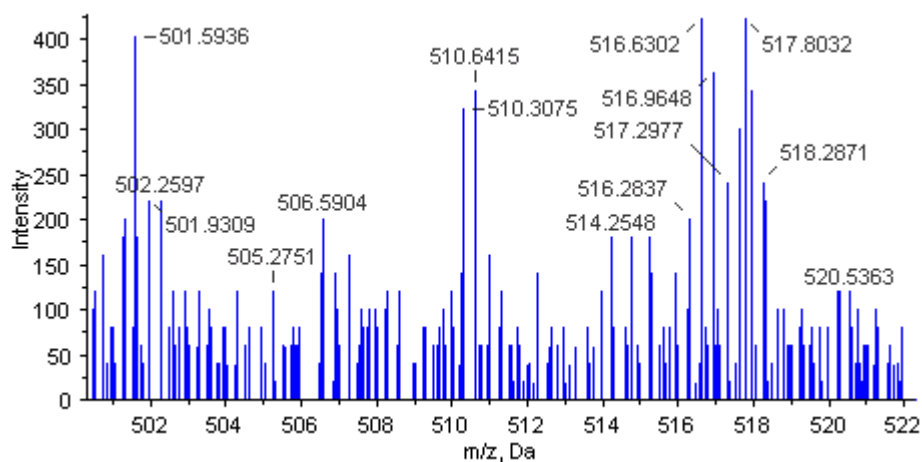
Seq Cov %: 5.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.68

116: 114=E5TL: D5TL=1.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLAVADVLIIDAASVLGGDATLRILYVKLAEARTCLGNDHNQWHPAEAAALFCIRAI SNYVSTVEAEVMPK
IMSLLELPHEPQLLQTVCLTIG**AYS**KWLDAAALDGF PQLSSVIKILLSGMGKSEDSAAAAAVAFRHICD
DCRRKLCGYFDELFSIYNSAVIGEGSLKVSAGDSLHVVEAFSMVITELPADQAKLALALEKLCLPVVTP LQ
EII SQGPDVLEKKLARELTVHIDRLAYIFR**YVNHPEAVADAIQR**LWPILK**AIFDIR**AWDMRTMESLCRA
CKYAVRTSGRLMGITIGAMLEEIQGLYQQHHQPCFLYLSISCHLGMQIFGSDPSCAYYLKNLIEALFKC
TTCLLTNIKDFTARPDIADDCFL LASRCIRYCPQVFIPSAVFPSLVDCSMIGVTVQHREASNSILTFLS
DIFDLAKSSMGEQYLTIRDSV IIPRGSSITR**ILVASLTGALPSSR**LETVTYALLALTRAYGASALEWAR
ESVSLIPSTVVTEVEQTKIFQALTDAA SGVDIKTLMGAVEELSDVCRRNRRTVQEIVQGALRPLELNLVT
VS

Protein No.: I-562

Protein name and Species:

**vacuolar protein sorting-associated protein OS=Populus
trichocarpa GN=POPTRDRAFT_833991 PE=4 SV=1**

Accession: tr|B9HYZ8|B9HYZ8_POPTR

Unused ProtScore: 4.21

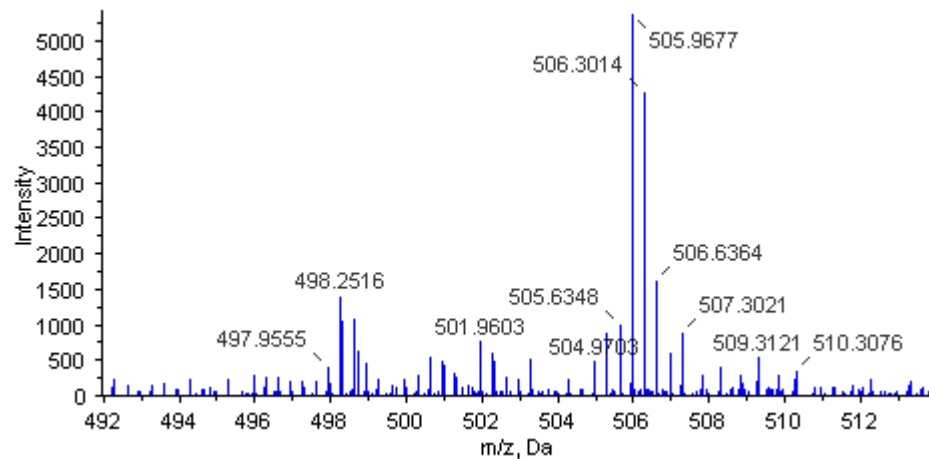
Seq Cov %: 17.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.60

116: 114=E5TL: D5TL=1.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEVKLWNDKRE REMYDNFAELYAIIKATEKLEKGYVRDI I SSSQYETECQKLI AHFKTLASTFKDTVPS
IERFADTYKMDCPAAINR **LVTS** **SGVPAT** **VEHR**AAAAASSTTSAAVVAECVQNFITAMDSLKLN MVAVDQV
HPLLSDL SASLNK **LSILPPDFEGK**TKMKEWILRLSK **MGA** **ADEL** **TEQQAR**QLHFDLESSYNSFMAALPSA
GT

Protein No.: I-563

Protein name and Species:

Aspartic proteinase, putative OS=Ricinus communis

GN=RCOM_1225960 PE=3 SV=1

Accession: [tr|B9SFR8|B9SFR8_RICCO](#)

Unused ProtScore: 4.2

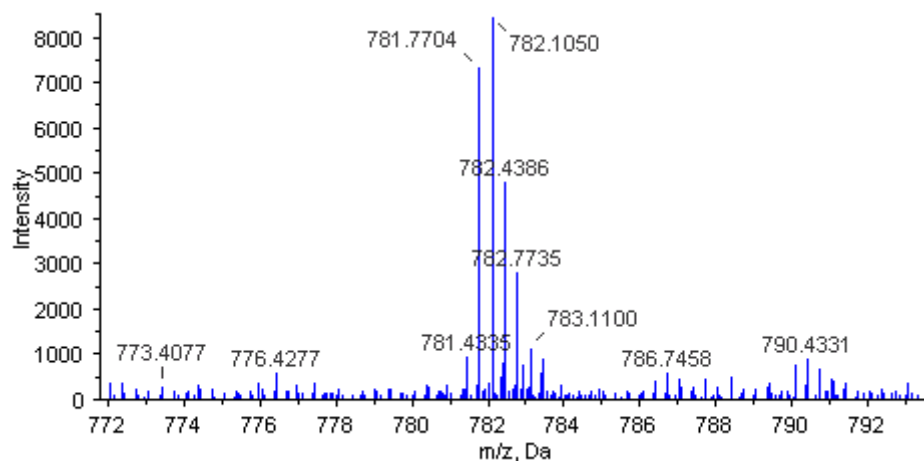
Seq Cov %: 16

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.29

116: 114=E5TL: D5TL=0.42

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGTKSSALWISFVLLLPVVFSLHNDALVR**VGLK**KKKFDQVNIIPAGTVDFKEGEAMRAATKKYNLVENS
DVIDIVELKNYLDAQYYGEIAIGTPPQTFTVIFDTGSSNLWIPSSK**CYFSVACYFHSK**YKASESSTYQKN
GTSAAIRYGTGSI SGFFSQDNVKGDLVIRNQDFIEATK**EPGVTF**LAAKFDGILGLGF**QEISVGK**AIPV
WYNMVNEGLVKEQVFSFWLNRNVQAEEGGEIVFGGMDPNHYK**GQHTYVPVTQK**GYWQFDMGEVLIGNEI
TGLCADGCK**AIADSGTSLLAGPTTVITQINHAIGASGIVSQECK**TVVEQYGKFILEMLTAQAQPQKICS
QIGFCTFDGTQGVSTNIESVVDKSKETASDGLQQDSACTVCEMIVVWMQNRLRLNETV**DQILNYV**NKLC
DRLPSPNGESAVDCSSLSMPIVSF**TIGGK**AFKLTADQVKGC

Protein No.: I-567

Protein name and Species:

Profilin-1 OS=Hevea brasiliensis PE=1 SV=1

Accession: sp|O65812|PROF1_HEVBR

Unused ProtScore: 4.17

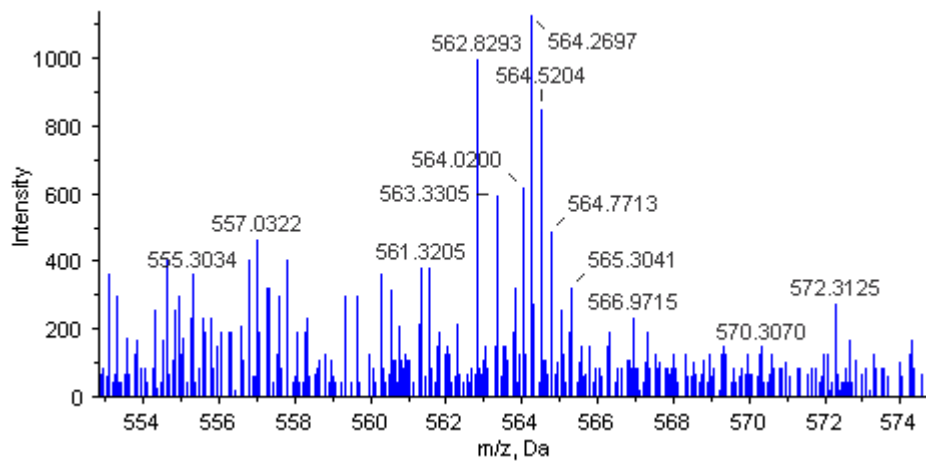
Seq Cov %: 50.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=1.98

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSWQTYVDERLMCEIEGNHLTAAAIIGQDGSVW**AQSSNFPQFK****SEEITAIMSDFDEPGTLAPTGLHLGG**
TKYMVIQGEAGAVIR**GKKGPGGVTVRK****TNQALIIGIYDEPMPGQCNMIVER**LGDYLLLEQGM

Protein No.: I-572

Protein name and Species:

ribosomal protein-like,P0 OS=Solanum tuberosum PE=2 SV=1

Accession: tr|Q307Z8|Q307Z8_SOLTU

Unused ProtScore: 4.15

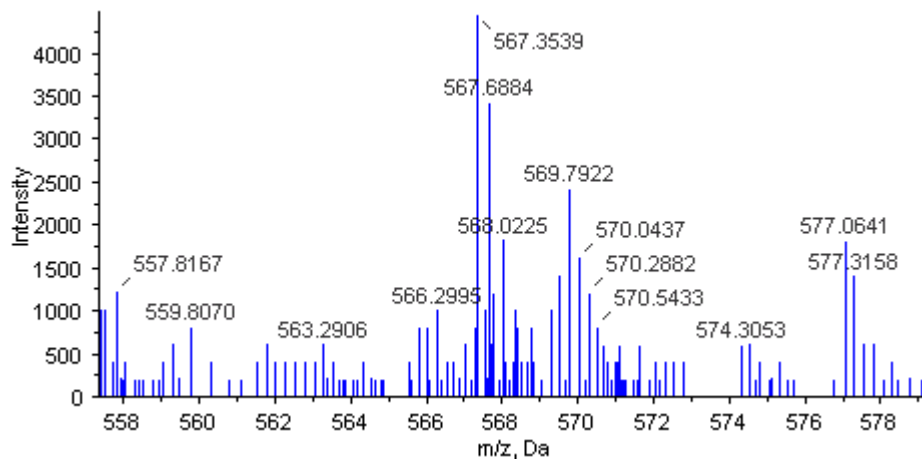
Seq Cov %: 7.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=7.45

116: 114=E5TL: D5TL=2.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPKATKAEEKKIAYDTKMCQLLDDFTQVLVAAAADNVGSNQLQSIRKGLRGDSVVLMGKNTMMKRITIRVH
AEKTGNETILNLIPLLVGNVGLIFTKGDLKEVSEEVAKYKVGAPARVGLVAPVDVVVPPGNTGLDPSQT
SFFQVLNIPTKINKGTVEIITPVELIKKGDKVGSSEAALLAKLGIRPF SYGLVVVSVDNGSVFSPEVL
DLTEDDLIEKFAMGVSMVTSLALAI SYPTLAAAPHMFTNAYKNVLAIAVETDYSFPLADKVKEYLADPS
KFAVAAAAPAAAAGSGAAPAAAKEEEEKKEEPAEVSDDDMGFSLFD

Protein No.: I-578

Protein name and Species:

Copper transport protein ATOX1 OS=Hevea brasiliensis

GN=CCH PE=4 SV=1

Accession: tr|D4P094|D4P094_HEVBR

Unused ProtScore: 4.13

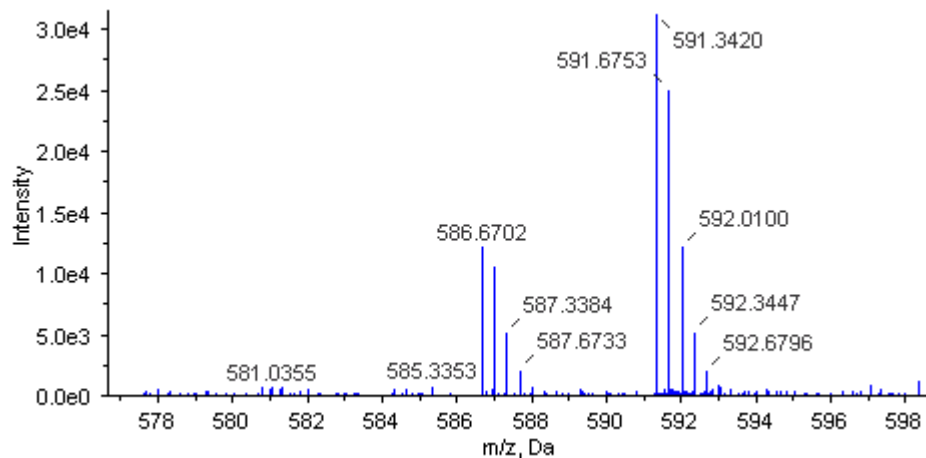
Seq Cov %: 45.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSQTVVLLK**VGMSCEGCVGAVK**RVLGK**MEGVESYDIDLK**EQKVTVK**GNVQPEAVLQTVSK**TGKK**TTFWEA**
EAPAEPETKPAETVTVA

Protein No.: I-580

Protein name and Species:

auxin-induced protein PCNT115 OS=Glycine max PE=2 SV=1

Accession: [tr|C6TIG8|C6TIG8_SOYBN](#)

Unused ProtScore: 4.12

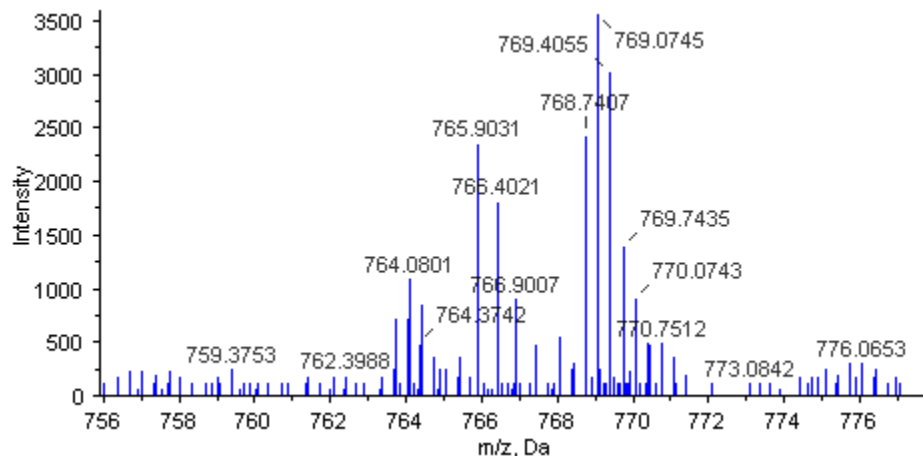
Seq Cov %: 10.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=2.02

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEKLQLHVPRVKLGSQGLEISRLGFGCVGLSGLYNAPLSHEAGCSIIKEAFNMGVTFDFDTSDFYGLN**HD**
NEIMIGKALKELPREKVQLATKFGFLVRSDGV**FAGVK**GTPEYVVRQCCEASLKRLDVEYIDLYYQHR**VDTS**
VPIEDTMGELKKLVNEGKIKYIGLSQASPDTMKRAHAVHPISALQMEYSLWTR**DIEEEIIPLCR**ELGIG
IVAYSPLGHGFFAGKAAVETLPSQSALAEDARFSGENLEKNKLFYNRIADLASKHSCTPSQLALAWFLH
QGNDIVPIPGTTKIKNLENNVGSVAVKLTNAELSEISDAVPVYEVAGEAPGLGSLSQYTWKFATTPSK

Protein No.: I-584

Protein name and Species:

FH protein interacting protein OS=Populus trichocarpa

GN=POPTRDRAFT_809550 PE=4 SV=1

Accession: tr|B9IPT2|B9IPT2_POPTR

Unused ProtScore: 4.09

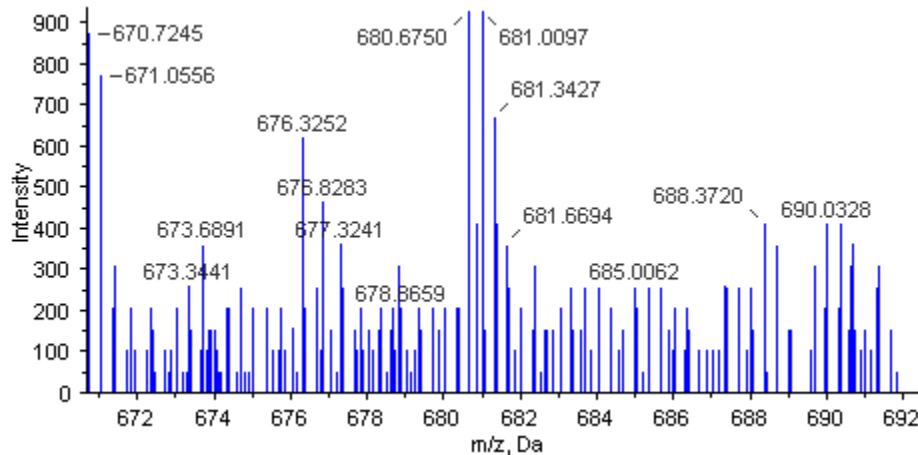
Seq Cov %: 14

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.64

116: 114=E5TL: D5TL=1.17

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKDHPFSSLIRLNIGGKKFCTTIDTLTQREPDSMLAAMFSGRHTVSEDPDKGYVFDIDRDGKHFRHILNW
LRDGVVPTLTDAEYSELMREAVYYQLLGLVEGINSVLTRRREGDELEAELTRADIIKCLQYEKVKFRGV
NFSGLDLSKLDLSYVDFSYASLKNVFFSRANLQCAKFRDVAEGSIFHNATLRECEFTGANLRGALLAG
ANLKSANLQDACLVDCSFCGADLSAHLQTADLTNANLEGANLEGANLKGAKLNNANLKGANLQRAYLR
HVNLLQNTHLEDARLDGANLVGAIR

Protein No.: I-592

Protein name and Species:

Vesicle-associated protein 1 OS=Populus trichocarpa

GN=POPTRDRAFT_739862 PE=4 SV=1

Accession: tr|B9MUU5|B9MUU5_POPTR

Unused ProtScore: 4.05

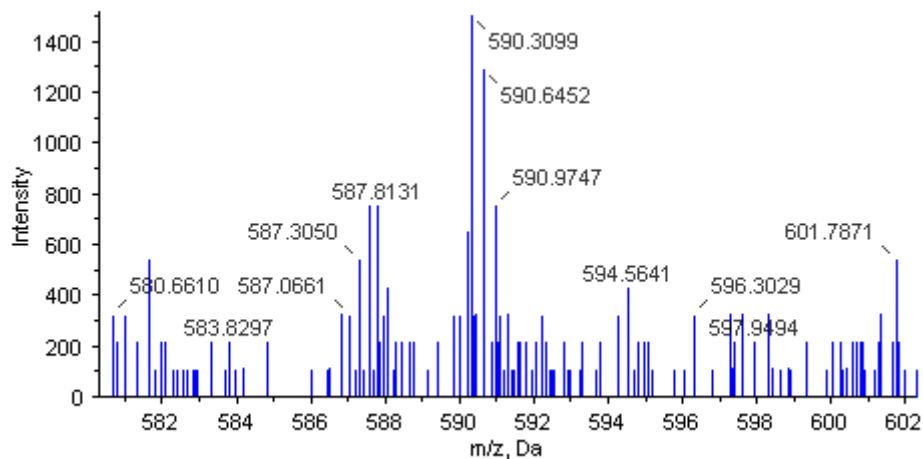
Seq Cov %: 8.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.71

116: 114=E5TL: D5TL=1.69

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSTGELLGIEPLELKF**PFELK**KQISCSLQLSNK**TDNYVAFK**VKTTNPKKYCVRPNAG**IVLPRSTCDVIV**
TMQAQKEAPPDMQCKDK**FLQSVK**ANDGVTVKDINAEMFSKEAGHVVEECKLRVLYVSPPPSPVLEG
SEEGSPPWGSVSDNGNVNGTDLSTGTRAFVEHLEPQDKPLEAGALISKLTDERNNAIQQNNKLRQE**LEL**
LRCQGNKNRSGASLMFVIIIGLLGLLGGLYLMKKT

Protein No.: I-596

Protein name and Species:

Protease C56, putative OS=Ricinus communis

GN=RCOM_0763700 PE=4 SV=1

Accession: tr|B9SJL8|B9SJL8_RICCO

Unused ProtScore: 4.05

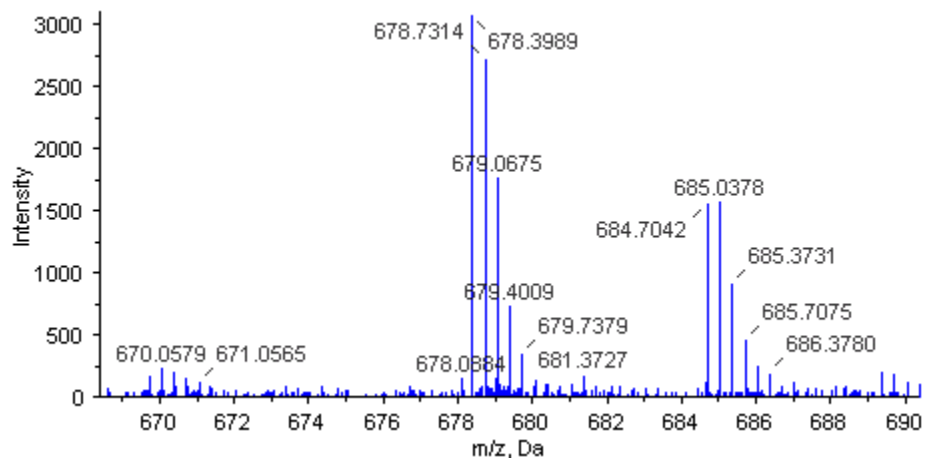
Seq Cov %: 12.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.31

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSHQKTVFLLCGDYMEDYEAMVPFQALLAYGVAVDAA**CPGK**KAGDYCRTAIHESSESGHQTYSESRGHNFT
LNSTFDDIDFGKYDGLVIPGGR**APEYLAMNESVLD**CVR****KFADAGKPIASVCHGQLILAAAGLVKGRKCT
AYPPVRPVLIAAGAHWVEPETMASCVADGNLITGATYEGHPEFIQLFVKALGGSITGADKRILFLCGDY
MEDYEVTVPFQSLQALGCHVNAVCPKKK**AGDSCPTAVHDFEGDQTYSEK**PGHHFTLTASYVGLDVSSYD
ALVLPGGR**APEYLALDETVIALV**K****QFMQSKKPVASICHGQQILAAAGVLKGGKCTAYPAVK**LN**V**LSGA**
TWLEPDP**IDR**CYTDENLVTGAAWPGHPEFISQLMALLGIRVSF

Protein No.: I-602

Protein name and Species:

IAA-amino acid hydrolase ILR1-like 4 OS=Arabidopsis thaliana

GN=ILL4 PE=1 SV=2

Accession: sp|O04373|ILL4_ARATH

Unused ProtScore: 4.04

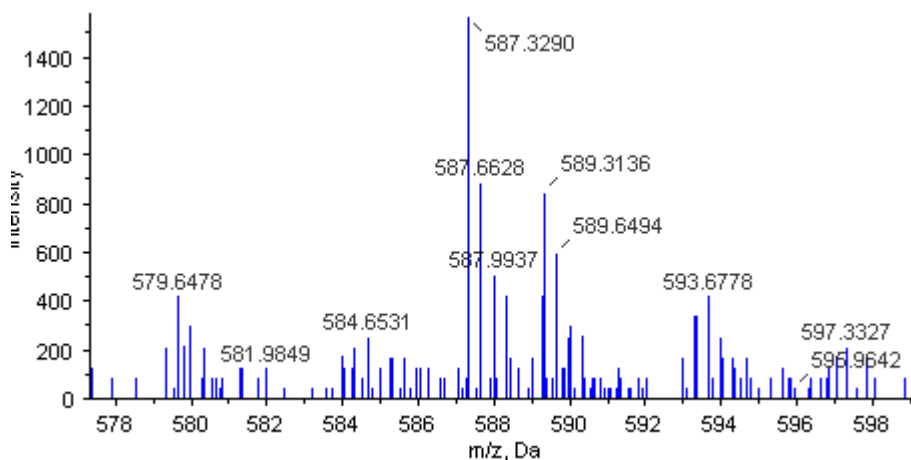
Seq Cov %: 7.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.31

116: 114=E5TL: D5TL=1.96

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSFFKWVSFVLIHLNPTLISCSNGLSQIPSKFLTLAKRNDFFDWMVGIRRRIHENPELGYEEVETS
KLVRAELEKM**GVS**YKYPVAVTGVVGYVGTGHAPFVALRADMDALAMQEMVEWEHKSKVPGKMHACGHDA
HTTMLLGAAKLLKEHEEEL**QGT**VVL**VFQPAE**EGGG**GAK**KIVEAGVLENVSAIFGLHVTNQLALGQVSSR
EGPMLAGSGFFKAKISGKGGHAALPQHTIDPILAASNIVSLQHLVSR**EADPLDSQV**TV**VAK**FEGGGAF
NVIPDSVTIGGTFRAFSTKSF**MLK**KRIEQVITRQASVNM CNATVDFIEEEKPFFPPTVNDKALHQFFK
NVSGD**MLGI**ENYVEMQPLMGSEDFSFYQQAIPGHFSFVGMQNKARSPMASPHSPYFEVNEELLPYGASL
HASMATRYLLELKASTLNKSNKKDEL

Protein No.: I-605

Protein name and Species:

Putative uncharacterized protein OS=Ricinus communis

GN=RCOM_0701460 PE=4 SV=1

Accession: tr|B9SC09|B9SC09_RICCO

Unused ProtScore: 4.03

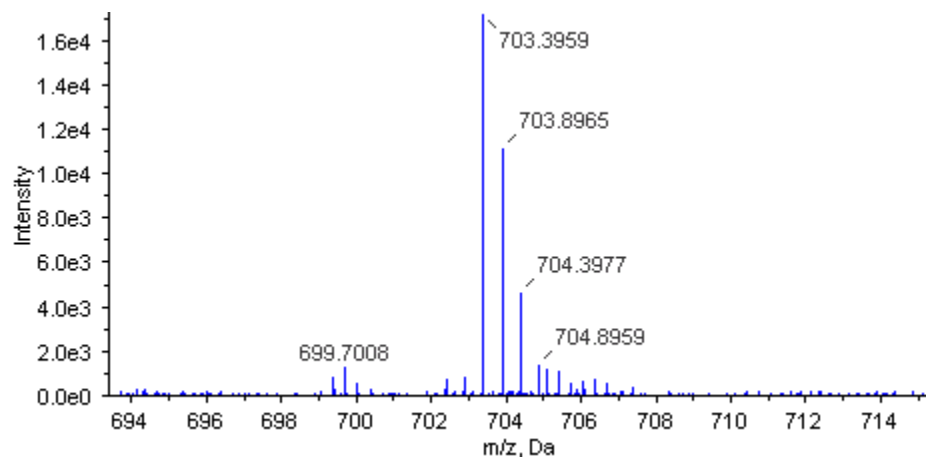
Seq Cov %: 8.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.48

116: 114=E5TL: D5TL=0.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPMLPKSVAIRSEFSRG**YAYYMAENEAVR**GFIRCEGENILNPYVKIEVETAQIDSKFVHLRFSHTNKY
WGRSGPGFTQDDYWVSATSDQPEEDTSKWSCTLFEPIFDHGFLFLRHVQTGGRVRTDGPIGATGPVSRL
LLYFRNYDNVPYLDFTFFDLGTLCLPKRVAFRGYNDMYLKAEWIERHEYLQFSSDDVNEKAAGYEITM
MPDGHVRLRSNFFNKFWRSPNWIWADSTDTVGSDDRTLFWPVK**VNDDTIALR**NAGNNR**FCSSTAERK**
TDCLNAAVATITREAR**LQVEELVFERS****IFNVR**FLMEYAR**IFDER**ATVAGWGS AENQSEEAATLSITVGY
EDTTSFTFSNSLAITAGVTVGITTGLPRIAEGKIEISTEVTNTLEWNRTTSETRTASATYLANVPARSR
IRIDYVATRGTCNIPFSYTQRDRLSHDGSFATTQHVDGVYTG VNYYSFHFEQPQIVPL

Protein No.: I-606

Protein name and Species:

Lipase class 3 family protein [Arabidopsis thaliana]

OS=Arabidopsis thaliana PE=4 SV=1

Accession: tr|Q9LUL3|Q9LUL3_ARATH

Unused ProtScore: 4.03

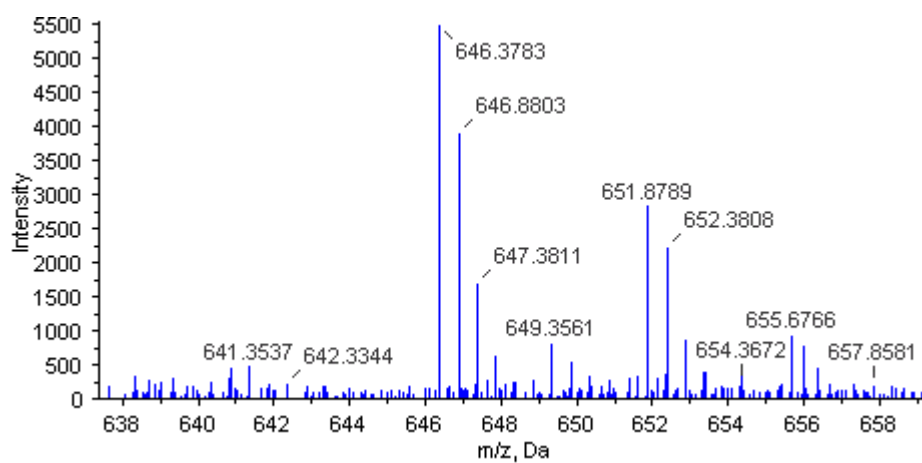
Seq Cov %: 4.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.21

116: 114=E5TL: D5TL=0.40

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MHKDNDSGSGSNPGQVSNYLIVRPHRGGY**IDLFR**YGVRDDQTSKAKFLEMPDNREWSTITIDEEAEDHR
WVIVVVSILVRKIIRLLRTPMEFTGFVVDFFLNLFSAANGGFFGLLLRLIQAKVVIPERGSVTFVSTIGQL
DGRISLYKEWNFVEHLEGIDSVDSGRVKIELGSR**GLMDLCVMASKLAYENAK**MNLVEFLDCWNDYQKQM
STQVFVFTDKQK**DANLIVISFR**GTEPFDADDWGTDFDYSWYEVNPGKLMGFLEAMGLGNRDDTTTFH
YNLFEQTSSEEENSKKNLDMVE**RSAYYAVR**VILKRLLEHENAR**FVVTGH**SLGGALAILFPTLLVLNE
ETEIMKR**LLGVYTFGQPR**IGNREVGLFMKAQLNQPVDRYFRVVCNDIVPRLPYDDKTFLYKHFGLCLF
YDSFYNETKAEDPDPNPYGLRYKILGHVIAVWELVRGLTMGYTHGPDYKEGWFRILFRMLGLVIPGLS
DHCMTDYVNSVRLGPDNELQMSSL

Protein No.: I-610

Protein name and Species:

dehydrogenase/reductase SDR family member 12 [Vitis
vinifera][Vitis vinifera] OS=Vitis vinifera
GN=VIT_18s0157g00200 PE=4 SV=1

Accession: tr|D7SXZ2|D7SXZ2_VITVI

Unused ProtScore: 4.02

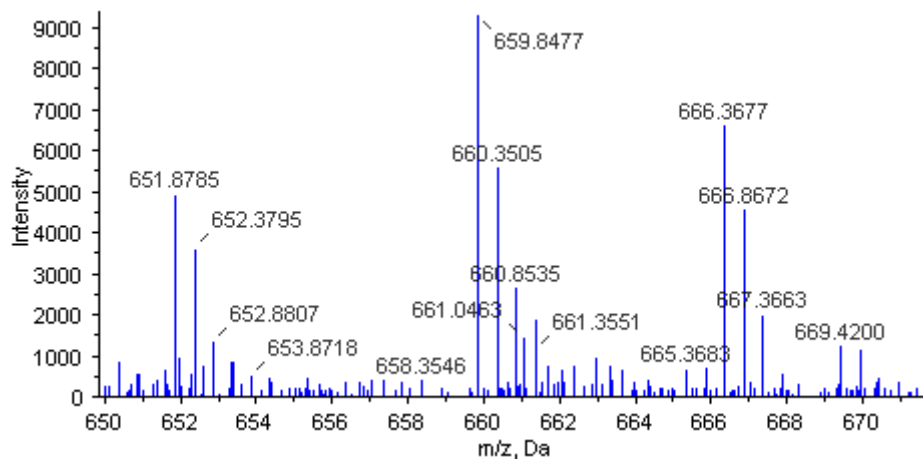
Seq Cov %: 15.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.91

116: 114=E5TL: D5TL=1.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MQNPTLHIQIHISIRESIMFILKTWRSIAFGVHGYKNSTKTGFMEHSKNFKSEDMQTQIEGK**NCIVTGA**
NSGIGYATAEGLASR**GANVYMVCR**NKERGEAALSEIQSK**TGNSNVHLEVCDLSSVSEIK**SFASKFSKDD
VPIHVLVNNAGLLEYNRITTSEGFELNFAVNVVLGTF'TMTESMLP LLEKAAPDARVITVSSGGMYSVPLT
NDLQFSDDKFDGVTQYARNKR**VQVALTEK**WAEMYKNKGIGFYAMHPGWAETSGLAKSLPGFYK**LLSGNL**
RTIEEGADTI IWLALQPKEK**LVSGAFYFDR**AEAPKHLMFAATRSSHAMIDSIIGNLRSFSGLSALSS

Protein No.: I-612

Protein name and Species:

**UTP-glucose-1-phosphate uridylyltransferase OS=Pyrus
pyrifolia PE=2 SV=1**

Accession: sp|O64459|UGPA_PYRPY

Unused ProtScore: 4.01

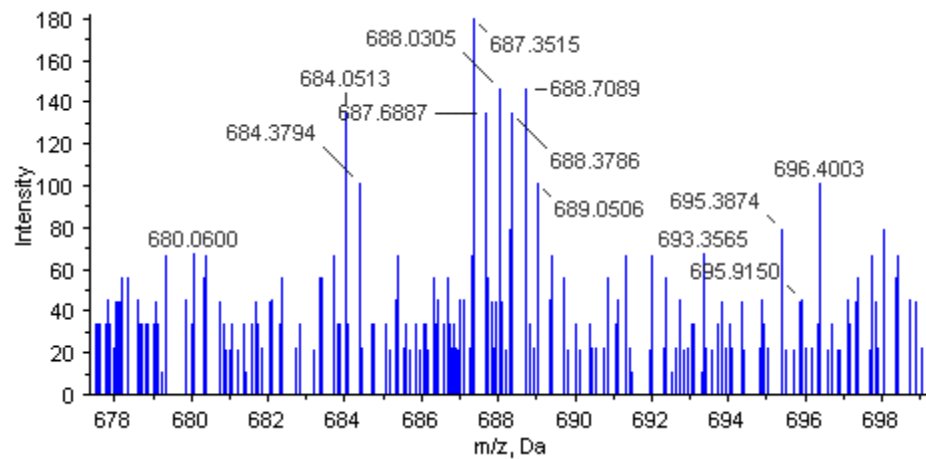
Seq Cov %: 23.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.27

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAVATGNVDK LKSDVASLSQISENEKNGFINLVSR YVSGEEAQHVEWSKIQTPTDEVVVPYDGLAPT
EDPEEIKKLLDKLVVLKLNGLGTTMGCTGPKSVIEVRNGLTFLLDLIVIQIENLNKYGSCVPLLLMNS
FNTHDDTQKIVEKYSKSNVQIHTFNQSQYPRLVVEDFSPLPSKGQTGKDGWYPPGHGDVFP
SLKNSGKL
DLLLSQGKEYVFIANSNDNLGAVVDLKIHLHLIQKKNEYCMVTPKTLADVKGTTLSYEGRVQ
LLEIAQ
VPDQHVNEFKSIEKFKIFNTNNLWVNLNAIKRLVEADALKMEIIPNPK EVDGKVLQLETAAGAAIRFF
NHAIGINVPRSRFLPVKATSDLLLVSQSDLYTLQDGFVTRNSARKNPENPTIELGPEFKKVG
SYLSRFKS
IPSILELESKLVSGDVWFGAGVVLKGVKVTITAKSGVKLEIPDNAVIANKDINGPEDL

Protein No.: I-613

Protein name and Species:

Chitinase OS=Euonymus europaeus PE=2 SV=1

Accession: tr|Q7Y237|Q7Y237_EUOEU

Unused ProtScore: 4.01

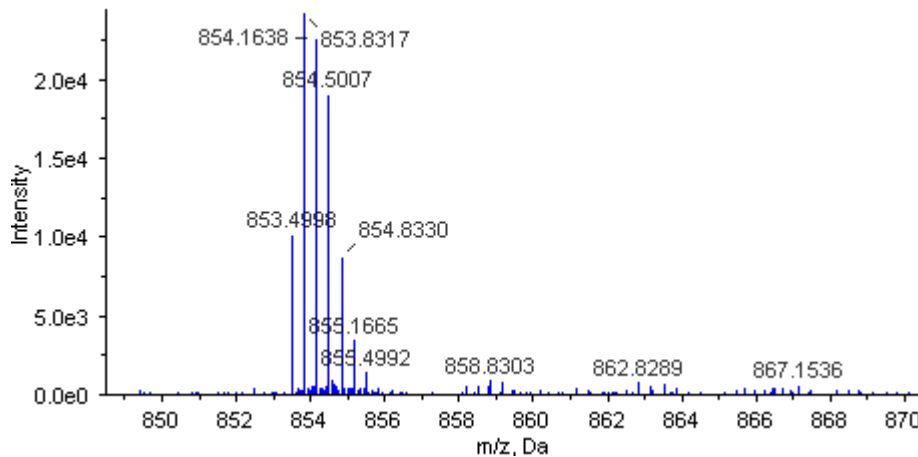
Seq Cov %: 13.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.24

116: 114=E5TL: D5TL=0.21

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRFVWF^TILSL^SLS^VLGSA^EQCGR^QAGGALCPGGQCCSQY^GWC^GTTNE^YCG^QGC^SQ^SCGGSGGGDIGG
IISRDRFNDILK^RNDNACEGKGF^YSHDAFL^TAAKAYPAF^GTTGDDAT^RKREIAAFLAQT^SHETTGGWP
SAPDGPYSWGYCFV^RERNPPSS^YCDPN^YPCPK^QYYGRG^PLQLSW^NYN^YAQ^AGRAIG^VDLIN^NPDLVATD
AVIS^FKTAIWFWMTAQSPK^SCHD^VIIGSWR^PSGAD^TAAGR^VSGYGV^ITNIING^GIECGK^GQNPQVEDR
IGFFRRY^CQILGTGTGN^NLDCYN^QRPFGARLLLLDTI

Protein No.: I-618

Protein name and Species:

HEV1.2 OS=Hevea brasiliensis PE=4 SV=1

Accession: tr|Q6JYQ9|Q6JYQ9_HEVBR

Unused ProtScore: 4

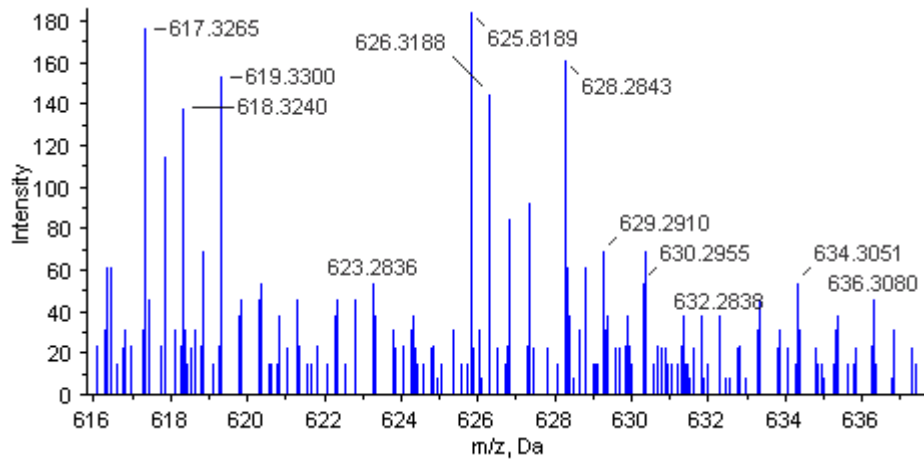
Seq Cov %: 64.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.33

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MN¹ICM¹VVLL¹CL¹TGVAIA¹EQ²CGR³QAG⁴GK⁵LCP⁶NNL⁷CCS⁸QY⁹GW¹⁰CG¹¹SS¹²DD¹³YC¹⁴SP¹⁵SK¹⁶NC¹⁷Q¹⁸SN¹⁹CK²⁰GGGGGGGGSG
GSAS²¹NV²²LAT²³YH²⁴LY²⁵NP²⁶QQ²⁷HG²⁸WDL²⁹NAV³⁰SAY³¹CST³²WD³³ANK³⁴PY³⁵SW³⁶RS³⁷KY³⁸GW³⁹TAF⁴⁰CG⁴¹PV⁴²GA⁴³HG⁴⁴QP⁴⁵SC⁴⁶GK⁴⁷CL⁴⁸SV⁴⁹TN
TGT⁵⁰GAK⁵¹TT⁵²VR⁵³IV⁵⁴DQ⁵⁵CS⁵⁶NG⁵⁷GL⁵⁸DL⁵⁹DV⁶⁰NV⁶¹FR⁶²QL⁶³DT⁶⁴DG⁶⁵KY⁶⁶ER⁶⁷GH⁶⁸LT⁶⁹VNY⁷⁰QF⁷¹VDC⁷²GD⁷³SF⁷⁴NP⁷⁵LF⁷⁶S⁷⁷IV⁷⁸K⁷⁹SS⁸⁰VIN

Protein No.: I-625

Protein name and Species:

Pyruvate kinase OS=Ricinus communis GN=RCOM_0248610

PE=3 SV=1

Accession: tr|B9ST42|B9ST42_RICCO

Unused ProtScore: 4

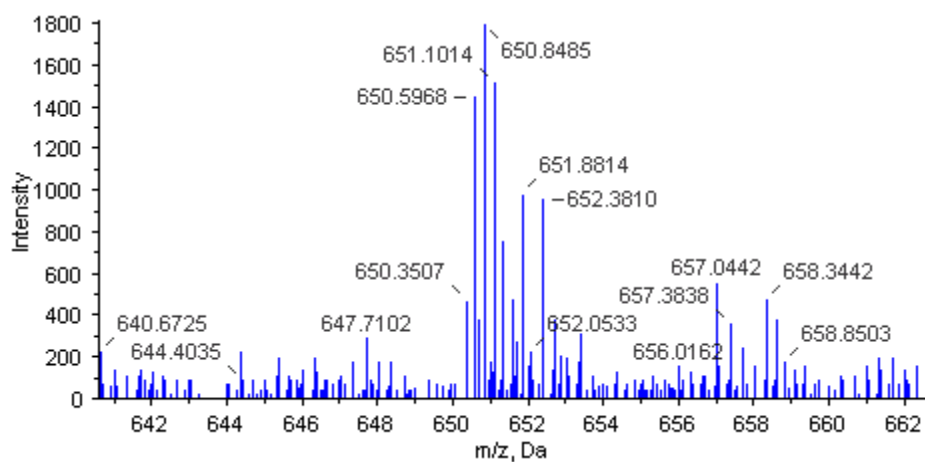
Seq Cov %: 14.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=1.05

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MQGGHMVVEEPLRLSSILTPSKPSYLPSTLTK**IVGTLGPK**SRSVETIEACLNAGMSVARFDFSWLDVDYH
QETLNNLRQAMRNAKKLCAVMVDTVGPELPICNQTVKQIELK**ADNRVTITSDVSK**EPSAEILPVNFSGL
SQILKKGDTVFLGQYLFTGSENTSVWLEVLETNGKDVVCLVKNSATLTGFVLMH**ISQVL**SSLPTLTDND
KKVISEWGCSDNVDIISLSYTRNVEDVREL**RAFIKTHSLHETQVFAK**IETVEGLKHFDEILQEADGIIL
GR**GNLGIDLPEKVFLFQKSAVYKCNMAGKPVIIISR**VVDSMTANLR**PTRAEATDVANAVLDGADGILLG**
AETLRGLYPIDTIRTVGRICAEAEIVCNHSFHFKRISRHVGEPM SHAESVASSAVRAAIKVKAPLIVVF
TSSGAAPR**LIAKYRPPVPVFAVVIPR**LRSNLTKWSFT**GSAEARQLLGVRGVYPILASPLVATSGASSEV**
STLKVALDHGKSVGLLKPNDQIVVFEKIGDSSVVRIMQLPS

Protein No.: I-628

Protein name and Species:

TBC1 domain family member 13 OS=Populus trichocarpa

GN=POPTRDRAFT_174838 PE=4 SV=1

Accession: tr|B9GFV7|B9GFV7_POPTR

Unused ProtScore: 4

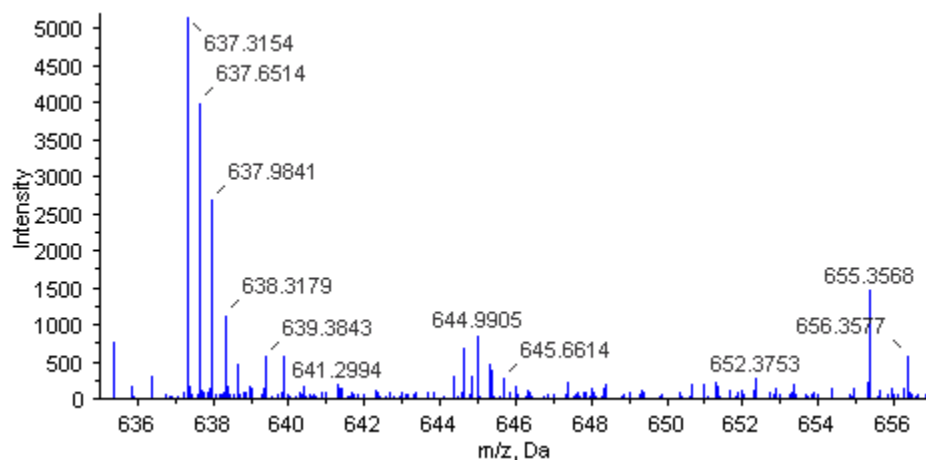
Seq Cov %: 8.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.22

116: 114=E5TL: D5TL=0.22

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

SAAEDISKQALLLTELSKKVINMGELRRIASQGIPDGAGIRSTVWK**LLLGYLAPDR**SLWSSELAKKRSQ
YKHFKEDLLMNPSEIARRLEKTTVLNNDNGKSESRCVLSRSEITHGEHPLSLGKSSVWNQFFQDSEIE
QIDRDVKRTHPDLHFFSGD**SSLAK**SNQEALRNILTVFAKLNP GIRYVQGMNEILAPLFYIFKNDPDEEM
AACAEADTFFCFVELLSGFR**DHFCQQLDNSVVGIR**STITRLSQLLKEHDEELWRHLEITTKVNPQFYAF
RWITLLLTTQEFNFADSLHIWDTLLSDPEGPQETLLRVCCAM**LILIR**RRLLAGDFTSILKLLQNYPTNI
SHMLYVANKLR

Protein No.: I-631

Protein name and Species:

Cytochrome b5 OS=Camellia sinensis PE=2 SV=1

Accession: [tr|F4YFE3|F4YFE3_CAMSI](#)

Unused ProtScore: 4

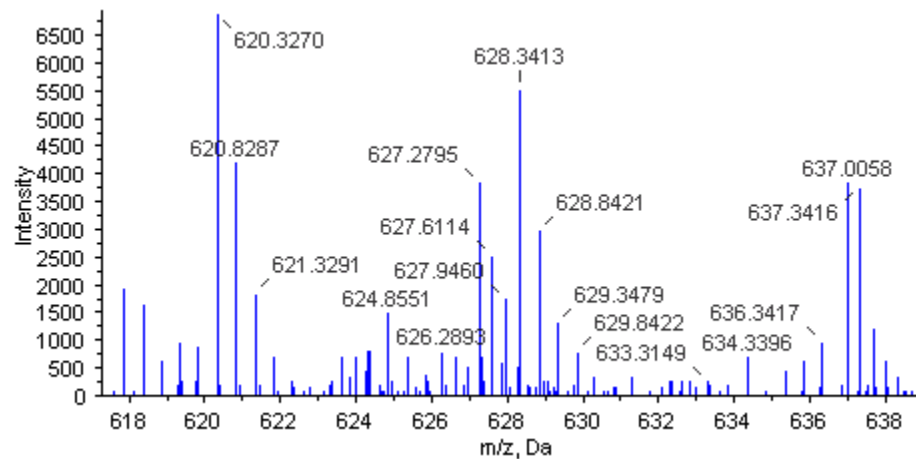
Seq Cov %: 29.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.05

116: 114=E5TL: D5TL=2.04

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASDPKIHTFEEVAKHNKTKDCWLILSGK**VYDVT**PFMDDHPGGDEVLLS**STG**KDATNDFEDVGHSDSAR

EMMEKYYIIGGIDSSTVPLKRSYIPPQQSHYKPKDKTP**EFVIK**IFQFLVPLLLILGLAFGVRYYTKEK

Protein No.: I-634

Protein name and Species:

Putative uncharacterized protei OS=Glycine max PE=2 SV=1

Accession: tr|C6TGB0|C6TGB0_SOYBN

Unused ProtScore: 4

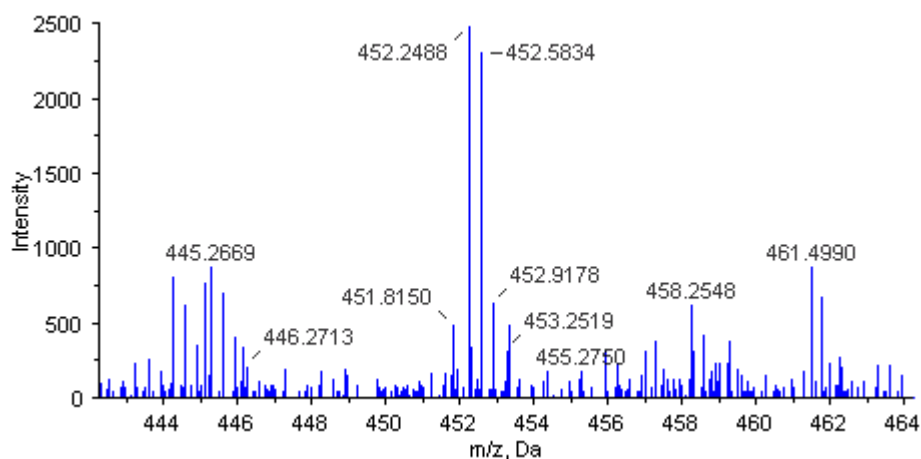
Seq Cov %: 5.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.46

116: 114=E5TL: D5TL=1.44

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MESASELVEFPLLLTPIDSNYR**ACTIPYR**FPSDNPRKPTPTEISWIDLFLNSIPSFKKRAESDTSVP**DA**
AAKAEKFAQRYADILEDLKKDPESHGGPPDCILLCRLRELVLRELGFRDIFKKVKDEENAKAISLSENV
VH**LND****AI****EDEGK**RLENLVRGIFAGNIFDLGSAQLVEVFSKDGMSFLASCQNLVPRPWVIDDLDTFKLKW
SKNPWKKVIFVDNSGADIIILGIMPFARELLRRGSQVLAANDLPSINDVTCSELV**EIISK**LKDEDGQL
VGVSTSNLLIANSGNDLPVIDLTRVSQELAYLASDADLVTL~~E~~GMGRGIETNLYAQFKCDSLKI**GMVKHP**
EVAQFLGGR**LYDCVFKYNEVSS**

Protein No.: I-643

Protein name and Species:

Translation machinery-associated protein 7-like OS=Hevea brasiliensis PE=4 SV=1

Accession: tr|D9IZZ6|D9IZZ6_HEVBR

Unused ProtScore: 4

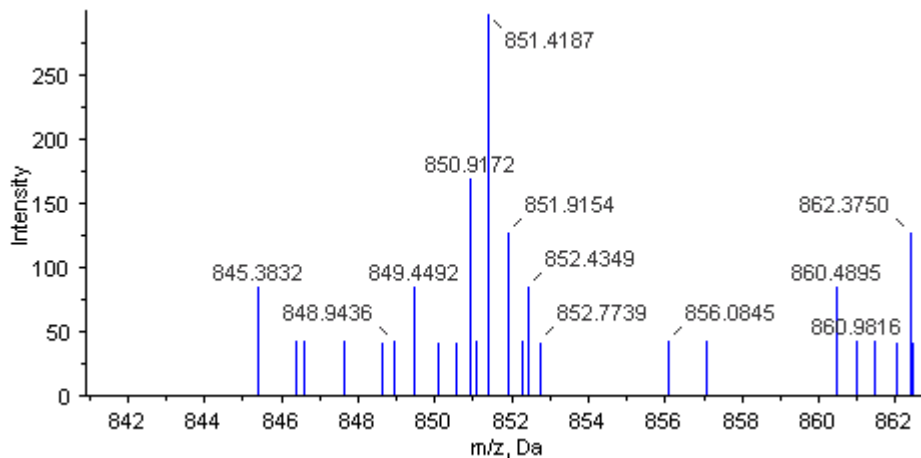
Seq Cov %: 32.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.30

116: 114=E5TL: D5TL=1.26

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSSKQGGKAKPLEQPKAEEKK**DYDETDANIQK**KKEEEKALKELRAKAAQK**GTFGGGSLK**KSGKK

Protein No.: I-648

Protein name and Species:

20 kDa chaperonin, chloroplastic OS=Vitis vinifera

GN=VIT_17s0000g03620 PE=3 SV=1

Accession: tr|D7SIZ7|D7SIZ7_VITVI

Unused ProtScore: 3.96

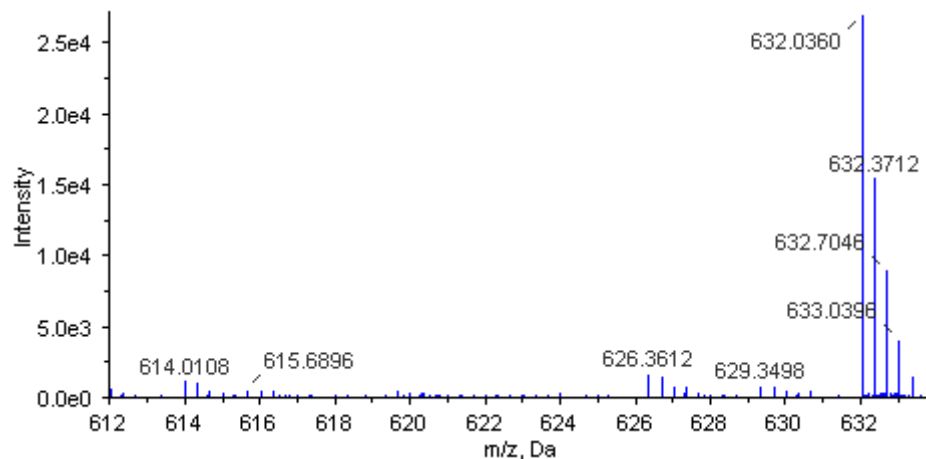
Seq Cov %: 10.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.22

116: 114=E5TL: D5TL=0.59

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATAPAISTRSLPSFEGLRPSTVVRVPLVRLPLRAAGLTQRPVVRGLVVRRAATSIGPKYTSLKPLADRVLV
KIKTVEEKTGGGILLPPTTAQTKPQGGEVVAVGEGRTVGKNKVDIGVKTGTSVVYSKYAGTELEFNGSNH
LILKEDDIVGILETDDIKDLKPLNDRVLIKVAVAEKTAGLLLTTEATKEKPSIGTVIAVGPGLDGE
NRKPLSLSPGSTIMYSKYAGNEFKGSDGSDYIALRASDVMVAVLS

Protein No.: I-650

Protein name and Species:

Ribosomal protein (Fragment) OS=Jatropha curcas PE=2 SV=1

Accession: tr|D1ML39|D1ML39_9ROSI

Unused ProtScore: 3.95

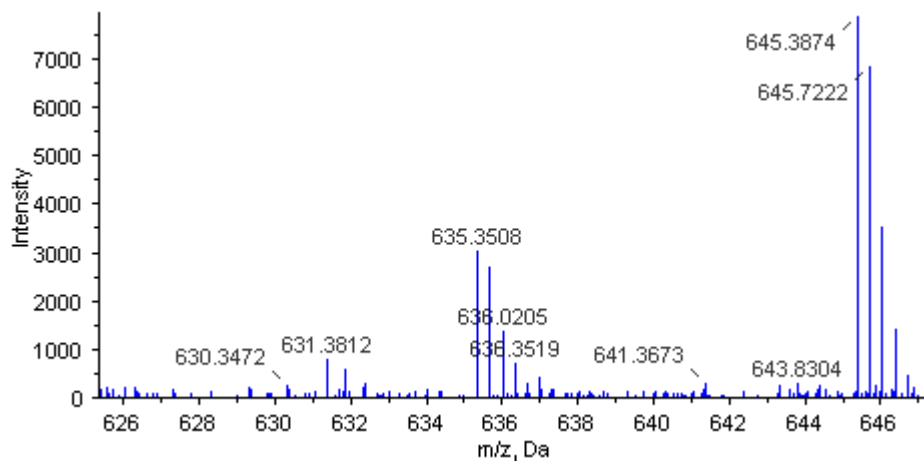
Seq Cov %: 16.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=11.48

116: 114=E5TL: D5TL=2.11

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

QSETLREAISTIMAASVEKRNFTETIELQ**I**GLKNYDPQKDKCFSGSVKLPHIPRPKMKICMLGDAQHV
EEAEAIGLQWMDVEALKKLNKNKLVKKLAK**Q**YHAF**L**ASESVIKQIPR**LL**GPGLNKAGK**F**P**T**LV**T**HQ**E**S
LESKVN**E**T**K**AT**V**K**F**QLKKV**L**CMGVAVGNCAMEEKQVFQNVQMSVNF**L**VS**L**LLKKNWQNVK**C**LN**V**KT**T**MG**N**
PVRIF

Protein No.: I-651

Protein name and Species:

Calcium lipid binding protein, putative OS=Ricinus communis

GN=RCOM_1612600 PE=4 SV=1

Accession: tr|B9RDG1|B9RDG1_RICCO

Unused ProtScore: 3.94

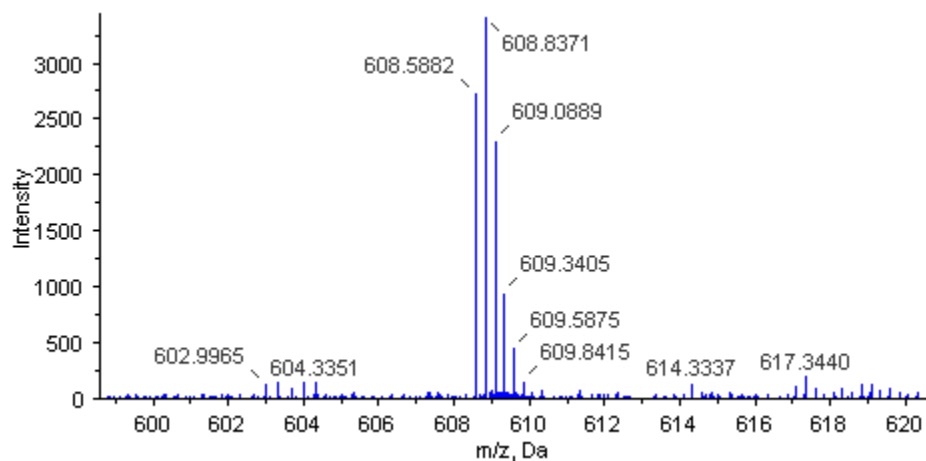
Seq Cov %: 9.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.40

116: 114=E5TL: D5TL=2.06

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGLISGIFMGMIIFGIAVMAGWKHMMRYRSTKRIAKAVDIK**LLGSLNR**DDLKKICGDNFPDWISFPVFEEQ
VKWLNKQLSK**LWPFVADAATMVVKESVEPLLEDYRPPGITS**SLK**FNKFSLGTVPPK**IEGIRVQSLKKGQI
IMDIDFRWGGDPSIILGVEAALVASIPIQLKDL**EVYTVIR**VIFQLAEEIPCISAVVIALLLSEPKPK**IDY**
VLKAVGGSLTAIPGLSDMIDDTVHSIVTDMLQWPHRVVVP**IGGIPVD**TSELELKPEGK**LTVT**VVKANDL
KNMEMIGK**SDPYVVL**YIR**PMFKVKSRTIENNLNPVWDQTFEMIAEDKETQSLILE**VFDKDIGQDKRLGI
AKLPLIELEAETWKQHELRL**LLPALDMLK**IKDKKDGGLTIKVLVYHAFNK**EEQLAALEEEKR**IIIEERKKL
KEAGVIGSTMDALDGAVGLVGTGIASGVGLVGTGIGAGVGLVGTGVGAGVGIVGSGLGAVGSGLSKAGK
FVGRFTFTGQSSKR**SGSSTPVNSVQENGGAKPL**

Protein No.: I-653

Protein name and Species:

Quercetin 3-O-methyltransferase 1 OS=Arabidopsis thaliana

GN=OMT1 PE=1 SV=1

Accession: sp|Q9FK25|OMT1_ARATH

Unused ProtScore: 3.92

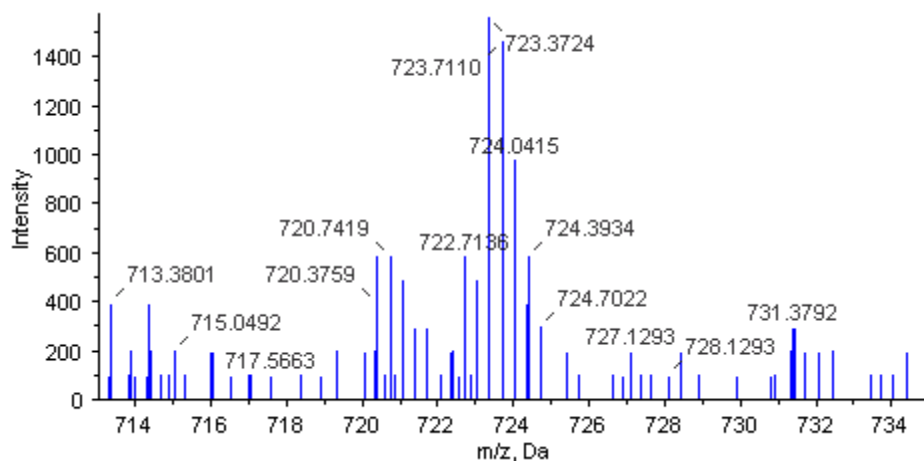
Seq Cov %: 8.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.13

116: 114=E5TL: D5TL=0.70

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGSTAETQLTPVQVTDDEAALFAMQLASASVLPALKSALELDLLEIMAKNGSPMSPT**EIASKLPTK**NP
EAPVMLDRILRLLTSYSVLTCSNRKLSGDGVER**IYGLGPVCK**YLT**K**NEDGV**SIAALCLMNQDK**VL**MESW**
YHLKDAILDGGIPFN**KAYGMSAF**EYHGTDPRFNKVFNN**GMSNHSTITMK**K**I**LE**TYK**GF**EGLT**SLVDVGG
GIG**ATLKMIVSK**Y**P**N**LK**INFDLPHVIEDAPSHPGIEHVGGDMFVSV**PK****GDAIFMK**WICH**DWSDEHCVK**
FLKNCY**ESLPEDGK****VILAECILPETPDSSLSTK**QVVHVDCIMLAHNP**GGKER****TEKEFEALAK**ASGF**KGI**
KVVCD**AFGVNL****TELLK**KL

Protein No.: I-666

Protein name and Species:

glyceraldehyde-3-phosphate dehydrogenase, NADP-dependent

OS=*Vitis vinifera* GN=VIT_11s0037g00070 PE=3 SV=1

Accession: [tr|D7U1A1|D7U1A1_VITVI](#)

Unused ProtScore: 3.83

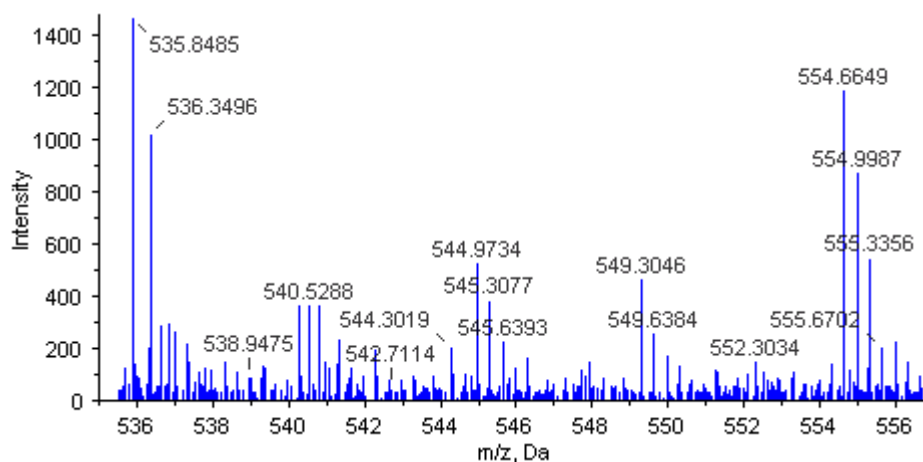
Seq Cov %: 44.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.24

116: 114=E5TL: D5TL=0.99

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAGTGVFAEIIDGDVYKYYSEGEWRKAVSGKSVAILINPTTRKTQYRVQACSQEEVNKAMEIAKSAQKIW
AKTPLWKRAELLHKAAAILKEHKAPIAECLVKEIAKPAKDAVTEVVRSGDLVSYTAEEGVRI LGEGKFL
VSDSFPGNERSKYCLTSKIPLGVILAIPPFNYPVNLAVSKIAPALIAGNSIVLKPPTQGAVSALHMHVC
FHLAGFPKGVISCVTGKGSEIGDFLTMHPGVNCISFTGGDTGVAISKKAGMIPLQME LGGKDACIVLED
ADLDLVAANIVKGGFSYSGQRCTAVKVVLAMESIADTLVEKVNKAVAKLTVGPPEDDCDITPVVSESSA
NFIEGLVMDAKQKGATFCQEYRREGNLIWPLLLDNVRPDMRIAWEEPFGPVLPLRLINSVEEGIHHCNA
SNFGLQGCVFTRDINKAILISDAMETGTVQINSAPARGPDHFFQGLKDSGIGSQGITNSINMMTKIKS
TVINLPSPSYTMG

Protein No.: I-668

Protein name and Species:

Neutral leucine aminopeptidase preprotein OS=Solanum
lycopersicum GN=LapN PE=2 SV=1

Accession: [tr|Q8GZD8|Q8GZD8_SOLLC](#)

Unused ProtScore: 3.82

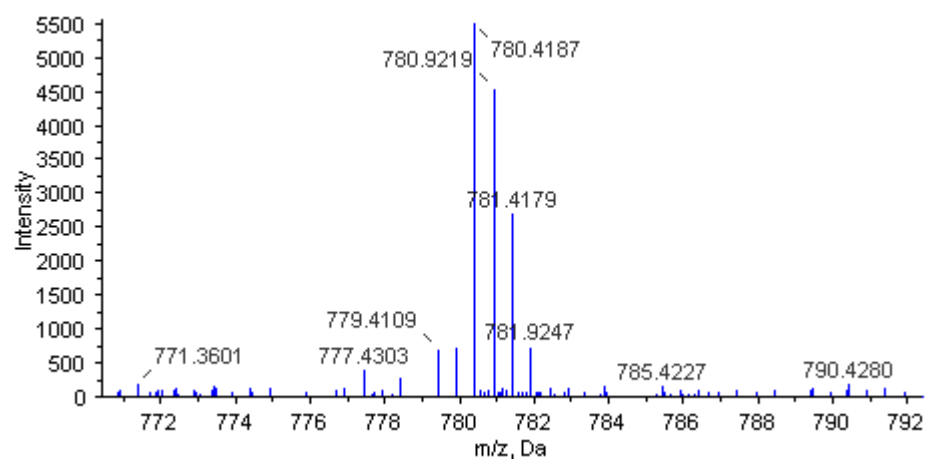
Seq Cov %: 13.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.50

116: 114=E5TL: D5TL=1.13

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAALRVSSALACSSSSSFHSYP**SIFTK**FQSSPIWSFSISVTP LCSRRRAKMAHSIARDTLGLTHTNQSD
APKIS**FAAKE**EIDLVEWKGDILTVGATEKDLARDGNSKFQNPLLQKLD SKLSGLLSEASSEED**FSGK**AGQ
STILR**LPLGLGSK**RIALVGLGSPTSSTAAYRCLGEA**AAAAAK**SAQASNIAIALASTDGLSAELK**LSSASA**
ITTGAVLGTFEDNRFK**SESK**KPTLK**SLDILGLGTGPEIEK**KIKYAADV CAGVILGRELVNAPANVLT
PAVLAEAEAKKIASTYSDFVFSANILDVEQCKELKMG SYLAVAAA SANPAHF IHL CYKPSSGEIKKK**IALVGK**
GLTFDSGGYNIKTGPGCSIELMKFDMGGAAAVL**GAAK**ALGQIKPAGVEVHFIVAACENMISGTGMR**PGD**
IITASNGKTIEVNNTDAEGRLTLADALVYACNQVEKIVDLATLTGACVVALGP**SIAGIFTPSDDL**AKE
VVAASEVSGEKLWRLPMEDSYWDSMK**SGVADMVNTGGR**PGGAIITAALFLKQFVNEKVQWMHIDLAGPVW
SDKKKNATGFGVSTLVEWVLKNSTN

Protein No.: I-680

Protein name and Species:

hydrolase domain-containing protein 4-like [Vitis vinifera]

OS=Vitis vinifera GN=VIT_18s0001g13610 PE=4 SV=1

Accession: tr|E0CPI5|E0CPI5_VITVI

Unused ProtScore: 3.74

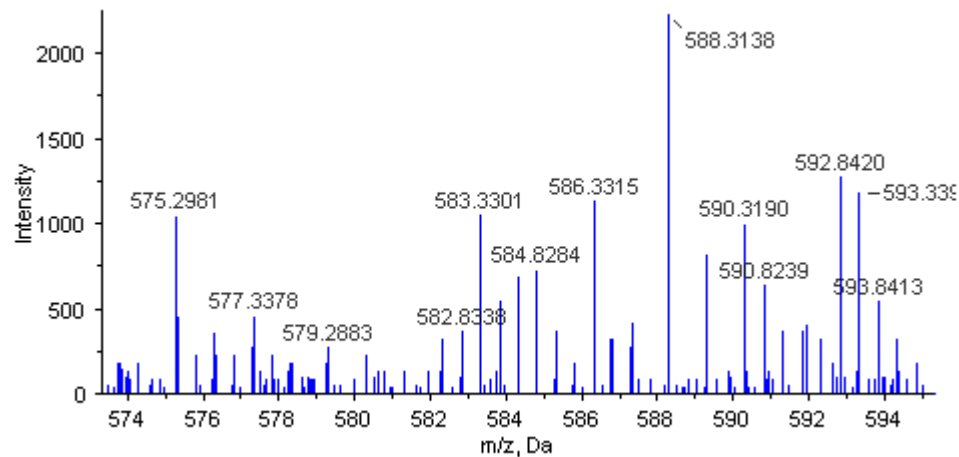
Seq Cov %: 14.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=9.46

116: 114=E5TL: D5TL=2.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEMTKAELGSSSSSTTKSRSLWPSLFRWIPTSTDHIIIDAEKRLLSLVKTPYVQEQVNIGSGPPGSKVR
WFRSASNEPRFINTVTFDSKDDSPTLVMVHGYGASQGFFFRNFDALARRFRVIAIDQLGWGGSRRPDFT
CKSTEETEAWFIDSFEEWRKAKNLSNFILLGHSVGGYVAAKYALKHPEHIQHLLILVGPAGFSLESDGKS
EWLTRFRATWKGAVLNHLWESNFTPQKLVIRGIGPWGPDIVRKYTSARFSSYSTGDLLEESKLLTDYV
YHTVAAKASGELCLKYIFSFQAFARLPLLHSASEWKVPTTFIYGFEDWMNYQGAQEARKQMKVPCIIIR
VPQAGHFVVIDNPSGFHSAVLYACRRFLLPDPDSQSLPEGLTSA

Protein No.: I-683

Protein name and Species:

**bifunctional polymyxin resistance protein;
UDP-D-apiose/UPD-D-xylose synthetase [Vitis vinifera]
OS=Vitis vinifera**

Accession: [tr|D7SN69|D7SN69_VITVI](#)

Unused ProtScore: 3.7

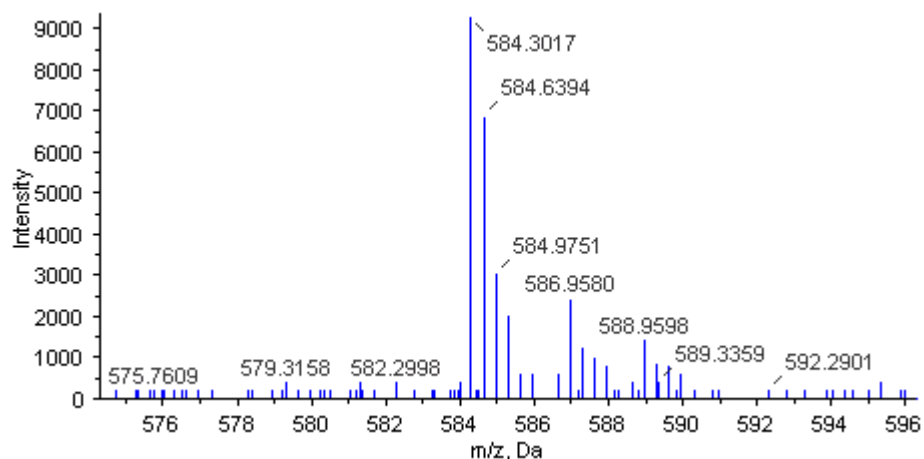
Seq Cov %: 26.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.31

116: 114=E5TL: D5TL=2.04

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASAARLDLDGNAIKPMTICMIGAGGFIGSHLCEK_LMAETMHKVLAVDVYSDKIKHLLLEPSTHPWSDRI
QFHRINIKHDSRLEGLIKMADLTINLAAICTPADYNTR_{PLD}TIYSNFIDALPVVKY_CSENNKR_{LIHFST}
CEVYGKTIGSF_LPK_DSPLWQDPTYYVLKEDASPCIFGPIEK_{QRWSYACAKQLIERLIYAEGAENDLEFT}
IVRPFNWIGPRMDFIPGIDGPSEG_VPR_{VLACFS}NNLLR_{HEPLKLV}DGGQ_{SQR}TFVYIKDAIEAVLLMID
NPARANGHIFNVGNPNNEVT_{VR}QLAEMMTEVYAKVSGEPSLEVPTVDVSSKEFYGEGYDDSDKR_{IPD}MT
IINKQLGWNPKTSLWDLLESTLTYQHR_{TY}AEAIK_{QA}IAKPVAS

Protein No.: I-687

Protein name and Species:

V-type proton ATPase subunit F OS=Hevea brasiliensis

GN=VHA-F PE=2 SV=1

Accession: tr|B8Y6I1|B8Y6I1_HEVBR

Unused ProtScore: 3.68

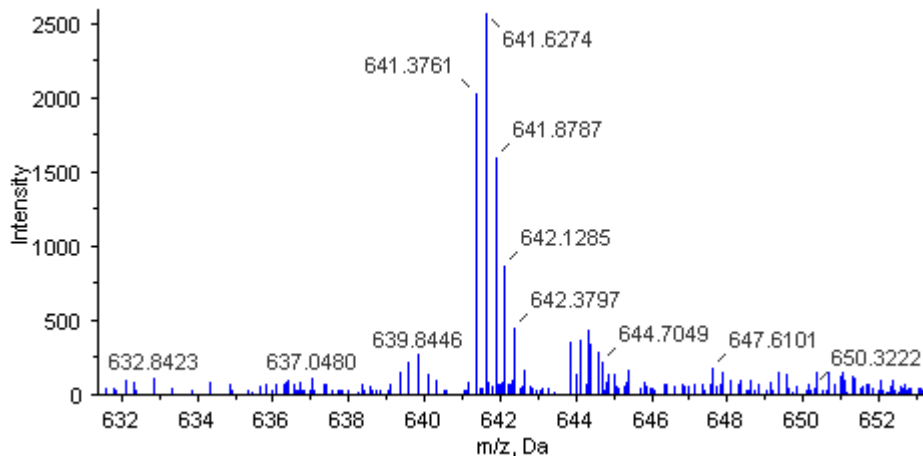
Seq Cov %: 21.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.69

116: 114=E5TL: D5TL=1.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANRVQIPTSN SALIAMI ADEDSVVG FLLAGVGNVDLR RKSNYLLVDSK TTVKQIE DAFKDF TTREDIA
IVLISQYVANMVR FLVDSYNKPVPAILEIPSK DHPYDPAQDSVLSRVKHLFSAESVASERR

Protein No.: I-688

Protein name and Species:

argininosuccinate lyase [Vitis vinifera] OS=Vitis vinifera

GN=VIT_18s0001g07590 PE=3 SV=1

Accession: tr|E0CRW7|E0CRW7_VITVI

Unused ProtScore: 3.66

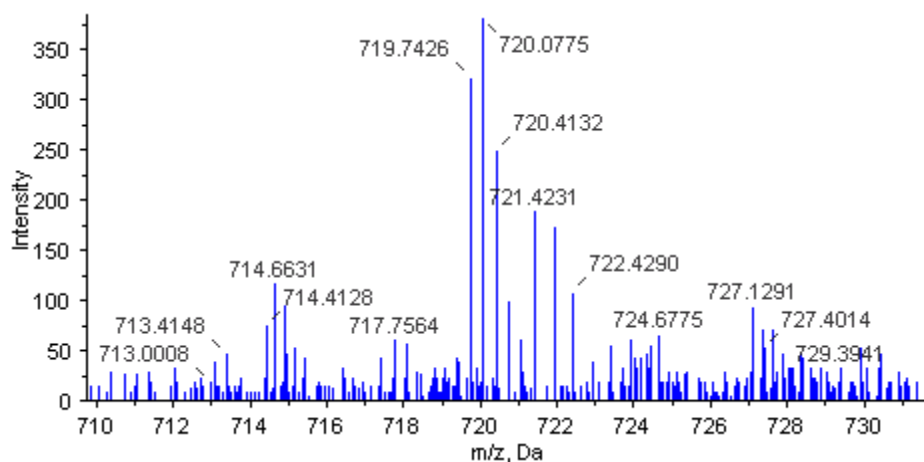
Seq Cov %: 8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.54

116: 114=E5TL: D5TL=0.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKTSATDPSTKKAKEAKLWGGRFEEGVTD AVER**FTESISFDK**ALYKQDIMGSRASMLAHQGLISVSD
RDSILQGLDNIERRIEDGEFVWRDREDVHMNIEAALTDLIGEPAKKLHTARSRNDQVLTDFRLWCR**DA**
IDNIVARIEHLQVALVTLAMKNENLIVPGYTHLQRAQPILLQHLLLAYVEQLDRDAGRLLDCRQR**LNFC**
PLGACALAGTGLPIDRFMTSHDLGFNAPMRNSIDAVSDRDFVLEFLSANSITAIHLSRLGEEVWLWASE
EFGFLTSPSDSVSTGSSIMPQKKNPDPMELVRGKSARVVGDVLTLLVLCKGLPHAYNRDLQEDKEPTFDS
TKTIIIGMLEVCAEFAQNITFNREKIKK**ALPAGHLDATTLADYLVK**KGIPFRTSHDIVGKSVALCVSK**NC**
QLQDLSLDELRSVNPVFEDEVYEFLLGVENAVKKFCSYGSTGSECVAEQLDVFWTKLQIN**TAGHK**

Protein No.: I-692

Protein name and Species:

Homogentisate 1,2-dioxygenase, putative OS=Ricinus communis

GN=RCOM_1743950 PE=4 SV=1

Accession: tr|B9RXB8|B9RXB8_RICCO

Unused ProtScore: 3.63

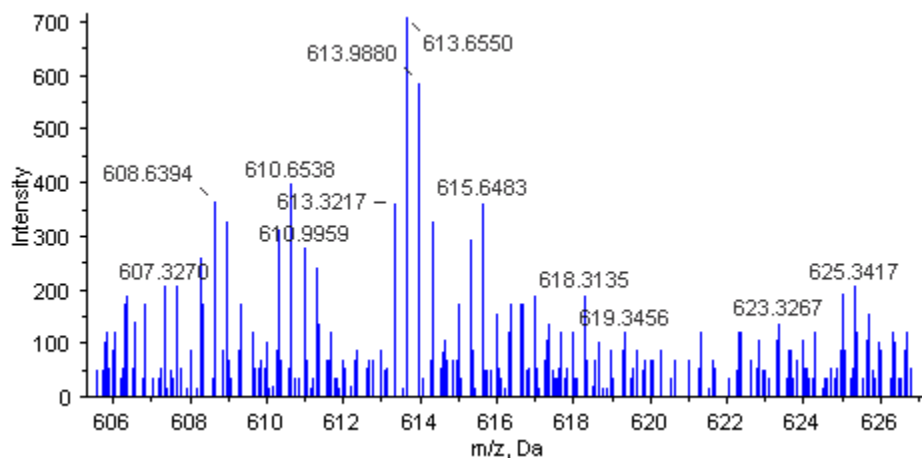
Seq Cov %: 7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.09

116: 114=E5TL: D5TL=0.19

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDNPKSNGRDFPSDDHDYLSGFGNTFESEAIHGALPRGQNSPLICPYGLYAEQISGSSFTSPRKLSQRS
WLYRIKPSVTHEPFKPRVPSHGKIVSEFDKTDSCSTTPTQLRWKPVDIPDSPTDFIDGLFTICGAGSSF
LRHGFAIHMYTANKSMGNALCNADGDFLVVPQEGRLWITTECGKLQVSPGEVVVLPQGFRFAVDLPDG
PSRGGYVAEIFGTHFQLPDLGPIGANGLAAPRDFLVPKAWYEEGPCPGYTI IQKFGGELFTAKQDFSPFN
VVAWHGNFVVPYKYDLKKFCPYNTVLIHSDPSINTVLTASTDKPGVALLDFVIFPPRWLVAEHTFRPPY
YHRNCSEFMGLIYGGYEAKADGFVPGGASLHSCMTPHGPDTKTYEATIARGNDAGPSRITDTMAFMFE
SCLIPRICLWAVESPFIDHDYYQCWIGLKSHFSHGADSKNGGI

Protein No.: I-694

Protein name and Species:

3-isopropylmalate dehydratase, putative OS=Ricinus communis

GN=RCOM_1217310 PE=4 SV=1

Accession: tr|B9SQS5|B9SQS5_RICCO

Unused ProtScore: 3.61

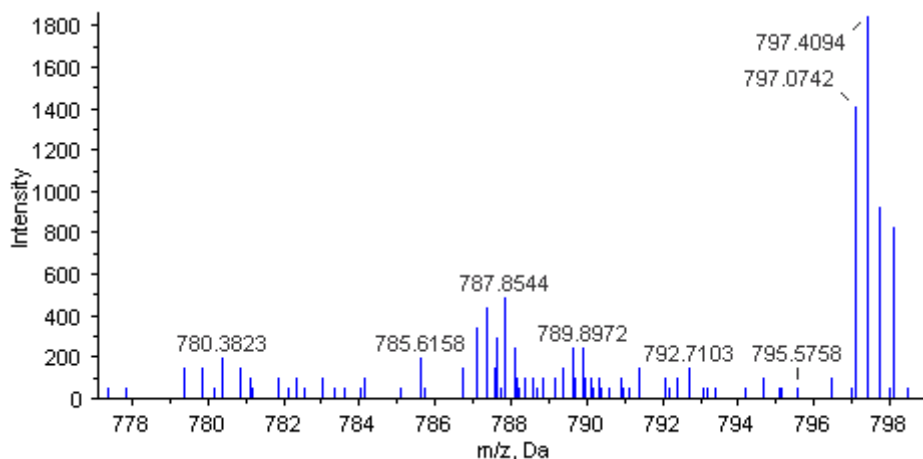
Seq Cov %: 8.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.48

116: 114=E5TL: D5TL=0.67

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASSAITSPSSSFITKKDLGLSAFSSQSSPFYSIPKCKKSIKSKVVSVMAPQQSERTPATTGSVKTAMT
MTEKILARASEKSQLSPGENVWVNVLDVLMTHDVCGPGSIGIFKREFGQATVWDREKIVIIPDHYIFTT
DERANRNVDILRDFCQEQNVKYFYDIKDLSNFKVNPDYKGVCHVALAQEGHCRPGEVLLGTDSTCTAG
AFGQFATGIGNTDAGFVLGTGKLLKVPPTLRVMDGEMPDYLLAKDLILQIIGEISVSGATYKSMEFV
GTTVESLNMEERMTLCNMVVEAGGKNGVIPSDSTTFKYLEDKTSVPPFEPVYSDEKARFLSEYRFDVSKL
EPLVAKPHSPDNCALARECKDVKIDRVYIGSCTGGKTEDFMAAAKVFLLASGKKVKVPTFLVPATQKVWM
DVYSLPVPGSGGKTCSQIFEEAGCDTPASPCGACLGPKDTYARMNEPMVCVSTTNRNFPGRMGHKEG
QIYLASPYTAAASALTGYVTDPREFLQ

Protein No.: I-700

Protein name and Species:

Protein-L-isoaspartate O-methyltransferase OS=Ricinus
communis GN=RCOM_1508020 PE=3 SV=1

Accession: tr|B9RAR0|B9RAR0_RICCO

Unused ProtScore: 3.54

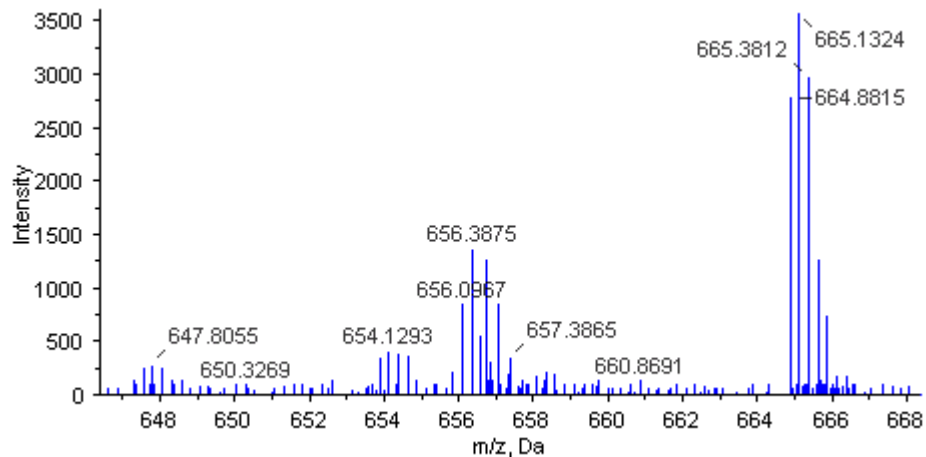
Seq Cov %: 15.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.87

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPISPVIAYGCRNYYYYVPVPLKRILTYSEFRKNHLHHNNSHRCF**LLLLR**TTTNFHPQFSTFNLI PRKLY
CPFTGNSLFFRMERFFAGSGINKNKAMVEHLQHYGVISSRK**VVEVMETIDR**ALFVPDGTQAYVDSMPPI
GYNATISAPHMHATCLQLLEEHLKPGMHALDVGSGTGYLTA CF AIMVGPQGR**AVGVEHIPELVTSSVK**N
ILK**SAAAPLLK**EGFLSVHIGDGRQGWPEFAPYDAIHVGAAAPEIPQALIDQLKPGGR**MVIPVGNIFQDL**
KVIDKNQDGSISVRSETSVRYVPLTSRDAQLRG

Protein No.: I-703

Protein name and Species:

Heat shock protein 17.5 cytosolic class II OS=Jatropha curcas

PE=2 SV=1

Accession: tr|D5JG84|D5JG84_9ROSI

Unused ProtScore: 3.53

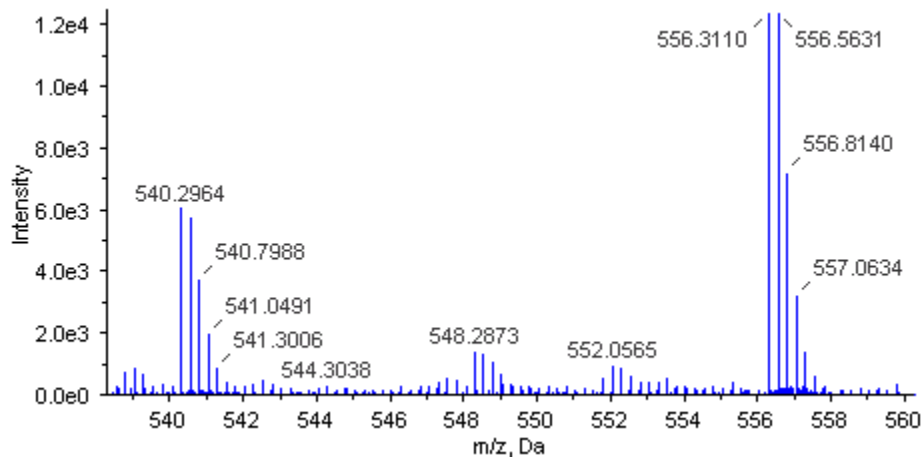
Seq Cov %: 19.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.50

116: 114=E5TL: D5TL=1.34

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDVRFVGLDSPLLHTLQQMMDIGDDADHK**SFNAPTR**TYVRDAK**AMASTPADVK**EYPNSYVF**IIDMPGLK**
SGDIK**QVEDDNVLLISGER**KREEEKEGAKYVRMERRVGKLMRKFALPENANTDAISAVCQDGVLTVTV
QKLPPPEPKPKKTIEVKIA

Protein No.: I-704

Protein name and Species:

Putative uncharacterized protein OS=Vitis vinifera

GN=VIT_13s0067g03420 PE=4 SV=1

Accession: tr|D7T494|D7T494_VITVI

Unused ProtScore: 3.52

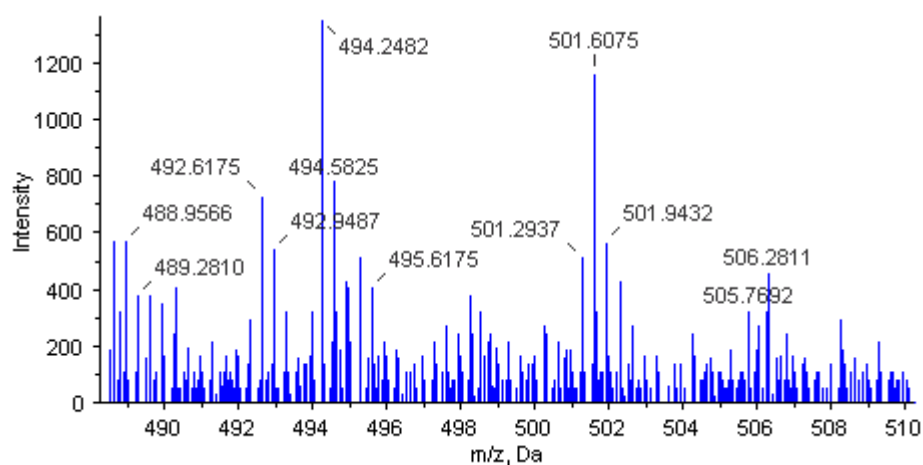
Seq Cov %: 3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.10

116: 114=E5TL: D5TL=0.35

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKPKAVVNPLVTFEHKRDAYGFAVRPQHLQRYR**EYANIYKEEEER**SERWNIFFLEQQAESAQLPVNGLS
ADEHNKALHGEATEKDVDANPEKVVQKLGSDSNEN**VTEK**ESQGVAETKTHRIQIWTEIRTSLHAI EEM
MSTRVKKR**RDSKNEKETGLGK**HHAPVEEARSLKGVSEEDSEDEFYDVERSDPVQDVPSSDSSNASATA
SAGDVVTLETSFPWKEELECLVRGGVPMALRGELWQAFVGVKARRVERYQ**ELLASEHNVGNKVEQDSS**
QTDSLTDGPIKDSL**TVTEK**WKGQIEKDLPRTFPGHPALDEDEGR**NALRRLLTAYAR**HNP SVGYCQAMNFF
AGLLLLLLMPEENAFWALMGIIDDYFDGYYSEEMIESQVDQLAFEDLVRERLPKLVNHLDFLGVQVAWVT
GPWFLSIFMNMLPWESVLRVWDVLLFEGNRVMLFKTALALMELYGPALVTTKDAGDAVTLQLAGSTF
DSSELVLTACMGYQNVNEARLQELRDKHRAAV**IAAVEER**SKGLRAWRDSKGLAHKLYGFKHDPGSLAMD
ANQTEQVVD SQANGDMSHMEPGSANVDGFLIGLTENVEIDSV**PDLQEQVRWLKVELCKLLEEKRSALLR**
AEELETALMEMVKQDNRRQLSAR**VEQLEQEVSELR**QALADKQEQEHAMLQVLVRVEQEQKLTEDARRFA
EQDAAAQRYAAQVLQEK**YEEAITSLAQMEK**RVVMAETMLEATLQYQSGQVKAQPSPRSHQDSSSARSNQ
ETPQELPTRKIGLLSRPFALGWRDRNKGKPASEEVSDAKPTNEVENPSAQQVES**PSTQQKDANGHEVQE**
KQ

Protein No.: I-708

Protein name and Species:

**Hydrolase, hydrolyzing O-glycosyl compounds, putative
OS=Ricinus communis GN=RCOM_0272270 PE=4 SV=1**

Accession: tr|B9T139|B9T139_RICCO

Unused ProtScore: 3.46

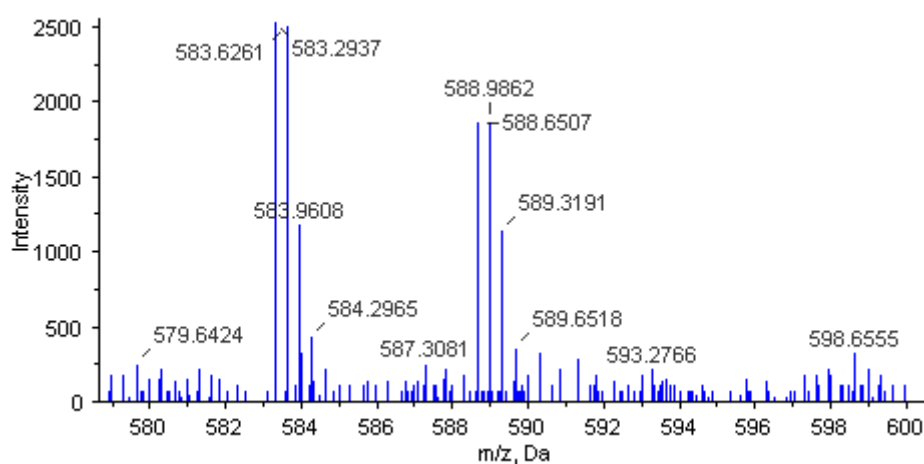
Seq Cov %: 6.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=16.00

116: 114=E5TL: D5TL=3.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAWSLQKSEIKPTVRKLEKKGGDRQLDAMTIKPAVRISDRKLIIVKDRTIILTGLQDNVIATSGSSSSPVE
GVFIGAVFDEENSRHVVPLGTLRDVRFMACFRFKLFWMAQKMGDHGRDIPLETQFLMMETKDGSQLSD
GGNEENQIIYTVFLPLIEGSFRAQLQGNDNDELELCLESGD**VDTK**AASFTHPLFIHAGTDPFGTLTEAV
RAVKLHLKSFQRHEKKLPALIDYFGWCTWDAFYQEVTQEGVEAGLKSLSSEGGTLPKFVIIDDGWQSVG
GDPQEDDEDKQPQLLRL**IGIK**ENEFKFRKKDDPT**VGIK**NIVNIAKEKYGLKYVYVWHAITGYWGGVRPGV
KEMEEYGSLMKYPKVSEGVLENEPTWRDVLAVQGLGLMNP**KAVYK**FYNELHNYLASAGIDGV**KVDVQC**
ILETLGAGLGGRVEITR**QYHQALDASVAR**NFPDNGCIACMSHNTDALYCSKQTAVVR**ASDDFFPR**DPVS
HTIHIAAVAYNSVFLGEFMQPDWDMFHSHPAAEYHASAR**AISSGGPVYVSDEPGK**HDFNVLKK**LVLDPG**
SILRARLPGRPTRDCLFSDPARDGISLLKIWNMNKHTGVLGVYNCQGAAWNCVERKNTFHETKSEALTG
AIKGRDVHLIAEAATDSNWNGDCAVYCHQTAELTTVPYNASLPVSLKVLHEEIFTLTPIKVLAPGFSFA
PLGLIAMYNAGGAIIEGLKYEVKGVKLVLELDEGYKGENSTVSDERVENISSELV**GKICMEVKGCGK**FGAY
SSTKPRMCIVDSNIAEFYDSSSGLVTFNLDNLAEEGRLHLVEVEV

Protein No.: I-710

Protein name and Species:

ATP-citrate synthase, putative OS=Populus trichocarpa

GN=POPTRDRAFT_827990 PE=4 SV=1

Accession: tr|B9N432|B9N432_POPTR

Unused ProtScore: 3.44

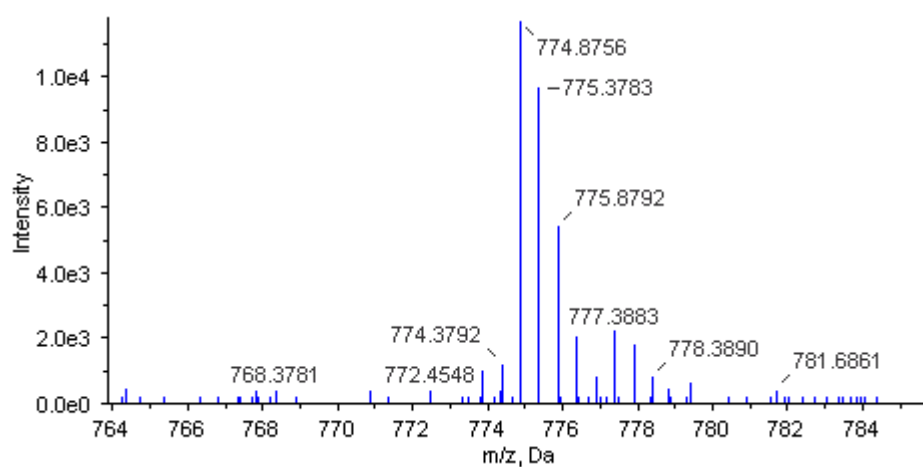
Seq Cov %: 17.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.56

116: 114=E5TL: D5TL=0.61

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MARKKIREYDSKRLLEHLKRLSGIDLQICSAQVTEGTDFTLTKNEPWL**SSTKLVVKPDMLFGK**RGKS
GLVALNLDLAQV**AEFVK**ARLGAEVEMGGCKAPITTFIVEPFVPHDQEFYISIVSERLSTISFSECGGI
EIEENWDKVKTIIFLPTEKPMLEACAPLIATLPLEIRGKIGDFIISVFSVFQDLDFSFLEMNPFLLVNG
EPYPLDMRGELDDTAAFKNFKK**WGNVEFPLPFGR**VLSSTESFIHSLDEKTSSSLK**FTVLNPK**GRIWTMV
AGGGASVIYADTVGDLGY**ASELGNIAEYSGAPNEDEVLQYARVVIDCATSDPDGR**KRALLIGGGIAN**FT**
DVAATFNGIIRALREKESKLKAARMHIYVR**RGGPNYQTGLAK**MR**TLGEELGVPLEVYGPEATMTGICK**Q
AIDCIMSTA

Protein No.: I-713

Protein name and Species:

Potassium channel beta, putative OS=Ricinus communis

GN=RCOM_1021600 PE=4 SV=1

Accession: tr|B9RWM3|B9RWM3_RICCO

Unused ProtScore: 3.44

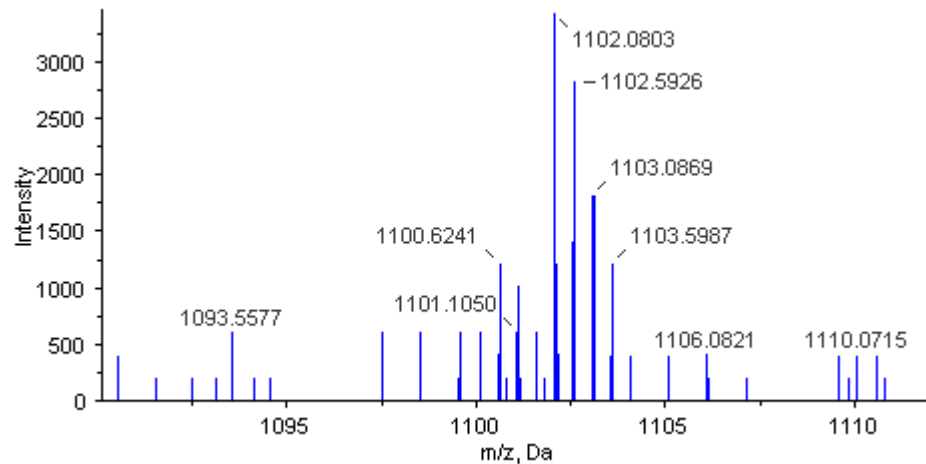
Seq Cov %: 7.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=12.13

116: 114=E5TL: D5TL=2.13

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MQYKNLGRSGLKVSQLSYGAWVSFGNQLDVKEAK**SLIQCCR**DHGVNFFDNAEVYANGR**AEEIMGQAIRE**
LGWKRSDIVVSTKIFWGGSGPNDKGLSRKHIVEGTKASLKRLDMDYVDVIYCHRPDSSTPIEETIRAMN
HVIDKGWAFYWGTSSEWSAQQITEAWGIAER**LDLVGPIVEQPEYNLLSR**HKVSESEYLPLYTNYGLGLTTW
SPLASGVLTKYSRGAIPDPSR**FALENYK**NLASRSLIDDVLKKNGLKPIADELGVPLSQLAIWCAAN
PNVSSVITGATK**ESQIQENMK**AIDV**IPLLTPAVMEK**IEAVVQSKPKRPDSYR

Protein No.: I-714

Protein name and Species:

**Aldehyde dehydrogenase family 7 member A1 OS=Euphorbia
characias PE=2 SV=1**

Accession: tr|Q5EBY6|Q5EBY6_EUPCH

Unused ProtScore: 3.43

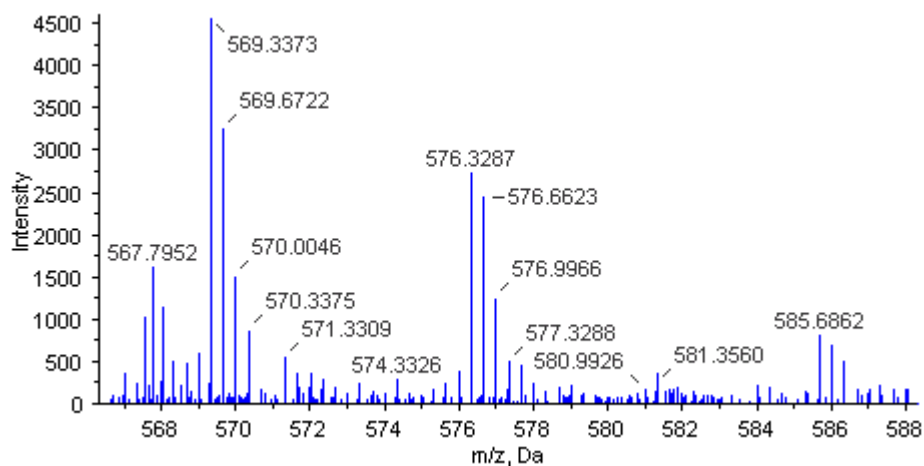
Seq Cov %: 11.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.59

116: 114=E5TL: D5TL=0.68

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGFARKEYEFLSEIGLSERNLGCYVNGTWKANGPVVTTSPANNQAIAEVVEGSIEDYEEGMKACSEAA
KIWMQVPAPKRGDIVRQIGDALRGKLEHLGR LVSLEMGK ILAEGIGEVQEIIDMCDFCVGLSRQLNGSI
IPSERPNHAMLEMWNPLGIVGVITAFNFPCAVLGWNACIALVCGNCAVWKGAPTTPLMTIATTKLVAEV
LERNNLPLAIFTSFCGGADIGQAIKDTR IPLVSFTGSSK VGLMVQQTVNQRYGKSLEELSGNNAIIVM
DDADIPLAARSILFAAVGTAGQRCTTCRRLILHEKIYDTVLDQLLKSQVKIGDPLEKGTLLGPVHTA
ESRKNFEKGI ELIKSQGGK ILTGGSVIESEGNVQPTIVEISSKAEVVK EELFAPVLYVMK FQTL EEAI
EINNSVPQGLSSSIFTRRPDVIFKWLGPHGSDCGIVNVNIP TNGAEIGGAFGGEKATGGGREAGSDSWK
QYMRASTCTINYGSELPLAQGINFG

Protein No.: I-716

Protein name and Species:

Isoflavone reductase, putative OS=Ricinus communis

GN=RCOM_1594880 PE=4 SV=1

Accession: tr|B9R7W5|B9R7W5_RICCO

Unused ProtScore: 3.43

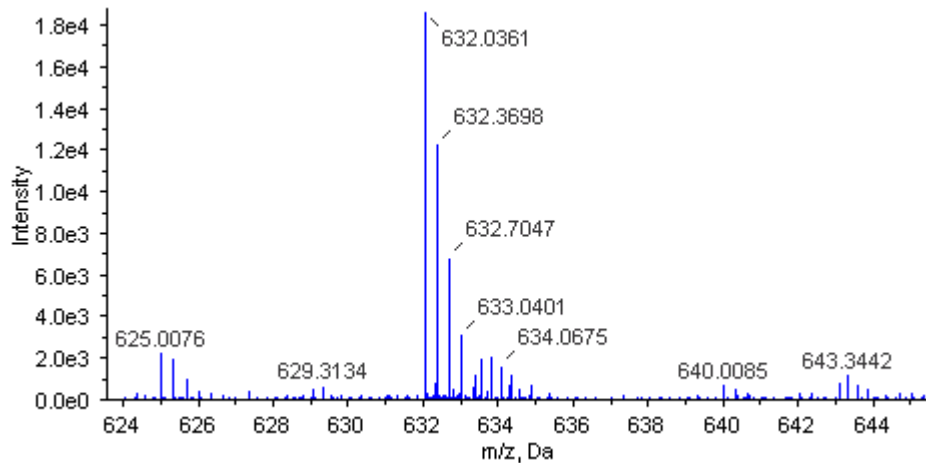
Seq Cov %: 20.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.23

116: 114=E5TL: D5TL=0.48

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADTSK**ILIIIGGTGYIGK**FIVEASAKAGLPTFVLI**RE**STVSDPVK**GK**I**VENFK**NLGVTLLHGDLYDHES
LVKAIKQADVVISITL**GALQ**LADQTKVIAAIKEAGNVK**R**FFPSEFGTDVDH**VH**AVEPAK**SA**FETKAQIRR
AIEAEGIPYTYAVCN**YFAS**LMIP**LLLR**PAGDK**VTILGDGNVK**AIF**SMEQ**DIALYTIKAVDDPRTL**NK**TL
FVNPPMNILTYNELVALEEKKTGKTIEKNYVPEEKVLQDIQ**TVP**MPFNIGLAINHCVF**IK**GDQTNFEID
PSWGVEASQLY**PD**VKYTTIAEYFDQTA

Protein No.: I-717

Protein name and Species:

glycine-tRNA ligase 1, mitochondrial OS=Populus trichocarpa

GN=POPTRDRAFT_830916 PE=3 SV=1

Accession: tr|B9GZ19|B9GZ19_POPTR

Unused ProtScore: 3.42

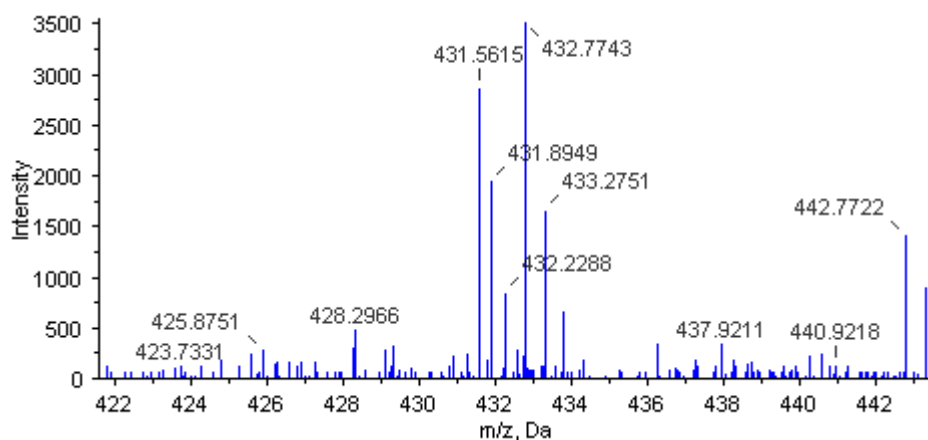
Seq Cov %: 10.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.79

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAASEDSLRRALAEKQSSIESQGN TVRALKASNAEKATVDEAIEKLNALKLDKSVMEKQLQAAVNGNGP
DGSVNSEAFRQAVVNTLERRLFYIPSEK IYRGVAGLYDYGPPGCAVKSNVLSFWRQHFVLEENMLEVDC
PCVTPEVVLKASGHVDFDTLDMVKDEKTGTCCRADHLLKDFCNEKI QKDLSISAEKAAELKHVLAAILDD
LSAEELGAKIK EYGITAPDTKNPLSDPYPFNLMFQTSIGPSGLSPGYMRPETAQGI FVNFKDLYYYNGN
KLPFAAAQIGQAFRNEISPRQGLLRVREFTLAEIEHFVDPEYKSHPKYSEVADLEFLMFPR ELQISAQS
AKKIQLGEAVSKGIVNNETLGYFIGRVYLFLETR LGIDKDRLRFRQHLANEMAHYAADCWDAEIESSYGW
IECVGIADRSAYDLHAHSEKSGVPLVAHEKFSEPK EVELVIAPVKKELGLAFKGNQKKVVEALEAMNE
KEALDMKASLETKGEVEFYVCTLGKVTIKKNMVSISKEKKKEHQRTFTPSVIEPSFGIGRIIYCLYEH
SFYMRPSKAGDEQLNVFRFPPLVAPIKCTVFPLVQNQQYEDVAKIISK TLTAAGISHKIDITGTSIGKR
YARTDELGVPFAITVDSISSVTIRERDSKDQIRVDVEEAAPVVKSVTDGHK TWADVWANFPHHSSGSVE
D

Protein No.: I-718

Protein name and Species:

40S ribosomal protein S25-1, putative OS=Ricinus communis

GN=RCOM_1447530 PE=4 SV=1

Accession: tr|B9RH67|B9RH67_RICCO

Unused ProtScore: 3.42

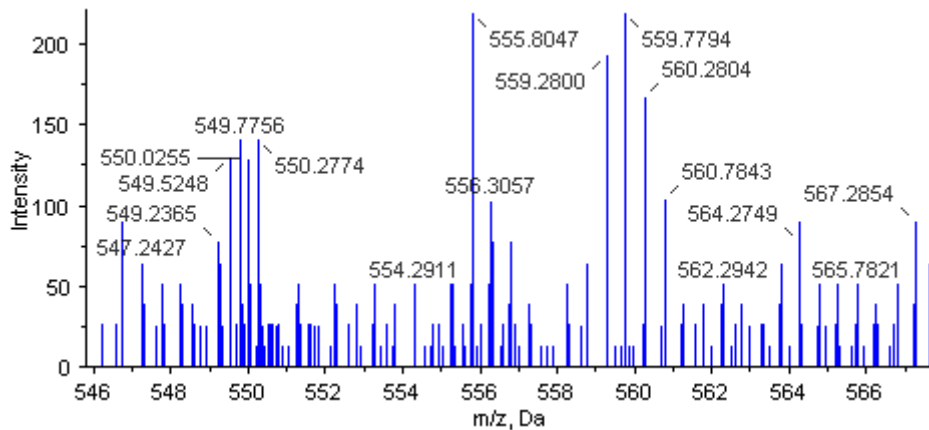
Seq Cov %: 20.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.07

116: 114=E5TL: D5TL=0.91

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPKKDKAPPPSSKPAKSGGGKQKKKWSKGKQKEK**VNNMVLFDQATYDKLLSEAPKYKLITPSILSDR**
LR**VNGSLARR**AIRELMARGLIRMVSAH**ASQQIYTR**ATNT

Protein No.: I-720

Protein name and Species: **clathrin heavy chain 1 [Vitis vinifera]**

OS=**Vitis vinifera** GN=**VIT_13s0067g01290** PE=4 SV=1

Accession: **tr|A5ACP0|A5ACP0_VITVI**

Unused ProtScore: **3.4**

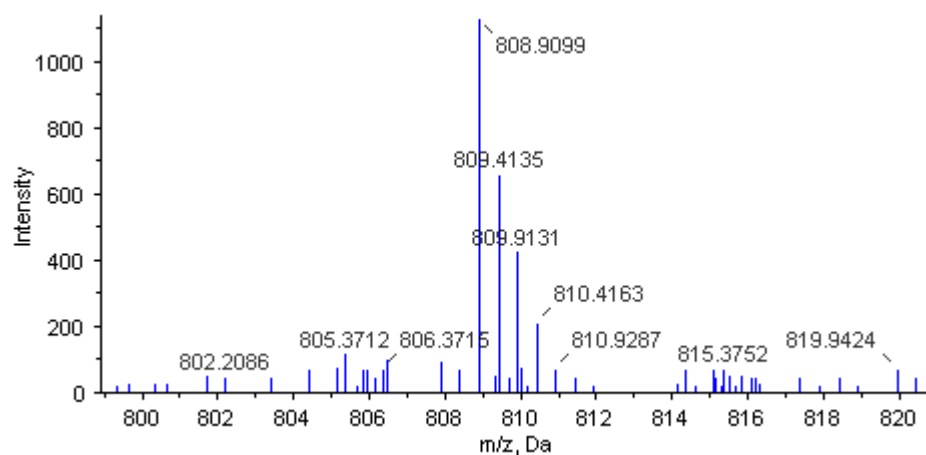
Seq Cov %: **15.1**

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.63;

116: 114=E5TL: D5TL=1.20

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAANAPITMK EVLTLPSLGI SPQF ITFTHTVME SDKYLCVR ETAPQNSVVIIDMNMMPQLRRPITAD
SALMNPNTIRILALKAQLPGTTQDHLQIFNIEMK AKMKS YQMPEQIVFWKWITPK MLGLVLTQTSVYHWSI
EGDSEPVKMFER TANLVNNQIIN YRCDPSEKWLVLIGIAPGSPERPQLVKGNMQLF SVEQHR SQALEAH
AASFATFK VPGNDQPCTLIGFATK SFNAGQIVSK LHVIELGSNPGKPGFTKKQADLFFPPDFADDFPVA
MQISHKYGLIYVITKLGLLFVYDLESASAVYRNRI SPDP IFLTAEATSIGGFYAINRRGQVLLLATVNEA
AIVPFVSGQLNNELELAVNLAK RGNLPGAENLVVQR FQELFAQTK YKEAAELAAESPQGILR TPDTVAKF
QSVPMQSQGTPPLLQYFGTLLTRGK LNAFESLELSRLVVNQNK NLLLENWLAEDKLECSEELGDLVKTV
DTD LALKIYIKARATPKVVA AFAER REF D KIL IYSKQVGYTPDYLFLLQTI LRSDPQGA VNFALMMSQM
EGGCPIDFNTITDLFLQRNLIREATAF LLDV LKPNLPEHGFLQTKVLEINLVTYPNVADAILANGMFSH
YDRPR IAQLCEKAGLYVRALQHYTELPDIK RVI VNT HAI EPQALVEFFGTLSREWALECMK D L L L V N L R
GNLQIIVQTAKEYSEQLGVDQCVK LFEQFK SYEGLYFFLGSYLSSESSEDPDIH FKYIEAAAK TGQIKEVE
RVTR ESNFYDAEK TKNFLMEAKLPDAR PLINVCDFG FV PDLTHYLYTNMLRYIEGYVQK VNPSNAPL
VVGQLL DDECPEDFIKGL ILSVR SLLPVEPLVDECEKR N R L R L L T Q F L E H L V S E G S Q D V H V H N A L G K I I
IDSNNNPEHFLTTNPYYDSR VVGKYCEK RDPTLAVVAYR RGQCDEELINVTNK NSLFLKLQARYVVERMD
SDLWEKVLDPDNDYRRQLIDQVVSTALPESKSPEQVSAAVK AFMTADLPHELIELLEKIVLQNSAFSGN
FNLQNL LIL TAIKADPSR VMDYINR LDNFDGPAVGEVAVEAQLFEEAF AIFKKNLNVQAVNVLLDNIQ
SIER AVEFAFRVEEDAVWSQVAKAQLR EGLVSDAIESFIR ADDATQFLDVIRAAEDANVYHDLVR YLLM
VRQKAKEPKVDSELIYAYAK IDRLGEIEEFILMPN VANLQNVGDR LYDEALYEAAK IIFAFISNWAKLA
CTLVKLRQFQGA VDAARK ANSSKTWK EVCFACVDAEEFR LAQICGLNII IQVDDLEEVSDYYQNRGCFN
ELISLMESGLGLERAHMGI FT ELGVL YARYRPEKLM EHIK LFS'TRLNIPK LIRACDEQQHWKELTYLYI
QYDEFD NAATTIMNHSPDAWDHMQFKDVAVK VANVELYYK AVHFY LQEHPDLINDLLN VLALRVDHTRV
VDIMRKAGHLHLVKPYMVA VQSNVSAVNEALNGIYVEEEDYDRLR ESIDMHDNFDQIGLAQK IEKHEL
LEMRRVAAYIYK KAGRWKQSIALSKKDNLYKDAMETASQSGDRELAEELLVYFIEKGGKKECFASCLFVC
YDLIRPDIALELAWINNMVDFALPYLLQFIREYAGK VDELVKDK LEALNEVK AKEKEEKDVIAQQNMYA
QLLPLALPAPPMPGMGGAGMAGGFVPPPMGSMGMPMPMPFGMPMGTY

Protein No.: I-723

Protein name and Species:

Unknown protein 1 (Fragment) OS=Vitis rotundifolia PE=1

SV=1

Accession: sp|P86104|UP01_VITRO

Unused ProtScore: 3.4

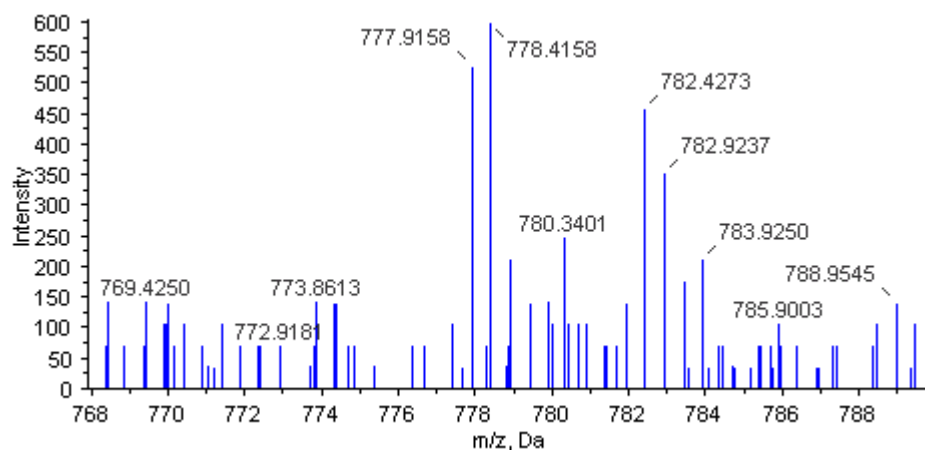
Seq Cov %: 100

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.11

116: 114=E5TL: D5TL=0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

TNAENEFVTIKK

Protein No.: I-729

Protein name and Species:

5-methyltetrahydropteroyltriglutamate--homocysteine

methyltransferase, putative OS=Ricinus communis

GN=RCOM_0952830 PE=3 SV=1

Accession: tr|B9RQ33|B9RQ33_RICCO

Unused ProtScore: 3.37

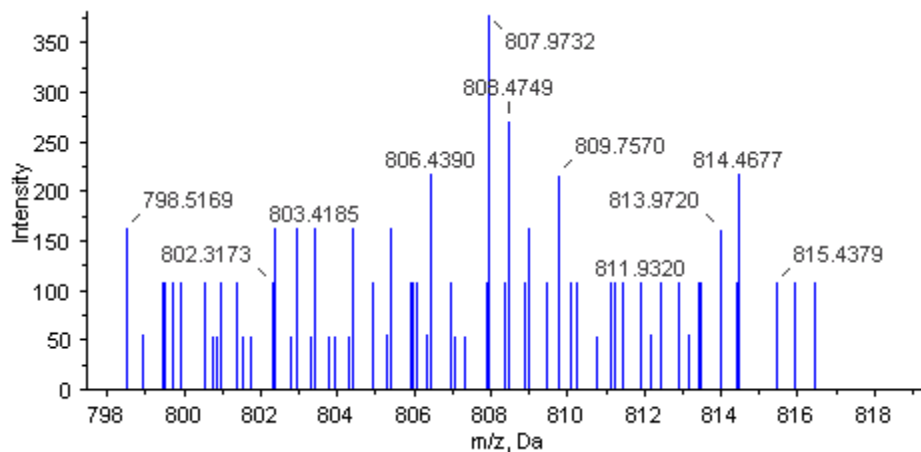
Seq Cov %: 16.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=1.09

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRQVSLNVLAPFTSFRVISLPPFSSSTNPSSLSFLPFSFHFPSSLSSSTSFRAMASHIAGYPRMGPKRELK**F**
ALESFWDGKSSAEDLQKVAAELRASIWKQMADAGTKFIPSNTFSYDQVLDTTAMLGAVPPRYGWDGGE
IGFDVYFSMAR**GNASVPAMEMTK**WFDTNHYHYIVPELGPEVK**FSYASHK**AVDEYKEAK**ALGVE**TV**PVLVG**
PVSLLLLSKPAKGVEK**SFSLLSLIDR**ILPIYKEVIAELKAAGARWIQFDEPKLVMDLDSHELQAF'TNAY
SELEASLSGVHVVVETYFADLPA**EAYKTLTSLK****GVTGF****GFDLVR**GTK**TLDLIK**GGFP**TGK****FLFAGVVDG**
RNIWANDLASSLDTLHALESAVGKDKVVVSTSCSLLHTAVDLANEPKLDKEIK**SWLAF****AAQK****VLEVNAL**
AKALAGNR**DEAFFSSNALAHASR**KSSPR**VTNEAVQ****AAAAALK****GSDHRR**ATNVSARLDAQ**QK****KLNLPI****L**
TTTIGSFP**Q****TLDLRR**VRREYKAKK**I****SEDDYVK**AIKEEISKVVKIQEELDIDVLVHGEPERNDMVEYFGE
QLSGFAFTANGWVQSYGSR**CVKPP****IYGDVSR**PKAMTVFWSSMA**Q****SMTSR**PMK**GMLTGPVTILNWSFVR**
NDQPRHETCYQIALAIKDE**VEDLEKAGITVIQ****IDEAALR****EGLPLR**KSEHAFYLDWAVHSFRITNCGVED
TTQIHTHMCYSNFNDIIHSIINMDADVITIENSRSDEK**LLSVFR**EGVK**YGAGIGPGVYDIHSPRIPSTE**
EIADRINKMLAVLES**NILWVNPDCGLK**TRK**YSEVKPALS****NMVAATK**ILRTQLASAK

Protein No.: I-732

Protein name and Species:

Catalytic, putative OS=Ricinus communis GN=RCOM_0300260

PE=4 SV=1

Accession: tr|B9T676|B9T676_RICCO

Unused ProtScore: 3.37

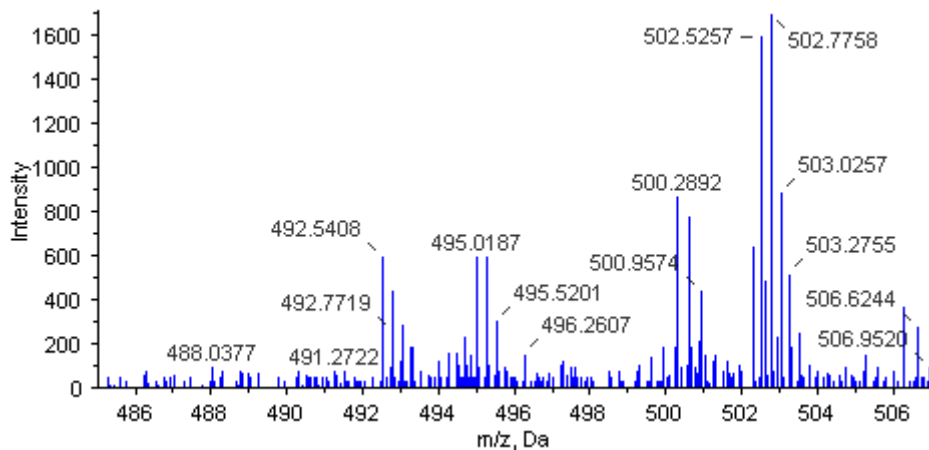
Seq Cov %: 8.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=4.02

116: 114=E5TL: D5TL=11.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEYEGNQQHVLKYECLLFVDDTLYPLRSGLSQHVTKNIQEYMVQKLGIEESKVAELCVSLYKLYGTT
LAGLRAIGHNIDYDDFHSFVHGRLPYD**IVKPD**PVLRNLLHSLPVRKIVFTNADKTHASRVLSRLGLEDC
FEGILSFETLNNTTKGNESVNEDENGVFDINEYTAAPNAGLALPRSPVVCKPFEDAFEQVFKITSINPQ
R**TLFFD****SIR**NLQTKRKLGLTTVWVGSSHR**TEGV****DYALESIHNIK**EALPELWDANEKSDGVRYSGRVAI
ETSVKA

Protein No.: I-735

Protein name and Species:

Phagocytic receptor 1b [Vitis vinifera] OS=Vitis vinifera

GN=VIT_01s0011g06540 PE=4 SV=1

Accession: tr|D7T8E1|D7T8E1_VITVI

Unused ProtScore: 3.34

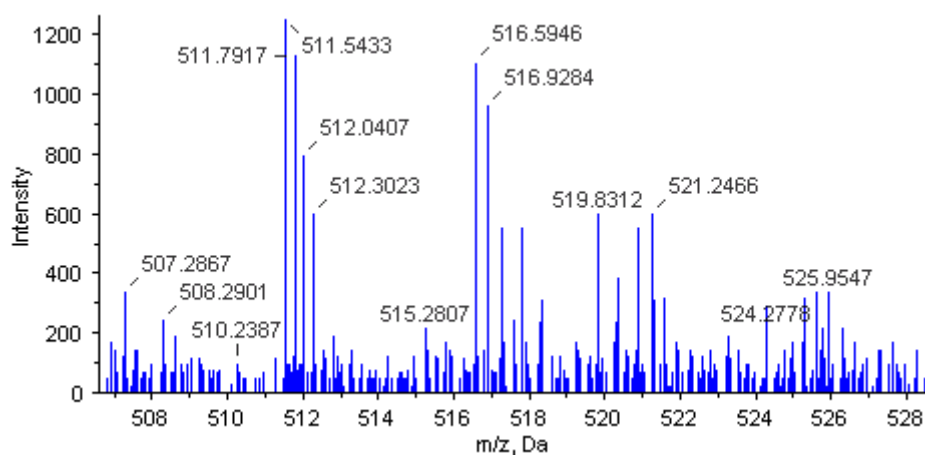
Seq Cov %: 3.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.71

116: 114=E5TL: D5TL=1.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MERAMAILVVAVLILLCGSQVRSDASSHRYKAGEAVPLYANKVGPFHNPSETYRYFDLPPFCVPAHLKEK
KEALGEVLNGDRLVSAAPYKLDFLREKDSEVVCKKKLKKEEVAQFRAAVAKDYFQMYDDLP I W G F I G K
VDKEGKADPSEYKYFLYKHIQFDIRYNKDRVIEINARTDPHSMVDVTDDKDVDVEFMYTVKWTETDAPF
EKRM EKYSQTSSMPHHL E I H W F S I I N S C V T V L L L T G F L A T I L M R V L K N D F I K Y A H D E E S A D D Q E E T G W K
YIHGDVFRYPKYKSLFAAALGSGTQLFTLTVFIFILALVGVFYPYNRGALFTALVVIYALTSGIAGYTA
TSFYCQLEGTNWRNLLLTGCLFCAPLFLTFCFLNTVAIIYSATAALPFGTIVVIVLIWTLVTSPLLVL
GGIAGKNSKA E F Q A P C R T T K Y P R E I P A L P W Y R S T I P Q M A M A G F L P F S A I Y I E L Y Y I F A S V W G H R I Y T I Y
SILFIVFIILLIVTAFITVALTYFQLAAEDHEWWRSFLCGGSTGLFIYGYCLYYYYARSMSGFMQTS
FFFGYMACICYGFFLMLGTVGFRASLLFVRHIYRSIKCE

Protein No.: I-738

Protein name and Species:

Dimethylaniline monooxygenase, putative OS=Ricinus communis GN=RCOM_1470740 PE=4 SV=1

Accession: tr|B9RLT7|B9RLT7_RICCO

Unused ProtScore: 3.33

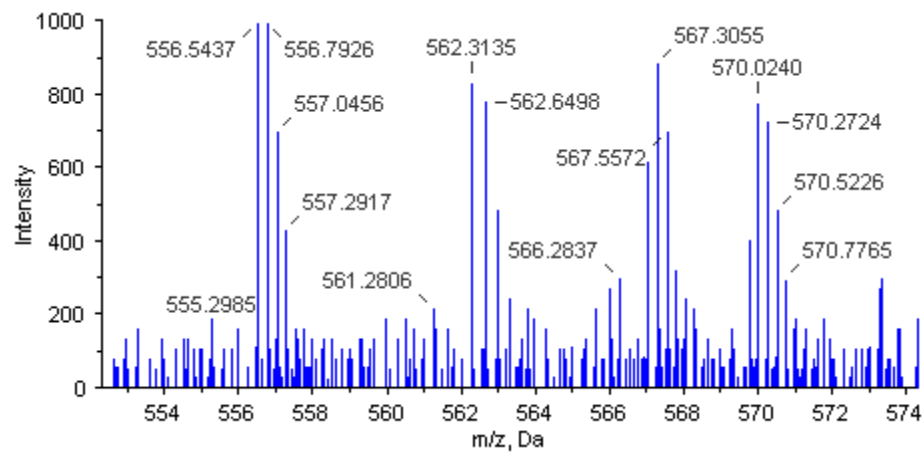
Seq Cov %: 6.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.43

116: 114=E5TL: D5TL=0.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVSDFTRSK**NVCVIGAGPSGLVAAR**ELRKEGHRVVLLEQKDDVGGQWLYEANVESEHPLGKKKFLEVHS
SIYASLRLVSPREIMGYTDFPFLVKKGRDMRRFPGHRELWLYLKDFCDSFGLREMIRFNTRVEYVGMLD
YDELRNDLKVVVKSKEKDSEKAVEEVFDAVVVATGHYSHPKLPFIKGMETWKRKQMHSIYR**VPEPFRN**
EVVVVVGNLSGQDISMELVEVAKEVHLSSKSLDVTGLSKVISKHENLHLRPQIESLEEDGRVLFADG
SQVIADTILYCTGYTYTFPFLDTKGIVVVEDDRVGLYEHTFPPSLAPSLSFVGI PRK**IIGFPPFESQA**
KWIAQLLSGKRTLPSWDDMMLSIKQFYQSRDTAGIPKHNTHTDIADFEYCDRYADHIGFPHLEEWKQLC
LSALVNANDNLETYRDSWDDHDLLEALQSPHFTQLGVQDFIV

Protein No.: I-740

Protein name and Species:

Aminopeptidase M1 [Arabidopsis thaliana] OS=Arabidopsis thaliana GN=APM1 PE=2 SV=1

Accession: tr|Q8VZH2|Q8VZH2_ARATH

Unused ProtScore: 3.31

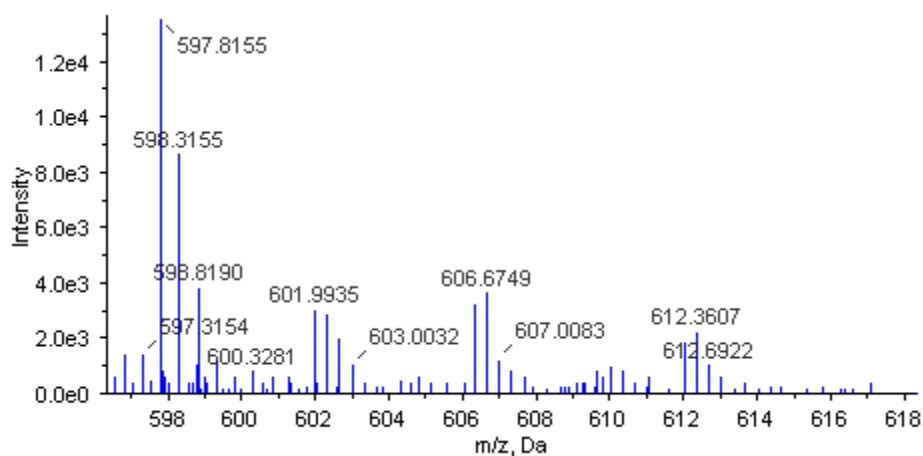
Seq Cov %: 6.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.19

116: 114=E5TL: D5TL=0.38

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDQ**FKGEP**RRLPKFAVPKRYDLRLNPDLIACFTTGTVAIDLIDIVADTRFIVLNAADLSVNDASVSFTPPS
SSKALAAPKVVLFEDEEILVLEFGEILPHGVGVLKLGFNGVLNDKMKGFYR**STYEHNGEK****KNMAVTQFE**
PADARRCFPCWDEPACKATFKITLLEVPTDLVALSNMPIMEEKVNGNLKIVSYQESPIMSTYLVAIVVGL
FDYVEDHTSDGIKVRVYCQVGKADQKGFAL**HVGAK**TLDLFKEYFAVPYPLPKMDMIAIPDFAAGAMENY
GLVTYRETALLYDEQHSAASNQRVATVVAHELAHQWFGNLVTMEWWTLLWLNNEGFATWVSYLATDSL
PEWK**IWTQFLDEST****EGLR**LDGLEESHPIEVEVNHAAEIDEIFDAISYRKGASVIRMLQSYLGAEVFQK**S**
LAAYIKNHAYSNAKTEDLWAALEAGSGEPVNKLMSSWTKQKGYPVVSAKIKDGKLELEQSRFLSSGSPG
EGQWIVPVTLCCGSYEKRKNFLLESKSGAYDLKELLGCSIADGSDKINGTCSWIKINVDQAGFYRVKYD
DSLAAGLRNATESQSLTSDRYGILDDSFALTMARQQSLASLLTLC SAYKKELDYTVLSNLIAISYKVY
KIGADANQELMSGIKHFFIGVFQFAAGKLGWDPK**QGESHLDAMLR**GEVLTALAVFGHDETLKEAVRRFD
AFLADRNTPLLPDIR**AAAVAVMQRANKSDK****SGYESLLR**VYR**ETDLSQEK**TRILGSLASCPDPTIVQD
VLNFVLSDEVNRQDALYGLSGVSWEGREVAWKWLQEKWEYIGNTWGSGLITR**FISAVVSPFASF****EKA**
EVEEFFATRSKPSMARTLKQSIERVHINANWVESIKKEDNLTQLVAQLSSN

Protein No.: I-743

Protein name and Species:

Cytochrome P450, putative OS=Ricinus communis

GN=RCOM_1517900 PE=3 SV=1

Accession: [tr|B9SDH3|B9SDH3_RICCO](#)

Unused ProtScore: 3.29

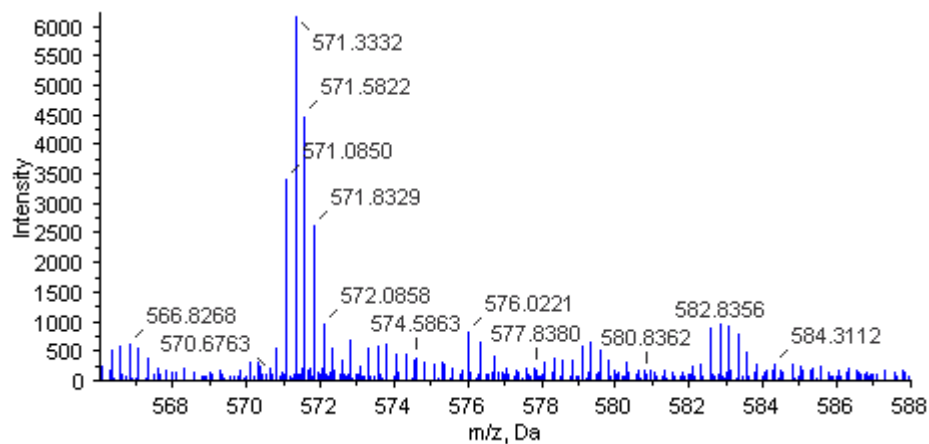
Seq Cov %: 2.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.11

116: 114=E5TL: D5TL=1.19

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEIWLFIPIISLAVSILLKLVINHLLSTKNSTHKLPPGPSPLPILGSSLWLT'TTVFDLESALRSLHSKFG
PLLTLMGSRPAI**FIADR**SLAHEALIQNSSIFADRPPALGMEKINTSDQHTISSAFYGPTWRLLRRNLT
AKVLHPSNIKSYSHTRKVVQILKDRLESEFKERGRIQVMGHFQYAMFCLLAFMCFGDNLEEDQIRKIE
EVQRQLLLNFVEFSVFSFWPSVTKVLFKRKRWDEYMQIR**KNQENVLIPLLR**SRKAQRDKETDSVLPYVDT
LMDLGLPDEKRRKLEEEEIVSLLSEILNGGTETTATALQWIMANLVK**YPHIQEK**LYMEIRRIVGEDEDLI
KEDELQKMPFLK**AVILEGLR**RHPPAHMVVPHAVTEDTVLDKYLIPKNGTVNFMVAEMGWDSKVWKD**MA**
FKPERFMGSEYEHEVFDITGSREIKMMPFGLGRRMCPGHGLAMLHLEYLVANMVWSYEWKGMGNGVDL
SEKLEFSVVMK**NPLQAQISPRRRHKL****IIDKI**

Protein No.: I-744

Protein name and Species:

cytochrome b5 reductase 1-like, NADH [Vitis vinifera] OS=Vitis
vinifera GN=VIT_13s0047g01190 PE=4 SV=1

Accession: tr|F6HIY1|F6HIY1_VITVI

Unused ProtScore: 3.29

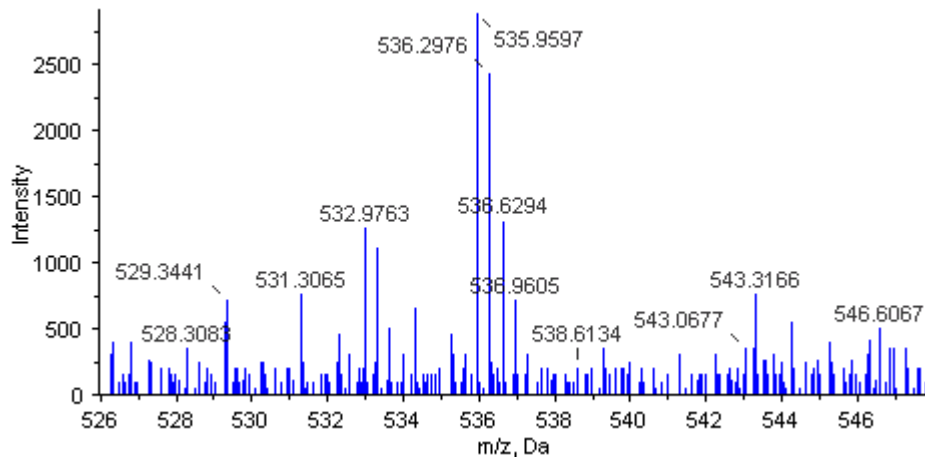
Seq Cov %: 6.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.61

116: 114=E5TL: D5TL=2.01

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MWKMTSTLLPTFRVTWPLKTPGIELSGFAVGLAAVGLAAVYFFYGRRKPKGCCLDPERFQDFKLVQKTRI
SHNVGRFRFALPTPTS VFGLPVGQHIICRGKDDQGAEVIRPYTPITLSDVGFYELVVKMYPKGQMSHH
FRKMREGDTLAVKGRGRLIYKPGQAKAFGMLAGGTGITPMFQLTRAILENPKDKTNVHLIYANISYDD
ILLKDELDGFAFKFPNRFKVFYVLSQPPEAWNGGIGHISKEMIEKHCPAPAPDIQILRCGPPGMNKAMA
GHLVALGYTPQMQFEF

Protein No.: I-746

Protein name and Species:

40S ribosomal protein S23 OS=Solanum tuberosum PE=2 SV=1

Accession: tr|Q38HT5|Q38HT5_SOLTU

Unused ProtScore: 3.29

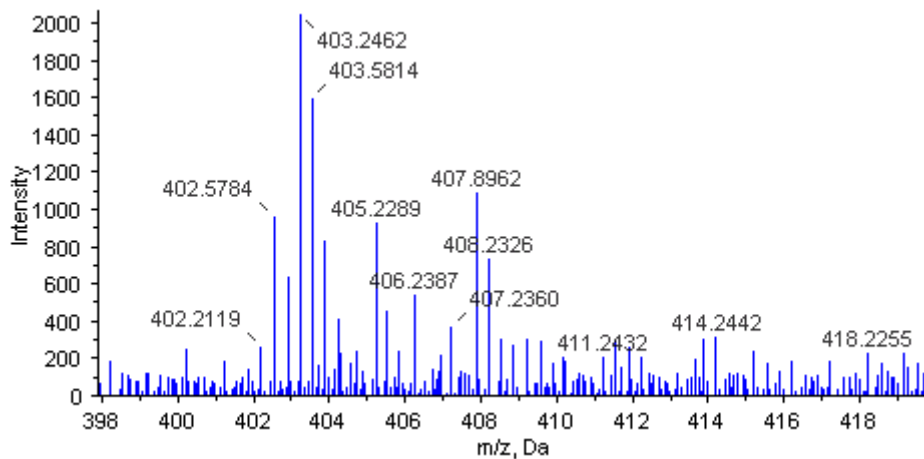
Seq Cov %: 11.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=0.41

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGKTRGMGAGR K L K S H R R R Q R W A D K S Y K K S H L G N E W K K P F A G S S H A K G I V L E K I G I E A K Q P N S A I R K C A
R V Q L I K N G K K I A A F V P N D G C L N Y I E E N D E V L I A G F G R K G H A V G D I P G V R F K V V K V S G V S I L L A L F K E K K E
K P R S

Protein No.: I-757

Protein name and Species:

Very-long-chain enoyl-CoA reductase-like OS=Populus
trichocarpa GN=POPTRDRAFT_720621 PE=2 SV=1

Accession: tr|A9PDL9|A9PDL9_POPTR

Unused ProtScore: 3.24

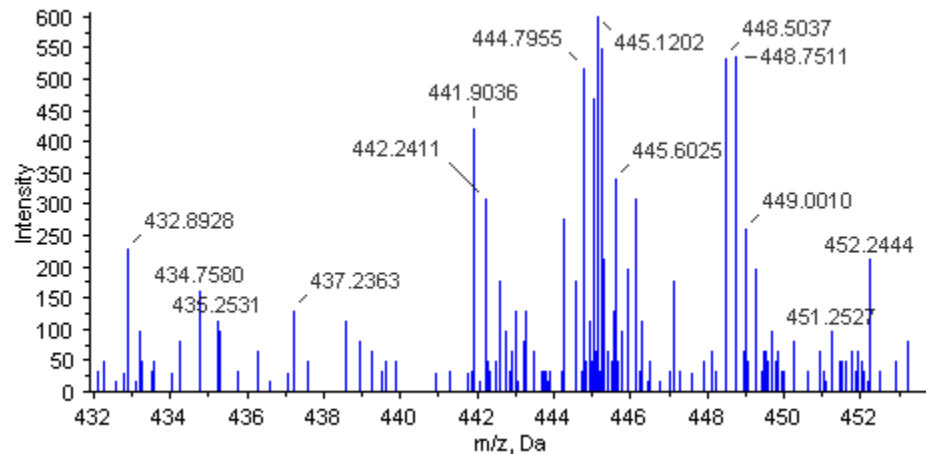
Seq Cov %: 7.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.94

116: 114=E5TL: D5TL=2.66

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKVTTVVSRSGREVIVKGGLELSDSATVADLQEAIIHKRTKKFYPARQR**LTLPPLPPGSKERPTVLN**YKKNL
EYQDGNLDS**L**TIL**FK**DLGPQVSYRTLFFFEYLGPLVLYPFFYYFPVYQFLGYKGEHIMHPVQTYALYYW
CFHYFKR**IMETFFVHRF**SHATS**SPLSNVFR**NCAYYWTFGSYIAYVNVHPLYTPVGDLMQKIGFGFGLVCQ
LANFYCHILLRNLRRPDGNGGYQIPSGFLFNIVTCANYTTEIYQWLGFNIAQTQTVAGYIFLVVAASIMT
NVALAKHRRLLKFLFDGKDGPRPKYPRRWVILPPVL

Protein No.: I-758

Protein name and Species:

Suppression of tumorigenicity, putative OS=Ricinus communis

GN=RCOM_0712150 PE=4 SV=1

Accession: tr|B9RRB9|B9RRB9_RICCO

Unused ProtScore: 3.22

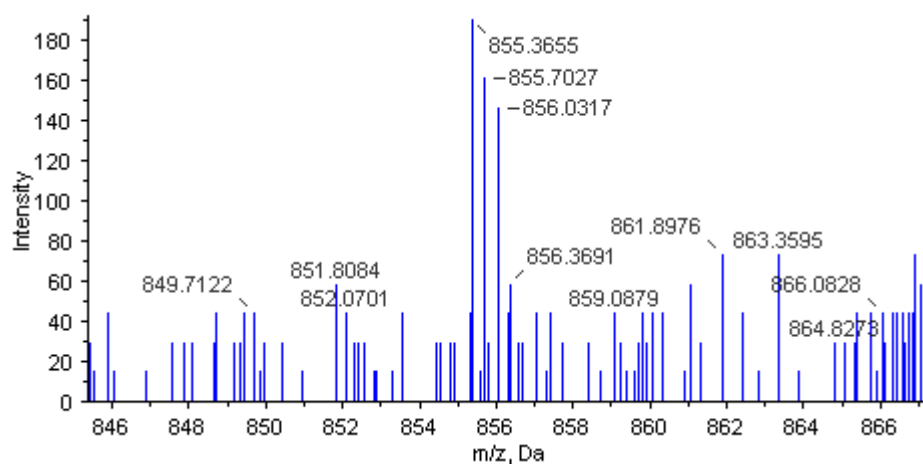
Seq Cov %: 6.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=1.68

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKNEDTGSPGWR**ASLFLQTTEDVARAVAAAAAATAPR**SPR**PSVVFSSK**DDHGDSQFQKLQRHVTRVL
KGFSSPPPEVKAGTYNPEVLTSQKRQWANFQLQYLDHRSLKEPSRLFESMVVGLHPNCDLQALQRQYV
ARKSEGSARLQGSFGCQNSRVEPVLEPQVLFVY**PPDK**QLPLKYKDLLSFCFPGGMEVHAVEKTPSMSE
LNEILLGQEHKQSDLSFVFRQLQVADDSTLYGCCVLVDEIVQKPSGLLSMISDKRSSCSSLSRYVLTR
RCYCILSRLPFFELHFGVLNSIFTEERLERLTRHIGAFDLESSEGYDKDENLGYNLDSVSPNYIAAEDR
LDGAAETFQSSLRDSTPGEDNKNHMEHCITEEHIHLLQKGVNDNIVVPVESETEIVSNKGESGGNLED
SDICVDDLKQAEERRLPNAVLPLIR**YYQYESSSESSSFQGSPEDR**NFRSDIDDTETEEASTSGQED
TNDHMDILEWAKVNNYGSLQIICK**YYQLHCP**SRGSTLRRLHPLEHLHPLEYHRTDETIVLHIAGSVIDLRT
CSTLEFAEAHSALSAAAAEATALSTWAVACICGSLRLENVLTFLFAGALLEKQIVFVCSNLGILSASVLS
I**VPLIR**PYQWQSLMPLPDDMLDFLDAPVPYVVGKNTSEVQSKLTNVIIVDVNKNQVKSHTIPQLP
KHRELFSSLSPYHAKLVGESYLARKRPVHECTDVQVCYSA

Protein No.: I-759

Protein name and Species:

Peroxidase 12, putative OS=Ricinus communis

GN=RCOM_0961200 PE=3 SV=1

Accession: tr|B9SEA1|B9SEA1_RICCO

Unused ProtScore: 3.22

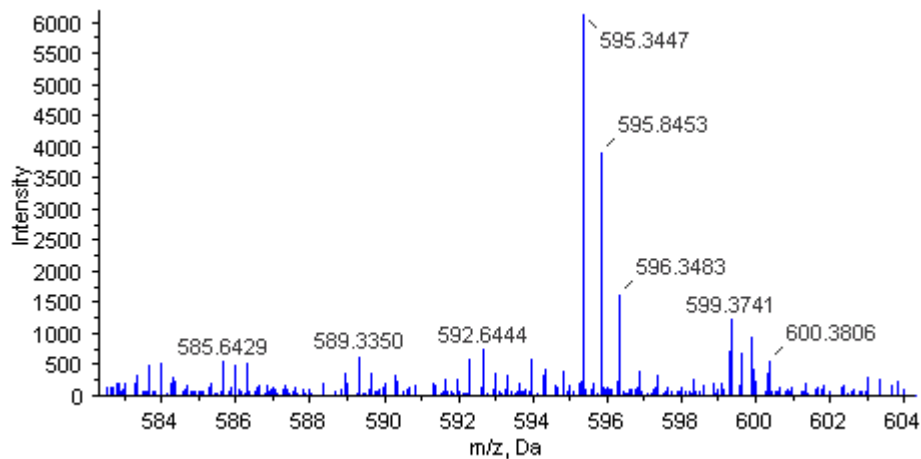
Seq Cov %: 7.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.49

116: 114=E5TL: D5TL=1.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASANSFTSLLLIISCLLLAACFSAIEAQTKPPIKNGLSWTFYKTSCKPAESIIRSELKKIFKKDVGQAA
GLLR¹LHFHDCFVLGCDSSVLLDGSAGGPSEKSELPNLTLRKQAFKIVEDLRLARLHKECGRVVS²CSDIVA
IAAR³DSVVL⁴TGGPEYAIPLGRRDGVKFAEINATFEHLVGP⁵TAKVTEILTKLDRKGLDATDAVALSGGHT
IGIGHCTSFT⁶TERLYPSQDPTMDK⁷TFANNLKLTCPKLDTTNTTFLDIRSPNKFDNKYYVDLMNRQGLFTS
DQDLYTDKRTRSIVTSFAINESLFF⁸EKFIIGMIKMGQLDVL⁹TGNQGEIR¹⁰ANCSAINPKKYYIESVAEEE
LGSSSEMR

Protein No.: I-760

Protein name and Species:

elongation factor 2-like OS=Vitis vinifera

GN=VIT_19s0027g00760 PE=4 SV=1

Accession: tr|F6H4T7|F6H4T7_VITVI

Unused ProtScore: 3.21

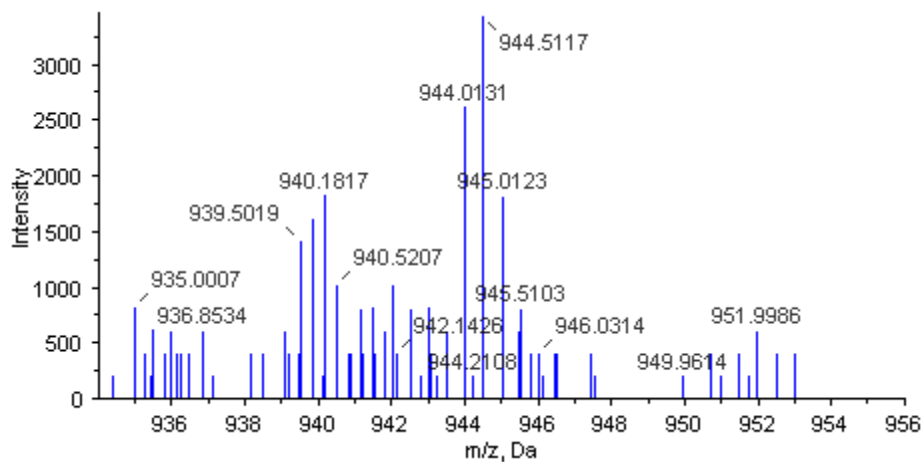
Seq Cov %: 25

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.63

116: 114=E5TL: D5TL=1.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDFNRICLPLWVKFTVEELRRIMDYKHNIR**NMSVIAHVDHGKSTLTDSLVAAGIIAQEVAGDVR**MTDT
RQDEAERGITIK**STGISLYYEMSDESLK**NYRGERQNEYLINLIDSPGHVDFSSSEVTAALRITDGALVV
VDCVEGVCVQTETVLRQALGER**IRPVLTVNK**MDR**CFLLELQVDGEEAYQTF**SRVIENANVIMATYEDPLL
GDVQVYPEKGTVAFSAGLHGWAFT**LTNFAK**MYASK**FGVDESK**MMERLWGENFFDPSTRKWTTKNTGAPN
CKR**GFVQFCYEP**IK**QIINTCMNDQKDKLWPLQKLGVTMK**SDEKDLMGKALMKRVMQTWLPASTALLEM
MIFHLPSPSTAQKYR**VENLYEGPLDDIYATAIRNCDEGP**LM**LYVSK**MIPASDKGR**FFAFGRV**FSGKVS
TGLKVR**IMGPNYVPGEK****KDLYVK**SVQR**TVIWMGKRQETVEDVPCGN**TVAMVGLD**QFITK**NATLTNEKES
DAHPIRAMK**FSVSPVVRVAVQCKVASDLPK**LVEGLKRLAKSDPMVVCSEESGEHIAGAGELHLEICL
KDLQDDFMGGAEIVKSDPVVSFR**ETVLEK**SCRTVMSKSPNKHNRL**LYMEARPLEEGLAE**AIDDGRVGPRD
DPKARSK**ILSEEF**GWKDLAKK**IWCFGPETTGP**NMVDMCKGVQYLNEIKDS**VVAGFQWASKEGALAE**
NMRGICFEVCDVVLHADAIHR**GGGQVIPTARRVIYASQLTAKPR**LLEPVYLVEIQAPEQALGGIYSVLN
QKR**GHVFEEMQR****PGTPLYNIKAYLPV**VESFGFS**GTLR**AAATSGQAFPQCVDHWDVMSADPLEAGSTAAQ
LVADIRKRKGLK**EQMTPLSEFEDKL**

Protein No.: I-763

Protein name and Species:

Cinnamoyl-CoA reductase OS=Hevea brasiliensis GN=CCR

PE=2 SV=1

Accession: tr|E9M776|E9M776_HEVBR

Unused ProtScore: 3.19

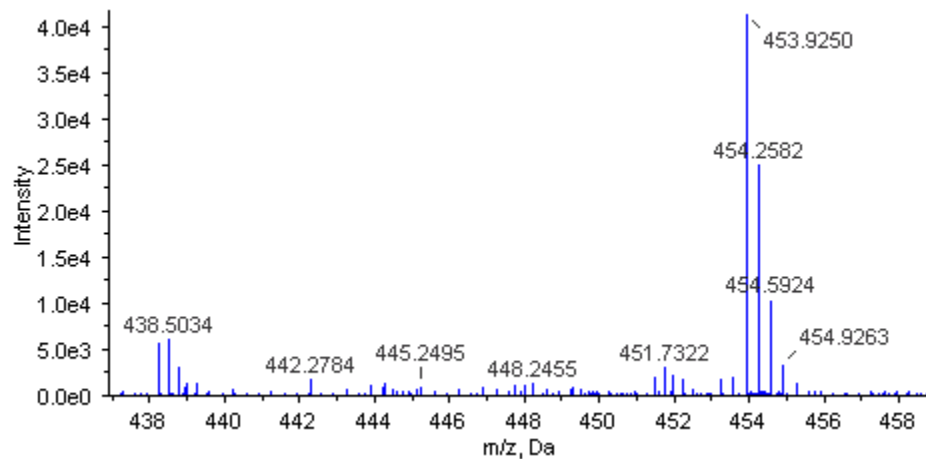
Seq Cov %: 5.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=1.02

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPVDTSSLSGHHQTVCVTGAGGFIA SWIVKLLLLERGYTVK**GTVRNP**DDPKNSHLRELEGAKERLTLCK**A**
DLLDYESLRKAIMGCDGVFHAASPVTDDPEQMVEPAVNGTKNVVIA**AEAK**VRRVVFVTSSIGAVYMDPN
RNPDVVVDESCWSDLDFCKNTKNWYCYGKAVAEQA AWEVAKEKGVDLVAVNPVVLVLP LLQSTVNAS I I
HILKYL**TGSAK**TYANSVQAYAHVKDVALAHILVYEIP SASGR**YLCAESVLHR**GEV**VEILAK**SFPEYPI P
TRCSDEKNPRAKPYKFSNQKLDLGM EFTPVKQCLYETVKSLQERGHLP I PKQPEDSIRIQS

Protein No.: I-771

Protein name and Species:

Multicopy suppressor of IRA1 OS=Nicotiana tabacum

GN=MSI1 PE=2 SV=1

Accession: tr|B0LUS9|B0LUS9_TOBAC

Unused ProtScore: 3.09

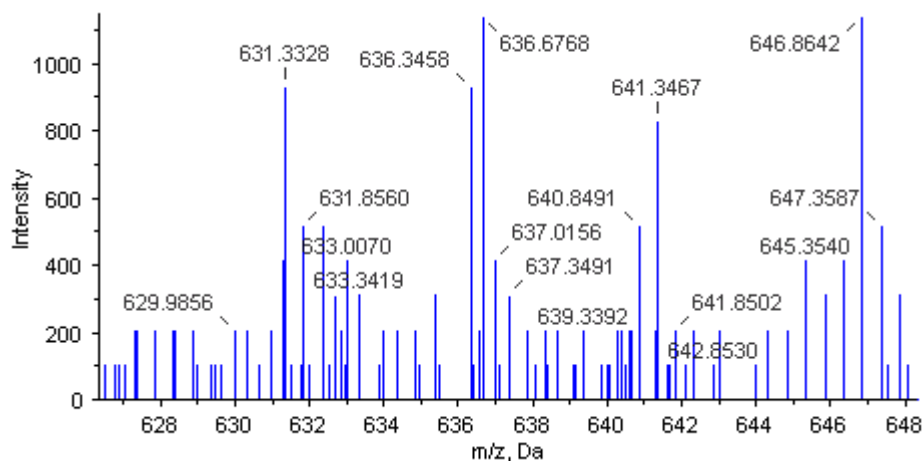
Seq Cov %: 5.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGKDEDEMRGEIEERLINEEYKIWKKNTPFLYDLVITHALEWPSLTVEWLPDREPPGKDYSVQKMILG
THTSENEPNYLMLAQVQLPLEDAENDARHYDDDRSEFGGFGCANGKVQIIQQINHDGEVNRARYMPQNS
FIIATKTI SAEVYVFDYSKHPSKPPLDGACNPDLRLRGHSTEGYGLSWSQFKQGHL LSGSDDAQTCLWD
INATPKNKALDAMQIFKIHEGVVEDVAWHLRHEYLFGSVGDDQYLHIWDLRTPSVTKPIQSVVAHQSEV
NCLAFNPFNEWVVATGSTDKTVKLFDLRKISTALHTLDCHKEEVFQVGWNPKNETILASCCLGRRLMVW
DLSRIDEEQTPEDAEDGPPELLFIHGGHTSKISDFSWNPCEDWVASVAEDNILQIWQMAENIYHDEDD
LPGDDATKAP

Protein No.: I-772

Protein name and Species:

**ubiquitin-associated (UBA) zinc-finger and PB1
domain-containing protein OS=Populus trichocarpa
GN=POPTRDRAFT_252306 PE=4 SV=1**

Accession: tr|B9IEZ0|B9IEZ0_POPTR

Unused ProtScore: 3.06

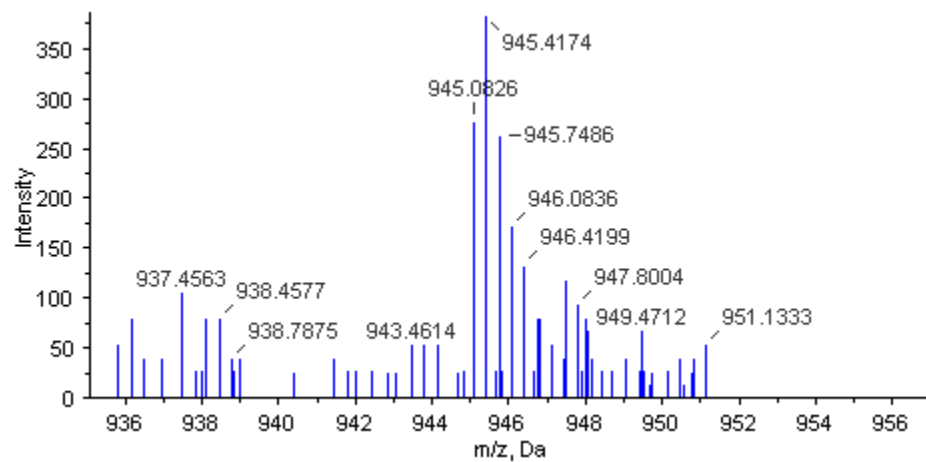
Seq Cov %: 5.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.13

116: 114=E5TL: D5TL=0.57

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

IQVKYSDTLRRFNAHVKENEQLDLDLMIALREKIFGLFNFPPDADLTLYIDEDGDVVTLADDDDLRDVM
RQNLKFLRIDVQLNNDKSGKSNARSSGSSTPMRSPRVQSPLPCLNNGVADVLR**SVPEPLR**EVLSK**ISLD**
LTSKAVASNTVLTTELVD**CFSK**MGQYHLNPTSQSHDGIGAQTGATAPTVLNASKDGGLKEDLLNLNSPLK
TSQEERFENGTKTAMSPHTAVPSPVNLNPNPQISNSHVIKRNNLNNPMVGMFHR**GVQCDGCGVHPITG**
PRYKSKVK**EDYDLC****SICFAEMGNEADYIK****MDR****PMPYR**NRWSFKGFNDPKSWAIPQPLSKGSYGKGAQP
KLDSRFVLDVNVSDGTMPTCTPFTKIWRMRNNGSVAWPQGVRL**VWIGGDR**FFNTDSVEIEIPVNGVPI
DGELDVAADFVSPALPGR**YISYWR**MAYPSGGKFGQRVWVLI EVDASLKDPFFKYLNLNESPNYIGSKFP
GVLDMNVQPAVDGCFLEPQNNNTLLSEPDVPMVDEQPKSQELKFPIDDALLIGHGVSASAPPQAMPSSVP
VLYPMIDISETVPASTELLPAADASTSPEEVIVENAVEKTLLKELKEMGFKQVDLNKEILRRNEYDLEQ
SVDDL CGVSDWDP ILEELQEMGFRDKEMNKLLLKKNNGSIKGVVMDILTGKK

Protein No.: I-774

Protein name and Species:

Vacuolar sorting protein, putative OS=Ricinus communis

GN=RCOM_0363260 PE=4 SV=1

Accession: tr|B9SYU2|B9SYU2_RICCO

Unused ProtScore: 3.05

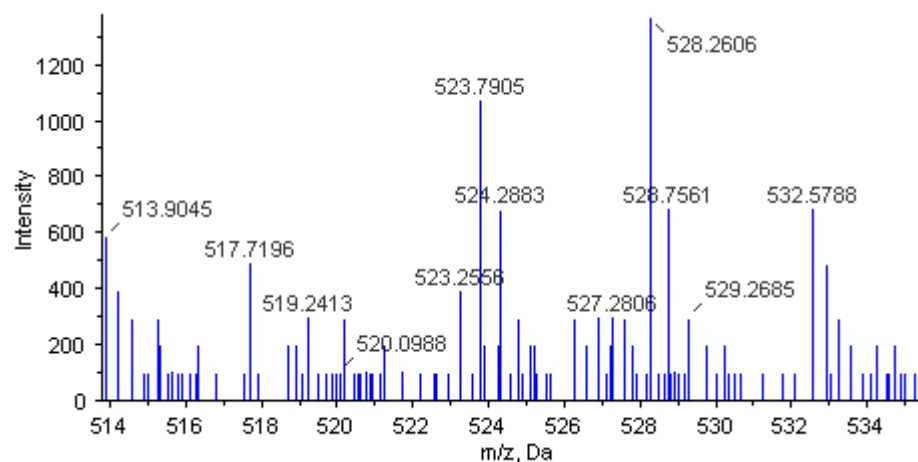
Seq Cov %: 2.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.96

116: 114=E5TL: D5TL=2.06

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MIADGVENEKWLAAAGIAGLQQNAFNMHRALDSNNLRDALKYSAQMLSELR^{TSKLS}SPHKYYELYMR^{AFD}
ELR^{KLEIFFREETR}RGCSIIDLYELVQHAGNILPRLYLLCTVGSVYIKSKEAPAKDVLKDLVEMCRGIQ
HPVR^{GLFLR}SYLSQVSRDKLPDIGSEYEGDADTVMDAVEFVLQNF^{TEMNKLWVRMQHQPAREKEKREK}
ERSEL^{RDLVGKLNHLVLSQIEGV}DLDMYKETVLPVLEQVVNCKDEIAQFYLMDCI^{IQVFP}DEYHLQ^{TLE}
VLLGACPQLQPSVDIKMVL^{SRLMERLSNYAAS}STEVLPEFLQVEAFSKLNHAIGKVIEAQVDM^{MPMGAV}
TLYSSLLTFTLHVHPDRLDYADQVLGACVKKLSNKGKLEDSKATK^{QIVALLSAPLEK}YNDVVTALKLSN
YPRVMEYLDNETNK^{VMA}TVII^{QSIMK}NNTRIS^{ADKVEALFELITGLIK}DL^{DGT}HEEVD^{EDDFK}EEQNS
VAR^{LIQMLHND}DPEEMYKI^{ICTVRKQIMTGGPKRLPFTVPPLV}FSS^{LKLVRR}LQ^QEE^{NPF}GDES^{STTP}
KKIFQLLNQMI^{EALSIVPAPELALRLYLQCAEA}ANDSDLEPVAYEFFTQAYILYEEDISDSKAQVTALH
LII^{IGTLQRMHVFGVENR}DTLTHKATGYSAKLLKKPDQCR^{AVYGC}AHLFWDDQDNMKDGERVLI^{CLKRA}
LRIANAAQQMANATRGSTG^{SVTLFVEILNKYLYFF}EKG^{NPQVTVA}AIQSLIE^{LITTEMQ}SDS^{STPD}PAA
DAFFASTLRYIQFQKQKGGGAIGEKYEPLKIVTG

Protein No.: I-778

Protein name and Species:

Phosphoglycerate dehydrogenase OS=Populus trichocarpa

GN=POPTRDRAFT_1069632 PE=2 SV=1

Accession: tr|A9PEK1|A9PEK1_POPTR

Unused ProtScore: 3.04

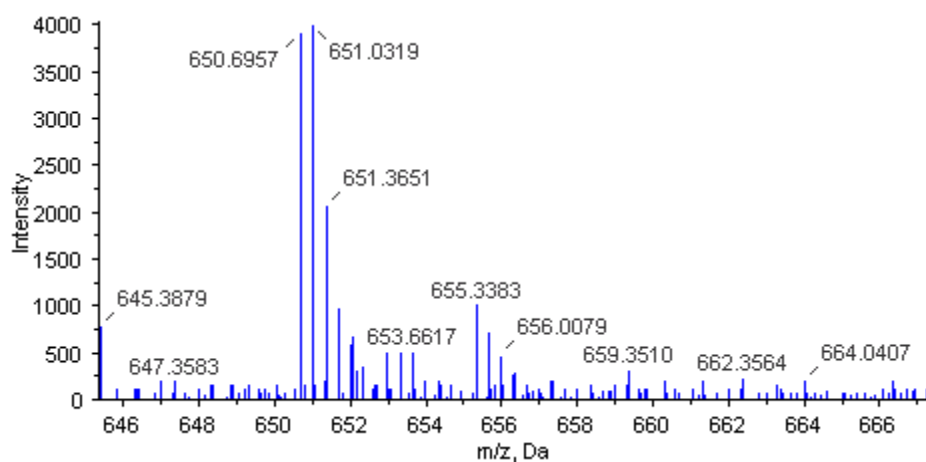
Seq Cov %: 4.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.19

116: 114=E5TL: D5TL=0.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAATTSTAASSLLATKKNLSSLSLTSANKLPAFSPLLTSSRRQRFIVLSASLNSKPTVLVAEKLGEAGI
NLLKDFANVDCSYNLSPELCTKISLCDAIIVRSGTKVSREVFESSGGRLKVVGRAGVGIDNVDLAAAT
EHGCLVVNAPTANTVAAAHEGIALMAAMARNVAQADASVKAGKWERNKYVGVSLVGKTLAVMGFGKVG
EVARRAKGLGMHVIAHDPYAPADRARAIGVELVSFDEAIATADFISLHMPLTPATAKILNDETFAMKK
GVRIVNVARGGVIDEDALVRALDAGIVAQAALDVFTVEPPPQDSKLVQHERVTVTPHLGASTKEAQEGV
AIEIAEAVVGALKGELASTSVNAPMVAEVLTELKPYVELAEKLGRLAVQLVSGGSGVKDVKVTYASAR
APDDLDTRVLRAMITKGLIEPISSVFVNLVNADFSKQRGLRISEERILGDGSPESPLHFIQVQIANVE
SKFASAISENGEIKVEGRVKDGIPHLTKVGSFEVDVSLEGSIIILCRQVDQPGMIGKVGSVLGVENVVNS
FMSVGRIAPRKQAVMAIGVDEQPSKETLKKIGDIPAVEEFVFLKL

Protein No.: I-779

Protein name and Species:

Sucrose synthase [Arabidopsis thaliana] OS=Arabidopsis lyrata
subsp. lyrata GN=ARALYDRAFT_494980 PE=4 SV=1

Accession: tr|D7MNN8|D7MNN8_ARALL

Unused ProtScore: 3.03

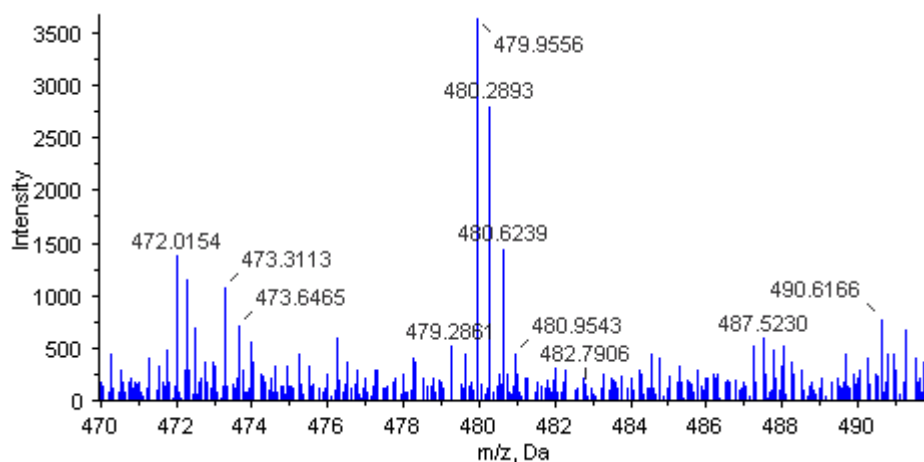
Seq Cov %: 8.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.27

116: 114=E5TL: D5TL=0.33

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPTGRFETMREWVHDAISAQRNELLSLFSRYVAQKGILQSHQLIDFLKTVKVDGTTEDLNKSPFMKV
LQSAAEEAIVLPPFVALAIRPRPGVREYVRVNVYELSDHLTVSEYLRFKKEELVNGHANGDYLLELDFEP
FNATLPRPTR**SSSIGNGVQFLNRHLSIMFR**NKESMEPLLEFLRTHKHDGR**SMMLNDR**IQNIPIIQGAL
AR**AEEFLSK**LPLATPYSEFEFELQGMGFERGWGDTAQKVSEMVHLLLDILQAPDPSVLETFLGRIPMVF
NVVILSPHGYFGQAN**VLGLPDTGGQVVYILDQVRALENEMLLR**IQKQGLEVIPKILIVTRLIPEAKGTT
CNQRLEKVSGETEHAHILRIPFRTEKGILRKWISRFDVWPYLETFEAEDASNEISAELQGVNLIIGNYSD
GNLVASLLASKLGVMQCNIHAHALEKTKYPESDIYWRNHEDKYHFSSQFTADLIAMNADFIIITSTYQEI
AGSKNNVGQYESHTAFTMPGLYR**VVHGIDVFDPK**FNIVSPGADMTIYFPYSDKERRLTALHESIEELLF
SAEQNDEHVGLLSDQ**SKPIIFSMAR**LDRVKNLTGLVECYAKNSKLRELANLVIVGGYIDVNQSRDREEM
AEIQMHSLIEQYDLHGQFRWIAAQMNRRANGELYRYIADTKGVFVQPAFYEAFGTLTVVESMTCGLPTF
ATCHGGPAEIIENGVSGFHIDPYHPDQVAATLVSSFETCNTNPNHWVKISEGGLKRIYERYTWKKYSER
LLTLAGVYAFWKHVSKLERRETRR**YLEMFYSLK**FRDLANSIPLATDEN

Protein No.: I-780

Protein name and Species:

Calcium ATPase OS=Populus trichocarpa

GN=POPTRDRAFT_768258 PE=3 SV=1

Accession: tr|B9HPP7|B9HPP7_POPTR

Unused ProtScore: 3.03

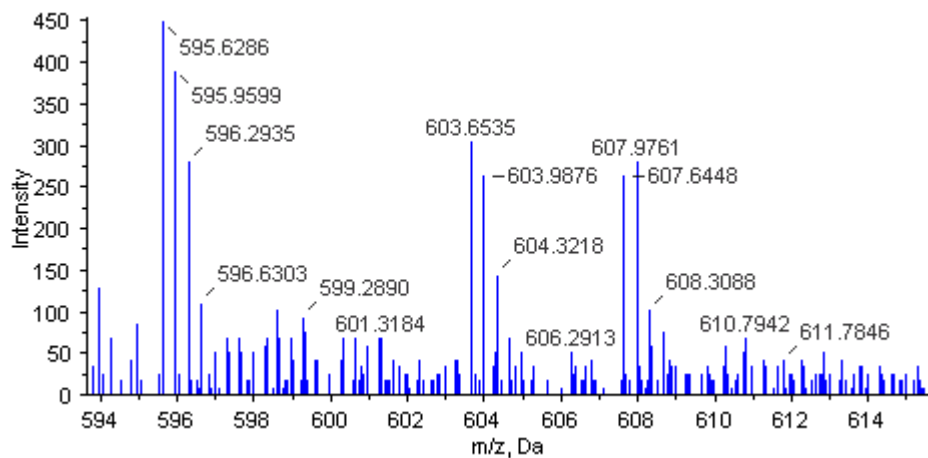
Seq Cov %: 2.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.01

116: 114=E5TL: D5TL=1.67

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKGGEDYGERDQNGIESQNQGDIFPAWAKEVKECEEKYAVNREFGLSSADVEKRLKIYGYNELEKHEG
VSIFKLIILDQFNDDLVRILLAAAIVSFVLAWYDGEEGGEMGITAFVEPLVIFLILIVNGIVGIWQESNA
EKALEALK**EIQSEHATVIR**DRKKFSSLP**AKELVPGDIVELR**VGDKVPADMRVLNLISSTLR**VEQGSITG**
ESEAVSKTAKPVAESTDIQGGKCMVFAGTTVVNGNCICLVTEETGMNTEIGKVHSQIHEAAQNEEDTPLK
KKLNEFGEVLTMLIGIICALVW**LINLKY**FLTWYVDGWPKNFKFSFEKCTYYFEIAVALAVAAIPEGLP
AVITTCALGTRKMAQKNALVRKLPVETLGCTTVICSDKTGTLTTNQMAVSKLVAMGSRVGTLS**FNV**
EGTTYSFPDGKIEDWPVGRMDSNLQMIAKIAAVCNDAGVEQSGNHVYVAG**GMPTEAALK**VMVEKMGFPGG
LSKESLVHEDVLACCRLWNTMEQRIATLEFDRDRKSMGVIVN**SSSGK**KSLLVK**GAVENLLDRSTSIQL**
LDGSVVALDRCSKDL**LQNLRE**MSTSALRCLGFAYKEDLSEFRTYSGDEDHPAHQLLLDLHNYSSIESN
LTFVGLAGLRDPPRKEVRQAIEDCKAAGIRVMVITGDNKNTAEAIICHEIGVFGPYDDISSKSLTGREFM
GLRDKKTHLRQSG**LLFSRA**EPRHKQEI VRLLEDGEVAMTGDGVNDAPALKLADIGIAMGIAGTEVA
KEASDMVLADDNFSTIVVAVGEGRSIYNMKA FIRYMISSNIGEVASIFLTAALGIPEGMIPVQLLWVN
LVTDGPPATALGFNPPDGDVMKKPPRKSDDSLISAWILFRYLVIGFYVGIATVGVFI IWYTRHTFMGID
LSGDGHSLVYTYSQLANWGHCEWKNFSASPFTAGSQVFNFDANPCEYLRSKIKASTLSLTVLVAIEMF
NSLNALSEDCLVRMPPWVNPWLLLAMSVSFGLHFLILYVFPFLAQVFGIVPLSLNEWLLVLAVALPVIL
IDEVLKFBVGRLTSGWRHSGSRRRPSKSKPE

Protein No.: I-782

Protein name and Species:

Serine/threonine-protein kinase SRK2C OS=Arabidopsis
thaliana GN=SRK2C PE=1 SV=1

Accession: sp|Q9M9E9|SRK2C_ARATH

Unused ProtScore: 3.02

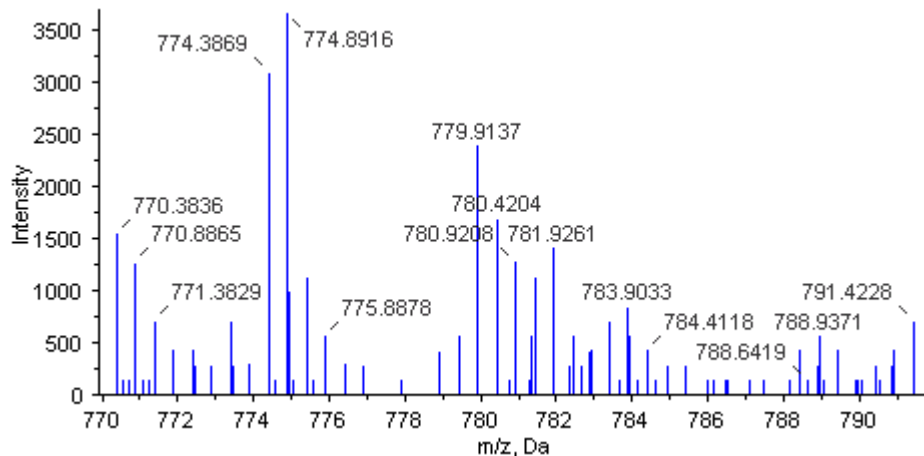
Seq Cov %: 6.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.54

116: 114=E5TL: D5TL=0.27

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MERYEIVKDIGSGNFGVAKLVRDKFSELFAVKFIERGQKIDEHVQREIMNHRSLIHPNIIRFKEVLLT
ATHLALVMEYAAGGELFGRICISAGRFSDEEARFFFQQLISGVNYCHSLQICHRDLKLENTLLDGSEAPR
VKICDFGYSKSGVLHSQPKTTVGTPAYIAPEVLSTKEYDGIADVWSCGVTLYVMLVGAYPFEDPSDPK
DFRKTIGRILKAQYAIIPDYVRSDECRHLLSRIFVANPEKRITIEEIKNHSWFLKNLPVEMYEGSLMMN
GPSTQTVEEIVWLIIEEARKPITVATGLAGAGGSGGSSNGAIGSSSMDLDDLDTDFFDDIDTADLLSPL

Protein No.: I-783

Protein name and Species:

**Nonsense-mediated mRNA decay protein, putative OS=Ricinus
communis GN=RCOM_0241560 PE=4 SV=1**

Accession: tr|B9T5L2|B9T5L2_RICCO

Unused ProtScore: 3.02

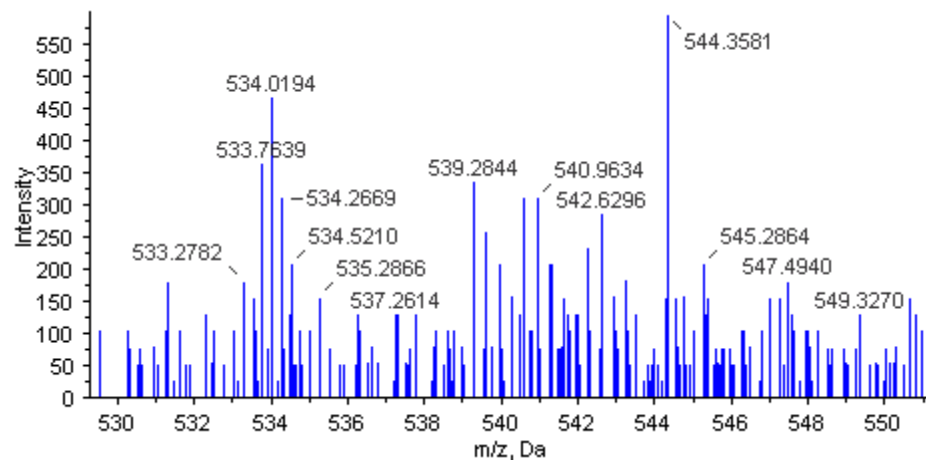
Seq Cov %: 4.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=0.38

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEAGMFMVRQTIGSVLCCCKCGIPMQPNAVNMCVKCLRSEVD **ITEGLK**KRVI IKHCPECDTYLQPPYT
RIKAQLESKELMTFCVRTLDLKHAGVTLVHAEFIWTEPHSKRIKLRVQKEVHRGAVLEQSYIVEFVQ
QESMCESCSRVQANPDQWVASVQLRQHVSHRRRTFFYLEQLILKHDAARAIAIKQMDQGIDFFFGNR **SH**
GVK FVEFLGKVAPVRSRHDKQLVSHDPKSNNYNYK **YTF SVEISPICR**EDLVCLPPKVAVSLGNLGPLVI
CTKVTNSIALLDPLTLRHICYLDGDQYWRSSFKSLTSLRQLVEYIVLDVDIISPEVNISSKYAMAQVQV
ARLSDFGKNDTI **FFIK**THLGHILKPGDQALGYDLYGANSNDIELDKYK **GLVLPEALIK**KSYEEKRQRK
RGKPRAWKLKSLMEVDDSRGRNDQEKMDTEYEQFLRDLEENAELRF **NVSLYR**NKEYQPSEMASVTDGE
DVPSIPLEELLADLDISEMEDAADMRE

Protein No.: I-784

Protein name and Species:

ADP-ribosylation factor, putative OS=Ricinus communis

GN=RCOM_0910690 PE=3 SV=1

Accession: tr|B9RTH6|B9RTH6_RICCO

Unused ProtScore: 3

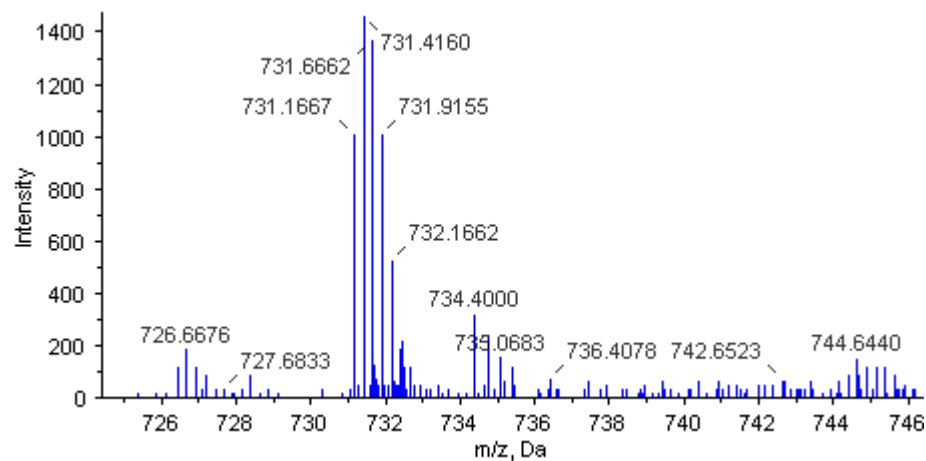
Seq Cov %: 15.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.64

116: 114=E5TL: D5TL=1.77

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGGFISRFWFMLFPAKEYK**IVVVGLDNAGK**TTTLYKLHLGEVVTTHTPTVGSNVEELVYKNIR**FEVWDLG**
GQDRLRTSWATYYRGTHAVIAVIDSTDRARISIMKDELFRLLGHEDLQHSVILVLANKQDLK**DAMTPAE**
ITDALSLHSIKNHDWHIQACCALTGEGLYDGLGWIAQRVTGKAPS

Protein No.: I-789

Protein name and Species:

Putative uncharacterized protein OS=Ricinus communis

GN=RCOM_1588080 PE=4 SV=1

Accession: tr|B9R730|B9R730_RICCO

Unused ProtScore: 2.98

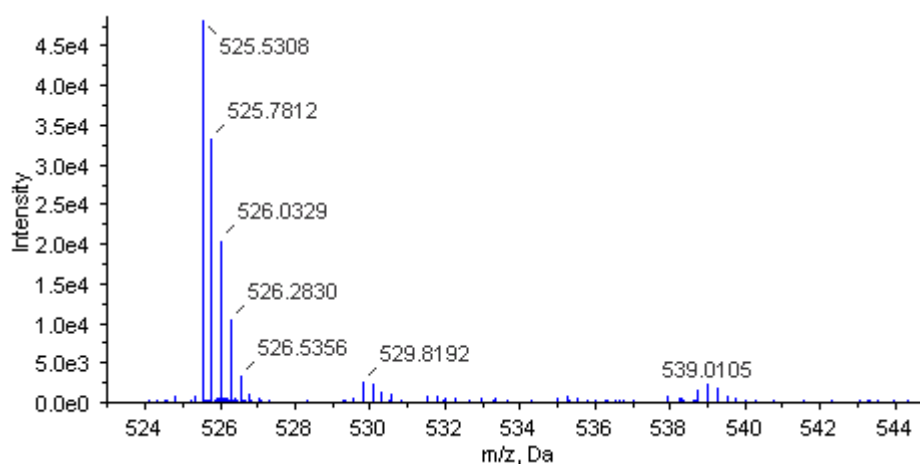
Seq Cov %: 10.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.10

116: 114=E5TL: D5TL=0.14

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSWWWAGAIGAAKKKQEEDDAPRSFQSVALVLGVTGIVGNSLAEILPLSDTPGGPWK**VYGVAR**RPRPTW
NADHPVEYIQCDISDSAETQSKLSQLTDITHIFYVTWTRQSEEDENCEINGLMFR**NVLQAVIPNAPNLR**
HICLQTGAKHYVGPFFESLGGK**IQTHDPPFTEDLPR**LDAPNFYYTLEDIMFEEVAKKEGLTWSIHRPDQIF
GFSPYSLMNIIGT**LCVYATICKHEGLPLLFPGTK**AAWNCYSVASDADLIAEHQIWASVDPYAKDEAFNC
NNG**DVFK**WKHFVKVLAEQFGIEEYGFEEGEEKR**LSLVEMMK**GKEAVWEEIVSENQLQPTKLDEVAVWWFV
DLMLGGEAVISSMKNKSK**EHGFLGFR**NSKNSFAS**SWIDK**MKAYKIVP

Protein No.: I-790

Protein name and Species:

Cycloartenol synthase OS=Ricinus communis PE=1 SV=1

Accession: sp|Q2XPU6|CAS1_RICCO

Unused ProtScore: 2.98

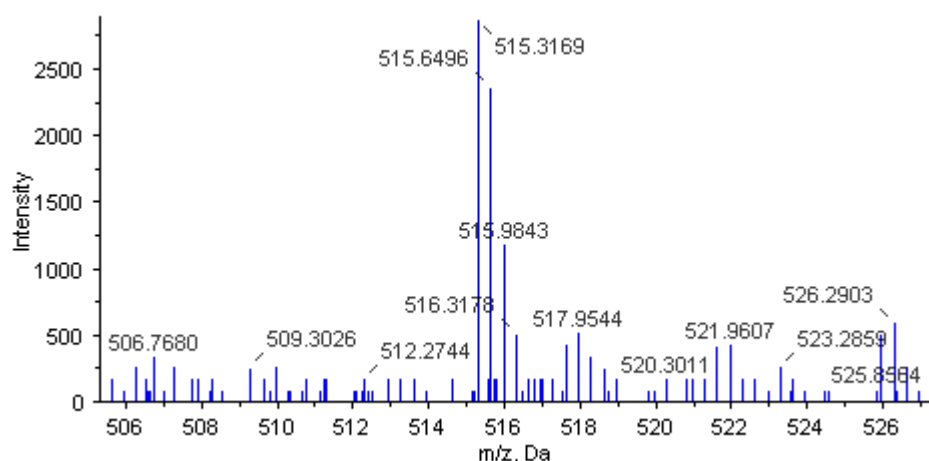
Seq Cov %: 3.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.48

116: 114=E5TL: D5TL=1.16

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MWKLRIAEGSGNPWLRRTTNDHIGRQVWEFDSKIGSPEELSQIENARQNF^TKNRF^IHKHSSDLLMRIQ^F
SKENPICEVLPQVKVKESEQVTEEKVKITLRRALNYYSIQADDGHWPGDYGGPMFLMPGLIIALSITG
ALNAILSEEKREMCRYLYNHQNRDGGWGLHIEGPSTMFGSVLCYVSLRLLGEGPNEGEGAV^EGRNWI
LKHGGATAITSWGKMWLSVLGAYEWSGNNPLPPEM^WLLPYILPVHPGRMWCHCR^{MVYLPMSYLYGKRFV}
^{GPITPTVLSLR}KELYTV^PYHEIDWNQARNQCAKEDLYYPHPMLQDVLWATLHKFVEPI^LMHWPGKRLRE
KAIQTAIEHIHYEDENTRY^{YICIGPVNK}VLNMLCCWVEDPNSEAFKLHLPRLYDYLWLAEDGMKMQGYNG
SQLWDTAFAVQAI^VSTNLI^EEYGP^TLKKAHSFIKKMQVLENC^PGD^LNFWYRHISKGAWPFSTADHG^WPI
SDCTAEGIKALMLLSK^{IPSEIVGEGLNANR}LYDAVNVVLSLQNGDGGFPTYELSR^SYSWLEFINPAETF
GDIVIDYPYVECTSAAIQALTSFRKSYPEHQREEIECCIKKAAKFMEKI^QISDGSWYGSWGVCF^TYGTW
^{FGIK}GLVAAGKSFGNCSSIRK^{ACDFLLSK}QCPSGGWGESYLS^CQKKVYSNLEGDRSHV^VNTAWAMLSLI
DAGQAERDPTPLHRAARYLINAQMENGDFPQ^QEIMGVFN^RNCMITYAAYRDI^FPIWALGEYRCRVLKAS

Protein No.: I-794

Protein name and Species:

Lactoylglutathione lyase [Vitis vinifera] OS=Vitis vinifera

GN=VIT_10s0116g01660 PE=4 SV=1

Accession: tr|F6H7L5|F6H7L5_VITVI

Unused ProtScore: 2.95

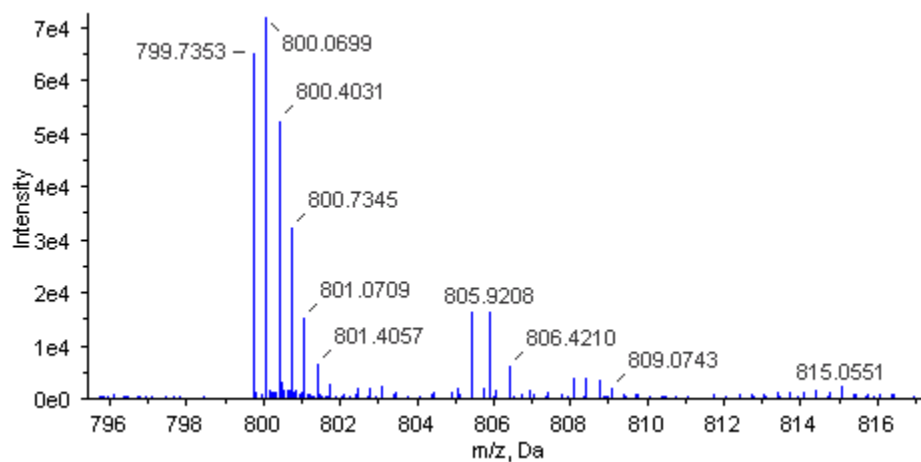
Seq Cov %: 23

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.24

116: 114=E5TL: D5TL=0.19

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAE**AAPVVP**SDELLEWPKKDKRR**FL**HVVYR**VGDLDR**TIK**FYTECFGMK**LLRKRDIPEEKYSNAFLGFGP
EETNFVVELTYKEDDETVEYLLNCFQQAPRYQLKLLRKVFDPWKL**AAPVVP**SDELLEWPKKDKRR**FL**
HVVYR**VGDLDR**TIK**FYTECFGMK**LLRKRDIPEEKYTNAFLGFGPEETNFVVELTYNYGVDKYDIGTGFG
HFAIATQDVYKMVEDIR**AKGGI****ITREPGPVK**GGKSV**IAFAK****DPDGYIFELIQRGPTPEPLCQVMLR**VGD
LERS**SIKFYEKALGMK**MVKKTDRPEYKYSIAMMGYAEHEHETTVLELTNYGVTEYTK**GNAYAQVAISTDD**
VYKSAEVVNLVTKEL**GK****ITRQPGPIPGLN**TKITSFLDPDGWKTVLVDNEDFLKELHKEE

Protein No.: I-799

Protein name and Species:

protein argonaute 4A-like [Vitis vinifera] OS=Vitis vinifera

GN=VITISV_044457 PE=4 SV=1

Accession: tr|A5BG74|A5BG74_VITVI

Unused ProtScore: 2.93

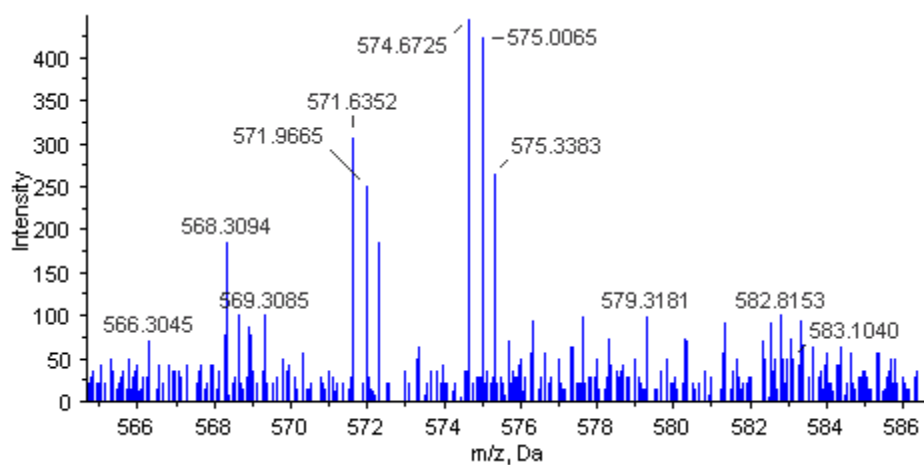
Seq Cov %: 2.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.55

116: 114=E5TL: D5TL=2.21

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MHPRPALMLPCIQPSRPALMLPCIQPLRQSYSSPTSEAHEFHVLQVLYKYLASCNRIILKRRLGRFVKNR
TVCPVRWSDRWFERFNAGSTTKRFFETDRTEKLTGRRFDRSDRPNLTMESQXPPNAEPXK**RSSSIPNRL**
PMARRGLGRTGETIQLVXNHFKVSMHSNANTGAHFYQYNVSLAXEDGHPADAKDIGRKMVDKVHETYHT
EMAXMSFAYDGEKSLFTIGSLPSKCLRFTVVLEDASSNRISTXRNIDXPDDGSDRKRSRPYHSKTFNV
EIS**FAAK**FPMDSIVRASYGQPSKHLQDAAX**VLDIILR**QHAACKGCLVVRQSFFDNLPXNFTPLGGGVLG
CRGFNSSFRATQGGLFLNMDVSTTLVIQDPVRDFLVSNQNVKDMYHIDWSKLCTLVSLQRYTKPLSTQ
QRSSLVEKSRQKPQERMALKSNKYDANPMLRSSGISISTQFTQVEGRILPTPSSISVVISLQKSGNG
QDLSPRNGRWNFNKELAQPTKIDPWLIASFSSRCNMKTLIQDLIKCAKMKGISMGYPAEIFTENPQYM
REPAPVRVDMISTMMSQFRRLPQFILCILPQKKNCDIYGPWKRQCLSGCGVPTQCIAPSTPV**VNDQYL**
TNLLKINAKLGGLNSLLTMGYCPSLRLISTIPTLILGMDVSHGSPGRADVPSIAAVVSSRHWPSISQY
RATVRTQSPKLEMIDSLFEPLPNSKDSGIIQACKLLDEQWHPKFMVIAQKNHHTRFLQNGSPSNVPPG
LSPLYHLQSQVQSQAGLRITMYCWMSLAFQQMTCSNLCIPCXLAPVCYAHLAAAQVAQFIKFEDLPE
SSSGHAAAPVPQLPSFHEKVADTMFFC

Protein No.: I-801

Protein name and Species:

S-adenosylmethionine synthase 1 OS=Elaeagnus umbellata

GN=SAMS1 PE=2 SV=1

Accession: sp|Q9AT56|METK1_ELAUM

Unused ProtScore: 2.92

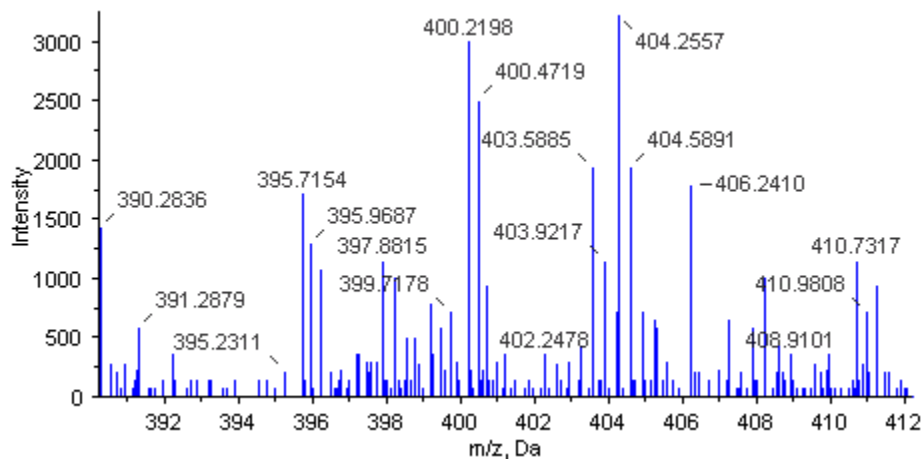
Seq Cov %: 26

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.60

116: 114=E5TL: D5TL=0.96

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

METFLFTSESVNEGHPDKLCDQISDAVLDACLAQDPDSKVACE**T**CSKTNMVMVFGEIT**T**KANVDY**E**KIV
RDT**C**RAIGFVSDDVGLDADNCK**V**LVNIEQQSPDIAQGVHGH**F**TK**R**P**E**EIGAGDQ**G**HMFYATDE**T**PEYM
PLSHVLATKLGARL**T**EV**R**KNGT**C**PWLRPDGK**T**Q**V**T**V**E**Y**YN**E**NGAM**V**P**V**R**V**HT**V**L**I**ST**Q**HDE**T**V**T**NDE**I**A
ADL**K**EH**V**IK**P**VI**P**E**K**YL**D**E**K**T**I**F**H**LN**P**SG**R**F**V**IG**G**PH**G**DA**G**L**T**GR**K**LIID**T**Y**G**GW**A**H**G**GG**A**F**S**G**K**DP**T**
K**V**DR**S**G**A**Y**I**VR**Q**AA**K**S**I**V**A**N**G**L**A**R**R**CL**V**Q**V**SY**A**IG**V**PE**P**LS**V**F**V**DS**Y**GT**G**Q**I**PD**K**E**I**LN**I**V**K**EN**F**D**F**R**P**
GM**I**T**I**N**L**DL**K**RG**G**NG**R**FL**K**T**A**GY**G**H**F**GR**D**DP**D**F**T**WE**I**V**K**PL**K**WE**K**P**Q**S

Protein No.: I-807

Protein name and Species:

60S ribosomal protein L14, putative OS=Ricinus communis

GN=RCOM_1169110 PE=4 SV=1

Accession: tr|B9SS61|B9SS61_RICCO

Unused ProtScore: 2.9

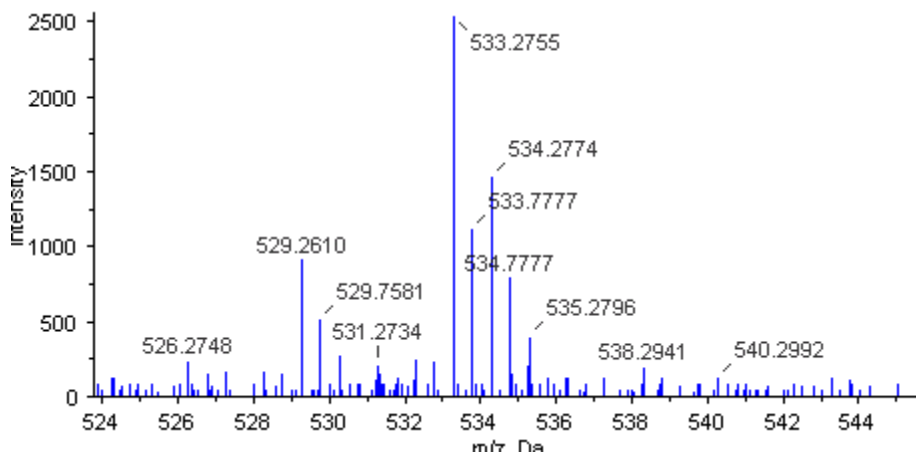
Seq Cov %: 13.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=0.33

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPFKRYVEI~~GR~~**VALVNYGK**DYGKLVVIVDVIDQNR**ALVDAPDMVR**SQMNFKRLQLTDIKIDINRVPKKK
NLIEAMEKADVKNKWESSSWGKLIIVQKRR**AALNDFDR**FK**LMLAK**IKRGGLIRQELAKLKKETAA

Protein No.: I-808

Protein name and Species:

Thioredoxin (Fragment) OS=Populus trichocarpa GN=PtrTrxh2

PE=3 SV=1

Accession: tr|B9IJS4|B9IJS4_POPTR

Unused ProtScore: 2.9

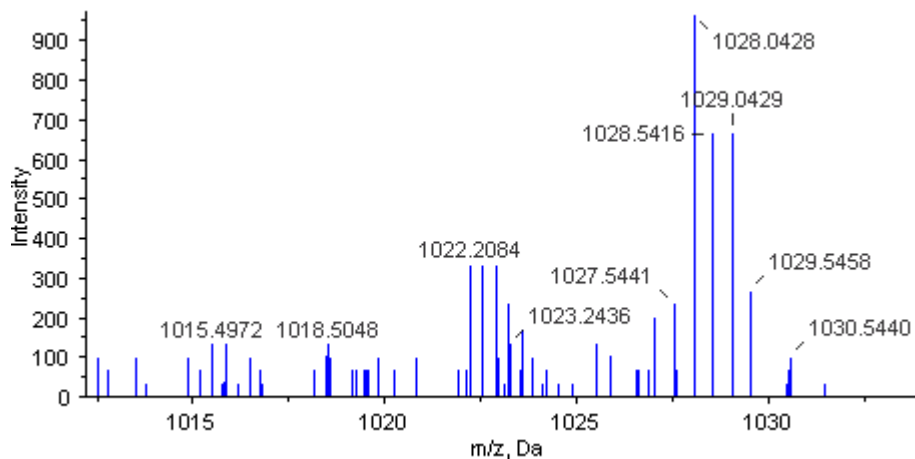
Seq Cov %: 25.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.08

116: 114=E5TL: D5TL=0.30

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

IGSILSYLFGASAAGEDSASDGQSGVTAF**HSSAR**WQLHFNSIKNTNQLMVIDFAASWCGPCKHMEPAVH
AMAAK**FTDVQFAKIDVDEL**PDVA**QEFVQAMP**TFVL**VK**KGNEVDRVVGAQKEELQRKIEKHR

Protein No.: I-813

Protein name and Species:

Ras-related protein RABA6b-like OS=Populus trichocarpa

GN=POPTRDRAFT_835110 PE=3 SV=1

Accession: tr|B9IEB2|B9IEB2_POPTR

Unused ProtScore: 2.87

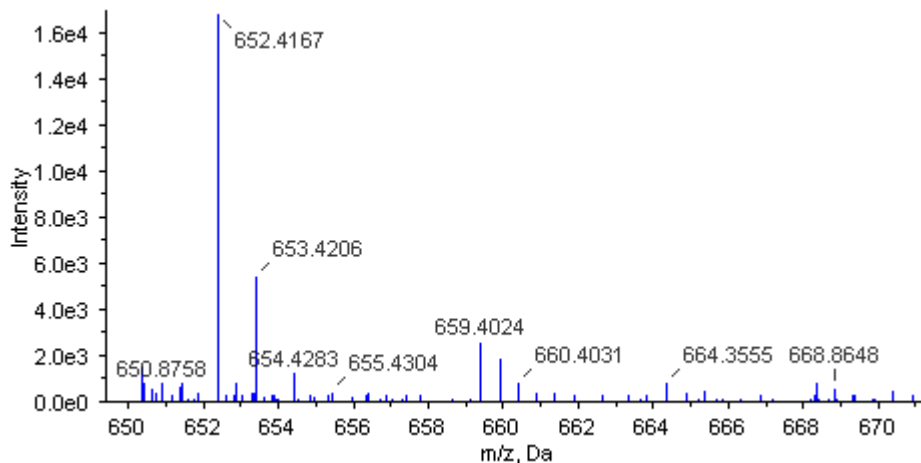
Seq Cov %: 19.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.77

116: 114=E5TL: D5TL=2.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADSYDEECDYL~~FKAVLIGDSAVGKSNLLSR~~FSRDEFRLDSKPTIGVEFAYRNIRVGD~~KL~~IK~~QA~~IWD~~TA~~
GQERFRAITSSYR~~GALGALLVYD~~ITRRATFDNVKKWLHEL~~RDFGSSDMVVVLVGNKSD~~ISH~~LRE~~V~~DE~~D
DGKNLAETEALYFMETSALENLNVEEAFMQMITRIHEIASQKSLEAKKNETTISTIKALPVGKEVINID
DEVSATKQASYCCSY

Protein No.: I-817

Protein name and Species:

Pro-hevein OS=Hevea brasiliensis GN=HEV1 PE=1 SV=2

Accession: sp|P02877|HEVE_HEVBR

Unused ProtScore: 2.85

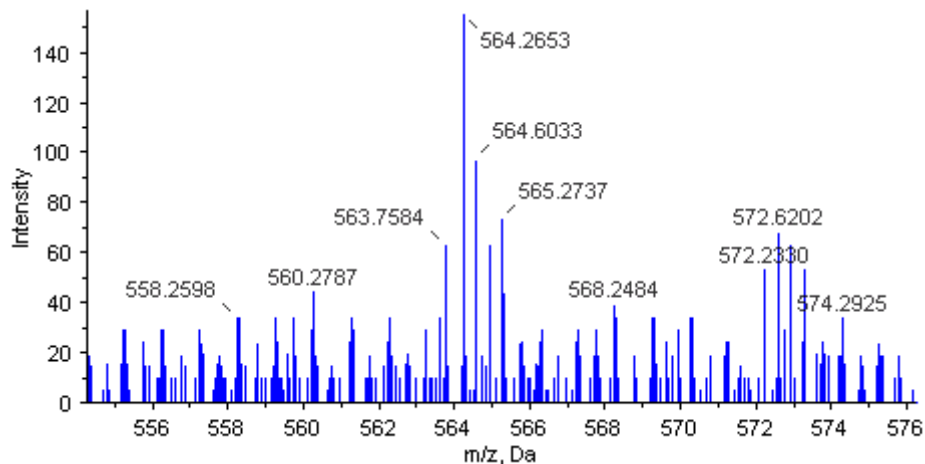
Seq Cov %: 65.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=0.34

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MNIFIVVLLCLTGVAIA**EQCGRQAGGK**LCPNNLCCSQWGWCGSTDEYCSPDHNCQSNCKDSGEGVGGGS
ASNVLATYHLYNSQDHGWDLNAASAYCSTWDANKPYSWR**SKYGWTAFCGPVGAHGQSSCGKCLSVTNTG**
TGAKTTVRIVDQCSNGLDLDVNVFRQLD**TDGKGYERGHITVNYQFVDCGDS****FNPLFSVMKSSVIN**

Protein No.: I-819

Protein name and Species:

Monodehydroascorbate reductase I OS=Pisum sativum

GN=MDHAR1 PE=4 SV=1

Accession: tr|Q66PF9|Q66PF9_PEA

Unused ProtScore: 2.84

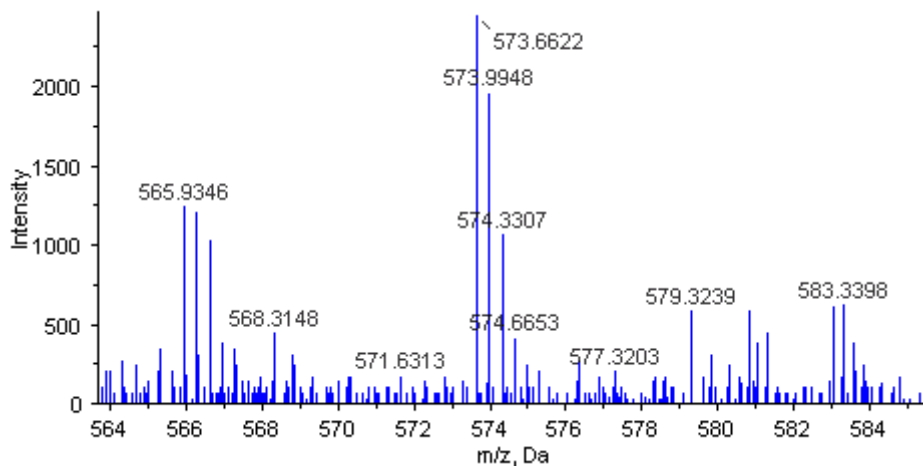
Seq Cov %: 14.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.96

116: 114=E5TL: D5TL=1.18

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVHSFKYILIGGGVSAGYAAREFVKQGVHPGELAIISK EAVAPYERPALSKAYLFPESPARLPGFHTCV
GSSGERLLPEWYSEKGIQLYLSTEIVSADLAAKFLKSANGEHFDYQTLVIATGSAVIRLTDGFIGANA
KNIFYLREVDADKLYEAIKRKKNAKAVVGGGYIGLELSAVLKLNDLDVTMVYPEPWCMPRLFTSEIA
AFYEGYYANKGINIKGTAVGFTANS DGEVKEVKLKDGRVLEADIVIVGVGGRPQISLFGQVEEQHG
GIKTDSFFKTSVPDVYAVGDVATFPLKLYNDVRRVEHVDHARKSAEQAAKVI FAADVRKSV E EYDYL PY
FYSRSFDLSWQFYGDNVGETVLF GDNDPASSKPKFGTYWIK EGKVVGAFLEGGTPDENKAI AKV ARAKP
AVEDVNQLAEEGLSFASKI

Protein No.: I-825

Protein name and Species:

eukaryotic initiation factor 4A-3-like [Vitis vinifera] OS=Vitis
vinifera GN=VIT_06s0080g00550 PE=4 SV=1

Accession: tr|F6HHF5|F6HHF5_VITVI

Unused ProtScore: 2.81

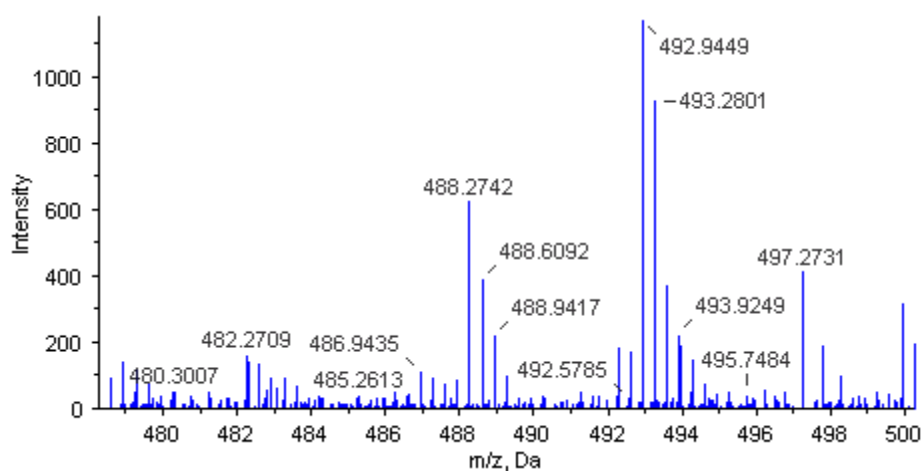
Seq Cov %: 11.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.72

116: 114=E5TL: D5TL=1.18

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAAATASVVPANRGGRRNGAVDDEKLVFETTEGVEPIMSFDQMGIKD DLLRGIYAYGF EKPSAIQQR
A
VLP I IQGRDVIAQAQSGTGK TSMIALTVCMVDTSNREVQALILSPTR ELASQTEKVILAIGDFINIQA
HACIGGKSVGEDIRKLEYGVHIVSGTPGRVCDMIKRRRTLRTRAIKLLVLDESDEMLSRGFKDQIYDVYR
YLPPELQVVLISATLPNEILEITNKFM TDPVRILVKRDEL TLEGIKQFFVAVEREEWKFDTLCDLYDTL
TITQAVIFCNTKRKVDWLTEKMRSNNFTVSSMHGDM PQKERDAIMAEFRSGTTRVLIITD VWARGLDVQ
QASHVSLVINYDLPNNRELYIHRIGRSGRFGRKGVAINFVKTDDIKILRDIEQYYSTQIDEMPMNVADL
I

Protein No.: I-827

Protein name and Species:

**Ribosomal protein L5A, 60S [Hevea brasiliensis] OS=Populus
trichocarpa GN=POPTRDRAFT_732569 PE=3 SV=1**

Accession: tr|B9IAZ4|B9IAZ4_POPTR

Unused ProtScore: 2.81

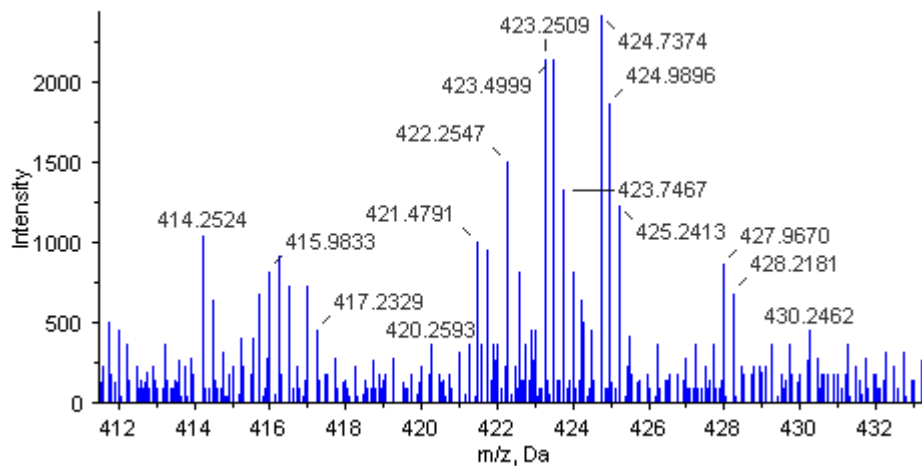
Seq Cov %: 7.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.31

116: 114=E5TL: D5TL=0.35

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAFAKAQKSRAYYKRFQVKFKRRREGKTDYRARIRLINQDKNKYNTPKYRFVMRFTNKDITAQIIHASM
AGDIVVAAAAYSHELPRYGLEVGLTNYAAAAYCTGLLLARRVLKCKLEMDEEYEGNVEATGEDYSVEPADSR
RPFRA**ALLDVGLVR**TTTGNR**VFGALKGALDGGLDIPHS**DKRFAGFNKDGK**QLDAEVHR**KYIYGGHVAAAYM
RNLMEDEPEKYQSHFSEYIK**RGIEPDNMEELYK**KVHAAIRADPTAKKSEKQLPKEHKRYNLKCLTYEER
KAKLVERLKA**LNSA**ADDDDEDE

Protein No.: I-828

Protein name and Species:

**60S ribosomal protein L23A-like [Glycine max] OS=Glycine
max PE=2 SV=1**

Accession: tr|C6SZQ3|C6SZQ3_SOYBN

Unused ProtScore: 2.81

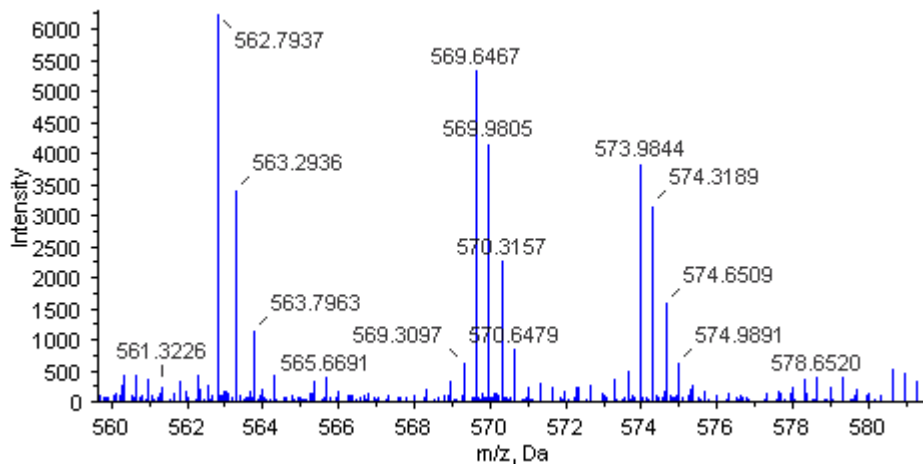
Seq Cov %: 13.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.75

116: 114=E5TL: D5TL=0.48

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPKVDKKNDPKAQALKTAKAVKSGATFKKKVKKIRTSVTFHRPKTLKKDRNPKYPRISAPPRNKLDHY
QILKYPLTTESAMKKIEDNNTLVFIVDLRADKKKIKDAVKKMYDIQAKKVNTRLIRPDGTKKAYVR LTPD
YDALDVANKIGII

Protein No.: I-832

Protein name and Species:

Long chain acyl-CoA synthetase 1-like OS=Populus trichocarpa

GN=POPTRDRAFT_850795 PE=4 SV=1

Accession: tr|B9GSW4|B9GSW4_POPTR

Unused ProtScore: 2.78

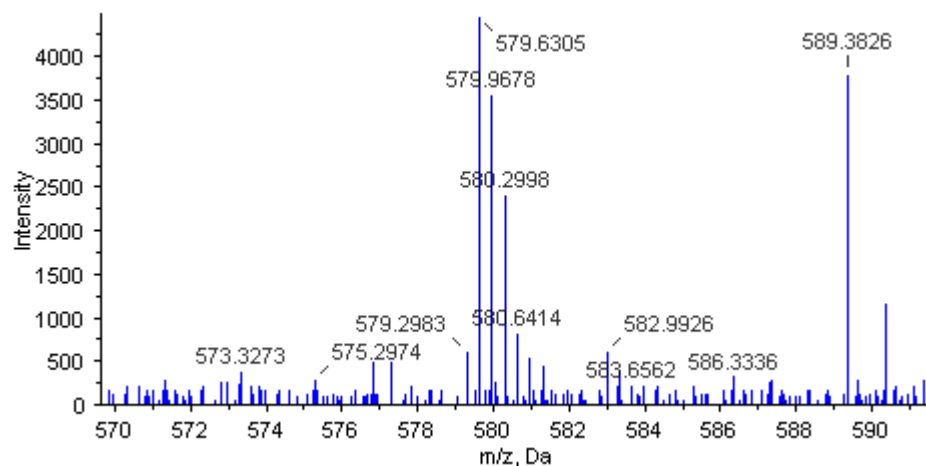
Seq Cov %: 3.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.21

116: 114=E5TL: D5TL=1.97

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MALKAFAAQVEEGREGK**DGKPSVGPVYR**NLLSKKEYPPLDRDVTTSWDFSSSAKKYPEYKMLGWRKFV
DGKVGOPYVWKTYKEVYDEVLQISSALRASGAEPGYRVGIYGSNCPQWIEAMEACNAQSLVCVPLYDTIG
PRAVNFIIIDHAEIDFVVFVQDKKVKELLDPCASQAQLKAIVCFTSLTEEEKDRAAQMGIKSYSWEEYLC
MGKENPSEIFPPQPL**SICTIMYTSGTSGDPK**GVVILHETVAAFVRGIDLFMEQFEDKMTTDDVYLSFLP
LAHVLDRMIEEYFFFRK**GASVGYHGDNLALR**DDLMEKPTCLAGVPRVFEKIQEGMEIPIKALQELSPL
RRNIFDVLRYKLGWMNRGYRQK**YASPLADLLAFR**KVKAKLGGRLRLIICGGASLSTEVEEFLRVTS
CA
FVIQGYGLTESCGPATMAFPDEMCLGTVGAVAVYNDLCLLEVPENGYDPLGNPPCGEICLRGK**TLFSG**
YYKNPELTRESMKDGFHTGDI GEILPNGVVKIIDRKKNLIKLSQGEYIAIEYLENVYNNTPIVEDIWI
YGDSCSMLVAVVVLHEENTKSWAYLNGHMGSFTELC SLHQLQK**LVLSELK**TTAERNKLGFEHIKGV
L
LESCPFDIEK**DLVTATLK**KKRNK**LVSHYRVEIDELYQK**LAEGRA

Protein No.: I-835

Protein name and Species:

Ubiquitin carboxyl-terminal hydrolase OS=Ricinus communis

GN=RCOM_0004440 PE=3 SV=1

Accession: tr|B9T7A3|B9T7A3_RICCO

Unused ProtScore: 2.77

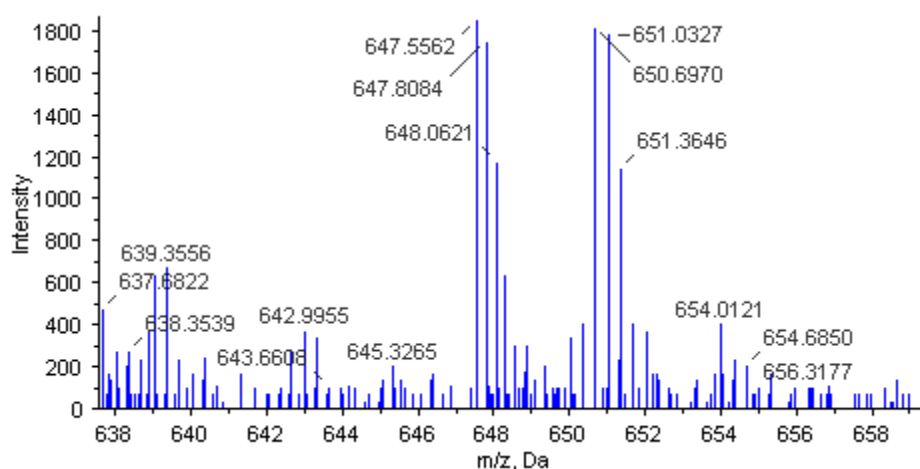
Seq Cov %: 8.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=1.02

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLSVSVKWKQKKVFPQVEIDTSQPPYLFKQCQLFDLTGVPPERQKIMVKGGLLKDDADWATVGVKEGQK**LM**
MMGTADEIVKAPEK**GPVFMEDLPEEEQVAVGH**TAGLFNLGNTCYMNSTVQCLHSVPELKSALVKYPSD
RRNDLDQTSHML**TTATRELFNELDK**SVKPVAPMQFWMVLRKKYPQFGQLHNGLFMQQDAEECWTLQLLYT
LSQSLRPPSPSENPDTVKELFGIDLVS**IHCQESGEESSETESVYSLK**CHISQDVNHLHEGLKHGLKSE
LEKASPSLGRSAIYKESCINDLPR**YLTVQFVR**FFWKRESNQKAKILRKVDYPLELDVYDFCSADLRKQ
LEAPRQILRDEEGRK**LGLK**VNEKSSGSKDNDVKMTDAEGPSSGSGESSKATSEEGESSHKVSSLTGIYD
LVAVLTHKGRSADSGHYVAWVKQESGK**WIEYDDNP****IPQR**EEDITKLSGGGDWHMAYICMYKARAVPM

Protein No.: I-838

Protein name and Species:

Tubulin beta-7 chain OS=Arabidopsis lyrata subsp. lyrata

GN=TUB7 PE=3 SV=1

Accession: tr|D7LLA4|D7LLA4_ARALL

Unused ProtScore: 2.76

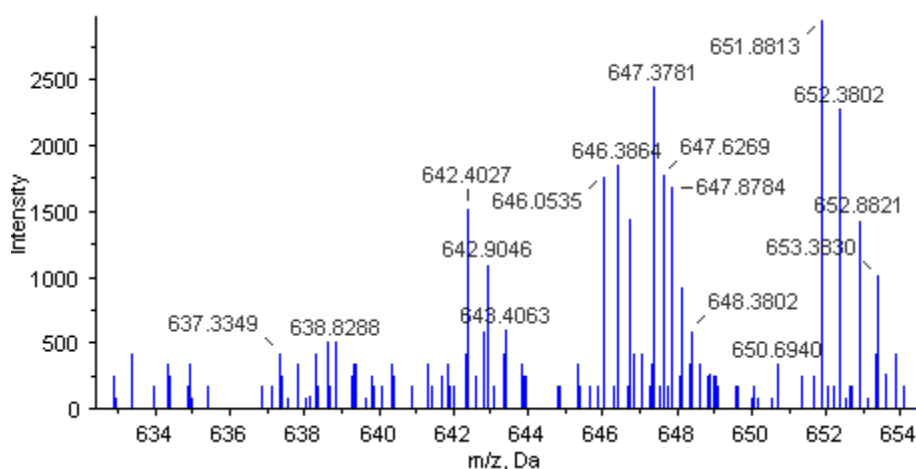
Seq Cov %: 6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.63

116: 114=E5TL: D5TL=1.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MR**EILHIQGGQCGNQIGSK**FWEVFNLEHGIDQTGRYHGDSDLQLERVNVYNEASCGRYVPR**AVLMDLE**
PGTMDSVRSGPYGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELIDSVLDVVRKEAENCDCLOGFQVCHS
LGGGTGSGMGTLTLLISK**IREEYPDR**MMMTFSVFPSPKVSDTVVEPYNATLSVHQLVENADECMVLDNEAL
YDI**CFRT**LKLSSTPSFGDLNHLISATMSGVTCCLRFPQQLNSDLRK**LAVNLIPFPR**LHFFMVGFAPLTSR
GSQQYRNLTVPCLTQQMWDAKNMMCAADPRHGRLTASAMFRGKMSTK**EVDEQMLNVQNKNSSYFVEWI**
PNNVKSTVCDIPPTGLKMASTFIGNSTSIQEMFRRVSEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESN
MNDLVSEYQQYQDATA**DEEGE**YEDEEAEEYEQEEGY

Protein No.: I-839

Protein name and Species:

Dipeptidyl peptidase IV, putative OS=Ricinus communis

GN=RCOM_1243220 PE=4 SV=1

Accession: tr|B9RSG5|B9RSG5_RICCO

Unused ProtScore: 2.75

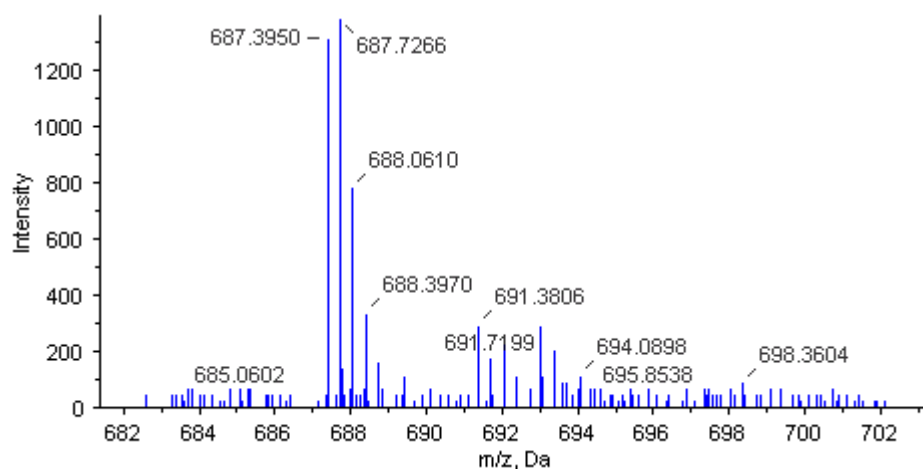
Seq Cov %: 6.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.77

116: 114=E5TL: D5TL=0.98

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADNTTPQNLDDCILFPVEDIVQSPLPGYGAPTSISFSPDDALITFLFSRK**VFAFDLK**TFK**QELFFSPP**
DGGLDESNISPEEKLRRERSRERGLGVTQYEWVKTSFKKKAVMVPLPAGIYFQELSSSKPELKLPSPL
SPIIDPHLSPDGTMLAYVK**DSELHVLNLLYNESK**QLTFGSQGNTVTHGLAEYIAQEEMDRKNGYWWSLD
SKFIAFTQVDSSGIPLFRIMHQGKSSVGLSQEDHAYPFAGASNVKVR LGVVS IAGGSITWMDLVCGGT
EELDNEDEYLTRVNWMRGDILTAQVLNRSHTKLR I IKFDIKTGQGVILVEEQDKWVNLHDCFTPLDKS
VTKYSGGFIWASEKTGFRHLYLHDANGTCLGPITEGEWMVEQIAGVNEAAGLVYFTATLDGPLEFNLYC
TKLFRDSDQNFLGVPVRLTHGKGKHVVVLDHHR**NFVDIHDSLDFPPR**VLYTSLHDGSVIMPLYEQPFTI
PRFKRLELEPPEIVQVQASDGTILYGALYKPDPTKFGPPPYKTLISVYGGPCVQYVCD SWLNTVDMRAQ
FLRSKGILVWKL DNR**GSARRGLK**FEGSLKYNAGRIDAEDQLTGTEWLIKQGLAKVGHIGVYGWSYGGYM
SAMILARFPDVFRCAVSGAPVTSWDGYDTFYTEKYMGLPSQNPSGYEYSSVMHHVHKLKGRLLLLVHGMI
DENVHFRHTARLVNALVAAGKPYELLI FPDERHTLRWHR SRVYMEERI**WEFVER**SL

Protein No.: I-840

Protein name and Species:

Glutathione-s-transferase theta, gst, putative OS=Ricinus communis GN=RCOM_1299540 PE=3 SV=1

Accession: tr|B9S069|B9S069_RICCO

Unused ProtScore: 2.75

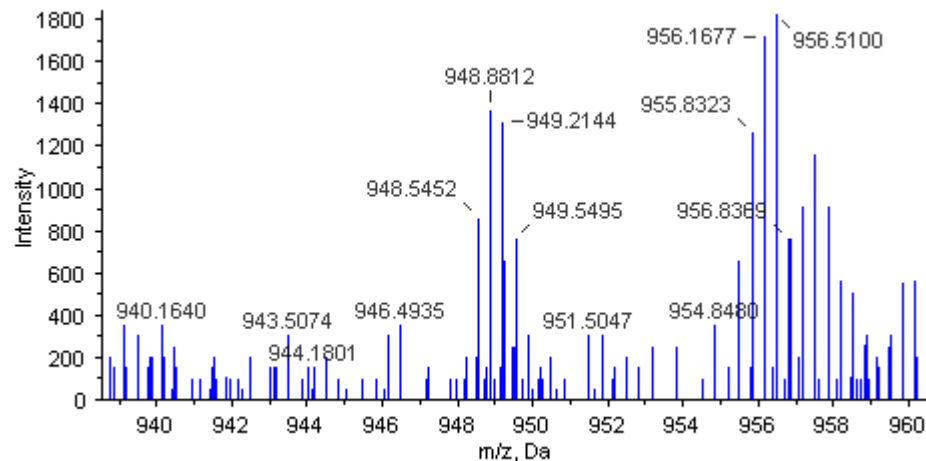
Seq Cov %: 16.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.38

116: 114=E5TL: D5TL=1.15

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSSVEGKLLKLYSYWRSSCSRVR**I**AL**N**L**K**G**I**S**Y**Q**Y**I**P**V**N**L**V**KGEQ**F**T**P**E**F**L**K**L**N**P**I**G**Y**V**P**V**L**V**D**G**D**I**V**I
SDSFA**I**L**M**Y**L**E**D**K**Y**P**Q**H**P**L**L**P**S**D**L**Q**K**K**A**I**S**I**Q**A**A**N**I**V**S**S**S**I**Q**P**L**Q**N**L**A**V**L**K**F**I**E**E**K**V**G**P**D**Q**K**V**P**W**Q**F**H**
I**E**K**G**F**T**A**L**E**K**L**L**K**D**H**A**G**K**Y**A**T**G**D**E**V**S**L**A**D**V**F**L**E**P**Q**I**H**A**A**I**N**R**F**D**V**D**M**N**K**F**P**L**L**L**R**L**H**E**A**Y**N**E**L**P**A**F**Q**N**G
M**P**D**K**Q**L**D**A**P**S**S**S**S

Protein No.: I-844

Protein name and Species:

Pyridoxine kinase, putative OS=Ricinus communis

GN=RCOM_1384840 PE=4 SV=1

Accession: tr|B9S7R8|B9S7R8_RICCO

Unused ProtScore: 2.72

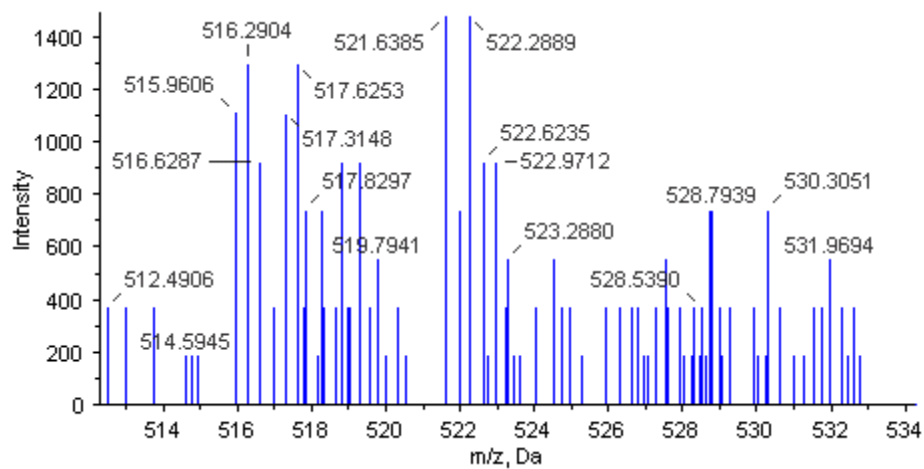
Seq Cov %: 16.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPPILSLALPSGTGRVLSIQSHTVQGYVGNKSAVFPLQILGYDVPINSVQFSNHTGYPSVKGQVLNG
QQLWDLIEGLEGNLLYYTHLLTGYIGSVSFLNTILEVVNKLRSINPKLTYVCDPVMGDEGKLYVPEL
VAVYREKVVVPVASM LTPNQFEAEQLTGFRIVTEKDGREACNTLHAAGPSKVIITSINIDGNLLLVGSHQ
KEKDQPPEQFKI EIPKIPAYFTKYPDNLGTAAELAVSSLQALLQRTVNDYRSVGYDPQSSSLEIRLIQS
QDDIRHPQVKFKAEKYD

Protein No.: I-845

Protein name and Species:

rhamnogalacturonate lyase OS=Populus

Accession: [tr|B9H6S4|B9H6S4_POPTR](#)

Unused ProtScore: 2.72

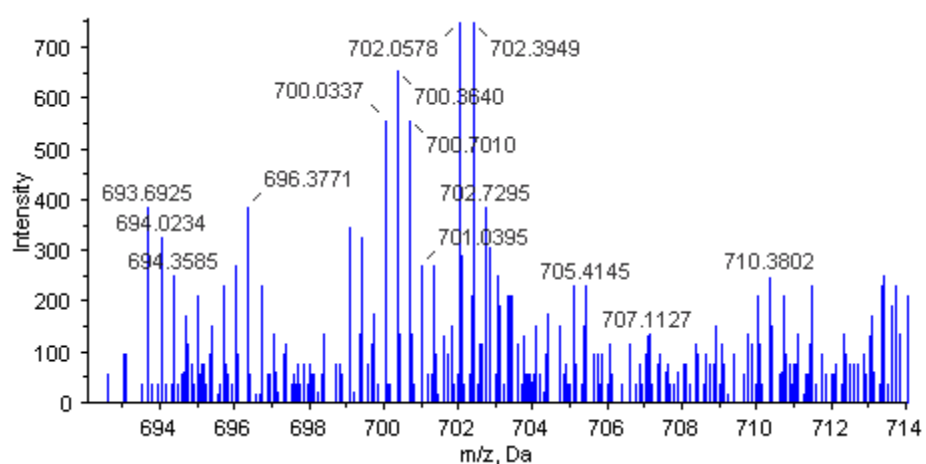
Seq Cov %: 8.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.21

116: 114=E5TL: D5TL=0.18

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDNGIVQVTLSPAGIVTGIR**YD****GIDN****LLEVLNR**ETNRGYWDLHWNPPGGNGIFDVISGTSFRVVVEND
EQVELSFTRMWDSSLEGKYIPLNIDKRFILLRGSSGFYSYAIYEHLQEWPGFDIGETRITFKLRK**DKFQ**
YMAIADNRQRLMPLPDDRLPGR**CQALAYPEAVILVNP****K**LPELTGEVDDKYQYSCENKDNQVHGW**ICFK**P
PVGFWQITPSDEFRTAGPLKQNLTSHVGP TTLAMFHSSHYAGKDLVLSISPGE PWKKVFGPVFIYLN
SNGEDPLFLWEDAKMQMMAEVQSWPYSFPASEDFQKSEQRGNVCGRLLVKDRNISDDYILASGAYVGLA
PPGDVGSWQTECKDYQFWTR**ADENGYFSIK**NIRTDYNYLYAWVPGFLGDYRWDIVNIISGCDMDMGDL
VYEPPR**DGPTLWEIGIPDR**SAAEFYIPGDPKFMNLYANHPDRFRQYGLWGRYADLYPDTDLVYTVGL
SDYRKDWFFAQVVRKDDDTQVGTWQIKFKLDKVDNRSSYKLRVAIASATLAELQVRVNDAKAQRPLF
TSGLIGRDNAIARHGIHGLYR**LYNVNIPGARLVEGENTIFLTQPR**CTSPFQGLMY**DYIR**LEGPFFSGSS
NEASSSFK

Protein No.: I-864

Protein name and Species:

Glutaredoxin, grx, putative OS=Ricinus communis

GN=RCOM_0936190 PE=4 SV=1

Accession: tr|B9RZ84|B9RZ84_RICCO

Unused ProtScore: 2.65

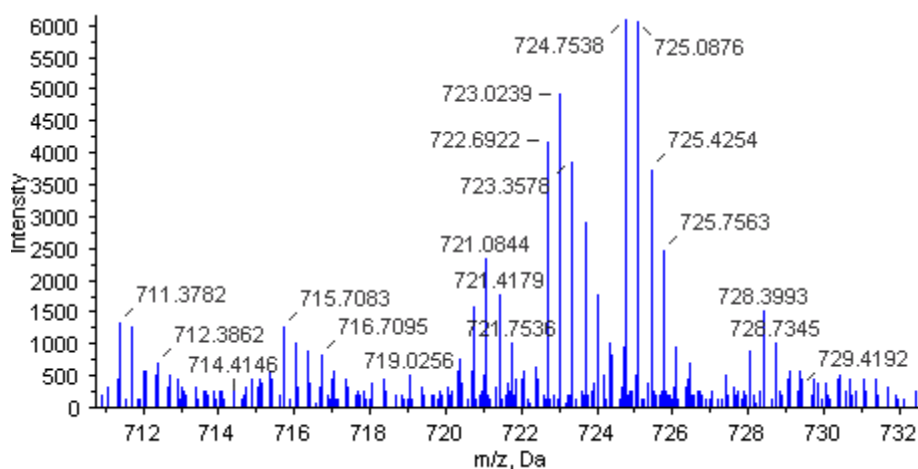
Seq Cov %: 9.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=1.00

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGGSVKEVHSKTELDVDRSSGVPVIVHFWASWCDASKHMDQVFSHLSTDFPNAHFLRVEAEEQPEISEE
FSVSAVPFFVFFKDGKKVDSLEGADPSSLANKVAKAAGSVKSGEPAAPASLGMAAGPSILETVKELAKD
NGPSQVSNKVQPGLNDALEKRLQQLINSHPVMLFMKGSPEAPRCGFSQKIVDILKDEAVKFGSFDILSD
NEIREGLKKFSNWPTFPQLYCKGELLGGCDIAIAMHESGELKDVFRDHGVDTNSSSEEVKVSEGGNGKGG
ISESTGLSSTLTSRLES LINSSPVMLFMKGPDEPKCGFSRKVVDILREEKVNFDSDILSDDEVRQGL
KVYSNWSSYPQLYIKGELIGGSDIVLEMQKSGELKRVLVEKGISPKGTLEDRLRSLVASSHVMLFMKGS
PDAPRCGFSKVVNALREEGVSFGSFDILSDDEVRQGLKVFSNWPTFPQLYYKGELIGGCDIIMELKNN
GELKSTLSE

Protein No.: I-868

Protein name and Species:

programmed cell death protein 5-like [Vitis vinifera] OS=Vitis
vinifera GN=VIT_10s0003g02790 PE=4 SV=1

Accession: tr|D7TK03|D7TK03_VITVI

Unused ProtScore: 2.65

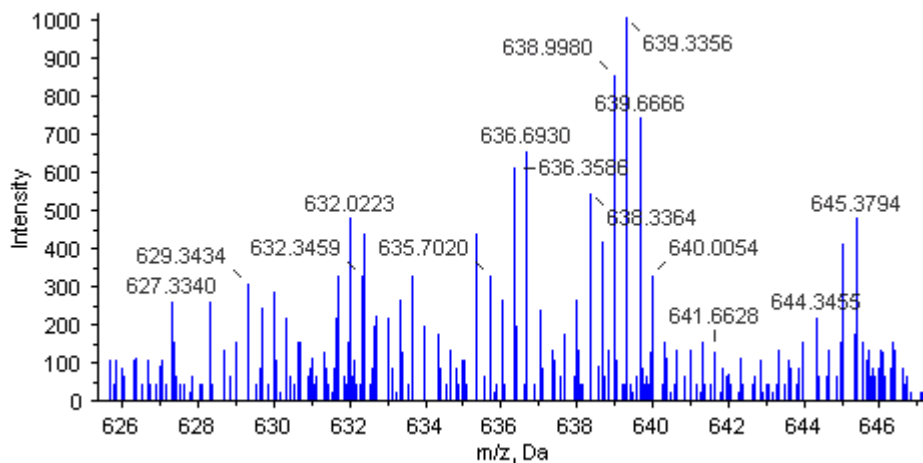
Seq Cov %: 23.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.54

116: 114=E5TL: D5TL=0.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MQELMAQHGVGNHQNSEQQKAQEDAKREADERRQ**MLLSQILSSEAR**ERLAR**I**ALVK**PEKAR****GV**EDVLLR
AAQMGQIVEK**VSEERLISLLEQINNQ**TKQTKVTIQRRRSVLEDD

Protein No.: I-869

Protein name and Species:

14 kDa zinc-binding protein-like [Vitis vinifera] OS=Vitis
vinifera GN=VITISV_029944 PE=4 SV=1

Accession: [tr|A5BDT4|A5BDT4_VITVI](#)

Unused ProtScore: 2.64

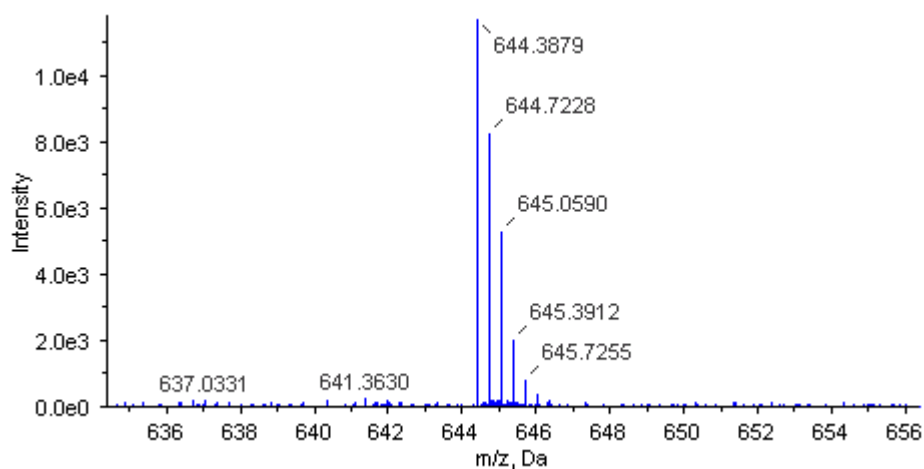
Seq Cov %: 5.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.30

116: 114=E5TL: D5TL=0.34

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MNPSNKSRNQSRVGDINSRLGVIASHLSSAYMASEK**GAAVAATPSDSPTIFDKIINK**EIPATIVYEDDK
VLAFR**DIAPQAPTHILLIPK**VK**DGLTGLSK**YIFSSVLYTGQLKTPRHKCYCALHFERTAIHETCYCFL
RFNLGESLSLNMGLTLGCICSVDLVMEVGR**LLANWR**RHYMSIGSRVTFNRVLLIKCSYALHILLIPG
SIRNTWEIGDGFSLVRVRPRELFDWLELGV**VLAIR**DLERMTEALLGKWLWKFVVEXDSSXRVFESQC
CYSRELRFDFVCGDHGTQSLPMVQPMRGGRITPTRLACARRMGRAWIYQFPRNSEAYVGKLTWTIWQV
VLMVFRGFMXFIFQAEERHSVILGH**LLYTAK**LVAK**QEGLEDGFR**IVINDGPSACQSVYHIHVHLLGGRQ
MNVPPG

Protein No.: I-870

Protein name and Species:

**Adenylosuccinate synthetase 2, chloroplastic OS=Ricinus
communis GN=PURA2 PE=3 SV=1**

Accession: sp|B9SL58|PURA2_RICCO

Unused ProtScore: 2.64

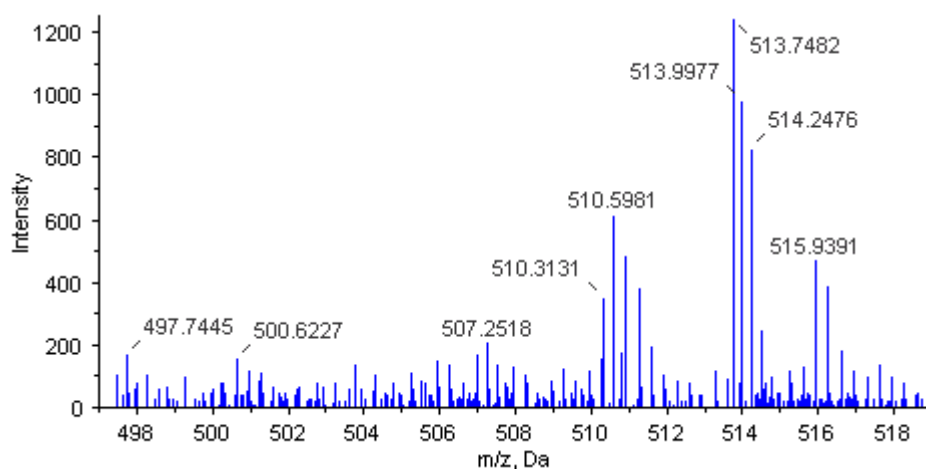
Seq Cov %: 7.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.53

116: 114=E5TL: D5TL=2.38

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSFTSSLRLDTNPITSPKWVHRQVPLRPHRNFVVCSEIKSPSTPSLNLATDSASTDSLRSINSLSQVSGV
LGCQWGDEGKGLVDILAQHFDIVAR**CQGGANAGHTIYNSEGK**KFALHLVPSGILNEDTLCVIGNGVVV
HLPGLFKEIDGLESSGVSCTGRILVSDRAHLLFDFHQEVDGLREAELAK**SFIGTTR**RGIGPCYASKAIR
NGIRVSDLRHMDTFPQKLDILLSDAASRFQGFYGPPEMLREEVEKYKRYAERLEPFIADTVHVMNESIE
QKKKILVEGGQATMLDIDFGTYPFVTSSSSPSAGGICTGLGIAPRAVGD LIGVVKAYTTRVGS GPFPEI
LGQGGDLLRFAGQEFGTTTGRPRRCGWLDIVALKYCCQINGFSSLNLTKLDVLSDLPEIQLGVAYKHAD
GTPFKSFPADLR**LLEQLK**VEYEVLPGWKSD**ISSIR**NYAD**DFPK**AAQQYVER**IEELVGVPVHYIGVGPGRD**
ALIYK

Protein No.: I-871

Protein name and Species:

60S ribosomal protein L4, putative OS=Ricinus communis

GN=RCOM_0819810 PE=4 SV=1

Accession: tr|B9SGS2|B9SGS2_RICCO

Unused ProtScore: 2.63

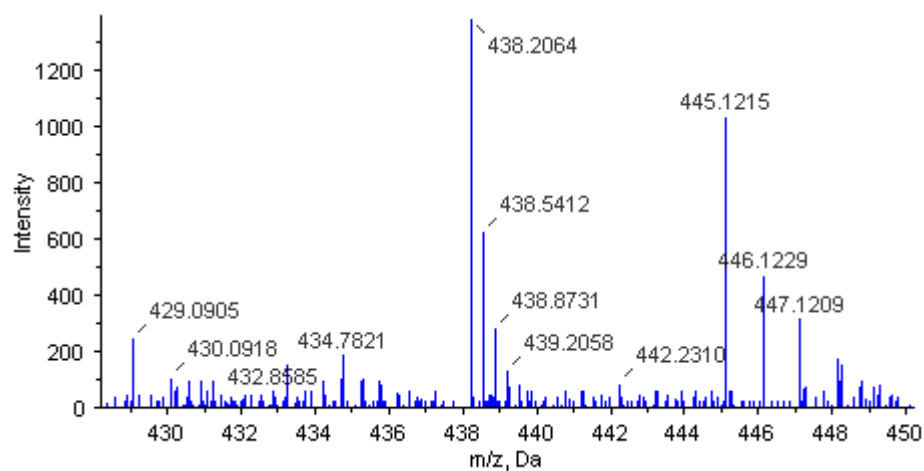
Seq Cov %: 11

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.68

116: 114=E5TL: D5TL=0.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAAAAAARPLVTVQSLPSQNDMATDAVTTVPLPDSMKASLRPDIVSFVHAQMSKNSRQPYAVSKRAGH
QTSAESWGTGRAVSRIPRVPGGGTHRAGQGAFGNMCRGGRMFAPTKIWRRWHRKINVNQKRYALVSAIA
ASAIPSLVMARGHKVESVPEMPLVISDSAESIEKTSTALKVLKEIGAYPDVEKAKDSHAIRPGKGMNRN
RRYISRKGPLIVYGSEGAQLVKAFRNIPGVEVANVERLNLLKLAPGGHLGRFVIWTKSAFEKLDSTIYGS
FQKSSEKKKGYVLPKSKMVNADISRINSDEVQSVVNPKEVNRAPLKKNPKNLNVMLKLNPYAKAA
RRMSLLAEAQRVKAKKEKLDKKRKTVTKEEAAAIRAAGKAWYQTMISDSDYTEFENFSKWLNVSQ

Protein No.: I-879

Protein name and Species:

**Phosphofructokinase;pyrophosphate-fructose
1-phosphotransferase OS=Populus 6-phosphate
trichocarpa
GN=POPTRDRAFT_761666 PE=4 SV=1**

Accession: tr|B9H5X2|B9H5X2_POPTR

Unused ProtScore: 2.61

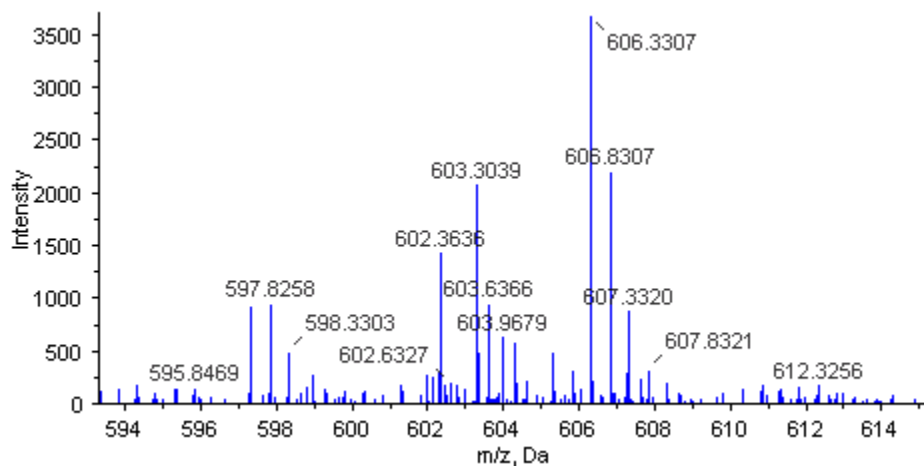
Seq Cov %: 30.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.30

116: 114=E5TL: D5TL=1.01

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDSDFGIPRELSDLQKLRSLYQPELPPCLQGTAVRVELGDATTAADPADVHSISRSPFLTYGQPLAHFL
RASAKVSDAQIITDHPAFRVGIVFCGRQSPGGHNVIWGLHNALKIHNPNSTLLGFLGGSEGLFAQKLE
ITDDILSTYKNQGGYDLLGRTKDQIRTTEQVNAALTACKDLKLDGLVIIGGVTSENTDAAQLAETFAEAK
CPTKVVGVPVTLNGLKNQFVETNVGFDTICKVNSQLISNVCTDALSAEKYYFIRLMGRKASHVALEC
TLQSHPNMVLGEEVAASKLTLFDLTTQICDAVQARAVQDKNHGVILLPEGLIESIPEVYALLKEIHGL
LRHGVAPDNISSQLSPWTSALFEFLPPYIKKQLLLHPESDDSAQLSQIETEKLLAHLVETEMNKRLKEG
TYTGKKFNAICHFFGYQARGSLPSKFDYAYVLGHISYHILAAGLNGYMATVTNLKNPVNKWRCGAAP
ITAMMTVKRWAQSPGASSIGKPAIHPATVDLKGKAYELLRQNAGRFWMDDLYRNPGPLQFDGPGADSKA
VTLCVEDQDYMGGIKKLQEYLDKVRNIVKPGCSQEVLKAAALSVMSSVTDVLSVMSSTSSNGQTPL

Protein No.: I-885

Protein name and Species:

Thioredoxin OS=Jatropha curcas PE=3 SV=1

Accession: [tr|E9JFW4|E9JFW4_9ROSI](#)

Unused ProtScore: 2.61

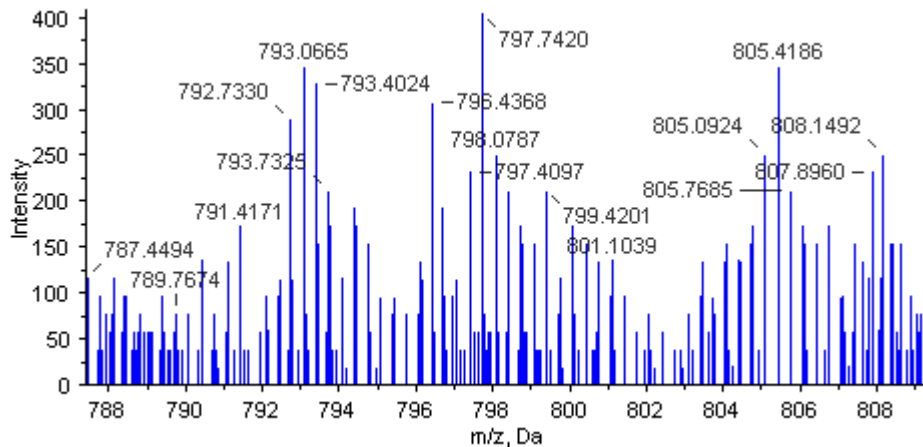
Seq Cov %: 15.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.77

116: 114=E5TL: D5TL=0.79

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEEGQVIACHTVEAWNEQLEK GKESKTLIVVDF TATWCGPCR F ITP I LQDLAKKMPHV TFLKVDVDEL
R T V A E D W A V E A M P T F M F L K E G K I V D K V V G A K K E E L Q M T I V K H A T E V A A A

Protein No.: I-886

Protein name and Species:

Nucleoside diphosphate kinase OS=Vitis vinifera

GN=VIT_02s0025g01500 PE=3 SV=1

Accession: tr|A5BVN4|A5BVN4_VITVI

Unused ProtScore: 2.6

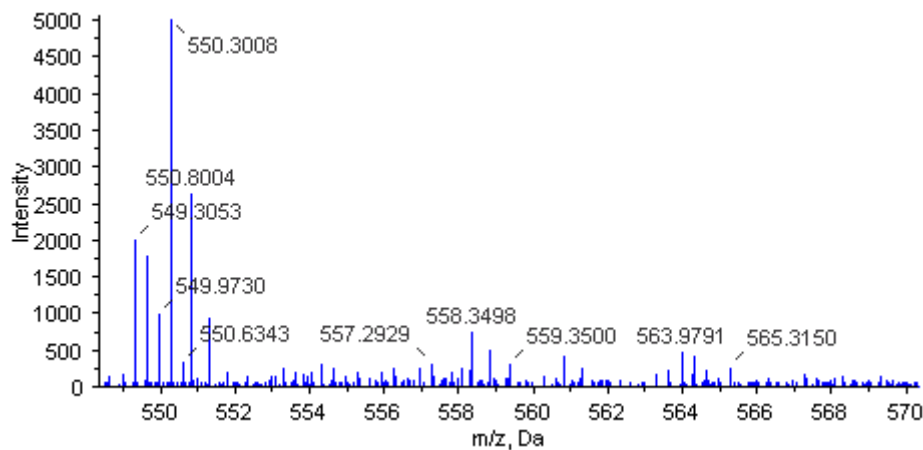
Seq Cov %: 8.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.64

116: 114=E5TL: D5TL=0.97

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSSQICRSASRAARSLLSASKSSNLLAEGRAVAAVAALSSRGKPFLLSFGNAGSGNAYRGWLSSVLALP
AAAYMMQEQLHATEMER**TFIAIKPDGVQRGLIAEILSR**FERKGFKLVAIKIVVPSKDFAQKHYHDLKE
RPFNGLCDFLSSGPVAMVWEGE**GVIK**YGRK**LIGATDPQKSEPGTIR**GDLAVVGRNI IHGSDGPETA
KDEINLWFKPEELVNYSSNAEKWIYGVN

Protein No.: I-888

Protein name and Species:

Coated vesicle membrane protein, putative OS=Ricinus communis GN=RCOM_0911000 PE=3 SV=1

Accession: tr|B9RTJ5|B9RTJ5_RICCO

Unused ProtScore: 2.59

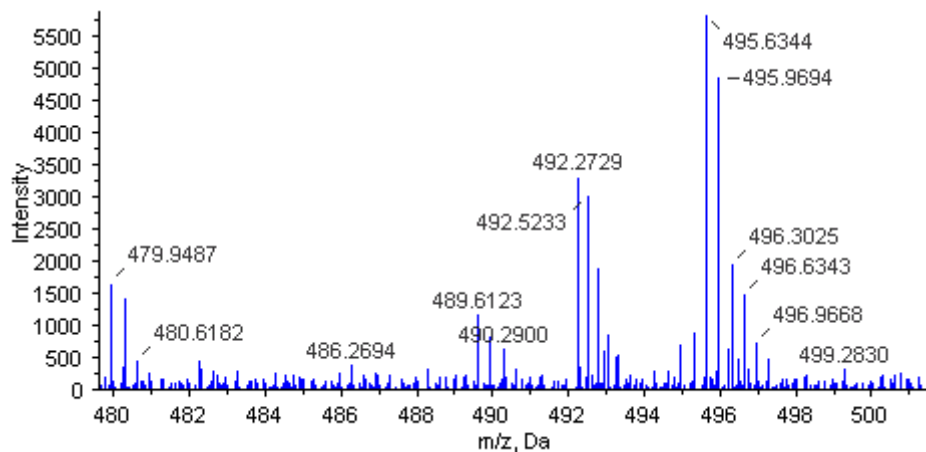
Seq Cov %: 10

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=7.31

116: 114=E5TL: D5TL=2.19

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTRRQIYVVGILLMLNLIGR ISSLSVTVNDVECVY EYVLYEGD TVSGNFVVDH DIFWSSDHPGIDLTV
TSPADNVVHTVKGTSGDKFEFKAPRSGMYKFCFHN PYPETV SFYIHVGHIPNAHDLAK**DEHLNPI**NV
KIAELR**EAL****ESV****TAEQ**K YLKARDARHRR TNESTRKR VIGYTVGEY ILLGLVSTLQVVY IRR LFSKSVAY
NRV

Protein No.: I-900

Protein name and Species:

Glutathione transferase GSTL3 [Populus trichocarpa]

OS=Populus trichocarpa GN=POPTRDRAFT_281791 PE=3

SV=1

Accession: [tr|B9MT66|B9MT66_POPTR](#)

Unused ProtScore: 2.53

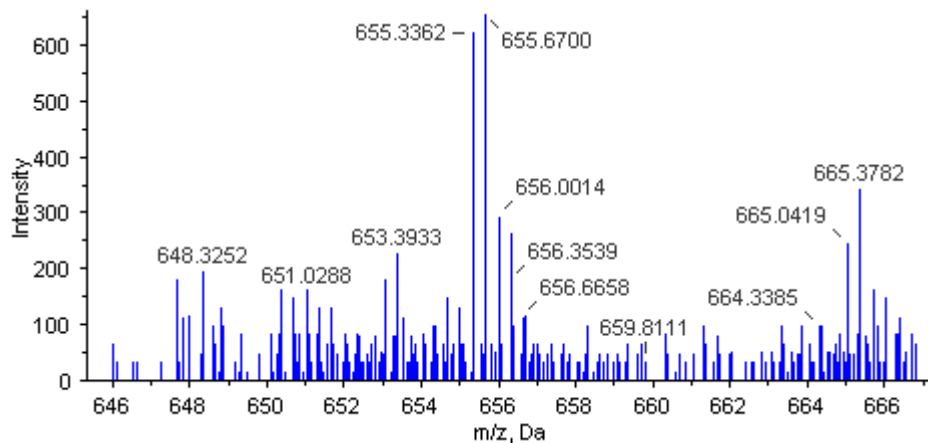
Seq Cov %: 15

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=0.24

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

PLDATAEQPPLFDGTTKLYTCTCPFAQRVWITRNFKGLQDEIKLVPLLILQNRPAWYPEKVYPPNKVPS
LEHNGKITGESLDLIKYLESNFEGPSLLPKDPAKKEFAEELFSYTDKFNQTVYTAFKGDLAKEAGPAFD
YLENALHKFDDGPFPLGKEFSLVDIAYIPFVERLNIFLLEVFKYDIAAGRQKLAAWIEEVNKEAYKQT
KTDPKELVEFYKK

Protein No.: I-903

Protein name and Species:

177 protein OS=Arabidopsis thaliana GN=LSH10 PE=2 SV=1

Accession: tr|Q9S7R3|Q9S7R3_ARATH

Unused ProtScore: 2.53

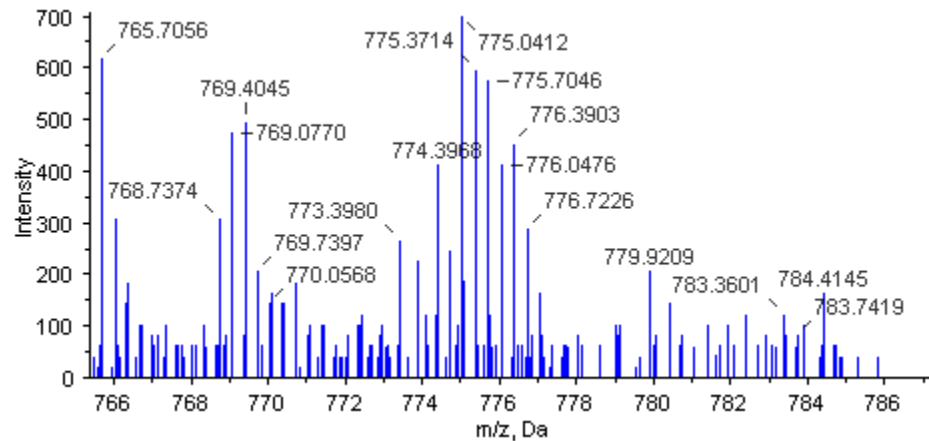
Seq Cov %: 11.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.46

116: 114=E5TL: D5TL=0.22

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSSPRERGKSLMESSGSEPPVTPSRYESQKRRDWNFTFGQYLKNQRPPVPM SHCSCNHVLDFLRYLDQFG
KTKVHVPGCMFYGQPEPPAPCTCPLRQAWGSLDALIGRLRAAYEENGPPETNPFASGAIRVYLREVRE
CQAKARGIPYKKKKKKKPTPEMGGGREDSSSSSSSFSFS

Protein No.: I-904

Protein name and Species:

Protein disulfide isomerase **OS=Gossypium hirsutum**

GN=GHPDI12 PE=2 SV=1

Accession: tr|G1ED19|G1ED19_GOSHI

Unused ProtScore: 2.53

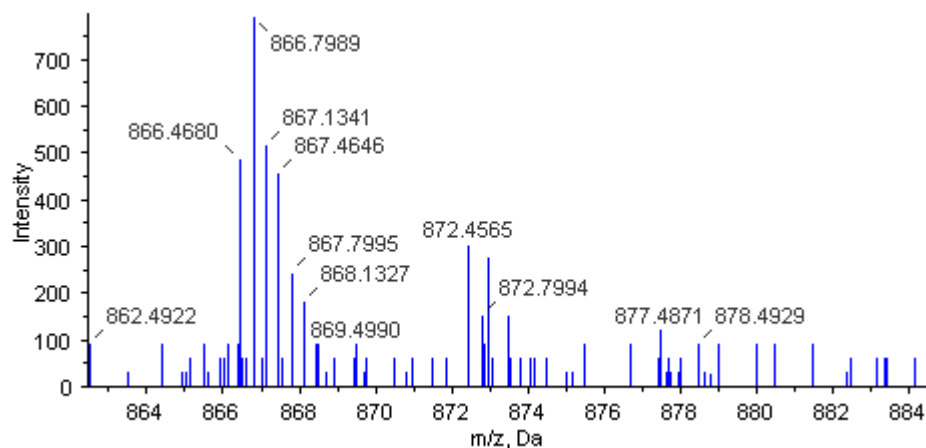
Seq Cov %: 7.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.36

116: 114=E5TL: D5TL=1.50

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKSQICLAFGTLALLLASAL**ADDVVVLTEANFDK**EVGQDRGVLIIEFYAPWCGHCKKLAPYEYKLGATFK
KAKSVLIGKVDCDEHKSLCSKYGVQGYPTVQWFPKGSLEPKKYEGTSTAEAPVEFVNTEGGTNVKIATL
PSNVAVLNADNFDEIVLDETKDVLVEFYAPWCGHCKNLAP**TYEK**VATAFK**SEEDVVIANLDADK**YRDLA
EKYGIS**GFPTLK**FFPKGNKAGEDYDGGR**DLDDFVSFINEK**CGTSRDAKGQLTSTAGILSSLDALVKEFV
AASADEKKVVF**SKIEEEVEK**LKGST**ARHGK**IYLKAAKSCLEKGADYPKKEIERLQRMMLDKSISPAKADE
FTLKKNILSTFASS

Protein No.: I-905

Protein name and Species:

Glutathione S-transferase,2,4-D inducible OS=Glycine max

GN=GSTa PE=1 SV=1

Accession: tr|O49235|O49235_SOYBN

Unused ProtScore: 2.52

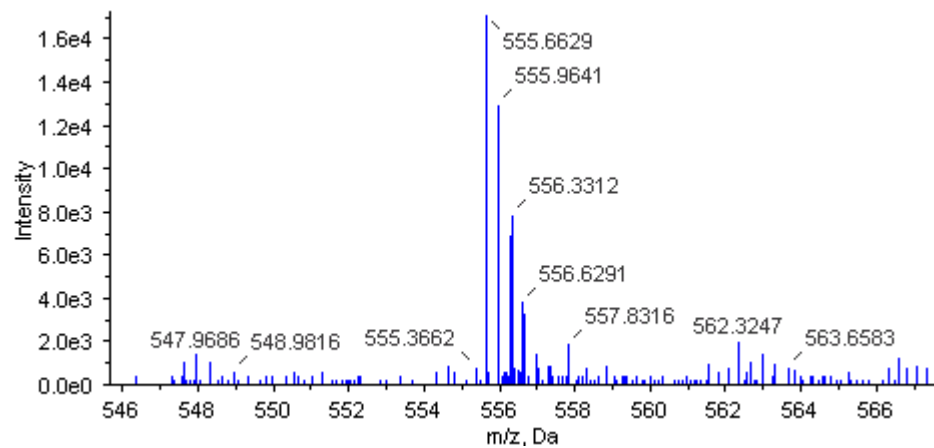
Seq Cov %: 9.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.35

116: 114=E5TL: D5TL=0.16

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSDEVVLLDFWSPFGRVVR**I**ALA**E**KGIK**Y**EYKEEDLRNK**S**PLLL**Q**MNPVHK**K**IPVLIHNGK**P**ICESLI
AVQYIEEVWNRNPLLPSPDPYQRAQTRFWADYVDKK**I**YDLGR**K**IWTSKGEEK**E**AAK**K**EFIEALK**L**LEEQ
LGDKTYFGGDNLGFVDIALVPFYTFWKAYETFGTLNIESECPKFI**A**WAKRCLQKES**V**AKSLPDQQKVYE
F**I**MDLR**K**KL**G**IE

Protein No.: I-907

Protein name and Species:

Cysteine synthase OS=Medicago truncatula PE=2 SV=1

Accession: [tr|B7FKU7|B7FKU7_MEDTR](#)

Unused ProtScore: 2.5

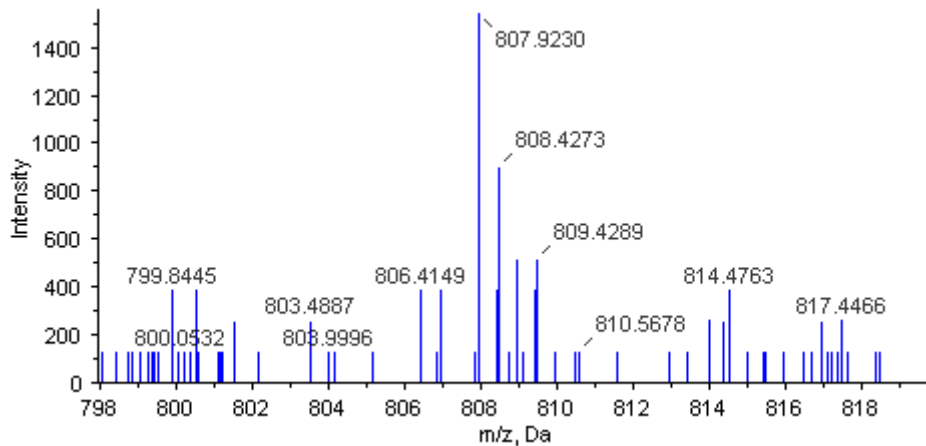
Seq Cov %: 19.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.59

116: 114=E5TL: D5TL=1.07

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAVERSGIAKDVTE~~LI~~IGKTPLVLYLNRLADGCVARVAAKLELMPCSSVKDRIGYSMIADAE~~E~~EKGLITPG
QSVLIEPTSGNTGIGLAFMAAAKGYKLIITMPASMSLERRIILLAFGAELVLTDPAGMKGAVQKAEEL
LAKTPNAYILQQFENPANPKVHYETTGP~~E~~IWKGTGKIDAFVSGIGTGGTITGAGKYLKEQNSNIKLI
GVEPVESVLSGGKPGPHKIQQIGAGFVPGVLEVNLIDEVVQISSDEAIE~~TAKLLL~~LALKEGLFVGISSGAA
AAAAIKIAKRPENAGKLI~~VVV~~FP~~S~~FGERYLSSVLFESVRR~~E~~AETMTFEP

Protein No.: I-914

Protein name and Species:

trehalose-phosphate synthase [UDP-forming] 9 [Arabidopsis thaliana] OS=Arabidopsis lyrata subsp. lyrata GN=ARALYDRAFT_889930 PE=4 SV=1

Accession: [tr|D7KNJ9|D7KNJ9_ARALL](#)

Unused ProtScore: 2.48

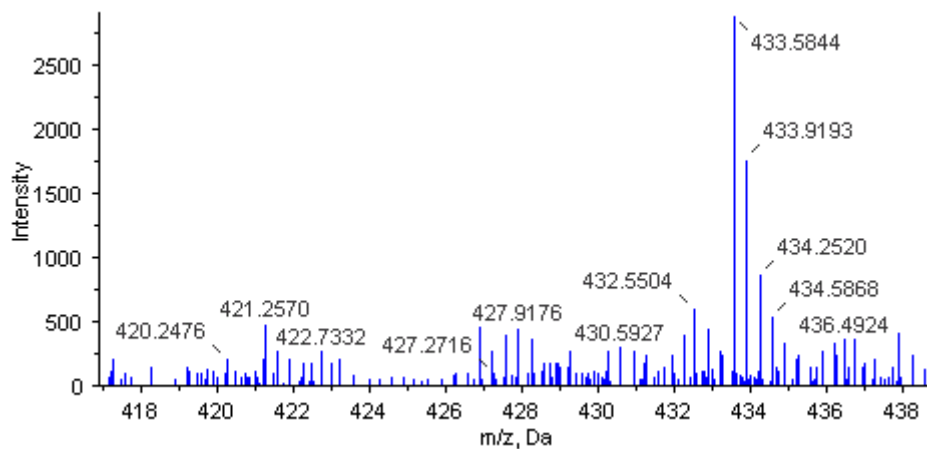
Seq Cov %: 3.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.89

116: 114=E5TL: D5TL=1.96

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVSRSCANFIDLASWDLDFPQTQRALPRVMTVPGIISELDGGYSDGSSDVNSSSSSRERKIIIVANMLP
LQAKRDTESGQWCFSWDEDSLLLQLRDGFSSDTEFVYIGSLNADIGTSEQEEVSHKLLLDNFNCVPTFLP
KEMQEKFYLGFCCKHHLWPLFHYMLPMFDPDHGDRFDRRLWQAYVSANKIFS DRVMEVINPEEDYVWIHDY
HLMVLP TFLRKRFRNIKLGFFLHSPFPSSSEIYRTL PVRDDLRLGLLNCDLIGFHTFDYARHFLSCCSR
LGLDYESKR**GHIGLDYFGR**TVFIKILPVGIHMGRLSVLNLPSTAAKMKIEIQEQFKGKKLILGVDDMDI
FKGISLKL**IAMER**LFETYWHMRGKLVLIQIVNPARATGKDVEEAKRETYSTVKRINERYGSAGYQPVIL
IDRLVPRYEKTAYYAMADCCLVNAV RDGMNLVPHYKIIICRQGT PGMDKAMGISHDSPT**SMLVSEFIG**
CSPSLSGAIRVNPWDVDAVSEAVNLALTMGETEKRLRHEKHYHYVSTHDVGYWAKSFMQDLERACREHY
NKRCWGIGFGLSFRVLSLSPSFRKLSIDHIVSTYRTTQRR AIFLDYDGTLPVPESSIIKTPNAEVLSVLK
SLCGDPKNTV FVVVSGRGWESLSDWLSPCENLGIAAEHG**YFIR**WSSKREWETCYSSAEAEWKTMVEPVMR
SYMDATDGSTIEFKESALVWHHQEADPDFGACQAKELLDHLESVLANEPVVVVRGQHIVEVKPQGVSKG
LAVEKVIHRMVEDGNPPDMVMCIGDDRSDEDMFESILSTVTNPDLPMPPEIFACTVGRKPSKAKYFLDD
VSDVLKLLGGLAAAASSSRKPEDQQQSSSLHTQVAFESII

Protein No.: I-921

Protein name and Species:

Adaptin ear-binding coat-associated protein, putative

OS=Ricinus communis GN=RCOM_0553580 PE=4 SV=1

Accession: tr|B9SGK0|B9SGK0_RICCO

Unused ProtScore: 2.45

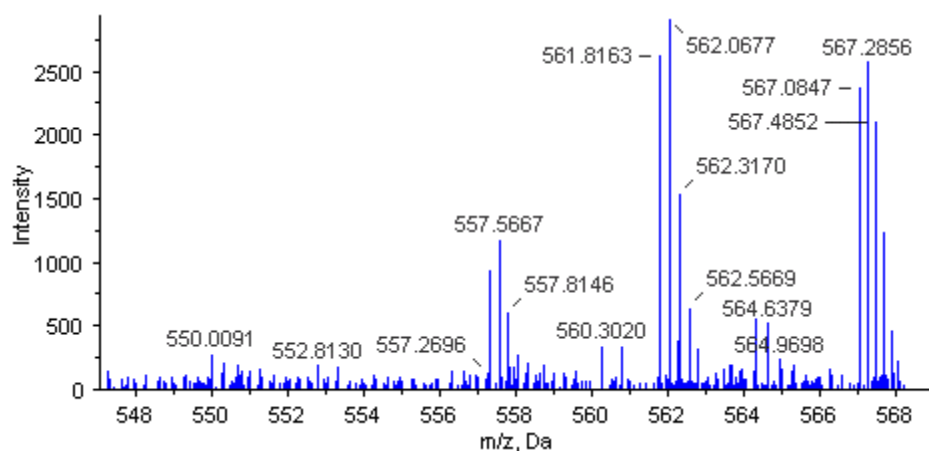
Seq Cov %: 6.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.27

116: 114=E5TL: D5TL=0.99

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLRKHLGPHVHSPISQPPPVSDDSIILPQPEAVLDRR**VIQK**GKYRPKSDVLIKWKGAPREDATWENEWR
FTKSYLDYLNPFHAYDEGNLSWMAAAEAEPATMSMVRRAIPNASSLEEGNRVLRGNWLKTIEQHHQQYS
GKSIISDILDVGC SVGVSTRFLADKFPLAKVTGLDLSPHFLSVAQFKEKKGAPRKNP INWIHANGEDTG
LPSKSYDLVTIAFVVHECPER**AINGLLR**EAYRLLRPGGTIALTDSSPKSKILQIMEIEVKDLNDQEKET
EETEAIELVLFHVSECYVY**LIPPR**KAASCRADENNVNKWAWEGMLKVISKGEECI IKLEDKTTGELYA
RAFLR**DGEPHPVEPVIDSSR**YFVLR**IEENIGGR**LRHAFIGIGFRETEAYDFQAALHDHMKYLNKKK**TA**
EEMEQHFQKTSTVDYSLKEGETLVLQIKNKSGSGMKS KILDQGLNLSLEEKGEQKELI**LGIK**LPPPPP
APVSPVTS PRFPSDLPPKISLDGTSIDNSPRLRKEEAKEQHSPDNESTQDIPDDDFGDFQAAG

Protein No.: I-929

Protein name and Species:

Putative uncharacterized protein OS=Ricinus communis

GN=RCOM_0186330 PE=4 SV=1

Accession: [tr|B9T8C2|B9T8C2_RICCO](#)

Unused ProtScore: 2.41

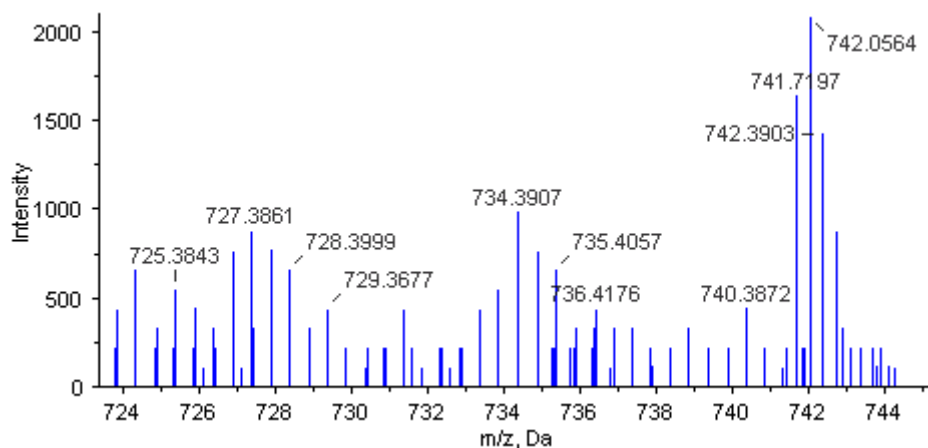
Seq Cov %: 6.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSMLDSFFNKGFKATKCKTLLKLTIPR**IKLLR**NRREIQIKQMR**DIAK**LLETGQEATARIRVEHI IREE
NMMAAQEILELFCELISVRLPIIEAQ**RECP**LDL**KEAISSICFAAPR**CADLQELLQVQML**FVSKY**GREFV
AAATELMPECGVNRQLIELLSVR**APSPDV**KLKLLKEIAEEHELDWDPAASETELLKKHEDLLNGPTQFV
SGSKLPLPEEKHEEALNSVPDQAHNEQPDSDFETLDFPEVPKVALRPSANTASAPEMLPIPPAAQ**RG**
IEHEPSNLSANYENLAQECHLENEDLTEEEPVATKDG**TANI**VD**AKEEK**QFLPFISPPVSSTSFSTRPST
SPPISRTK**SEFNVDLQDVIAAAQAAAE**TAER**AAAAAR**LAATLAQARISVLT**KKNSEK**FPECSDENPFHV
DTPDQSP**TT**EKPHFGHQHSFDG**PSGVSSYL**HLHQHEDHQ**SELHDLPSF**EKLKMEYDSPPSDLVHEQQ
SVRHQPQRLPSMDDDAYFSYPNLFTSQNP**NLGSSAQSGTGNSHSAHDV**

Protein No.: I-938

Protein name and Species:

Glutathione-s-transferase theta (Fragment) OS=Jatropha curcas

PE=2 SV=1

Accession: tr|D6BRD9|D6BRD9_9ROSI

Unused ProtScore: 2.37

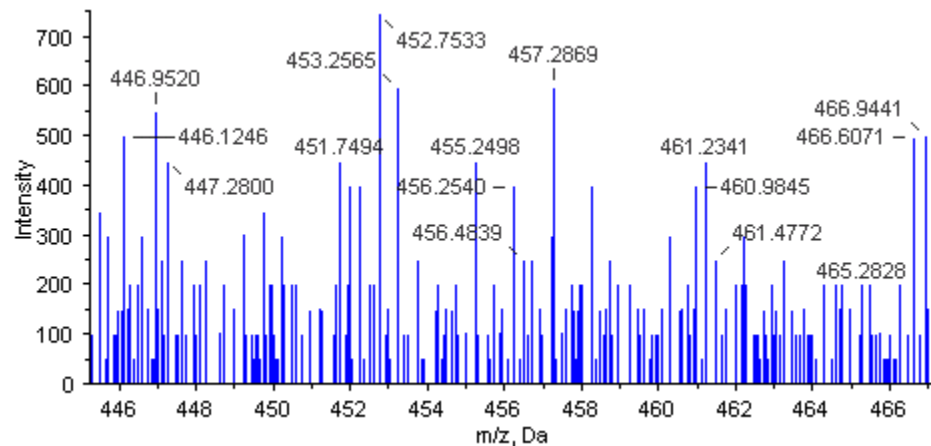
Seq Cov %: 15.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.27

116: 114=E5TL: D5TL=2.11

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAVIK**VHGNPI**STAT**QR**VLATLYEKDLEFEFVHIDLATGEHKR**EPFISLNPFGQVPALEHGDLK**LFESR
AITQYITHENPDKGTQLL**CPGK**VKMPILTVWMEVEAQKFEPAAASKLNWEVFLKPIFGLTTDSAAVEANE
AELSKVLDVYEARLAQSKYLACDCFTLVDLHHLPNLQLLLLTQSKKLIESRPHVSAWAADITARPAWAK
VLAMQRV

Protein No.: I-944

Protein name and Species:

Fructose-bisphosphate aldolase OS=Arabidopsis lyrata subsp.

lyrata GN=ARALYDRAFT_482625 PE=3 SV=1

Accession: tr|D7LJ40|D7LJ40_ARALL

Unused ProtScore: 2.35

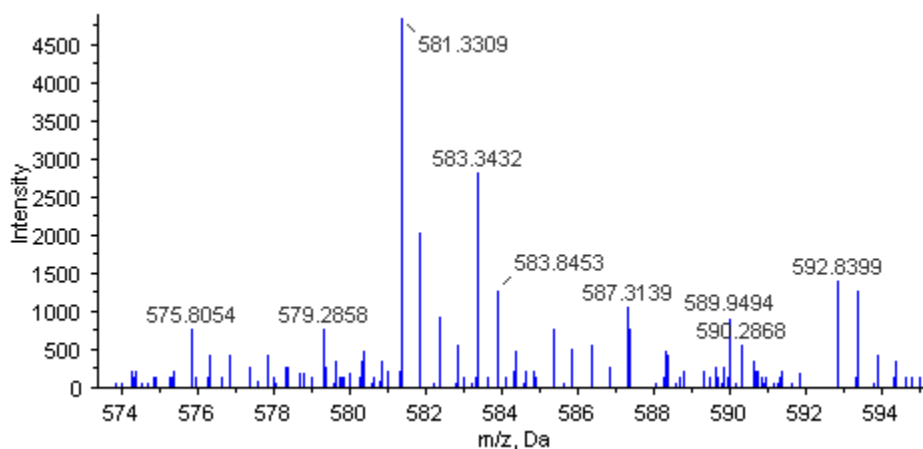
Seq Cov %: 28.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.22

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSCFTTK**FADELIANAAYIGTPGK**GILAA**DESTGTIGKRLASINVENVESNRR**ALRELLFTTPGALPCL
SGVILFEETLYQKSSNGTFFVDMLK**SAGVLP**GIK**V**DK**GTVELAGTNAE****TTTQGLDGLGDR**CKK**YYEAGA**
RFAKWRAVLKIGQNEPSELAIHENAYGLARYAVICQENGLVPIVEPEILVDGSHDIHKCAAVTER**VLAA**
CYKALSDHHVLLEGTLLKPNMVT**PGSESAKVAPEVIAEHTVR**ALQR**TVPAAVPAIVFLSGGQSEEEATR**
NLNAMNKLK**TKKPWSLSFSFGRALQQSTLK**TWGGKEENVK**KAQEAF**LVRCK**ANSEATLGTYKGDAKLGE**
GAAESLHVKDYKY

Protein No.: I-945

Protein name and Species:

coatomer subunit delta OS=Populus trichocarpa

GN=POPTRDRAFT_824854 PE=4 SV=1

Accession: [tr|B9ICR4|B9ICR4_POPTR](#)

Unused ProtScore: 2.35

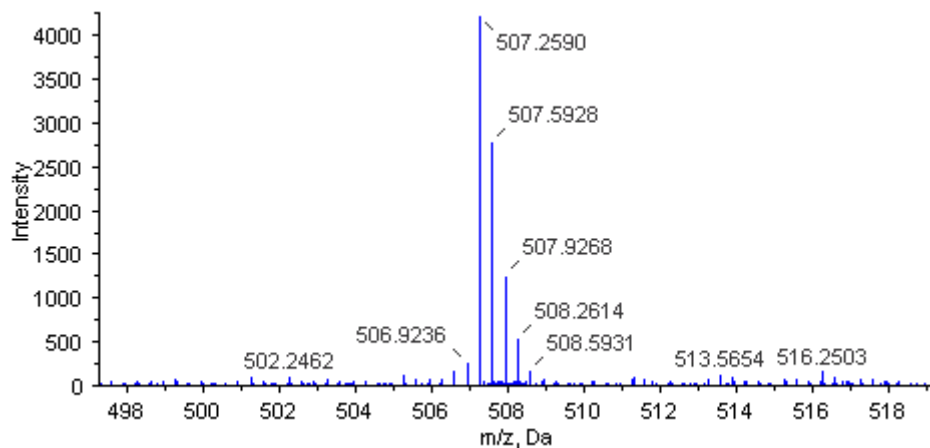
Seq Cov %: 5.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.20

116: 114=E5TL: D5TL=0.47

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVVLAAASIVSKNGKVLVSRQFVDMRIRIEGLLAAFPKLIGSGKQHTYVETENVRVYVYQPIEAMYL LLLV
TNKQSNILEDLDTLRLLSKLVPEYTM SLDEEGICQTAFELIFAFDEVISLGHKENVTVAQVKQYCEMES
HEEKLHKLVLQNKIDETKRRMKEEASKIDQMKIEKNRGNKGGFMSSMGSGRIESSFNDMSISSGGGGGF
GSGSGFGLTSDVDSFSSKPKGRQPSSATAPPKGLGMKLGKTQR TNQFLESLEKAEGEMIVEDVQPSKSTQ
YTSAAQKLTDPVTLTAEKLNVT LKRDGGMSHFVQGHLSLQILNQEDGLIQVQIETGGNPGVIFKTHP
NVNKELFANENILGLRDP SRPFPACQTGDAGVLLKWRMQSVDESMVPLTINCWPSESGNETYVSI EYE
ASSMFDLRNVVIAVPLPALREAPNVRQIDGEWRYDARNSILEWSILLIDNSNRSGSMEFVVP SGDSSAF
FPITVQFSATSTYSELKVANILPLKGGAPPKFSQRTQLITENYQVV

Protein No.: I-948

Protein name and Species:

Adenylyl cyclase-associated protein OS=Populus trichocarpa

GN=POPTRDRAFT_556459 PE=3 SV=1

Accession: tr|B9H0Q2|B9H0Q2_POPTR

Unused ProtScore: 2.34

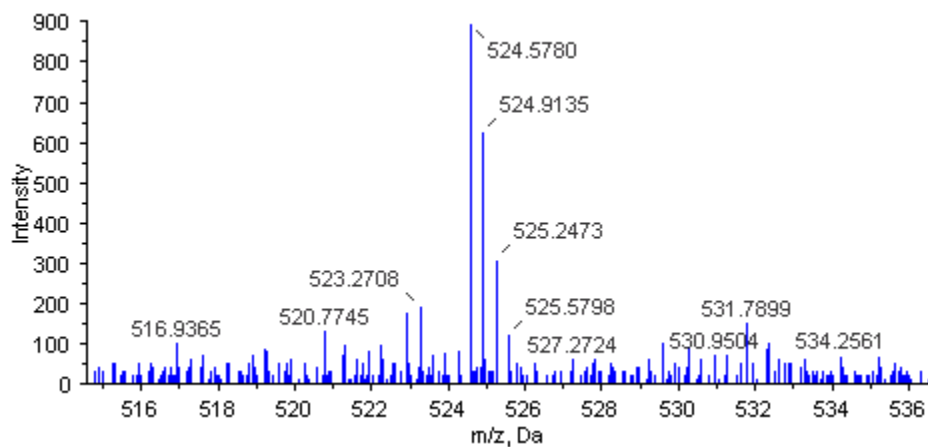
Seq Cov %: 8.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.40

116: 114=E5TL: D5TL=0.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEERLMARLES~~AVAR~~LEALSLRGGSVAGSGDDASATDPSIVAFEDFMGAYLGRVSSAGEKIGGQVLAV
TKILEQALNMQKELLIKIKQTQKPDLAGLAEFLKPLNEVIMK~~ANSMTEGRRSDFFNHLK~~AAADSSTALA
WIAYTGKDCGMSMPIAHVEESWQMAEFYNNK~~LLVEYK~~SKDPNHVEWAKALK~~ELYLPGLR~~DYVKSHYPLG
PVWSATAKAKAAAPSAPAPPPPPASLFTSESSSPSSSKPKVGMMAAVFQEISSGKPVTSGLRKVTDNMK
TKNRADRTGVVGASEKESR~~TSSPSFSK~~AGPPK~~LELQMR~~KWVVENQIGRK~~NLVIDDCDAKQSVYIFGCK~~
DSVLQVQGK~~VNNITIDK~~CTKMGVVF~~TDVVAACEIVNCSGVEVQCQGSAPTISVDNTGGCQLYLSK~~~~GSLG~~
~~ASITTAK~~SSEINILVPGAEPDGD~~LVEHALPQQFIHTFK~~~~DGQFETTPVSHSGG~~

Protein No.: I-949

Protein name and Species:

Annexin-like protein RJ4 OS=Frugaria ananassa PE=2 SV=2

Accession: sp|P51074|ANX4_FRAAN

Unused ProtScore: 2.34

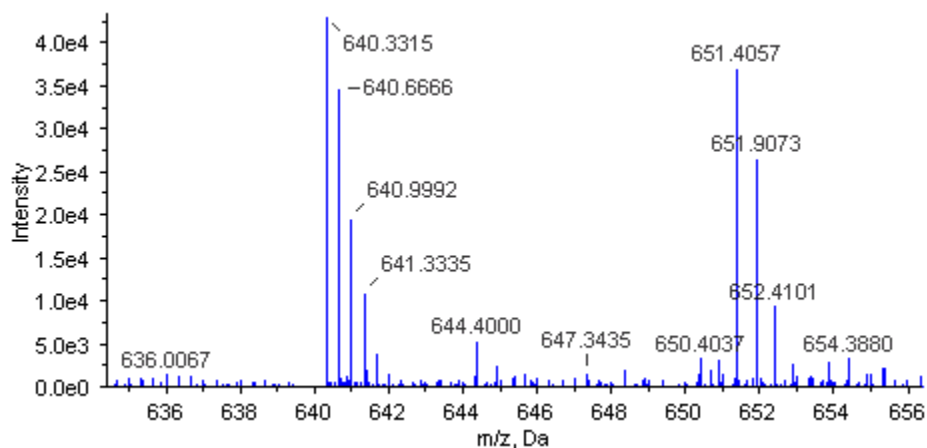
Seq Cov %: 6.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.09

116: 114=E5TL: D5TL=0.37

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATLVSPPN**FC**AKEDAEALRKS VKGWGTNEKAIIS **ILGHR**NAGQRKEIRAAYEQLYQEDLLKPLESELS
GDFEKAVYRWTLDPADR**DAVLANVAIK**KSTDVYNVIEIEISCIHSPEELLAVRRAYQLRYKHSVEEDLAA
HTTGDIR**KLLVALVTAYR**YDGHEINAKLAN**SEADILHDAIK**DKAFNH**EEIIR**ILSTRSKTQLMATFNKY
RDDQGISISKNLLEEGANDFQKALHTAIR**CLNDPK**KYFEKVLRNAIKR**VGTDEDALTRVIVTRAERDLR**
DIKEVYYKKNSVPLEQAVAKDTSGDYKAFLLTLLGKED

Protein No.: I-952

Protein name and Species:

Fructose-bisphosphate aldolase OS=Codonopsis lanceolata PE=2

SV=1

Accession: tr|Q2WFK8|Q2WFK8_9ASTR

Unused ProtScore: 2.33

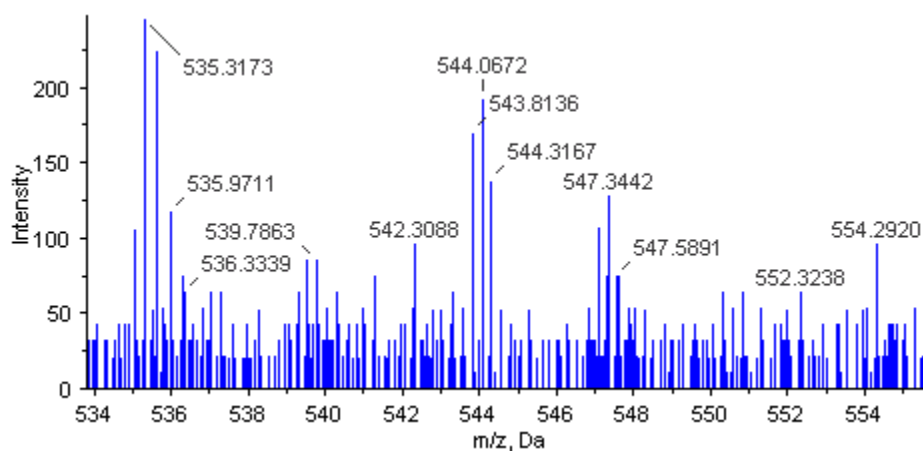
Seq Cov %: 23.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=0.33

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSCYKGYADELIANATYIGTPGKGI~~LA~~ESTGTIGKR~~LSS~~INVENIESNRWALRELLFCTPGALQYL
SGVILFEETLYQKTAAGKPFVDVLK~~ENG~~VLP~~GI~~K~~V~~DKGTVVLAGTNGETTTQGLDGLGARCAQYYAAGA
RFAKWRAVLNIGPNEPSQLAINENANGLAR~~Y~~AIICQENGLVPIVEPEILVDGAH~~DI~~AKCADVTER~~V~~LAA
CYKALNDHHVLL~~EG~~TLLKPNMVT~~P~~GSDSAKVAPEVVAEY~~T~~IRALQRTMPAAVPAVVFLSGGQSEEQATV
NLN~~A~~INKYKGGKPWSLT~~F~~SFGRAL~~Q~~QSTLK~~A~~WAGK~~E~~ENVAKAQAAFLARCKANSEATLGT~~Y~~EGGASLSE
GAAESLHV~~K~~DYKY

Protein No.: I-975

Protein name and Species:

dolichol-phosphate mannosyltransferase OS=Populus

trichocarpa GN=POPTRDRAFT_801608 PE=4 SV=1

Accession: tr|B9H5H4|B9H5H4_POPTR

Unused ProtScore: 2.28

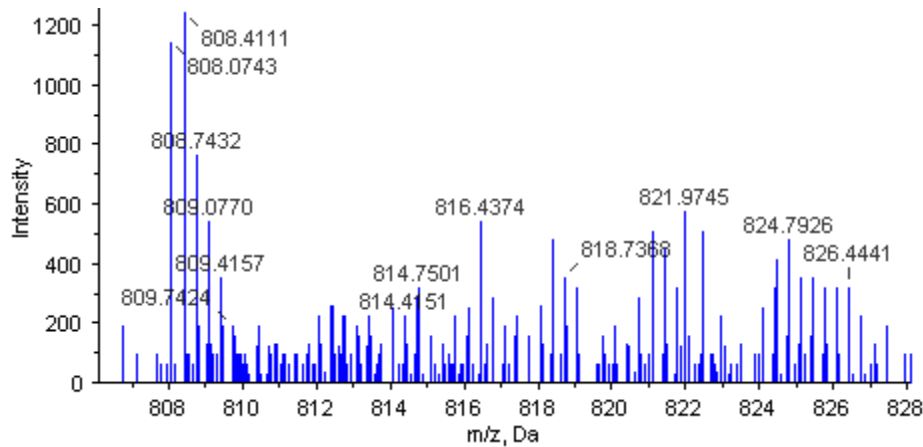
Seq Cov %: 14.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.77

116: 114=E5TL: D5TL=2.07

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEKNNRYSIIIVPTYNERLNIALIVYLIIFKHLQDVEFEIIVVDDGSPDGTQEVVKQLQKVYGEDRILLRP
RAKKLGLGTAYIHGLKHASGNFVIMDADLSHHPKYLP~~SPFIK~~KQLETGASIVT~~GTR~~YVKG~~GGV~~HGW~~NLM~~
RKLTSR~~GANVLAQ~~TL~~LWPGV~~SD~~LTGSFR~~LYKK~~SVLE~~DI~~ISSV~~VSKGYV~~FQ~~MEMIVRASR~~KGYQ~~IEEVPI
TFVDRV~~FGSSKLGGSEI~~VEYLKGLAYLLVTT

Protein No.: I-981

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_818483 PE=4 SV=1

Accession: tr|B9H739|B9H739_POPTR

Unused ProtScore: 2.26

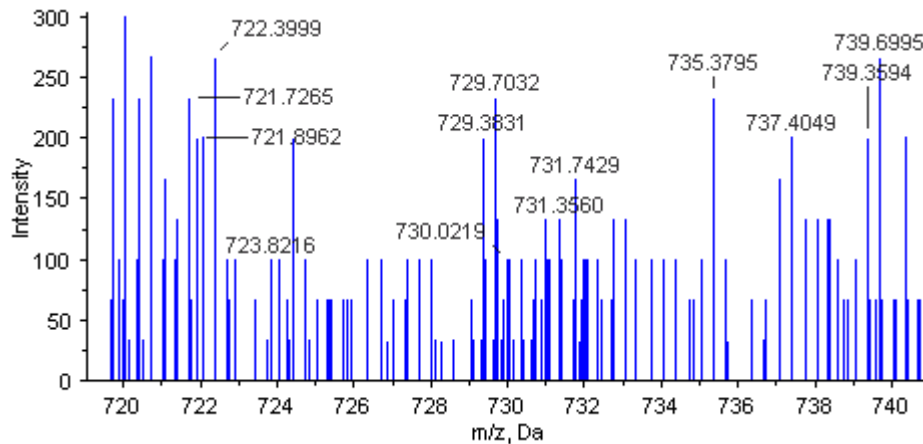
Seq Cov %: 9.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=1.05

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MERSTPVRKPHTSTADLLTWSETPPPDSPSVGSAPRPTRSHQPSDGI SK **VVFGGQVTEEEFESLNK**RKP
CSGYMKEMTGSGIFAANGEDDTAESGSANPIPNSKTGLRMYQQAIAGISHISFAEDDSVSPKKPTTL P
EVAKQRELSGTLESESDAKLKKQISGAKSK **ELSGHDIFAPPPEILPR**PTTVRALALQESIQLGEPSPHD
PVGQQPSEESVVKTAKKINNQK **FNELSGNDIFK**GDAPPSSAEKPLSVAKLREMSGNDI **FADGK**VESRD
FLGGV**RKPPGGESSIALV**

Protein No.: I-982

Protein name and Species:

Phospholipase D OS=Frangaria ananassa PE=2 SV=1

Accession: tr|Q533V0|Q533V0_FRAAN

Unused ProtScore: 2.25

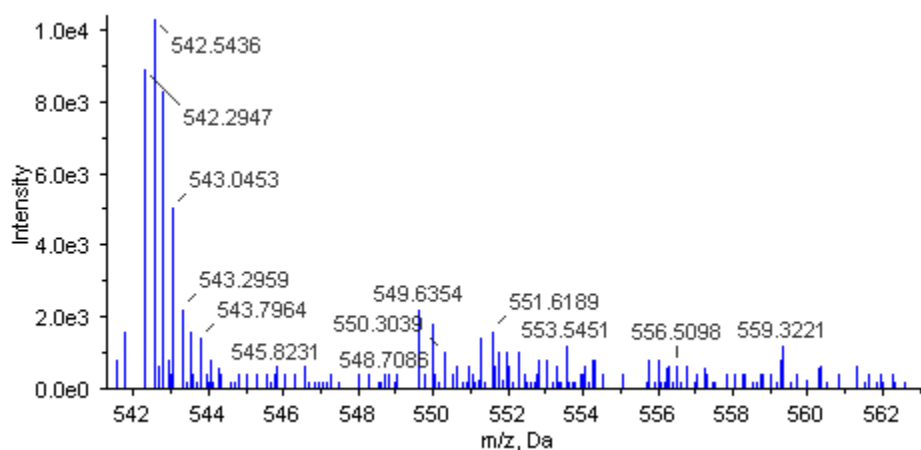
Seq Cov %: 11.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.29

116: 114=E5TL: D5TL=0.24

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGDSAEHWLHGTLHATIYEVDKLGSSGNFLRKITGKLEETVGLGKGVSKLYATVDLERARVGRTRVIE
KEPSNPWNWSESFHIYCAHVAANVIFTVKESNPIGASLIGRAYVPVEQLIEGEEVDTWAKILDDKKNPVH
GEPKIHVKLQFFHVSKDRSWGQGIKSPKFPVPFTFFSQRQGC**VS**LFQDAHV**PK**F**IP**K**I**PLAGGKYY
EPHR**CW**ED**I**FDAIT**NA**KHLIYITGWSVY**TE****I**SL**IR**DSR**RP**K**SG**GD**I**TIGEL**LK**KKASEGVR**VL**M**L**V**W**DD
RTSV**GL**L**LK**KDGLMATHDEETAQ**F**Q**NT**D**VN**CVLCPRNP**D**GGGSIVQGAQISTMFTHHQKIVVVDSEMPN
GGSQSR**RI**VS**FV**GG**LD**LC**D**GRY**D**TP**FH**SL**FR**TL**D**TA**H**H**D**DFH**Q**PN**F**T**G**AS**I**T**K**GGPREPWHD**I**HSR**LE**G
PIAWDVL**F**N**F**EQ**R**WRK**Q**GGK**D**VL**V**QL**R**ELDN**V**I**I**PPSP**V**MF**P**DD**H**ET**W**N**V**QL**F**R**S**ID**G**GA**A**F**G**FP**D**SP**E**
DAAR**A**GL**V**SG**K**D**NI****I**DR**S**I**Q**DAY**I**H**A**IRAKNFYIENQYFLGSSFAWA**AD**G**I**K**P**EDIGASHV**I**PR**EL**S
LK**I**ADK**I**ANGER**F**TVYVV**V**PM**W**PEG**I**PESAS**V**QA**I**LD**W**Q**R**RT**M**EM**M**Y**K**DI**K**Q**A**LD**K**H**G**VEED**P**R**NY**L**T**F
FCL**G**N**R**EV**K**K**D**GEY**E**P**S**E**A**PE**A**DS**DY****I**RA**Q**E**A**RR**F**MI**V**H**T**K**MM**I**V**D**D**E**Y**I**I**GS**A**N**I**N**Q**R**S**MD**G**A**R**D**S**
E**I**AM**G**AY**Q**PH**H**LS**V**REP**A**R**G**Q**I**H**G**FR**M**AL**W**YE**P**L**G**ML**D**ET**F**L**Q**PES**V**E**C**I**K****K**V**N**Q**I**AD**K**Y**W**D**L**YS**S**ET**L**
E**H**DL**P**GH**L**L**R**YP**V**GV**T**SE**G**EV**T**EL**P**GF**E**FF**P**DT**K**AR**V**L**G**A**K**SD**Y**L**P**P**I**L**T**T

Protein No.: I-990

Protein name and Species:

Malic enzyme OS=Populus trichocarpa

GN=POPTRDRAFT_737670 PE=3 SV=1

Accession: tr|B9ILT5|B9ILT5_POPTR

Unused ProtScore: 2.23

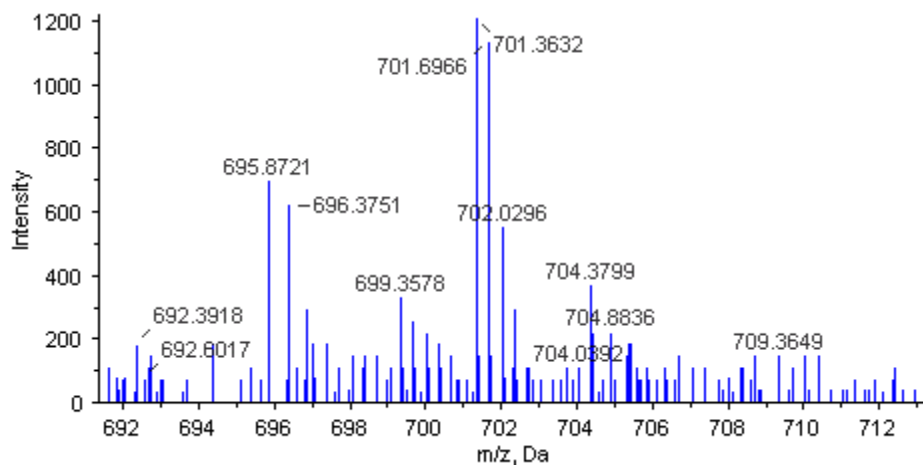
Seq Cov %: 7.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.59

116: 114=E5TL: D5TL=1.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MESTLKEMRDGASVLDMDPKSTVGGGVEDVYGEDRATEDQLVTPWTISVASGFLLLRDPQHNKGLAFTE
KERDAHYLRGLLPPATISQQLQEKKLMNTIRQYQLPLQKYTAMMELEERNERLFYKLLIDNVEELLPVV
YTPTVGEACQKYGSIFKRPPQGLYISLKEKGGKVLVDVLKNWPQKSIQVIVVTDGERILGLGDLGCQGMGIP
VGKLSLYTALGGVRPSACL PVTIDVGTNNEQLLKDEFYIGLRQKRATGQEYSELLHEFMTAVKQNYGEK
VLIQFEDFANHNAFDLLAKYGTTHLVFNDDIQGTAAVVLAGLISALKLLGGSLADHTFLFLGAGEAGTG
IAELIALEMSRRSKTPLEETRKKIWLTDKGLIVSSRKESLQHFKKPWAHEHEPVKGLLEVVKAIKPTV
LIGTSGVGKTFTEVIEAMASFNEKPLILALSNTSQTAEAEAYTWTGKAIFASGSPFDPVEYEGK
VFVPGQSNAYIFPGLGLGLVISGAIRVHDDMLLAAAEALAGQIKEEYLAKGLIYPPLSNIRKISVQIA
ANVAAKAYELGLATRLPRPENLVKHAESCMYSPAYRYR

Protein No.: I-993

Protein name and Species:

Signal recognition particle 68 kDa protein, putative OS=Ricinus communis GN=RCOM_1503780 PE=4 SV=1

Accession: tr|B9RA70|B9RA70_RICCO

Unused ProtScore: 2.23

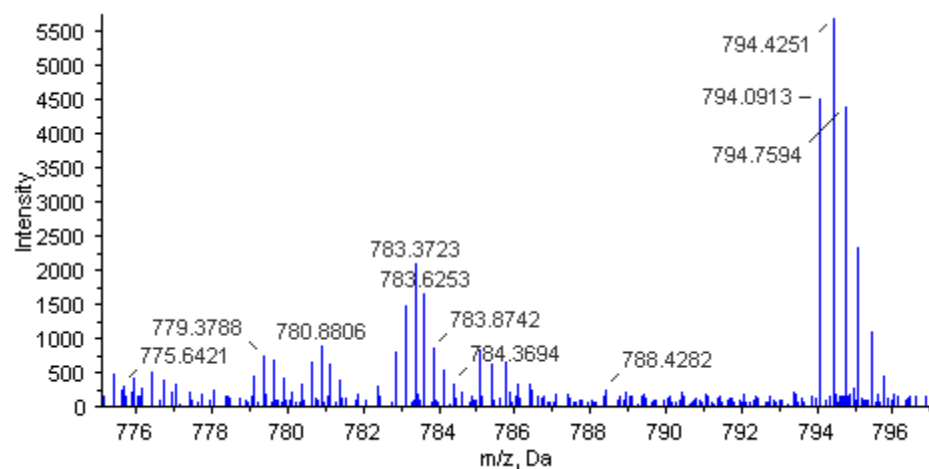
Seq Cov %: 6.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.91

116: 114=E5TL: D5TL=0.86

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAMDIDGPKSNNSEQISPRYSINVLQLLKSAQMQHGLRHGDYTRYRRYCTARLRRLYKSLKFTHGRGKY
TRRAITESTVTEVRFLHLVLYSAERAWSHAMEKRQLPDGPNARQRIYLIIGRLRKAVQWANLFSQLCAAK
GDSRTSLEAEAYAAYMNGNLLFEQDRNWDTALKNFISARAVYEELGKYGDLENQVLCRERVEELEPSIR
YCRHKIGQSNLQTSDDLQIGEMEGPALDLFKTKLEAVMAEARSQQAASLTFHHLGKFPISNAKTRVA
ILKAQELEKDLHGSAADSLPAEKKLVVFDKIFAAYHEARSCIRSDLVSAGNADSVKDDLSGLDKAVSAV
LGQRTIERNQLLVSIASKFIKRRDDKNEKLTRPEELVRLYDLLLQNTSDLSDLVSSGRDTKPEEVAFS
EDCALRSLAFRAQRCFYLAKSYSLAGKRTEAYSILYCRARSLSENALQKFQSLNNTDEIMVKELKTLYNE
CRSNSCIEHASGIMEDEKAPENLSKKVSAISLGGDKKVEKFLLEKLDVYESAVGDPHVKAPPRIEVFP
PAFQTIPRNPIILDLAYNYIDFPSEENRMKKDKKGFISRLWR

Protein No.: I-1002

Protein name and Species:

Hydrolase; Leukotriene A-4 hydrolase, putative OS=Ricinus communis GN=RCOM_1071200 PE=4 SV=1

Accession: tr|B9SD61|B9SD61_RICCO

Unused ProtScore: 2.2

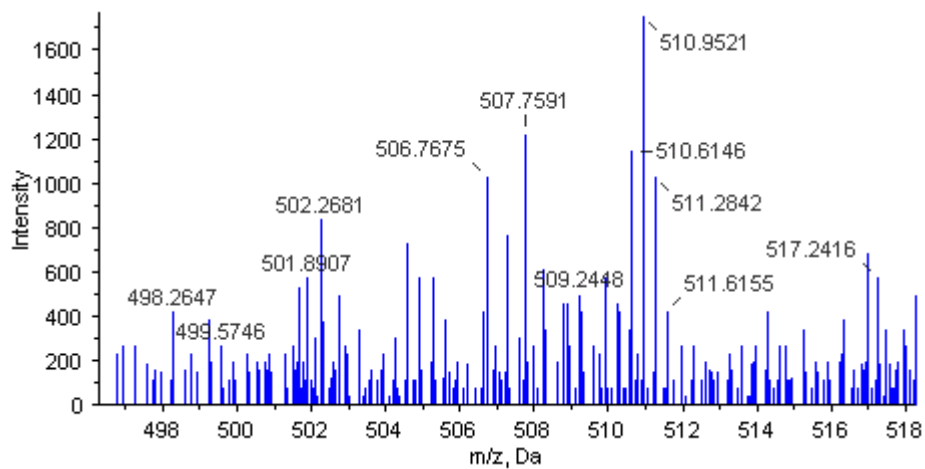
Seq Cov %: 5.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=6.19

116: 114=E5TL: D5TL=3.09

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAPVDPHSYTDSTHPLTTHISLSLYFDFASASTIHGTALFSLSTPHTGHISLDTRSLTVHKIADPVTRAL
IPFSLSP EIDPIKGCHLTLSLQSQSSFLILYSTSPSSSALQWLSPPQTFGKAQPFVYTQCQSIHARSVF
PCQDTPAARICYSARLNIPRQLAAVMSARHCHRRAPVSGDVENSIDEGTDFDLKSIWCGEGRVIEEFVM
EQPIPPYLFAFA**AVGELGFR**EVGPRTRIYSENVGDVLDAAAREFSGTEEMIRQGEKLFGEYEWERFDLLV
LPPSFPYGGMENPRMVFLTPTVIKGDSSGAQVVAHELASHWTGNLITNTNNHFWLNEGFTTYAERR**IV**
EVVQGEDKAVLNIGIGWRGLNEEVERFKDNMEFTKLK**TNQENADPDDMYSQVPYEK**GFQFLWRIERQIG
RPAFDEFLKKYIATFKFKSIDTDMFLDFLK**ANVPGIEK**DIDLQLWTEGTGIPDAYEPVSNVYTKIISL
AHEFKLGTMPGEVEVADWQGQEWELY**LENLPKSVESQIALDAR**YRL**SESK**DYEVKVAFLELAILSGC
KDYFSAVEKTLKEVGRMKYLRPLYTALVQGTGKEEE**KILAK**RVFAEARDCYHP IAQGVEA**IFAKHL**

Protein No.: I-1008

Protein name and Species:

Alanine aminotransferase [Medicago truncatula] OS=Medicago truncatula PE=2 SV=1

Accession: [tr|B7FM77|B7FM77_MEDTR](#)

Unused ProtScore: 2.19

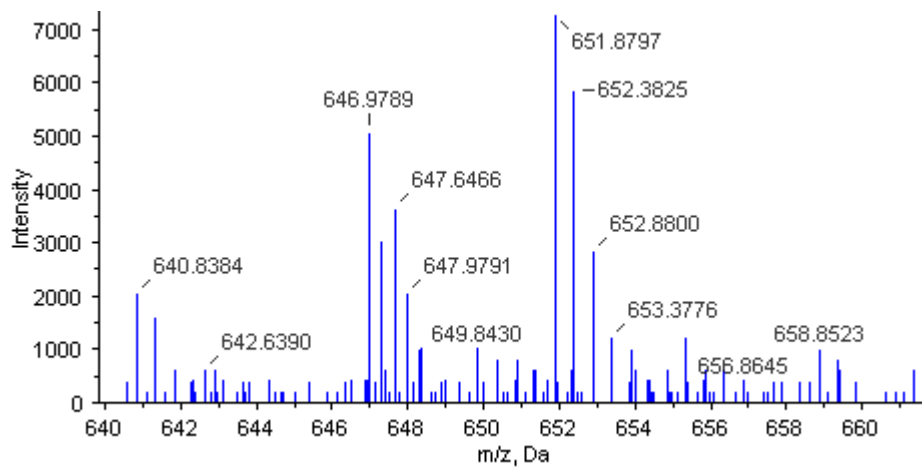
Seq Cov %: 5.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=5.06

116: 114=E5TL: D5TL=1.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRKSAADRFRHLFNRSLVFRNQNQQYHHPSPLRSLSSMASDSPFPVTAQNINPQVLKCQYAVRGEIVT
LAQNLQKALQANPDAHSFDEIIYCNIGNPQSLGQQPITFFR**EVLALCDYPALLDK**SETQGLFSADSIER
AWQLVDQIPGRATGAYSHSQGIQGLRDTIAAGIEERDGFPCNANDIFLTDGASPAVHMMQLLIRSEKD
GILCPIPQYPLYSASITLHGGLVPPYYLDEATGWGLEISELKKQLEEAKSKGISVRALAAINPGNPTGQ
VLAEDNQR**AIVEFCKQEGLVLLADEVYQENVYVPEK**KFHSFKKVS**SMGYGDNDICLVSFQSVSK**GYHG
ECGKRGGYMEVTGFSPDVREQIYKVASANLCSNITGQIL**ASLIMSPPK**VGDESYESFMAERGAILSSLT
TRAKALEEALNKLEGVTCNK**AEGAMYLFP**IRLPEKAIKAAEAEKSAPDAFYCKRLLNATGIVVPGSG
FGQVPGTWHFRCTILPQEDRIPAIVTRLTEFHQKFMDEFDRD

Protein No.: I-1016

Protein name and Species:

Ras-related protein Rab11B OS=Nicotiana tabacum

GN=RAB11B PE=2 SV=1

Accession: sp|Q40521|RB11B_TOBAC

Unused ProtScore: 2.18

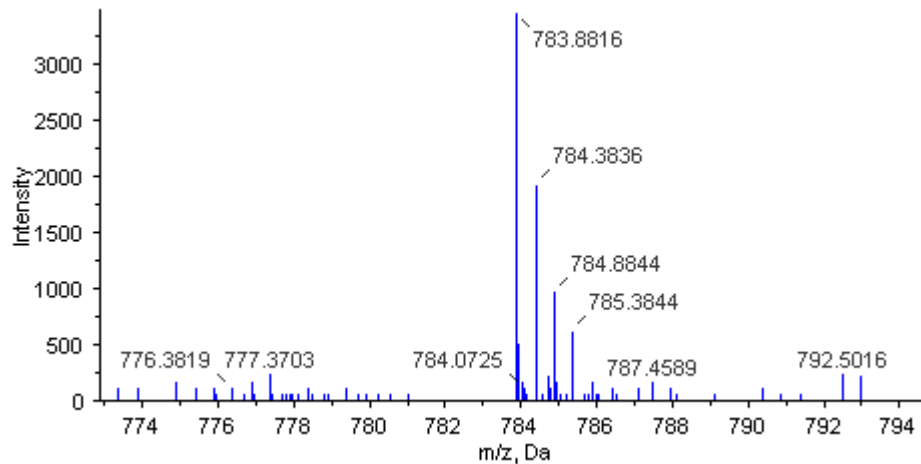
Seq Cov %: 33.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.35

116: 114=E5TL: D5TL=1.21

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAGGYRAEDDYDYLFLKLVLIIGDSGVGKSNLLSRFSRNEFNLESKSTIGVEFATR SIRVDDKIVKAQIWD
TAGQERYRAITSAYYRGAVGALVVYDITRHVTFENVERWLKELRDHTDQNIIVIMLVGNKADLRHLRAVS
TEDAKAFAERENTFFMETSALSLNVENAFTEVLTEIYKVVCRKALEVGDDPAALPKGQTINVGKDDVS
AVKKVGCSS

Protein No.: I-1019

Protein name and Species:

guanine nucleotide-binding protein subunit beta OS=Vitis
vinifera GN=VIT_17s0000g02750 PE=4 SV=1

Accession: [tr|A5BV59|A5BV59_VITVI](#)

Unused ProtScore: 2.17

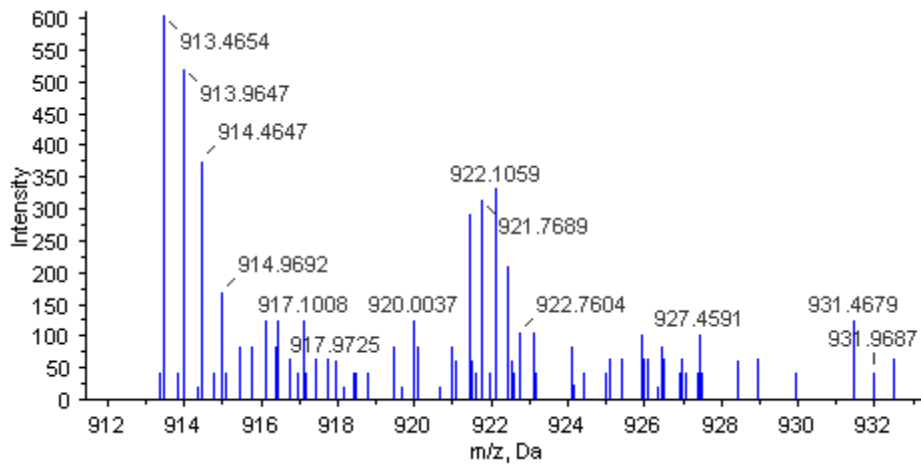
Seq Cov %: 12.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.67

116: 114=E5TL: D5TL=0.30

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAETLVLRGTMRAHTDMVTAIATPIDN**SDMIVTSSRDK**SIILWHLTKDDK**TYGVPR**RRRLTGHSFVQDV
VLSSDGQFALSGSWDGELRLWDLAAGTSARRFVGHTKDVLSVAFSVDNRQIVSASRDRTIKLWNTLGE
KYTIQDADAHSWVSCVR**FSPNNLQPTIVSASWDR**TVKVWNLTNCKLR**ATLAGHGGYVNTVAVSPDGS**
CASGGKDGVILLWDLAEGKRLYSLDAGAI IHALCFSPNRYWLCAATEQS IKIWDLESK**SIVEDLK**VDLK
TEAEKSEDTTTTAKKKGKI IYCTSLSWSADGSTLFSGYTDGVVRVWGIGRY

Protein No.: I-1026

Protein name and Species:

Indole-3-acetic acid-amido synthetase GH3.5, putative

OS=Ricinus communis GN=RCOM_0236810 PE=4 SV=1

Accession: tr|B9T6N8|B9T6N8_RICCO

Unused ProtScore: 2.15

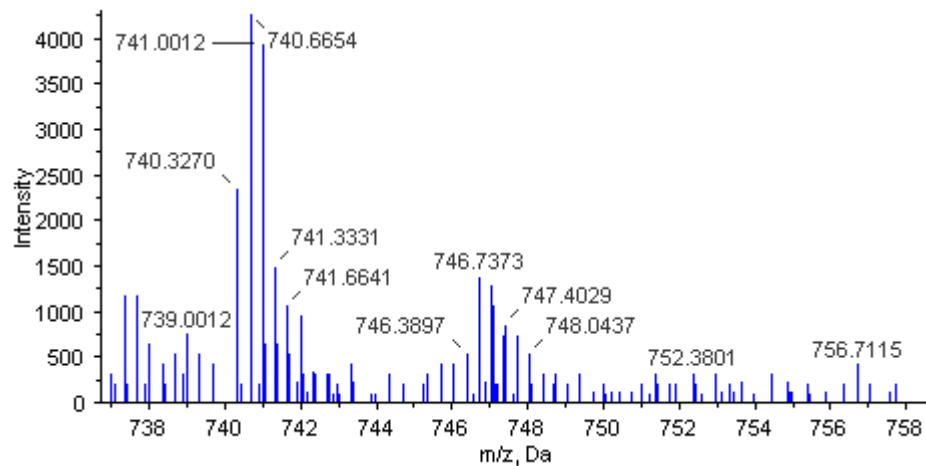
Seq Cov %: 3.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.38

116: 114=E5TL: D5TL=1.60

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTKNAERVQKETLKK**ILEENGSAEYLQNLGLDGR**TDPESEFKICVPICTHGDLEPYIQRIADGDSSPVL
GKPIITISLSSGTTQGPKYVPFTDQLLDNT**LQIFR**TSFAYRNREFPLENGK**ALEFVFSSKQGKTKGGL**
AAGTATTNLFRNPNYKTALEELQFKSCSPREVI FGSDFHQSLSYCHLLCGLIFREDIQFVFSTFAHSIVL
AFRTFEQVWEELCDDIRNGELSSRITAPSIRTAMSHLLKPNAELADL**IHTK**CSGLSNWYGLIPEL**FPNA**
KYIYGIMTGSMEPYLKKLRYAGELPLLSADYGASEGWIAANVNPLLPPELATFAVLDPDIGYFEFIPLR
RNGDHIYSEPKPIGLSDVKIGEEYEILVTNFAGFYRYR**LGDVVKVMGFHNSTPELK**FVCRRLSLLSINI
DKNTEK**DLQLVVEEAAK**LLADEKLEVVDFFSSLADRSTDPGHYVIFWEISGEPTAEVLQECCNCLDR**SFL**
DAGYVTSRKVKAIGPLELRVVH**RGTFQK**ILDHYLGLGAAVSQFKTPRCVGPANNVVSQILSNNVAKSYV
STAF

Protein No.: I-1029

Protein name and Species:

Vesicle transport protein-lik OS=Populus trichocarpa

GN=POPTRDRAFT_584135 PE=4 SV=1

Accession: tr|B9N7F9|B9N7F9_POPTR

Unused ProtScore: 2.15

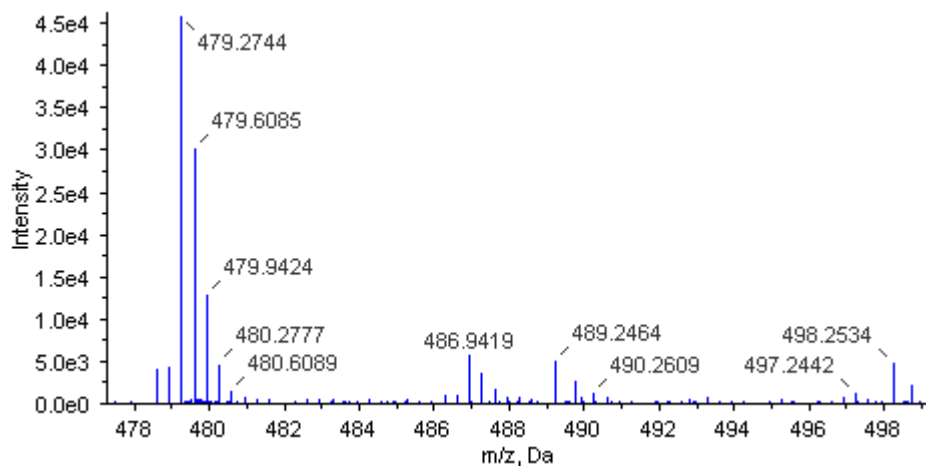
Seq Cov %: 11.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.66

116: 114=E5TL: D5TL=1.74

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVKL**TM**IAR**V**TD**GL**PLA**EGL**DDGRDVKDAEMYKQQVKALFKNLASGHNDASRMSVETGPYVFHYIIEGR
VCYLTMCDRSYPK**KLAFQYLEDLK**YEFERVNGAQIETAARPY**AFIK**FDTFIQTKKLYQDTRTQRNVAK
LNDELYEVHQIMTR**NVQEV**LV**GVGEK**LDQVVSQMSRLTSESR**IYAEK**ARDLNRQALIRKWAPVAIVLGVV
FLLFWVKTKLW

Protein No.: I-1030

Protein name and Species:

**Proteasome subunit alpha type OS=Populus trichocarpa
GN=POPTRDRAFT_818935 PE=2 SV=1**

Accession: tr|A9PCM5|A9PCM5_POPTR

Unused ProtScore: 2.14

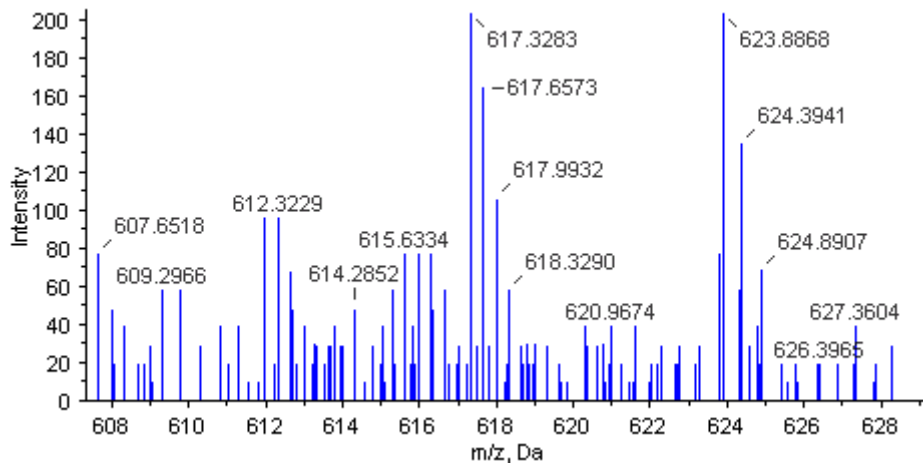
Seq Cov %: 10

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.27

116: 114=E5TL: D5TL=0.38

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSRRYDSRTTIFSPTEGR**LYQVEYAMEAIGNAGSAIGILSK**DGVVVLVGEKKVTSKLLQTSTSTEKMYK**ID**
DHVACAVAGIMSDANILINTARIQAQRYTFAYQEPMPVEQLVQSLCDTKQGYTQFGGLRPFVGSFLFAG
WDKNYGFQLYMSDPGNYSGWK**AGAIGANNQAAQSMKQDYKDEITREEAVQLALK**VLSKTMDSTSLTS
EKLELAEVFLSPSGNVKYQVCSPDVLSKLLVKFGVTQPAETS

Protein No.: I-1037

Protein name and Species:

Aminoacyl-tRNA synthetase-like OS=Populus trichocarpa

GN=POPTRDRAFT_552617 PE=3 SV=1

Accession: tr|B9GTA1|B9GTA1_POPTR

Unused ProtScore: 2.13

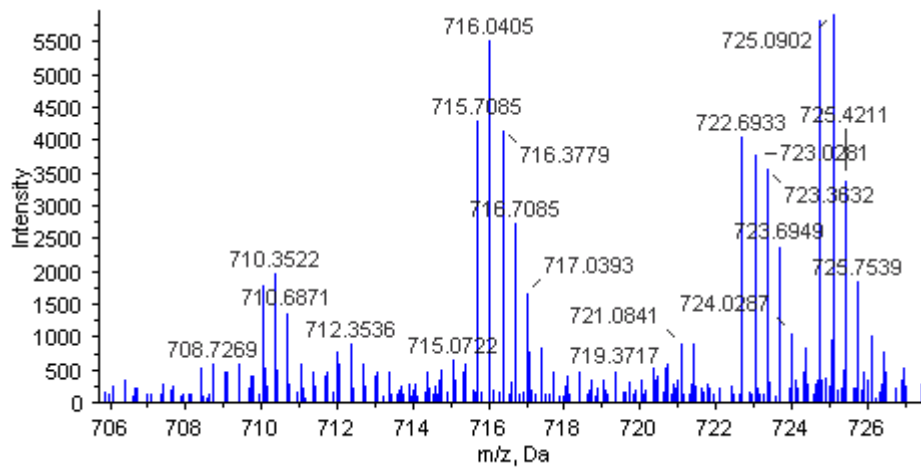
Seq Cov %: 18.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.28

116: 114=E5TL: D5TL=0.22

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MADGKKKEVK**KETGLGLTFK**KEENFGEWYSEVVVNGEMIEYYDISGCYILRPWSMSIWETMQAFFD**VEI**
KKMKIK**NCYFPLFVSSSVLQK**EKDHIIEGFAPEVAWVTKAGKSDLEVPVAIR**PTSETVMYPYFSK**WIRGH
RDLPLK**LNQWCNVVR**WEFSNPTPFIRSREFLWQEGHTAFASKQEADDEEVLQILELYRR**IYEEFLAIPVI**
KGKKSEMEK**FAGGLYTTTSVEAFIPNTGRGIQGATSHCLGQNF**AKM**FEINFENEK**GEKGM**AWQNSW**AYST
RTIGVMVMVHGDDKGLVLP**PKVASVQVIVVPV**PK**DADTQGI**FD**CAATVD**TL**CEAGIRAEADFR**ENYS
PGWKYSHWEMK**GVPLRIEIGPKDLANNQVR**AVR**RD**NAAKVDISRD**SLMEKVKDMLDDI**Q**QLF**DAAK**QK**
RDACIQV**VKTWGEFK**EALSQRKMILAPWCDEEEVERDV**KER**TRGEMGAAKSLCSPFDQPELPEGTAC**FA**
SGKPAKKWTYWGRSY

Protein No.: I-1044

Protein name and Species:

Chorismate synthase OS=Vitis vinifera GN=VIT_13s0019g04190

PE=3 SV=1

Accession: tr|D7TMA3|D7TMA3_VITVI

Unused ProtScore: 2.12

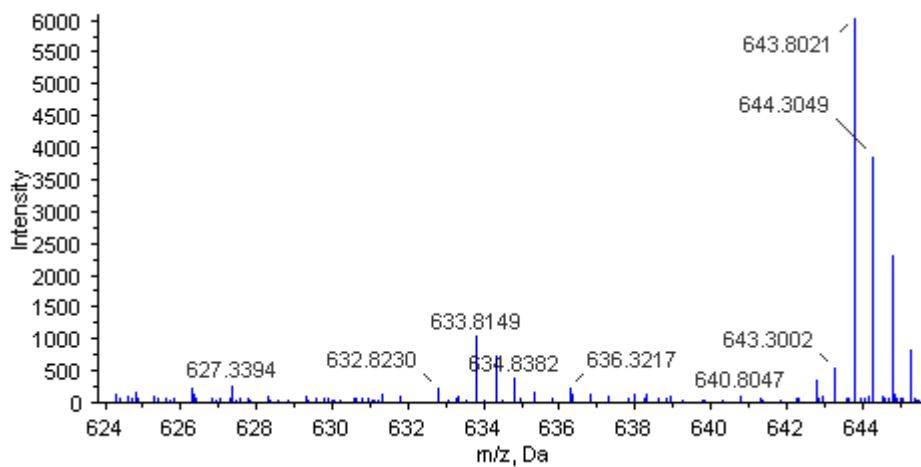
Seq Cov %: 6.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=1.09

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASSLSSKPFLTSPSTDGASGFGSLRKLSPFSVRYAIRPTHRRTLEIQAGSTYGTYFRVTTYGESHGG
GVGCIIDGCPPRLPLTEADMQIDLDLRRRPGQSRITTPRKETDTCRIYSGVAEGMTTGSPIMVNPNTDQ
RGNDYTEMSKAYRPSHADA**TYDFK**YGVRVSVQGGGRSSARETIGRV**AAGAVAK**KILKNFSGTEVLAYVSQ
VHKVVLPEDLVDHETLALDQIESNIVRCPDPE**YAEKMIAAIDAVRVRGDSVGGVVT**CIVRNIIPRGLGSP
VFDKLEAELAKAALSLPATKGFEEFGSGFAGTFMTGSEHNDEFF'TDAHGRIRTRTNRSGGIQGGISNGEI
INIRIGFKPTSTIGKKQHTVTRDKQ**E**TE**L**IAR**GR**H**D**PC**V**VPR**AV**PMVEAAVALVLDQLMAQYAQCELF
PINPALQEPELEFRDPELAGTHI

Protein No.: I-1049

Protein name and Species:

pantothenate kinase OS=Vitis vinifera GN=VIT_08s0007g07660

PE=4 SV=1

Accession: tr|F6HLA1|F6HLA1_VITVI

Unused ProtScore: 2.12

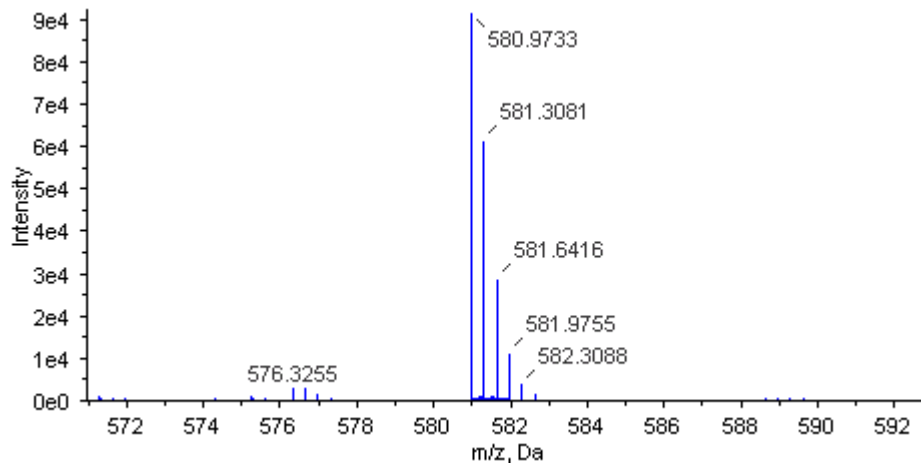
Seq Cov %: 3.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.47

116: 114=E5TL: D5TL=1.01

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEFPPFGHHHHTHHHRPEYGAGEEEEEYLQPPPPPLIHPPPPPPAYFHGEDEPPPPAYFYGEDEPPPPRA
QVHHISHADPPRPPSSSHVHHISHVEDQGFGRENYTHEGPPYARPPPVSYASAPVRHVSHHLNPQQPQ
GTEQVETHHLHHLPGFLHHHNEAHGVGSNLSNKPTVRVFCCKAKPNHSLTILDGKVYLAPSNKTDMLQHW
IKDEK**Y****S****T****S****V****K****D****E****E****G****F****P****S****F****A****L****V****N****K**ATGQAMKHSIGASHPVQLIPYNPDVLDSEVLWTESKDLGDNFRSI
RMINNIHLNVDALHGDRSHGSVHDCTTIVLNKWKKGDNQLWKISLYFENPFPSQLTQSIPLSLNLSLCE
C

Protein No.: I-1051

Protein name and Species:

Carotenoid cleavage dioxygenase 1 OS=Rosa damascena

GN=CCD1 PE=2 SV=1

Accession: tr|A9Z0V7|A9Z0V7_ROSDA

Unused ProtScore: 2.11

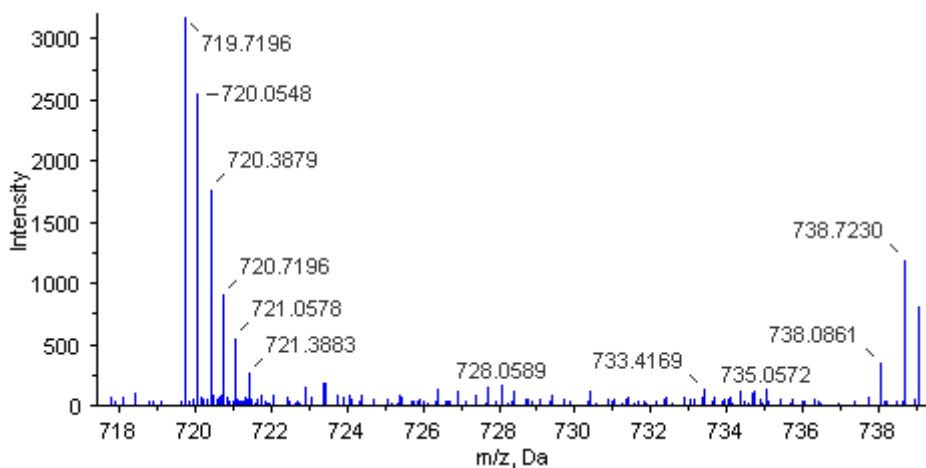
Seq Cov %: 4.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.93

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEVVEKRHDDDVKEKLSNGI VVPNPKPSKGV TSTLVDTVEKLI VVKLMYDSSQPHHYLAGNFAPVIEE
TPPTKDLHVIGHLPDCLNGEFVVRVGP NPKFAPVAGYHWF DGDGM IHGMRIKDGKATYVSRVVKTSRLKQ
EEYFGGAKFMKVGD LKGLFGLLMVYMQQLRAK LKVLDSL YGHGTGNTAFVYHHGKLLALSEGDKPYVLK
VLEDGDLQTVGLLDYDKRLKHSFT**AHPK**VDPFFT GEMFTFGYSHDPPYV TYRVISK DGFMDP IPIITVPA
PVMHDFAITENY AIFMDLPLYFRPKEMVKEGKL IFSFDETKKARFGVLP R**YAKD DLLIR**WFELPNCFI
FHNANAWEEEEDEVV LMTCRLENPD LDMVNGP IKKKLDNFKNELYEMR FNLTGLATQKKLSESAVDFPR
VNESY TGRKQR**YVYGT TLDSIAK**VTGIVKFDLH**AAPEIGK**TKIEVGGNVQGLYDLGPGR**FGSEAI FVPR**
VPGITSEEDDGYLIFFVHDENTGKS A IHVLD AKTMSGDPVA IVELPHRV PYPYGFHAFV TEEQLQE QAKF

Protein No.: I-1059

Protein name and Species:

Nucleoredoxin, putative OS=Ricinus communis

GN=RCOM_1599380 PE=4 SV=1

Accession: tr|B9R8F0|B9R8F0_RICCO

Unused ProtScore: 2.1

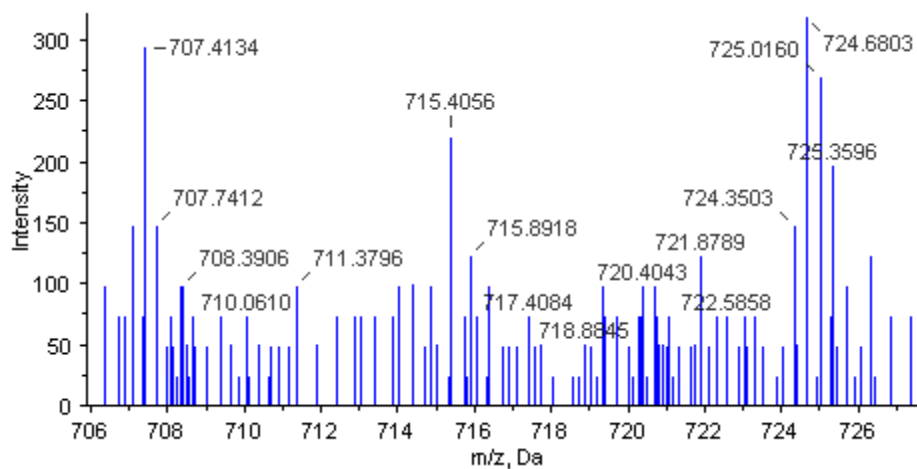
Seq Cov %: 11.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.56

116: 114=E5TL: D5TL=0.75

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MCHYLRLPLALHLRYK**VKVSELEGK**VIGLYFSANWYPPCRNFNQVLAVVYEQKENGSNFEVVFVSSDE
NLDAFNRYRALMPWLSIPFSDLETKKALDRKFNIEGVPCLVILQPKDDKEEATLHDGVDLLYR**FGVQAF**
PFTKERLEELKMQEKEKHESQTLTNLLTNHDRDYLFAHPAPKQVPVASLIGKTIGLFFSAQWCRPGMKF****
TPKLISIIYHKIKQMLRERESDFEIVFVSTDRDQEGFDSYFNTMPWLALPFGDPTIKTLTK**YFDVQGIP**
CLIIIGPNGKTITKNGR**NLINLYQENAYPFTEAK**VELLEKQMEEEFKSLPRSEYH**VGHK**HELNLVTEGT
GGGPYICCDCDEQGSWAYQCLECGYEVHPKCVRVVEPGSTRAR

Protein No.: I-1062

Protein name and Species:

Structural molecule, putative OS=Ricinus communis

GN=RCOM_1168960 PE=4 SV=1

Accession: tr|B9SS56|B9SS56_RICCO

Unused ProtScore: 2.09

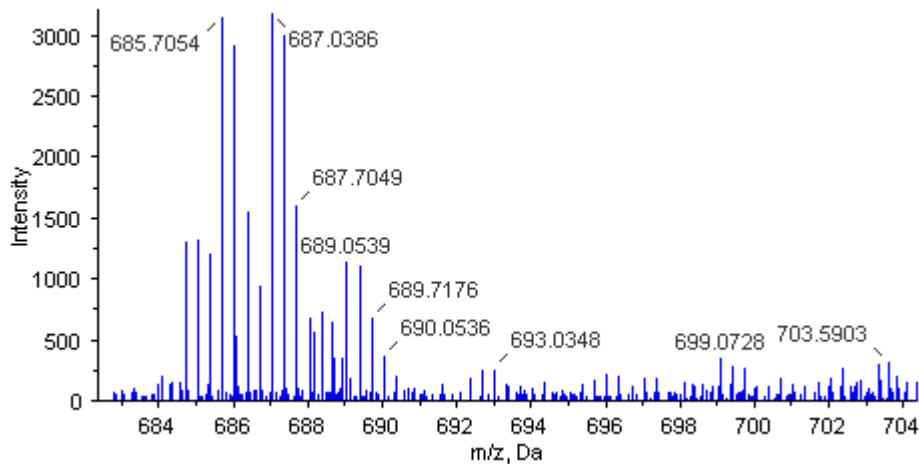
Seq Cov %: 11.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=1.15

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDTLTSL LHPPSFSSSF INHSSSSSSSS **FTIK**AFPKRRLFY INNNTGKSL **LPVVK**SALDEVVPVLDPPPPPP
PPPPPF GNERENKNLVLASLKLKLLSIVSGLNRGLAASEDDLQKAD **DAAAK****ELEAVGGLVDLSNDIDK**LQG
RWKLIYSSAFSSRTLGGSRPGPPTGRLLPITLGQVFQRIDVLNKDFDNIVELQLGAPWPLPPVEVTATL
AHKFEL **IGSAK**VKI **TFEK**TTVK **TG**NLSQL**PPL**EIPRIPDALRPPSNTGSGDFEVTYVDADTRITRGDR
GELRVFVIA

Protein No.: I-1065

Protein name and Species:

Ribosomal protein L3A OS=Nicotiana tabacum GN=RPL3A

PE=2 SV=1

Accession: tr|Q6TKR0|Q6TKR0_TOBAC

Unused ProtScore: 2.08

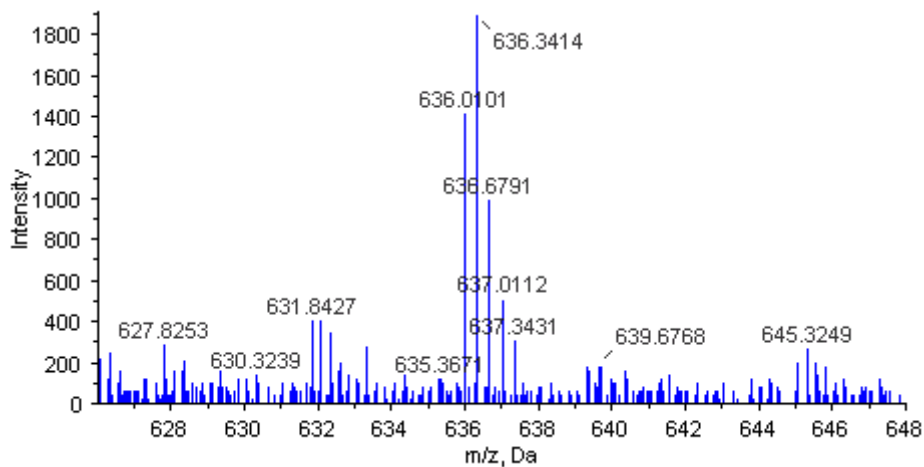
Seq Cov %: 8.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.66

116: 114=E5TL: D5TL=2.75

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSHRKFEHPR**HGSLGFLPR**KRAARHRGKVKAFPKDDPNKPCK**LTAF LGYK**AGMTHIVRDVEKPGSKLHK
KETCEAVTIIETPPMVIVGVVGYVKTPRGLRCLNTVWAQHLSEELKRRFYKNWCKSKKKAF LKYSKKYE
SDEGKKDIQTQLEK LKKYACVIR**VLAHTQIR**KMKGLKQKKAHLMEIQVNGGTIAQK**VDFAYGFFEKQVP**
VDAVFQKDEMIDIIGVTKGKGYEGVVTRWGVTRLPRKTHRGLRKVACIGAWH PARVSYTVARAGQNGYH
HRTEMNKKVYKLGKAGQESHAAV**TDFDRTEK****DITPMGGFPHYGVVK**DDYLLIKGCCVGPKKR RVTLRQS
LLNQTSR**VALEEIK**LKFIDTSSKFGHGRFQTTQEKQKQFYGRLKG

Protein No.: I-1066

Protein name and Species:

Glutamate decarboxylase isozyme 3 OS=Nicotiana tabacum

PE=2 SV=1

Accession: tr|Q94KK8|Q94KK8_TOBAC

Unused ProtScore: 2.08

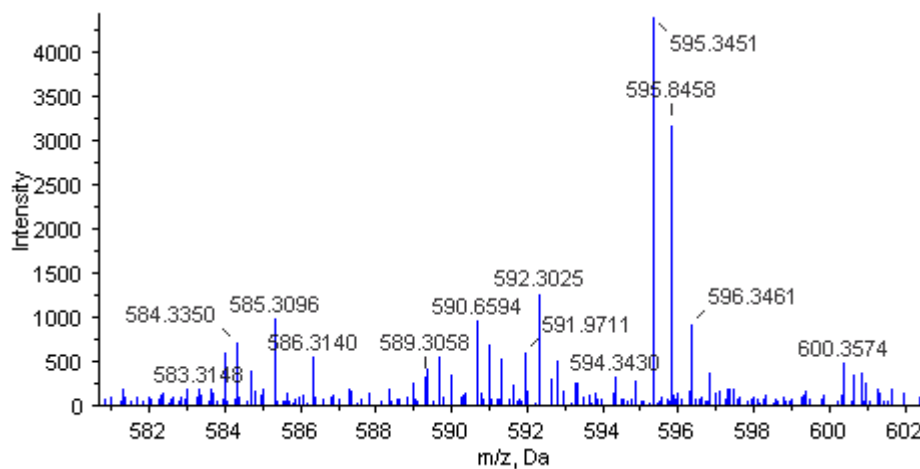
Seq Cov %: 8.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.21

116: 114=E5TL: D5TL=0.92

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVLSKTSSES DVSVHSTFASRYVRTSLPRFEMAENSIPK**EAAFQIINDELMLDGNPR**LNLASFVTTWME
PECDKLMMSINK**NYVDMDEYPVTTTELQNR**CVNMIARLFNAPLEEKETAVGVGTVGSSEAIMLAGLAFK
RNWQNKRKAEGKPYNKPNIVTGANVQVCWEKFNANYFEVELKEVKLREGYYVMDPVQAVEMVDENTICVA
AILGSTLNGEFEDVK**LLNDLLIEK**NKQGTGWNTPIHVDAASGGFIAPFLYPELEWDFRLPLVKSINVS GH
KYGLVYAGIGWVIWRTKQDLPEELIFHINYLGADQPTFTLNFSK**GSSQVIAQYYQLIRLGYEGYR**NVME
NCRENAIVLREGLEKTGR**FNIVSKDEGVPLVAFSLK**DNSRHNEFEVSETLRRFGWIVPAYTMPADAQHV
TVLR**VVIREDFSRTLAERLVLDIVKVLHELDTLPARLSAKLEEVKLVK**NGKKFELEVQREVTNYWKKFV
LARKAPVC

Protein No.: I-1067

Protein name and Species:

Aminopeptidase OS=Citrus unshiu GN=ORF12 PE=4 SV=1

Accession: [tr|F8WL79|F8WL79_CITUN](#)

Unused ProtScore: 2.08

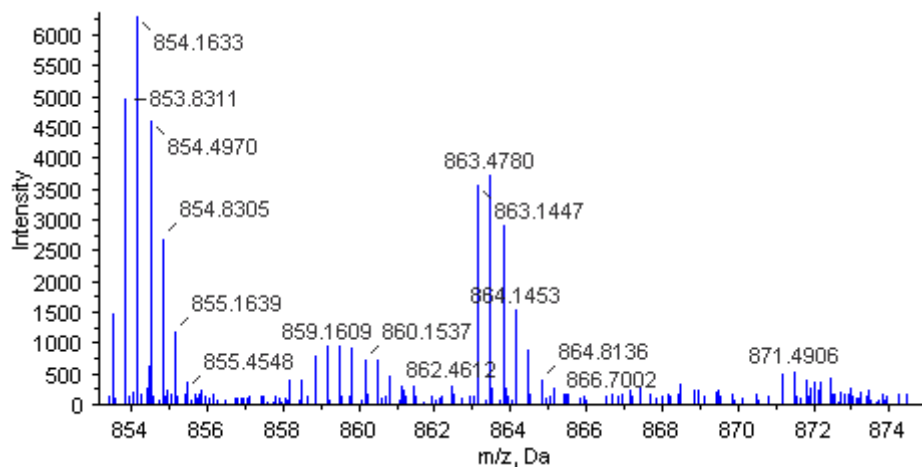
Seq Cov %: 4.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.59

116: 114=E5TL: D5TL=0.41

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEEFKGQPRLPKFAVPKRYDIRLTPDLTSCKFGGSVAIDVDVVGDTKFIVLNAADLTINNRSVVSFTNKA
SSKAL**EPTK**VELVEADEILVLEFAETLPTGMGVLAIGFEGVLNDKMKGFYRSSYELNGEKK**NMAVTQFE**
PADARRCFPWCWDEPACKATFK**ITLDVPSSELVALSNMPVIDEK**VDGNMKTVSYQESPIMSTYLVAVVIGL
FDYVEDHTSDGTVTISIDSHGIKVRVYCVGKANQKGFALNVAVKTLELYKEYFAVPYSLPKLDMIAIP
DFAAGAMENYGLVITYRETALLYDDQHSAAANKQRVATVVAHELAHQWFGNLVTMEWWTHLWLNNEGFATW
VSYLAADSLFPEWK**IWTQFLDECTEGLR**LDGLAESHPIEVEVNHTGEIDEIFDAISYRKGASVIR**MLQN**
YLGAECFQRSLASYIKKYACSNKTEDLWAALEEGSGEPVNKLMNSWTKQKGYPVISVKVREEKLELEQ
ELLGCSISKEGDNGGWIK**LNVNQTGFYR**VKYDKDLAARLGYAIEKKQLSETDR**FGILDDHFALCMARQQ**
TLTSLTLTLMASYSEETEYTVLSNLITISYKIG**RIAADARPELLDYLK**QFFISLQNSAEL**FICR**KLGD
SKPGESH**LDALLR**GEIFTAL**LLGHK**ETL**NEASK**RFHA**FLADR**TTPLLPDIRKAAYVAVMQKVSASDR
SGYESLLRVYR**ETDLSQEK**TRILSSLASCPDVNIVLEVLNFFLSSEVRSQDAVYGLAVSIEGRETAWKW
LKASGVLKEVNFDPISSINGRISSITGTTSQRPGVLVFLSHALSAQLSHRFVVYTSQIMCSVFQLLH
MCTSNVFPFLIPFLFLSAVWHAQFASYEKVREVEEFFSSRCKPY**IARTLRQSIERVQINAK**WVESIRNEG
HLAEAVKELAYRKY

Protein No.: I-1071

Protein name and Species:

serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A beta isoform [Vitis vinifera] OS=Vitis vinifera
GN=VIT_17s0000g03870 PE=4 SV=1

Accession: [tr|D7SIX7|D7SIX7_VITVI](#)

Unused ProtScore: 2.07

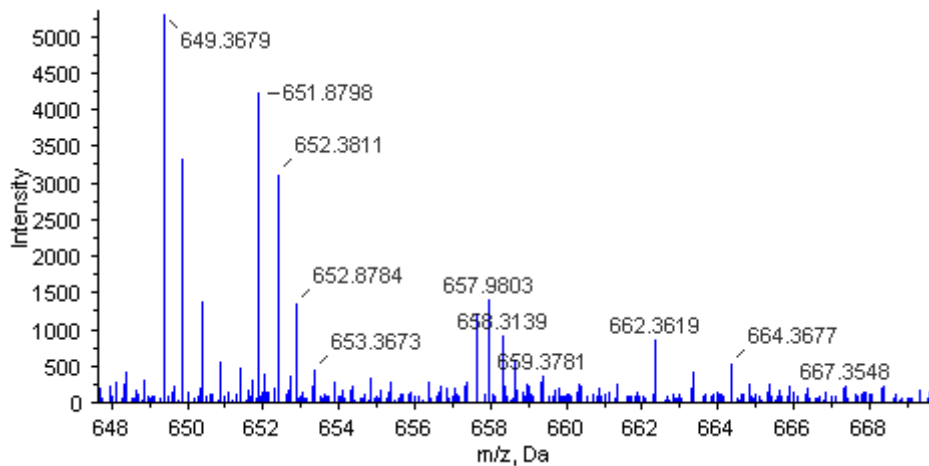
Seq Cov %: 14.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.16

116: 114=E5TL: D5TL=0.28

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKDTDFFFSALLKLVESLSSPKFQDGLRRLPHLRSQILLFPNCPFLFSHFHCSEMAMIDEPLYPIAVL
IDELKNEDIQLRLNSIRRLSTIARALGEERTRKELIPFLSENDDDEVLLAMAEELGVFIPYVGGVEH
ANVLLPPLETLCTVEETCVRDKAVESLCRIGAQMREPDLVESFIPLVKRLAAGEWFTARVSSCGLFHIA
YPSAPETLKTELRAIYSQLCQDDMPMVRSAASNLGKFAATVEAAHLKADIMSI FEDLTQDDQDSVRL
AVEGCAALGKLLLEPQDCVAHILPVIVNFSQDKSWRVRYMVANQLYELCEAVGPEPTRSDLVPAYVRLLR
DNEAEVRIAAAGKVTKFCRILNPELAIQHILPCVKELSSDSSQHVR SALASVIMGMAPVLGKDATIDQL
LPIFLSLLKDEFDPVRLNIIISKLDQVNQVIGIDLLSQSLLPAIVELAEDRHWRVRLAIEYIPLLASQL
GVGFFDDKLGALCMQWLKDKVYSIRDAAANNVKRLAEFGPDWAMQHIIPQVLDMINNPHYLYRMTILH
AISLLAPVMGPEITCSKLLPVVINAAKDRVPIKFNVAKVLQSLTPIVDQSVVDKTIRPCLVELSEDPD
VDVRFASQALQASDQIMSS

Protein No.: I-1072

Protein name and Species:

Long-chain acyl-CoA synthetase 4 OS=Ricinus communis

GN=LACS4 PE=2 SV=1

Accession: tr|B3TZ27|B3TZ27_RICCO

Unused ProtScore: 2.07

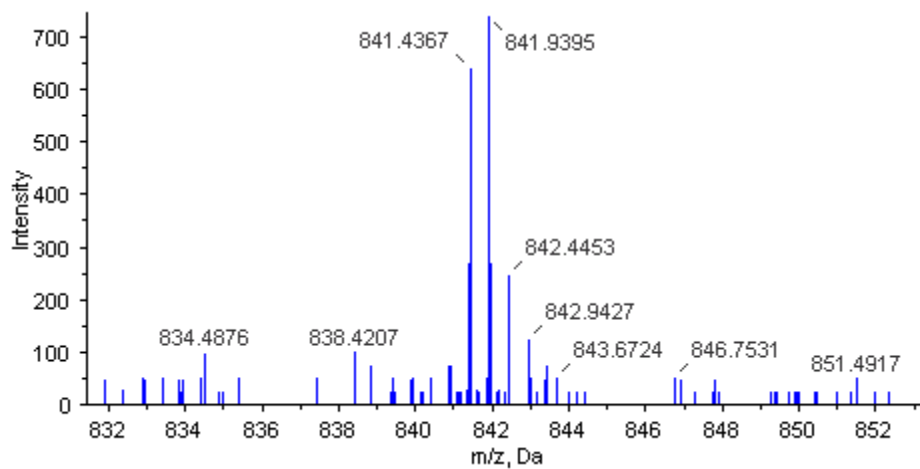
Seq Cov %: 6.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.42

116: 114=E5TL: D5TL=1.36

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAQQRQRKYL**I****E****V****E****K****A****K****E****A****K****D****G****K****P****S****V****G****P****V****Y****R**SLFAKDGFPPIPGLDSCWDVFRMSVEKYPNNPMLGHR
EFVNGKAGKYVWQTYK**Q****V****Y****D****L****V****I****K**VGNAIRSCGVEPGEKCGIYGANSAEWIMSMEACNAHGLYCVPLYD
TLGAGAVEYIICHAEVSI AFVVEEKKIPELLKTFPSAAQYIKTIVSFGNIAREQREEMEFGLVAYSWED
FLKLGGENKQYDLPEKKK**S****D****I****C****T****I****M****Y****T****S****G****T****T****G****D****P****K**GVMISNDSIVTIIAGVRRLLESVNEQLTSEDVYLS
YLPLAHIFDRVIEELFISHGASIGFWRGDVK**L****L****I****E****D****I****G****E****L****K****P****T****I****F**CAVPRVLDR**I****H****S****G****L****T****Q****K****I****S****S****G****G****F****L**
K**N****K****L****F****N****L****A****S****Y****K****L****S****C****M****K****K****G****L****A****H****D****E****A****S****P****L****S****D****K****L****V****F****D****K****V****K**QGLGGKVRLILSGAAPLAIHVEAFLRVVS
CAHVLQGYGLTETCAGTFVSLPNEMAMLGTVGPPVPNVDCLESVPEMNYDALSSSTPR**G****E****I****C****V****R**GSTVTFAG
YYKREDLTKEVLIDGWFHTGDIGEWQADGSLKIIDRKKNIFKLSQGEYVAVENLENIYGLASDVDSIWV
YGN SFESFLVAVVNP NKQALEHWAQENSVDGDFKSLCENPRAK**Q****Y****I****I****G****E****L****T****K**IGKEKKLKG FESIK**A****V****H**
L**D****P****E****P****F****D****I****E****R****D****L****L****T****P****T****Y****K**KKRPQLLKYYQKVIDD MYKNASKPSA

Protein No.: I-1081

Protein name and Species:

Malate dehydrogenase OS=Vitis vinifera

GN=VIT_07s0005g03350 PE=3 SV=1

Accession: tr|F6HZK0|F6HZK0_VITVI

Unused ProtScore: 2.06

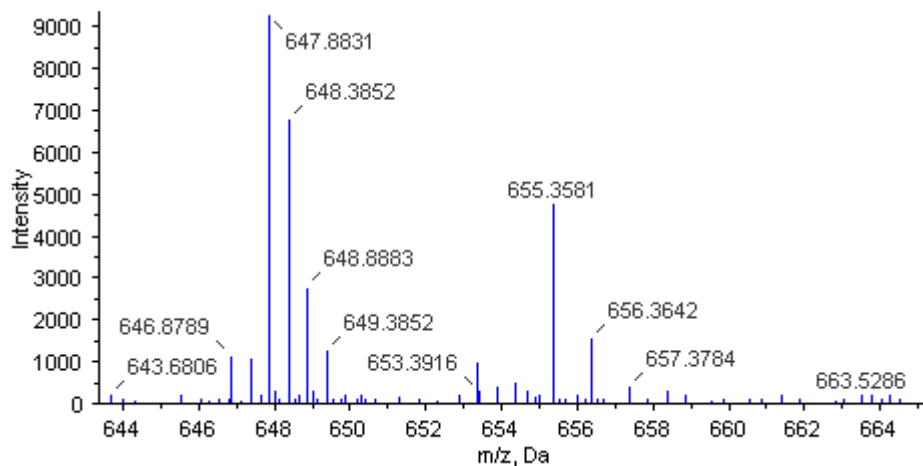
Seq Cov %: 27.4

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.28

116: 114=E5TL: D5TL=0.62

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEDVPRGQTSGLTKSSGTQRRFPLPCSPAIP**TMAK**EPV**RLVTGAAGQIGYALVPMIAR**GVMLGADQP
VIL**HMLDIPPAEALNGVKMELVDAAFPLLK**GVVATTDVVEACTGVNIAVM**VGGFPR**KEGMERKDVMSK
NVSIIYKSQASALE**NHAAANCKVLVVANPANTNALILKEFAPSIPEK**NI**SCLTRLDHNR**ALGQV**SERLNV**
QVSDVKNVLIWGNHSSIQYPDVNHATVKTPAGEKPVRGLVGDDAWLN**GEFITTVQQRGAAI**IK**ARKLSS**
ALSAASAACDHIRDWVLGTPEGTWVSMGVYSDGSYNVPAGLIYSFPV**TCCAGEWKIVQGLHIDEFSR**KK
LDLTAQELSEEKELAYSCLS

Protein No.: I-1082

Protein name and Species:

Aspartyl aminopeptidase-like protein OS=Populus trichocarpa

GN=POPTRDRAFT_835204 PE=3 SV=1

Accession: [tr|B9IF79|B9IF79_POPTR](#)

Unused ProtScore: 2.06

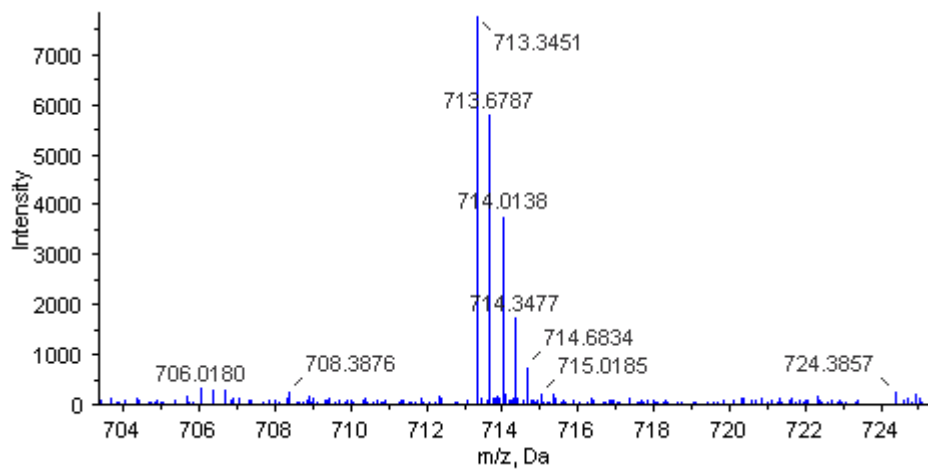
Seq Cov %: 8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.05

116: 114=E5TL: D5TL=1.06

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANNNKEQEYCVASDLIDFLNASPTAFHAVEEAKRRLKNAGYEQVSERHDWKLEAGKRYFFTRNHSTIL
AFAIGKKYVAGNGFYIVGAHTDSPCLKLKPVSKVTKGGFLEVGVQTYGGGLWHTWFDRDLTVAGRVIIVK
EEKDGLVSYSHRLVRIEPPIMRVPTIAIHLERTVNTDGFKVNTQSQQLLPVLATSIKAE LNKAAAENGPV
KSEEVQADGKKSDKGTISSKHSLVLEMIANQIGCKVDDICDFELQACDTQP SLIAGAAKEFIFSGRLD
NLCSSFCSLKALIDATSSSESDLEDESGV RMVALFDHEEIGSDSAQGAGSPVMLDALSRITSSFN SDSL
LPKAIQKSFLVSADMAHALHPNYMDKHEENHQPKLHGGLVIKHANQR YATNAIT SFLFREIATKHDL P
TQDFVVRNDMGCSTIGPILASGVGIRTVDVGAPQLSMHSIREMCSVDDVKYSYEHFKAFFQDISHLDA
KITVDM

Protein No.: I-1085

Protein name and Species:

L-allo-threonine aldolase, putative OS=Arabidopsis thaliana

GN=T27C4.17 PE=4 SV=1

Accession: tr|Q9M835|Q9M835_ARATH

Unused ProtScore: 2.06

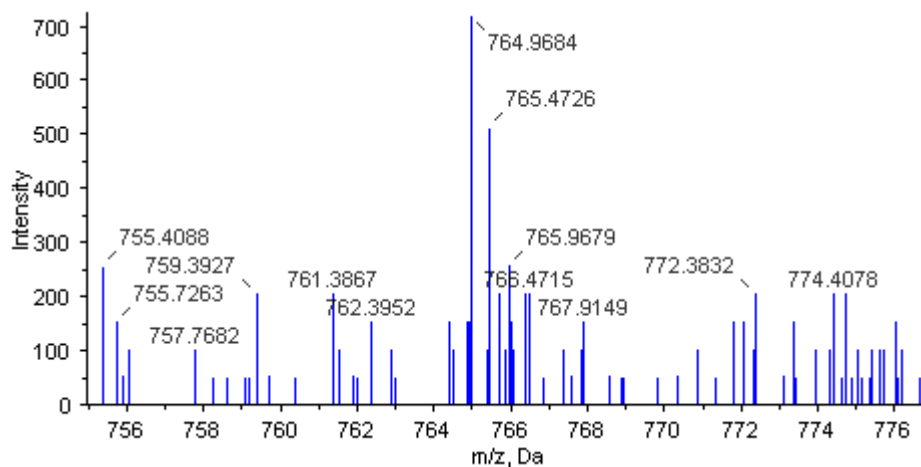
Seq Cov %: 7.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.58

116: 114=E5TL: D5TL=1.04

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVTPTTIIRTVDLRSDTVTKPTESMRSAMANAQVDDDDVLGNDPTALRLEKEVAE IAGKEAAMFVPSGTMG
NLISVLVHCDEERGSEVILGDDSHIHIYENGGVSSLGGVHPRTVKNEEDGTMEIGAIEAAV RSPKGLHH
PVTKLICLENTQANCGGRCLPIEYIDKVGELAKKHGLKLHIDGARIFNASVALGVPVKRIVQAADSVSI
CLSKGIGAPVGSVIVGSKFITKARWLRKTLGGMRQIGVLCAAALVALHENVAKLEDDHKKARVLAEG
LNRIERLRVNVAAVETNIVNPKFGAEEACKSLEDVGVLVIPQATFRIRIVLHHQISDVDVEYVLSCFEV
CSLLSSTDMCFDIFNFFATLYSFID

Protein No.: I-1120

Protein name and Species:

Exportin-1 OS=Solanum lycopersicum GN=Xpo1 PE=2 SV=1

Accession: [tr|D1MAF2|D1MAF2_SOLLC](#)

Unused ProtScore: 2.03

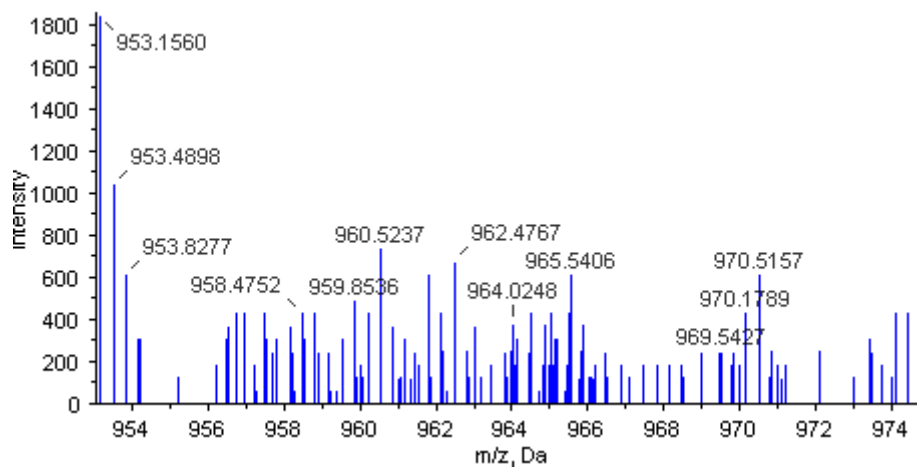
Seq Cov %: 10.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=4.17

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAAEKLR**DLSQPIDVSLLDATVAAFYGTGSK**ERAAADHILRDLQNNPDMWLQVVHILSSTQSLN**TKFF**
ALQVLEGVIKYRWNALPVEQRDGMKNYISEVIVKLSSEASLRERERLY**ISK**LNIIILVQILKHEWPARWR
SFIPDLVAAAKTSETICENCMAILKLLSEEVDFSRGEMTQQKIKELKQSLNSEFQLIHELCLYVLSVS
HRTELIRATLTLHAFLSWIPLGYIFESTLLEILLKFFPLPSYRNLTQCLTEVAALNFGDFYNEQYIK
MYTIFMGQLQSVLPPNTSIPEAYANGSNEEQAFIQNLALFFTSFFKSHIRVLESSQENIGALLVGLLEYL
INISYVDDTEVFKVCLDYWNSLVLELFEAAHHNLDNPAMTTNMMGLQMPLLSGMNDGLGAQLMQR**RQLY**
SGPMSKLRLLMISR**MAKPEEVLIVEDENGNIVR**ETMK**DNDVLVQYK**IMRETLIYLSHLDHDDTEKQMLK
KLSNQLNGEDWSWNNLNTLCWAIGSISGSMVEEQENRFLVMVIR**DLLNLCEITK**GKDNK**AVIASNIMYV**
VGQYPRFLRAHWKFLKTVVNKLFEFMHETHPGVQDMACD¹FLKIVQKCKRKFVVVQVGENEPPVSELLT
TLPTTIADLEPHQIHTFYESVGQMIQAEPDPQK**RDEYLQRLMELPNQRWNEIIGQARQSV**DYLDQDVI
RAVLN**ILQ**TNTSAASSLGTYFLPQISLIFLDMLNVYR**MYSELISTSIAQGGPYASRTSIVK**LLRSVKRE
TLK**LIETFLDKAEDQSHIGKQFVPPMMDPVLGDYAR**NVPDARESEVLSLFATIINKYKGAMIEDVPRIF
EAAFQCTLE**MITKNFEDYPEHRLKFFSLLR**AIATHCFAALIRLSSEQLKLVMSI IWAFRHTERNIAET
GLNLLAMLKNFQNSEFANQFYRTYYLTIEQEIFAVLTDTFHKPGFKLHVVLVQLHLFCMVVMLSEPLWD
ASTVPCSYPNNVEFVREYTIKLLSTSFPMNTAAEVTQFVSGLFDSTNDLPTFKNHIRD²FLVQSK**EFSAQ**
DNKDLAEEAAAQRERERQRMRSIPGLIAPNEIQDEMVD³S

Protein No.: I-1121

Protein name and Species:

Glucose 4-6-dehydratase, putative OS=Ricinus communis

GN=RCOM_0464520 PE=4 SV=1

Accession: tr|B9SR17|B9SR17_RICCO

Unused ProtScore: 2.03

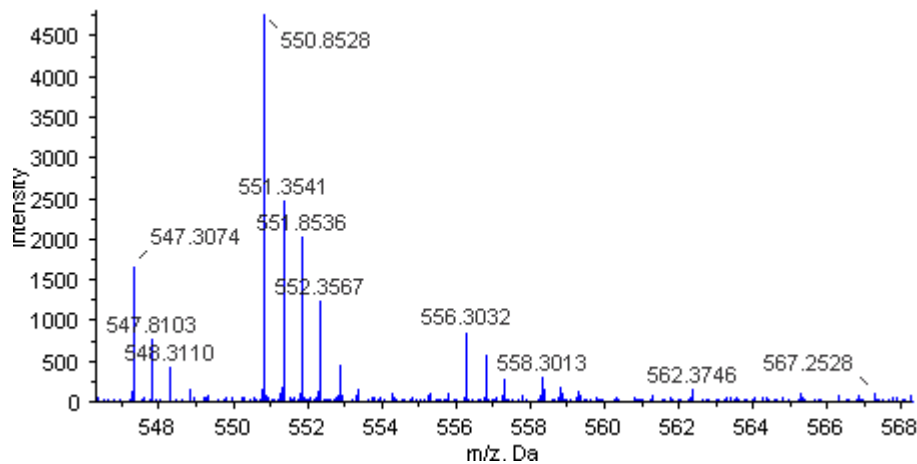
Seq Cov %: 25.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.13

116: 114=E5TL: D5TL=0.82

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKEVSNGDHSSASKPPPTPSPLRFSKFFQSNMR **ILVTGGAGFIGSHLVDK**LMENEK**NEVIVVDNYFTG**
SKDNLKKWIGHPRFELIRHDVTEPLLIIEVDQIYHLACPASPIFYKYNPVKTIK**TNVIGTLNMLGLAKRV**
GARILLTSTSEVYGDPLVHPQEESYWGNNPIGVRSCYDEGKR**VAETLMFDYHRQHGI**EIRIAR**IFNTY**
GPRMNIDDGR**VVSNFIAQAVRNEPLTVQAPGTQTRSF**CVSDMVDGLIR**LMEGENTGPINIGNPGEFTM**
LELAETVKELINPDVEIAKVENTPDDPRQRKPDITKAKELLGWEPKIKLR**DGLPLMEDDFR**LRLGVPRK
K

Protein No.: I-1130

Protein name and Species:

copper transport protein [Arabidopsis thaliana]

OS=Arabidopsis thaliana PE=4 SV=1

Accession: tr|Q8LCK3|Q8LCK3_ARATH

Unused ProtScore: 2.03

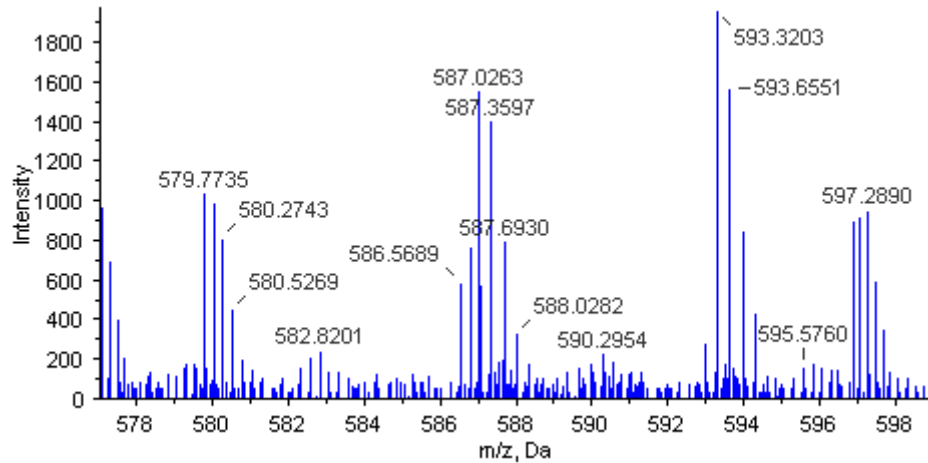
Seq Cov %: 23.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.42

116: 114=E5TL: D5TL=0.88

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAQKVVLLK**VL****TM****TD****DK**TKQK**A****I****E****A****A****A****D****I****F****G****V****D****S****I****A****A****D****M****K****D****Q****K****L****T****V****I****G****L****M****D****A****V****A****V****V****K****K****L****K****K****V****G****K****V****D****L****I****S****V**
G**P****A****K****E****E****K****K****E****E****K****K****E****E****K****K****E****K****K****E****K****K****E****E****K****K****E****E****K****K****E****E****E****P****K****K**

Protein No.: I-1136

Protein name and Species:

V-type H⁺-transporting ATPase subunit I; At2g21410/F3K23.17

OS=Arabidopsis thaliana GN=VHA-A2 PE=2 SV=1

Accession: tr|Q9SJT7|Q9SJT7_ARATH

Unused ProtScore: 2.02

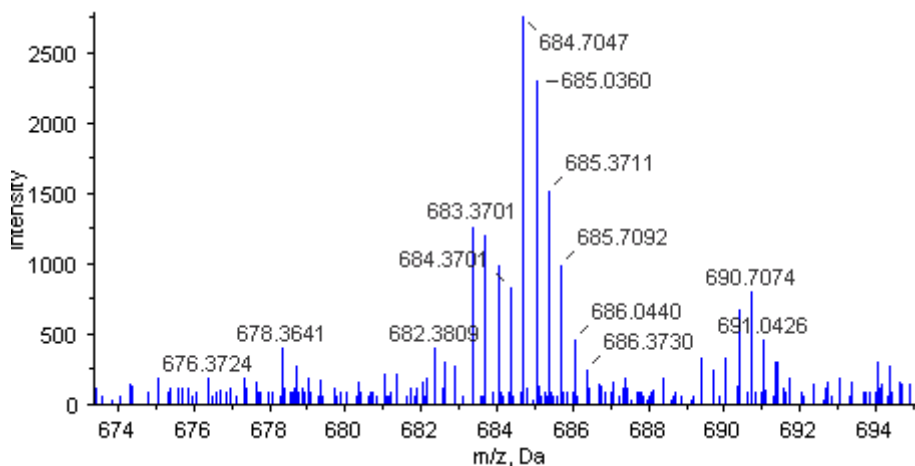
Seq Cov %: 3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.51

116: 114=E5TL: D5TL=1.13

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAESHGGGGCCPPMDLMRSEPMQLVQVIVPMESAHLTVSYLGDLGLVQFKDLNSEKSPFQRTYAAQIK
RCGEMARKIRFFKEQMSKAGVTPKETLDRENDIDLDDVEVKLEEELEAEELVEINANNDKLQRSYNELVEY
KLVLEKAGEFFASAHRSATAQQSEIETEQVGEDLLEAPLLQEEKSVDPTKQVKLGFLTGLVPREKSMVF
ERILFRATRGNIFIRQSVIEESVVDPNNGEKAENFVVFYSGERAKSKILKICEAFGANRYPFSEDLG
KQAQMMTEVSGRLSELKTTIGAGLDQRNILLETTIGDKFEQWNLKIRKEKAIYHTLNMLSLDVTKKCLVG
EGWSPVFAATEIQDALHRAAVDSNSQVGSIFQVLRTEKMPPTFFRTRNKFTTAFQEIVDAYGVAKYQEAN
PSVFTIVTFPFLFAVMFGDWGHGICLLLATMYLILREKKLSSQKLGDIMEMAFGGRYVIFMMSLFSIYT
GLIYNEFFSIPYPLFASSAYDCRDVSCSEATTIGLIKTRDTPFGVDPVWHGTRSELPLNSLKMMSI
LIGVAQMNLGIIMSFFNAKFFKSAVNIWFQFVPMIFLNCLFGYLSVLI I IKWCTGSQADLYHVMIMYF
LSPMDDLGENQLFPNQKIVQLTFLFLALVSPWMLLPKPFILKKQHEARHQGLSYAQLDETDESLOVET
NGGGHGHEEFSEIFVHQLIHTIEFVLGAVSNTASYLRLWALS LAHSELSSV FYEKVLLMAWGFNNVF
IWIVGILVFI FATVGVLLVME TL SAFLHALRLHWVEYQNK FYEGDGYK FAPFTFTLVGNEDE

Protein No.: I-1137

Protein name and Species:

Translation elongation factor OS=Populus trichocarpa

GN=POPTRDRAFT_814408 PE=3 SV=1

Accession: tr|B9IF97|B9IF97_POPTR

Unused ProtScore: 2.02

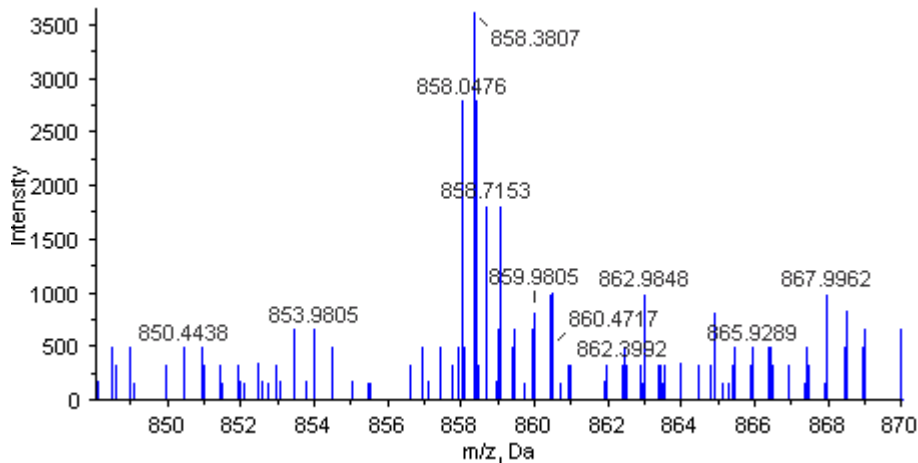
Seq Cov %: 26.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAVTFYDLTSAAGLK~~KLDDFLLSR~~SYISGYQASKDDLTVYSALSSAPSAEHVNVYRWYTHIDALLRISG
VEAEGCGVVVKGSAPITEEAIATPPSAETKAAEDDDDDVDLFGEEETEEKKAAEERAATVKAASKKKE
SGKSSVLLDVKPWDEETDMK~~KLEEAVR~~SVEMEGLLWGASKLVPVGYGIK~~KLTI~~MLTIVDDLVSVDTLIE
ERLTTEPINEYVQSCDIVAFNKKGSR

Protein No.: I-1155

Protein name and Species:

**Galactinol-sucrose galactosyltransferase OS=Populus
trichocarpa GN=POPTRDRAFT_762165 PE=4 SV=1**

Accession: tr|B9HA87|B9HA87_POPTR

Unused ProtScore: 2.01

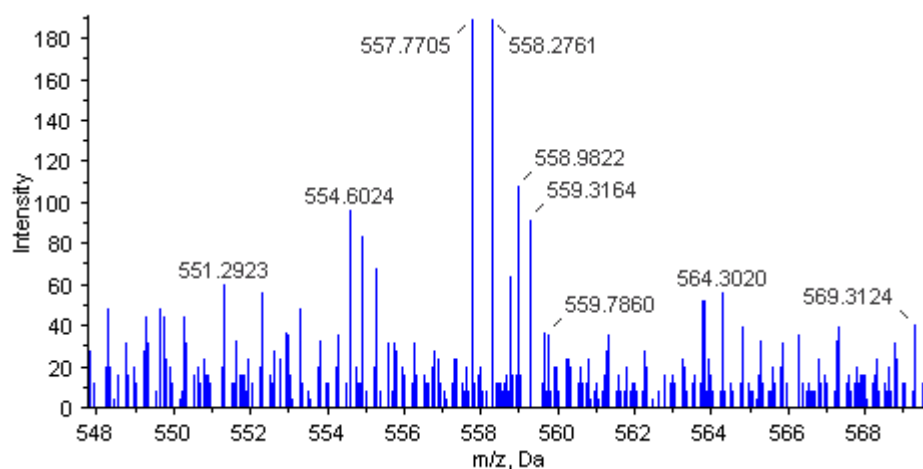
Seq Cov %: 8.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=11.07

116: 114=E5TL: D5TL=3.94

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTIKPAVR**ISDGKLI**VKDRTILTGVPDNVIATSGSTSGPVEGVFLGAVFDQENSRHVTSLGALRDVRFM
ACFRFKLWWMQAQKMGDQGR**DIPLETQFLLVETK**DGSHLESDDGDEDNQVVYTVFLPLIEGSFRAQLQGN
VSDELELCLLESQDAETKTSSFTHTLFIHAGTDPFRITITEAV**RAVK**LHLKTFRQRHEKRLPGIIDHFGWC
TWDAFYQEVTQEGVEAGLQSLASGGTPPKFVIIDDGWQSVGGDPEEETNGQDVKKQDQQPLLRLTGIKE
NAKFQKKDDPAAGIKSIVNIAKEKYGLKYVYVWHAITGYWGGVRPGVKEMEEYGSMMKYPMVSKGVVEN
EPIWKNDALTLQGL**L**VNPKNVYRFYNELHSYLAAGIDGVK**VDVQCILETLGAGLGGR**VELTR**QYHQA**
LDASVARNFLDNGCIACMSHNTDALYCSKQTAVVR**ASDDFYPR**DPVSHTIHIAAVAYNSVFLGEFMQPD
WDMFHSLSHAAAHEYHASAR**AI**SGGPIYVSDAPGKHNFELLKK**VVLPDGSILR**ARLPGRPTSDCLFSDPAR
DGVSLKLIWNMNKFTGVLGVYNCQGAAWSSTERKNAFHQTTTEALTGTIRGRDVHLVAEAATDPNWDGN
CAFYCHRTGELITLPYNAALPVSLK**VLEHDIFTVTPIK**VLAPGFSFAPLGLINMFNAGGAIEGLKYEVK
GKVCVEVK**GCGK**FGAYSSAKPRKCIVDSNVVDFVYDSNSGLVGFNLDLSLLEEGKLRIVEIEL

Protein No.: I-1157

Protein name and Species:

Pyrophosphate-energized membrane proton pump 3 [Vitis vinifera] OS=Vitis vinifera GN=VIT_09s0054g00700 PE=3 SV=1

Accession: tr|D7SS21|D7SS21_VITVI

Unused ProtScore: 2.01

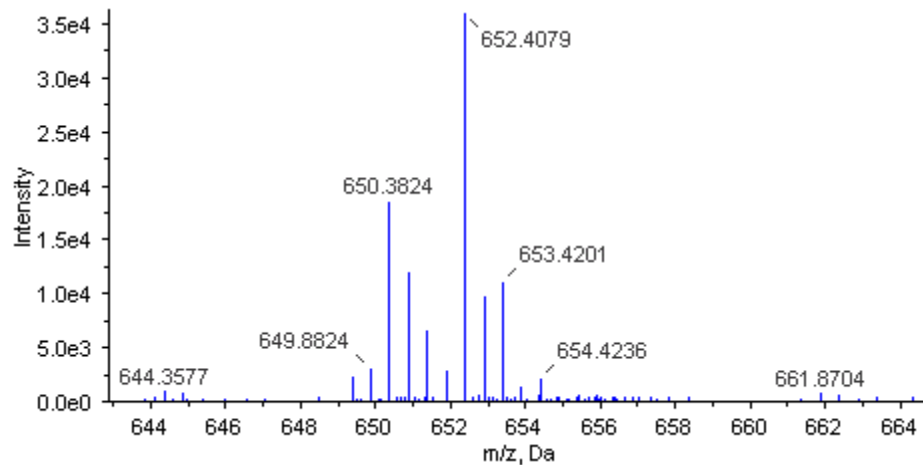
Seq Cov %: 3.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.60

116: 114=E5TL: D5TL=1.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDDDVESGALGPYQDKPR**IFPNMR**SKSYTPLIFRIFMGINVRVLFVLLLLLGLGAVFYVGARTSPILV FV
FSVCIISFLLSVYLTWKVWLAKDEGPPEMAQISDAIRDGAEGFFRTQYGTISKMAMLLALVILSIYLFRS
TTPQQESSGIGRSTTAYITVA AFL LGALCSGIAGYVGMWVSVRANVRVSSAARRSAREALQI A VRAGGF
SALVVVGM A VIGVAILYATFYVWLGVDSTGSMKVTDLP LLLVGYGFGASFVALFAQLGGGIYTK**AADV G**
ADLVGKVEQGIPEDDPR**NPAVIADLVGDNVGDCAAR**GADLFESIAAEIISAMILGGTMAQRCKIEDPSG
FILFPLVIHSFDLVISSVGIF SIRGTRDSGVKSPVEDPMAILQKGY SITIILAVLTFGLSTRWLLYTEQ
APSAWMNFALCGLVGIMTAYVFWWITKYYTDYKHEPVRTLALSSSTGHGTNI IAGVSLGLESTALPVIV
ISISIVSAFWLGQTSGLVDETGNPTGGLFGTAVATMGMLSTAAYVLTMDMFGPIADNAGGIVEMSQQPE
SVREITDLLDAVGNTTKATTKGFAIGSAALASFLLF SAYMDEVSAFAHEPFKQVDIAIPEVFVGGLLGS
MLIFLFSAWACSAVGRTAQEVVNEVRRQFIERPGIMDYKEKPDYGR CVAIVASASLREMIKPGALAIVS
PIVVGFLFRILGYTGHPLL GAKVVASMLMFATVAGILMALFLNTAGGAWDNAKKYIETG**ALGGK**GSDA
HK**AAVTGDTVGDPFKDTAGP**SLHVLIKMLATITLVMAPVFL

Protein No.: I-1171

Protein name and Species:

**Glyceraldehyde-3-phosphate dehydrogenase OS=Dimocarpus
longan PE=2 SV=1**

Accession: tr|C0LDX2|C0LDX2_9ROSI

Unused ProtScore: 2

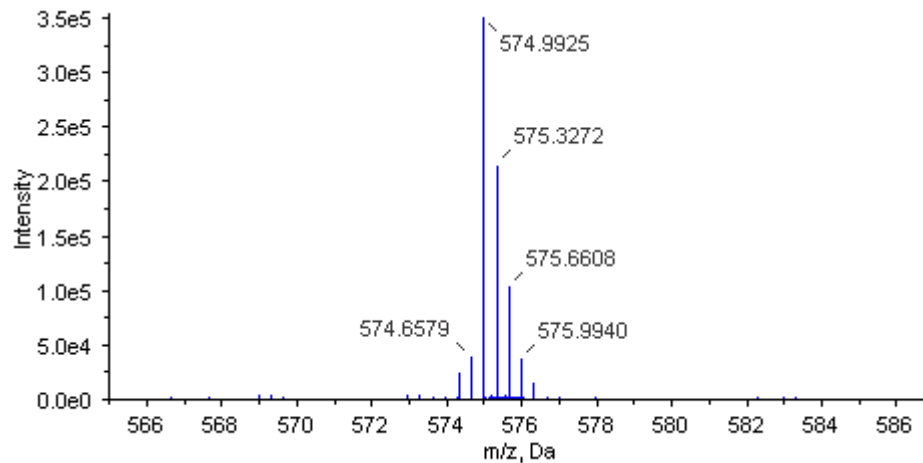
Seq Cov %: 33.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.22

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGKIK**IGINGFGR**IGRLVARVILQSDDELVAVNDPFIDTTYMTYMFKYDSVHGPWKHHELKVKDSK**TL**
LFGEKAVTVFGIR**NPEEIPWQETGAEYVVESTGVFTDK**E**KAAHLK**GGAK**KVVISAPSK**DAPMFVVGVN
E**HEYKPEIDIVSNASCTTNCLAPLAK**VINDK**FGIVEGLMTTVHSITATQK****TVDGPSMK**DWRGGR**AASFN**
IIPSSTGAAKAVGKVLPSLNKLTGMAFRVP**TVDVLVVDLTVRLEKKASYDEIKAAIKEAADGKLGIL**
GYTEDDVVSTDFVGDNRSSIFDAKAGIALNDFVVKLVSWYDNEWGYSSRVVDLIRHMAKC

Protein No.: I-1172

Protein name and Species:

Ras-related protein Rab7 OS=Populus trichocarpa

GN=POPTRDRAFT_712938 PE=2 SV=1

Accession: [tr|A9P8Q6|A9P8Q6_POPTR](#)

Unused ProtScore: 2

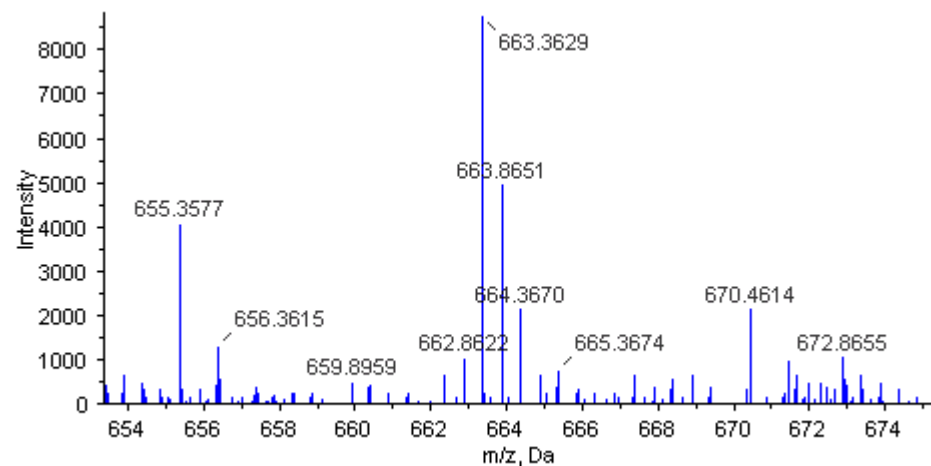
Seq Cov %: 73.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=1.21

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MPSRRRTLLKVIILGDSGVGKTSLMNQYVNK**KFSNQYK**ATIGADFLTKEVQFEDRLF~~TLQIWD~~TAGQER
FQSLGVAFYRGADCCVLVYDVNSMK**SFDHLNNWR**EEFLIQASPSDPENFPFVVLGNKVDVDGGNSRVVS
EKKARAWCASKGNIPYFETSAKEGVNVEEAFQCIAKNALKSGEEEEIYLPDTIDVGSSSQPRSTGCEC

Protein No.: I-1173

Protein name and Species:

Heat shock protein 80 (Fragment) OS=Euphorbia esula PE=2

SV=1

Accession: tr|Q9M5X2|Q9M5X2_EUPES

Unused ProtScore: 2

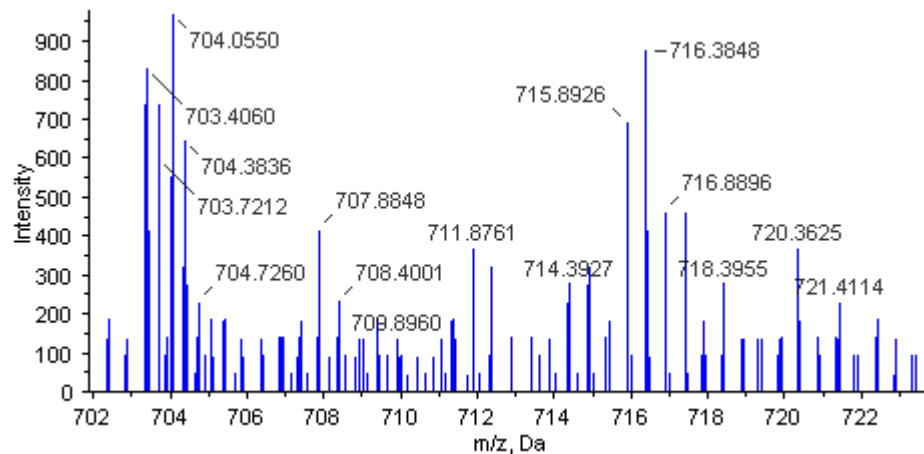
Seq Cov %: 40.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.22

116: 114=E5TL: D5TL=1.02

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

VKVI RKNLVKKCIELFQEI AENKEDY NK **FYESFSK**NLKL **LG IHEDSQNK**TK **LAELLR**YHSTK **SGDEMTSL**
KDYVTRMK**EGQSDIYYITGESK****KAVENSPFLEK**LKKKG YEVLF **MVDAIDFYAVGQLK****EFEGKK****LVSATK**
EGLKIDESEDEKKKKDELKEQ **FEGLCK**VIKDVLGDRVEK **VVVS DR****VVDS PCCLVTGEY****GWTANMER**IMK
AQUALR **DSSMAGYMSKK****TMEINPENPIMDEL****LRK**RADADKNDKSVKDLVLLLFETALLTSGFSLDDPNTF
GNRIHRMLK **LGLSIDEDAGEGDADMPAL****EEADADAEGSK****ME**EVD

Protein No.: I-1179

Protein name and Species:

Coatomer subunit gamma OS=Populus trichocarpa

GN=POPTRDRAFT_821185 PE=3 SV=1

Accession: tr|B9HRP1|B9HRP1_POPTR

Unused ProtScore: 2

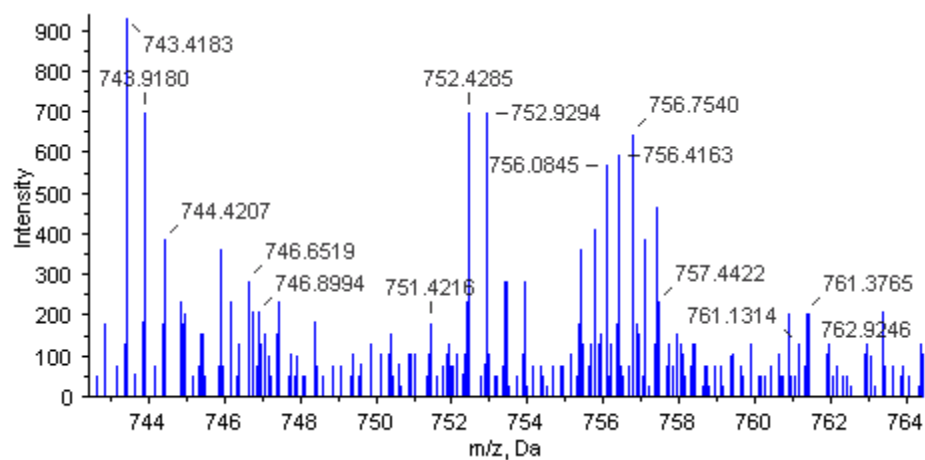
Seq Cov %: 11.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.58

116: 114=E5TL: D5TL=0.71

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAQPLVKKDDDDHDEAEYSPFLGIEKGAVLQEARVFNDPQLDPRRCSQVITKLLYLLNQGDYFTKTEAT
EVFFSVTKLFQSKDFGLRRMVYLI I IKELSPSADEVIIIVTSSLMKDMNSKTDMYRANAIRVLCRITDGTL
LTQIERYLKQAIVDKNPVVASAALVSGIHLLQTNPEIVKRSNEVQEAVQSRAALVQFHALALLQQIRQ
NDRLAVSKLVTSLTRGTVRSPMAQCLLIRYASQVIRE SANTQTGDRPFYDFLESCLRHK AEMVIFEAR
AITELSGVTNRELTPAITVLQLFLSSSKPVLRF AAVRTL NKVAMTHPMAVTNCNIDMESLISDQNR SIA
TLAITTLK TGNESVDR LMKQITNFMSDI ADEFK IVVVEAIR SLCLKFPLKYRSLMNF LSNILREEGG
FEYKKAIVDSI VILIR DIPEAKESGLLHLCEFI EDCEFTYLS TQILHFLGIEGPKTTDP SKYIRYIYNR
VHLENATVRAAAVSTLAKFGAMVDALKPR IFVLLRRCIFDS DDEVDRDRTTLYLSTLGGDGEVVETDRDT
KTFLFGDLDIPLVNLETSLK NYEPSEEPFDIDSVPK EVKSQPLAEKKAPGK KPTGLGAPPAGPPSTVDA
YERLLSSIPEFSDFGK PFK SSAPVELTEAET EYAVNVVK HIFDRHVVFQYNCTNTIPEQLLENVSVIVD
SSEADNFAEVASKPLRSLPYDTPGQTFVAF EKPKGITAVGKFSNTLRFIVKEVDPTTGEAEEDGVEDEY
QLEDLEVVAADYMMK VGVSNFR NAWESMGDEF EHVDEYGLGPRENLAEAVIAVINLLGMQPCEGTEVVA
TNSRSHTCLLSGVFLGNVRV LARLQFGIHGSRDVAMKLAVRSEDEAVSDTIHEIVSSG

Protein No.: I-1180

Protein name and Species:

Actin-like protein (Fragment) OS=Eperua grandiflora GN=Act

PE=3 SV=1

Accession: tr|D5K0Z8|D5K0Z8_9FABA

Unused ProtScore: 2

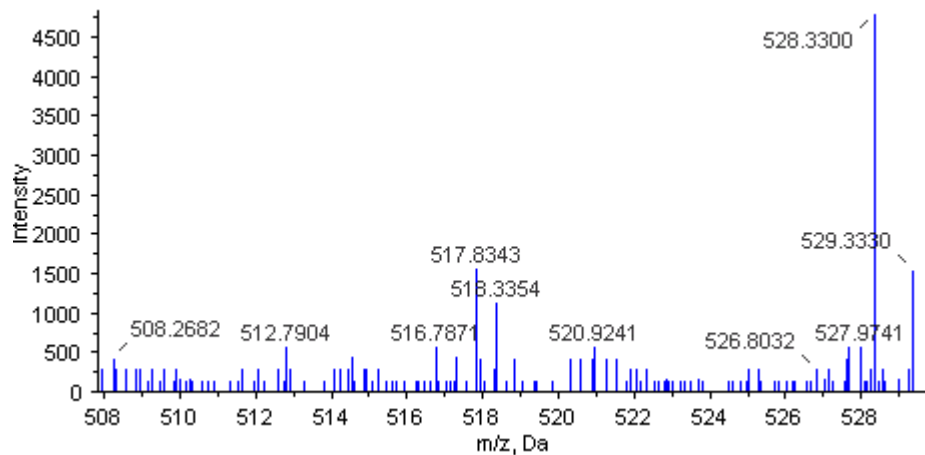
Seq Cov %: 37

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

FNAPAMYVAIQAVLSLYASGR**TTGIVLDSGDGVSH**TVPIYEGYALPHAILR**LDLAGRDLTDALMKILTE**
RGYSFTTTAEREIIVRDMKEKLAYIALDYEQLETSKTSSAVEK**SYELPDGQVITIGNER**FRCPEVLFQP
SMIGMEAA

Protein No.: I-1186

Protein name and Species:

Luminal-binding protein 5 OS=Populus trichocarpa

GN=POPTRDRAFT_570800 PE=3 SV=1

Accession: tr|B9I7J3|B9I7J3_POPTR

Unused ProtScore: 2

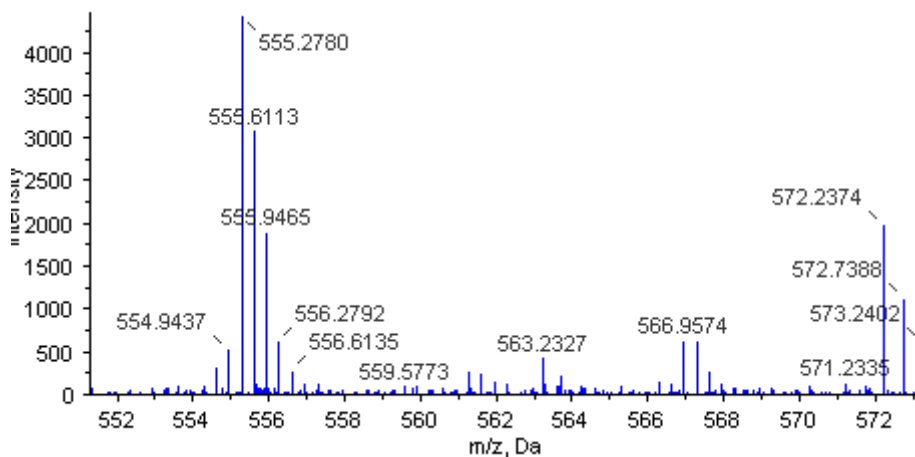
Seq Cov %: 8.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MRVKHKAFAFLFLFVSEYYFLGLVVAADDGPKLGTVIGIDLGTTYSCVAVSR**DGHVEIANDQGNR**VT
PSWVAFTDTERLIG**EAAK**NQAPMNPERTI**FGVK**RLIGRKFDDPEVQRDIKFLPYKVVNKDGKSYIQVKV
KGETKVFSPPEISAMILGKMKETAESYLGKK**IKNAVVTVPAYFNDAQR**QATK**DAGIIAGLNVPRIINEP**
TAAAIAYGLDKKGGDMNILVYDLGGGTFDVSILTIDNGVFEVLSTSGDTHLGGEDFDQRLMDYFINLVK
KKYNKDMSKDKKALGKLRRECERAKRALSSQHQVRVEIESLIDGIDFSEPI**TRARFEELNMDL**FKKTLG
IVKK**AMDDAGL**KKADIKEIVLVGGSTRIPKVQEMLKEYFDGKEPNK**GVNPDEAVAYGAAVQGGILS**GEG
GEETKGLLLLDVTPLSLGIETVGGVMTKLIPR**NTVIPTK**KSQIFTTYQDQQTTSIKVYEGERSLTKDC
RELGR**FDLSGIP**PARGVP**QIEVTFEVDANGILHV**KAEDKAAKKSQS**ITITNDKGRLSQE**EIDRMVK**EA**
EEMAEEDKKVREKIDARNKLETYIYNMRSTINDKDKLADKIDSDDKERIETALKEALEWLDNQN**AEKD**
DYEEKLKEVEEVCD**PVIK**QVYEKSGSSADSEYEEPND**EL**

Protein No.: I-1188

Protein name and Species:

Glyceraldehyde 3-phosphate dehydrogenase (Fragment)

OS=Mallotus pierrei GN=G3pdh PE=3 SV=1

Accession: tr|B2X0F6|B2X0F6_9ROSI

Unused ProtScore: 2

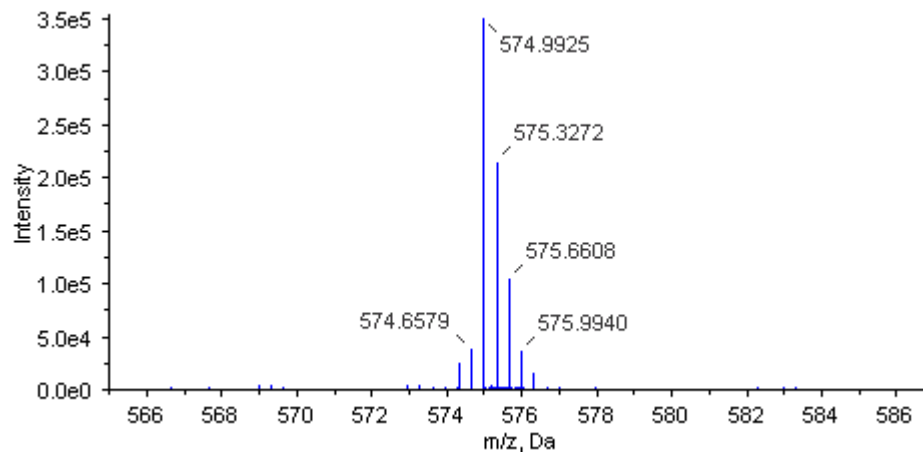
Seq Cov %: 45.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

VXSITATQK**TVDG**PSMKDWRGGR**AASFNIIPSSTGAAKAVGK**VLPSLN**GL**LGMSFRVPTVDVSVVDLT
VRL**E**KEASYDDIK**TAIKEESE**SGK**L**KGILGYTED

Protein No.: I-1191

Protein name and Species:

Myosin-Vb-like [Vitis vinifera] OS=Vitis vinifera

GN=VIT_13s0320g00070 PE=4 SV=1

Accession: tr|F6GZ28|F6GZ28_VITVI

Unused ProtScore: 2

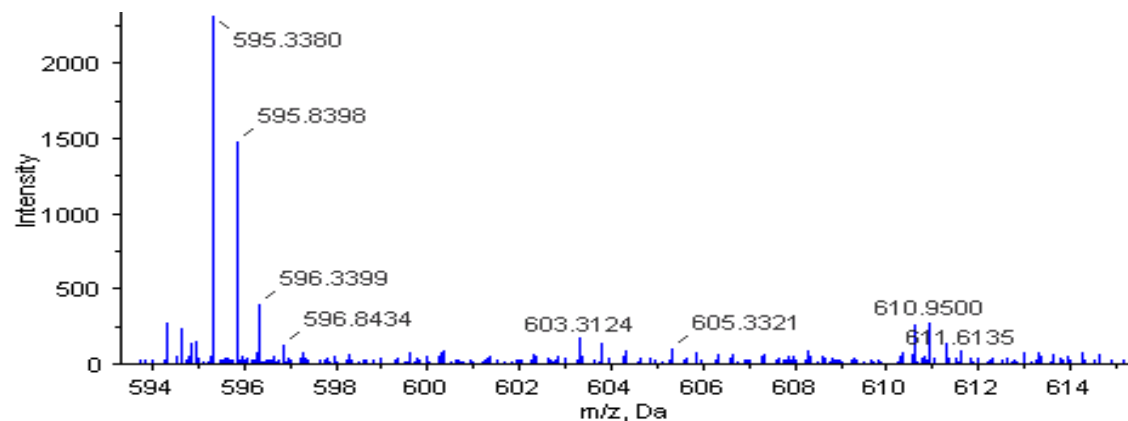
Seq Cov %: 2.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.58

116: 114=E5TL: D5TL=1.98

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MIKGTVPVNIIVGSHAWAEDPDAAWIDGEEVIGIEGRNATIVTTDGKTIVADISNIYPKDTEAPPAGVDDM
TKLAYLHEPGVLHNLASRFALNEIYTYTGNILIAVNPFRQLPHLYDIHMMGQYKGAAFGE LSPHLFAVA
DTCYRAMINEQK**SQSILVSGESGAGK**TETTKMLMRYLAFMGGRSGTEGR**TVEQQVLESNPVLEAFGNAK**
TVKNNNSSR**FGKFVEIQFDKHGK**ISGAAVRTYLLERSR**VCQVSDPER**NYHCFYMLCAAPPEDVKKFKLG
DPRSFHYLNQTNQYEVANVNDAREYLETRNAMDVVGISQDEQDAIFRVVAAILHLGNIGFIKKE**ADSS**
KLKDEKALYHLRTAAELLMCDEK**ALED**SLCQRVIVTPDGNITKPLDPLAVFSRDALAKTVYSR**LFDWI**
VDKINSSIGQDPNATSIIIGVLDIYGFESFKINSFEQLCINLTNEKLQQHFNQHVFKME**QEEYK**REEINW
SYVEFIDNQ**DVLDLIEK**KPGGIIALLDEACMFPKSTHETFAQKMYQTYKGHKRFSPKPLARTDFTINHY
AGDVIYQADQFLDKNK**DYVVAEHQALLNASK**CPFFVANLFPLLSE**EASK**QSKFSSIGTRFKQQLQALMET
LSTTEPHYIRCVPNAVLKPAIFENFN**LNQLR**CGGVLEAIRISCAGYPTKRTFDEFFDRFGMLAPDVL
DGADEKSACIAICDRMGLKGYQIGKTKVFLR**AGQMAELDARTEVLANAAR**RIQRQIQTHLTRKEFIRQ
RRATIHMQKLWRAQLARKLYESMRREAASVCVQKNVR**AHTAR**RNYTNLQASAMAIQTGLRAMAARNEFR
YRRRTKAATLIQTQWRGFQAFSAYNQKKATLTLQCLWRGRAARKELRKL RMAAR**ETGALK**EAKDKLEK
RVEELTWR**LEFEK**HLRIDVEEAKGQEISKLQNALLEMQVQLEEAHAAIIREK**EAAK**IAIEQAPPVLKEV
PVVDNTKMDLLKNQNEELEGEVSELKKMVAEFEQKYCEAQKENTARLKEAEE SFTRTSQLQETIERLEL
NLSNLEAENQVLRQALVASTNEDLF**EEMK**ILKDKIANLESENEVLRNQPTSIEQVAALERVPPQVKSF
DNGHKMEEELQTTKELVPFAPILTKQRSLTDRQQENHDVLIK**CLMEDKRFDK**NRPVAACIVYKALLQWR
SFEAEKTNIFDRIIHTIRSSIESQESISNLAYWLSTTSTLLFLVQSTLKASNTPNVT SFRSRNSPTTLF
GRMAQGLRSSSFPMGVSSGYSGMVGKPNTHSKVEPK**YPALLFK**QHLTAYLEKIYGMIRD SLKK**EISPFL**
NLCIQAPRSTRARSIRGSSKNIHSNIVAKQQASNIHWQNI VNSLDHTL GIMSENHVPSMITRKIFSQVF
SFINVQLFN**LLLLR**RECCSFSNGEYVKAGLQELEQWCFKAKDEFAGSSWDELQHIRQAVGFVLVHQPQ
KFLDDITNELCPMLSIPQIYRIGTMFWDDKYGTHGLSPD**VIGK**MRVLMTEDSINMPNNSFLLDVDSRIP
FSMEEMSRSLIDINLSYVDPPLLRQRSDFFHLLQPTD

Protein No.: I-1195

Protein name and Species:

Fructokinase-5-like [Vitis vinifera] OS=Vitis vinifera

GN=VIT_15s0048g01260 PE=3 SV=1

Accession: [tr|D7U7P5|D7U7P5_VITVI](#)

Unused ProtScore: 2

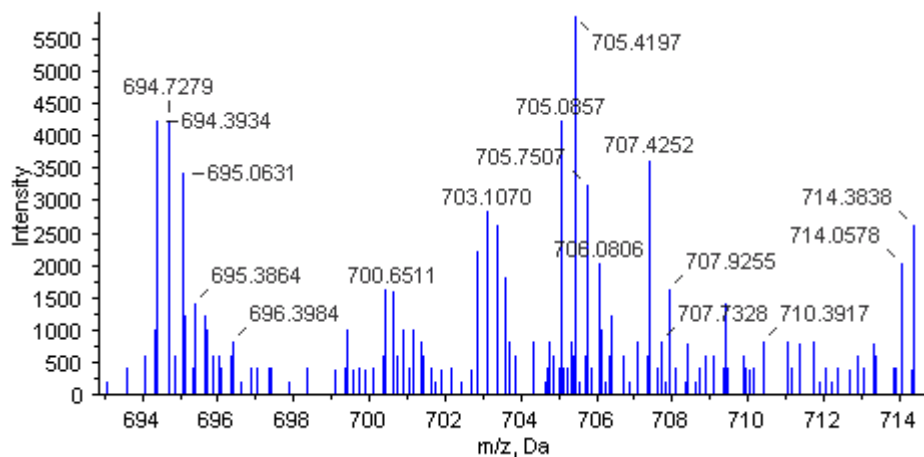
Seq Cov %: 11.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.05

116: 114=E5TL: D5TL=1.05

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSKSNRSK**DDEAR**MSGCCFPVNLDRSMKSGLSFKKSSSGSFKGESQEKRPLVVCFGEMLIDFVPTVGGV
SLSESPAFKKAPGGAPANVAVGISR**LGSSAFIGK**VGEDEFGF**MLADILK**QNNVDSSGMRFDRNAR**TAL**
AFVTLRDDGER**EFMFFR**NPSADMLLRESELDANLIKKASIFHYGSISLIEEPCKSAHLA**AMNIAR**KSGS
ILSYDPNLRPLWSPETARKTIMSIWNQADLIK**ISEEEITFLTGGDDPNDDNVLK**KLYHSNLKLLVV
TEGSNGCRYTTKEFKGRV**TGVKVK**AVDTTGAGDAFVGGILNSLAADLNLYKNEEKLRALLFANACGAI
TVTER**GAIPALPTK**EAVLQILPKANA

Protein No.: I-1196

Protein name and Species:

**Ripening-reduced alpha-L-arabinofuranosidase OS=Carica
papaya PE=2 SV=1**

Accession: tr|C9EA44|C9EA44_CARPA

Unused ProtScore: 2

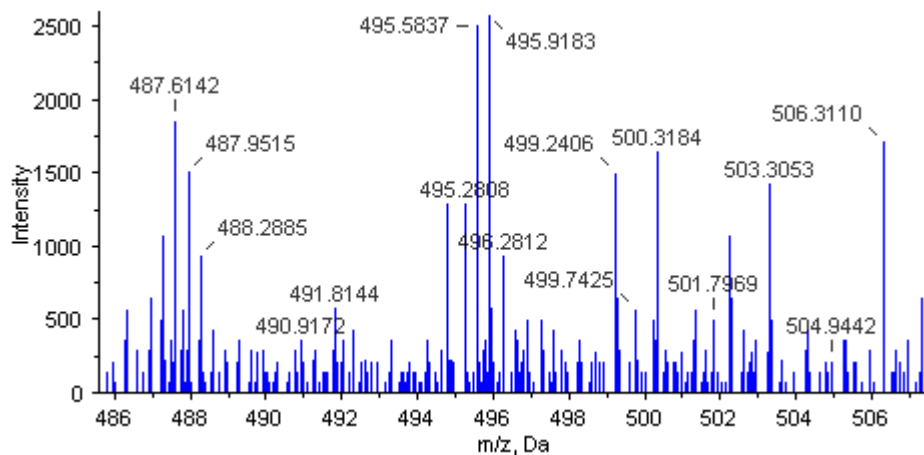
Seq Cov %: 5.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.65

116: 114=E5TL: D5TL=0.53

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MLWADYAKFLCGEVTMSSCKAASSFSSFLCFFLGACCVYQCFALVGVANVTARLIVDASQGASRPMPET
LFGIFFEQEINHAGAGGLWDELVSNRGGFEAGGPNTSPNIDPWSIIGDESSVTVSTERSSCFERNKVAL
R**MEVLCDSR**GANICPSGGVGVYNPGFWGIFLCQNIQGGKYYVLYVVRSPGAIDLVSLSLTSSNGSRTLA
SSNVIASSSDVSNWTKKELLLLEAKGTDPHSRLQLTTARKGVIWLDQVSAMPLDTYKVQGHGFRSDLVEM
LLDIKPRFIRFPGGGCFVEGEWLRNAPFRWKESIGPWEERPFGHFGDVWNYWTDDGLGYFEFLQVGLAEDL
GALPIWVFNNGIGISHNDQVDTSTVLPFVQLQEALDS**IEFAR**GDPDSRWGSVR**AAMGHPEPFDLR**FVAL
GNEDCWKKNYWPGNYLRFYYAIKRAFPDIK**IISNCDGSSR**QLDHPTDYDFHVVYTSSSNLFSMSHKFD
HASRNGPKVW**AFVSEYAVTGK**DAGTGSLLAALAEAGF**LIGLEK**NSDLVEMTSYAPLNVNDRRWNPD
IVFDSYRQYGTSPYWVQQFFAESSGATLLNSTLQIDSTSLIASAISWQDEKADKKYIRINNVNFGSNAV
LRIYVDGMDPNVARLSGLTETVLRSDNVMDENSFENPEKVRLLFLFLENAGEDIEVELSPHSFTS**FDL**
LKEYANIRIAGFDSFSKSST

Protein No.: I-1203

Protein name and Species:

Ras-related protein RHN1-like [Glycine max] OS=Glycine max

PE=2 SV=1

Accession: tr|C6TED4|C6TED4_SOYBN

Unused ProtScore: 2

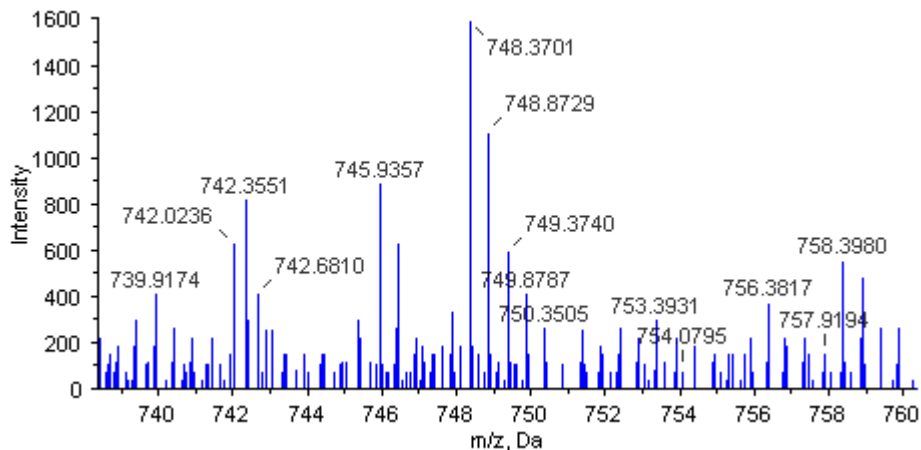
Seq Cov %: 16.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.85

116: 114=E5TL: D5TL=1.08

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATIGHNNLNAKL**VGPS**SLFSISFCFFFLSQSFSIPMMFSPCSFHQVLLGDMGAGK**SSLVLR**FVKGQFL
EFQESTIGAAAF**FSQTLAVNDATVKFEIWDTAGQER****YHSLAPMYR**GAAAAIIVYGITSSDSFTRAK**WV**
QELQKQGNPNMVMALAGNKADLEDKRKVTAAEARVYAEENGLFFMETS**AKTASNVDIFYELAK**RLPRA
QPAQNPAGMVLVDRPAEGTRAASCCS

Protein No.: I-1206

Protein name and Species:

Enolase OS=Helianthus annuus GN=ENO1 PE=2 SV=1

Accession: tr|A9P745|A9P745_HELAN

Unused ProtScore: 2

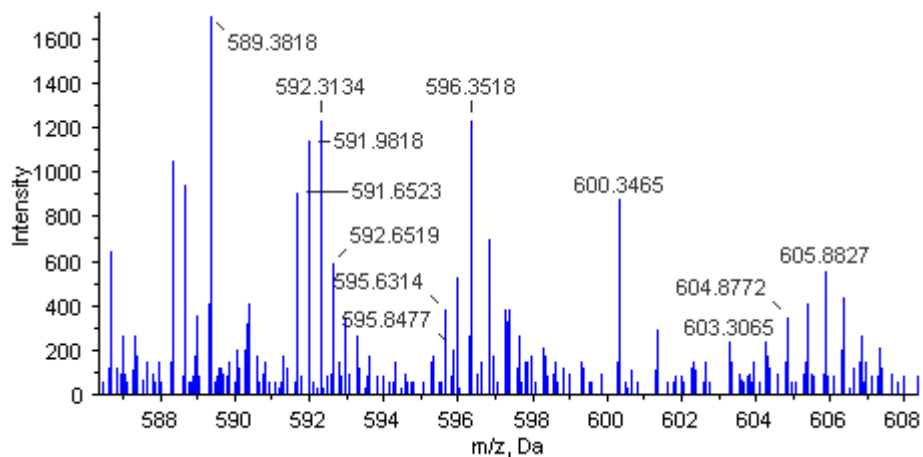
Seq Cov %: 6.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.19

116: 114=E5TL: D5TL=0.23

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MALAPPTTTTSLSNPLLSSKPSLSSPFVNLPTVSRRSPTKFTVRNSVSVAQSPSVSAAKSSTVKSVKAR
QIIDSRGNPTVEVDLVTDGLYR**SAVPSGASTGIYEALRLR**DGDKSVYGGKGVNAVKNINEVLGPKLIG
VDVRNQAEFDGIMLEIDGTPNKSCLGANAILGVSLSACR**AGAGAK**SIPLYKHIQEISGTKELVMPVPAF
NVIINGGSHAGNNLAMQEFMILPVGATSF AEALRMGSEVYHTLKGIIKAK**YGQDACNVGDEGGFAPNVQD**
NREGLVLLIDAIEKAGYTGKIKIGMDVAASEFLTKDGK**YDLNFK**KQPNDGAHVLSAPSLGDLYREFVRD
FPIVSIEDPFDQDDWTSWTSLSQSSVDIQLV**GDDLVLVTPK**RIAEGIQKK**ACNALLK**VNQIGTVTESIQ
AALDSKAAGWGMVSHRSGETEDNFIADLSVGLASGQIKTGAPCRSERLAK**YNQLLR**IEEELGNVRYAG
EAFRSP

Protein No.: I-1207

Protein name and Species:

**Rubber elongation factor protein, putative OS=Ricinus
communis GN=RCOM_1433280 PE=4 SV=1**

Accession: [tr|B9RFA8|B9RFA8_RICCO](#)

Unused ProtScore: 2

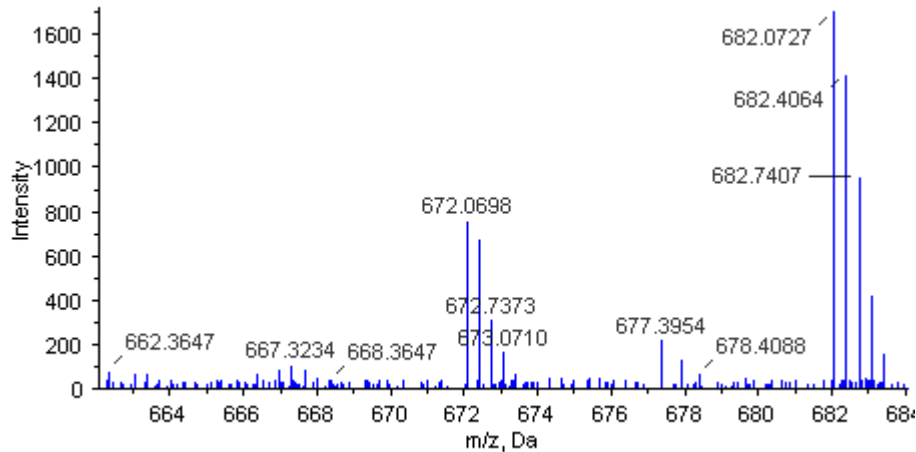
Seq Cov %: 11.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.51

116: 114=E5TL: D5TL=0.72

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAEQNVNLLQQMAKENEERLKYLEFVQVAALHAVMTTFANLYVYAKDKAGPLKPGVETVEGTVKSVVGPV
YDKFHDVPIEVLK FVDRKVDESVTKLDRR VPPVVK QVSAQAYSVAR EAPVAAR AVASEVQRTGVKETAS
GLAKTLYAMYEPKAKELYSKYEPKAEQCAVSAWRKLNQLPLFPQVAQVFVPTAAYCSEKYNQTVVSTAE
KGYRVSSYLPLVPTQKIAQVFRNEVPESAPIASS

Protein No.: I-1210

Protein name and Species:

RNA recognition motif-containing protein [Arabidopsis thaliana]

OS=Arabidopsis thaliana GN=At4g17720 PE=2 SV=1

Accession: tr|Q8LA96|Q8LA96_ARATH

Unused ProtScore: 2

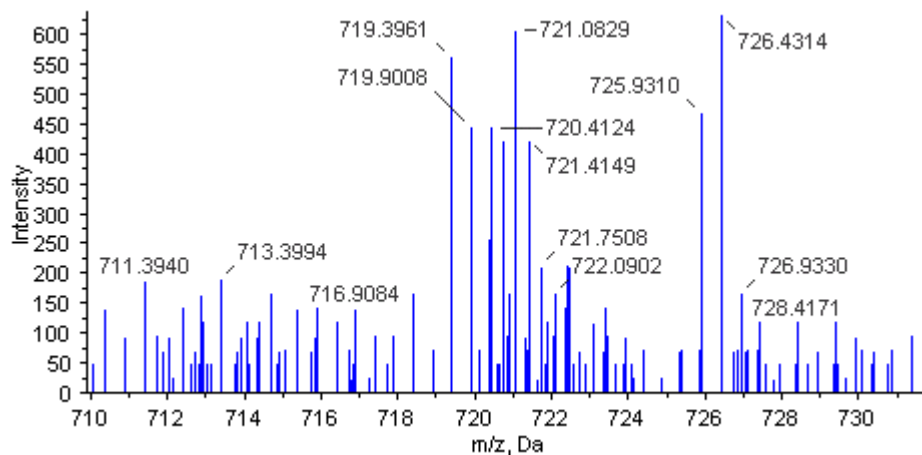
Seq Cov %: 6.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=5.40

116: 114=E5TL: D5TL=1.25

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MTMTTVKVSNSVSLGATDRDLKEFFSFSGDILYLETQSETERTKLA~~YVTFK~~DLQGAETAVLLSGATIVDS
SVIVSMAPDYQLSPEALASLEPKDSNKSPKAGDSVLRK~~AEDVVSMLAK~~~~GFILGK~~DAIAKAKSVDEKHQ
LTS~~TASAK~~VASFDDKIGFTDKINTGTVVVGEKVVREVDQKYQVSEKTK~~SAIAAAEQT~~~~VSNAGSAIMK~~NRY
VLTGATWVTGAFNKVAKAAEEVGGKAKEKVGMAEEEDKRKVVDEFARVHLSESPK~~AASSTQEARES~~KL
SESPEAKKDSEHLEPQSKPLQQQSPPPMASAPAPAQP

Protein No.: I-1211

Protein name and Species:

GTP-binding protein OS=Nicotiana tabacum GN=SUP1 PE=2

SV=1

Accession: tr|Q40581|Q40581_TOBAC

Unused ProtScore: 2

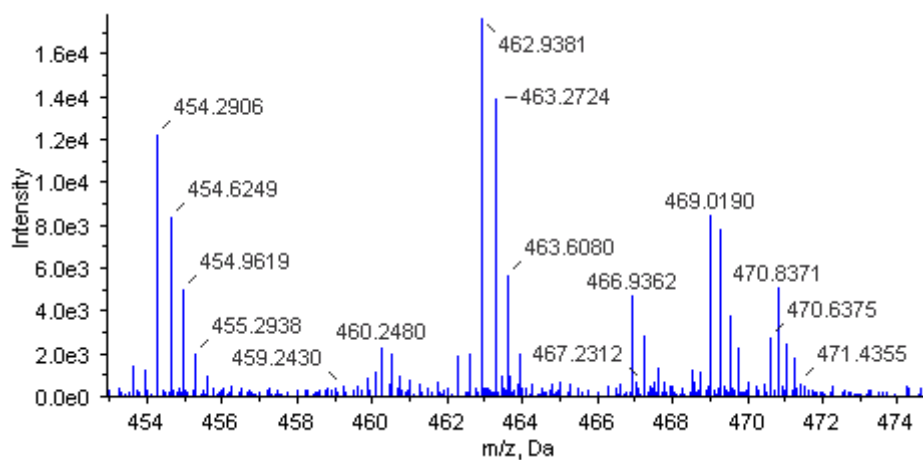
Seq Cov %: 5.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.20

116: 114=E5TL: D5TL=0.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVNVEDGKPEEAIAKPEKTNGEDSAMAEEGEAGDDEKPDIPEDDELKDEAHPDLEPKNVEPKGIAGKEASP
PEDIQDEVEVNKKRHLNVVFIGHVDAGKSTIGGQILLLSGQVDDR TIQKYEREAKDKNRESWYMAYIMD
TNEEERVKGITVEVGRAHFETDTTRFTILDAPGHKSYVPMISGRSQADIGLLVISARKGEFETGYERG
GQTR EHVQLAKTLGVTKFLVVVNKMDDP TVNWSKERYDEIESK MVPFLRSSGYNVKKDVQFLPISGLLG
SNLKTRMEKSVCPWWNGPCLFETLDAVEVPPRDPNGPLRMP IIDKFKDMGTVVMGKIESGSIHEGDNLL
IIPNKA AVKVLAI FCDKVRHVGPGENVRVRLSGVEEDDILSGFVLCVAKPIHAVTEFVAQLQILEL
LDNAIFTAGYKAVLHIHSVVEECEIVELMQQIDLKTKKPMKKKPLFVKNGAIVLCRVQVNNLICVEKFS
DFAQLGRFTLRTEGKTVAVGKITALPTVADNA

Protein No.: I-1214

Protein name and Species: FAS-associated factor 2 OS=Populus trichocarpa GN=POPTRDRAFT_548279 PE=4 SV=1

Accession: [tr|B9GK93|B9GK93_POPTR](#)

Unused ProtScore: 2

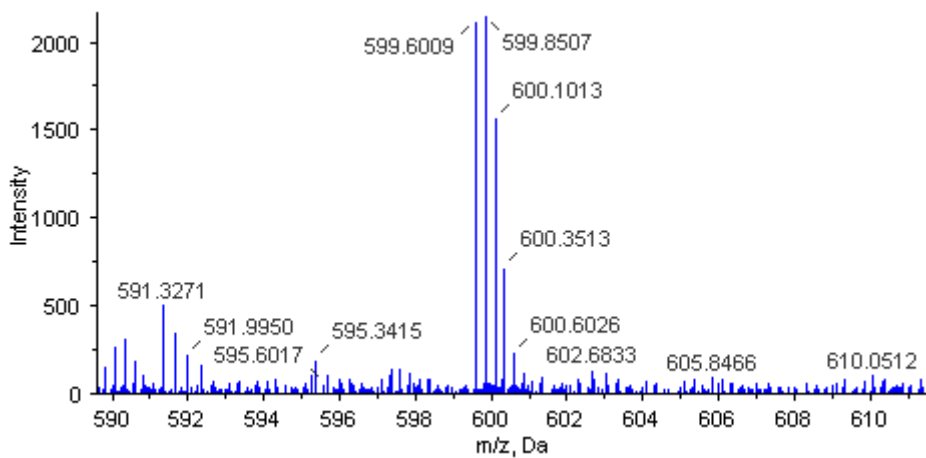
Seq Cov %: 6.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.48

116: 114=E5TL: D5TL=1.01

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MVDVADKLACFRAITGLESDLCTEILQAHNWDLELAISSFTSNHSDNHPFSSSYTATDTTATAVDPSN
ATIHRSDSTSIVPAGAPPPGLAWKIVTLPISVISGSLGLISGAVGFGLWAAGGVLSYSLGFIGLGSNSG
RGGDSSAQLVTVSAASREAMEFVAQFERDYGSGSSTRPNFVSEGFMDALTRSNTFKLLFVYLHSPDHL
DTPAFCEGTLCEVLSAFVNENFVAWGGSIKRGSEGFKMSNSLKASRFPFCVVMSSTNQRIVLLQHVEG
PKSPEEMLVILQRVLEQSAPVLVTARLEAEERTTNMRLREEQDAAYRAALEADQARERQQREEQERLER
EAAEAERKRREEEEARDRAAASEAAENEAAALARMRQEKALSLGAEPEKGPDVTQVLVRFPTGERKERRFH
CAATIQSLYDYVDSLGLNVENYSLVSNFPRVVYGTDKVSLSLKEAGLHPQASLFVELN

Protein No.: I-1225

Protein name and Species:

carboxymethylenebutenolidase, putative OS=Vitis vinifera

GN=VITISV_041925 PE=4 SV=1

Accession: [tr|A5AEX6|A5AEX6_VITVI](#)

Unused ProtScore: 2

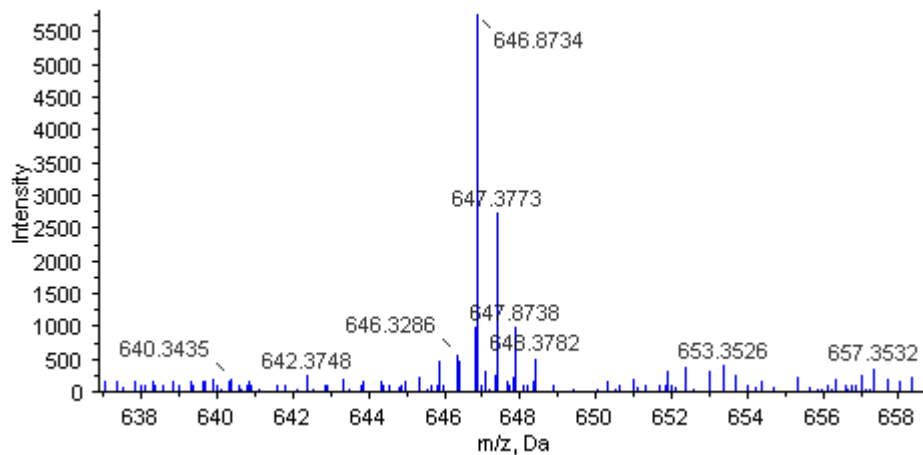
Seq Cov %: 3.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.66

116: 114=E5TL: D5TL=0.63

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAESASSPFKKIQIQR**DDTTFDAYVVGK**EDAPGI VVVQEWVGVDYEVKNHALK**ISQLDPGFKALIPDLY**
RGKVGGLDVAEAQHLM DGLDWQGA VKD ICASVNW LKANGS QKVGVTGYCMGGALS IASSVLLPEVDAVVA
FYGVPSELADPAKAKAPVQAHFGE LDSFVGFSDV TAAKAL EEK LKASGVPYEVHIYPGN GHAFMNRSP
EGIQRRKGMGPDEDED AVGLAWSRFRAWMSCYLSP

Protein No.: I-1228

Protein name and Species:

Prefoldin **subuni** **OS=Populus** **trichocarpa**

GN=POPTRDRAFT_714512 PE=4 SV=1

Accession: **tr|B9H401|B9H401_POPTR**

Unused ProtScore: **2**

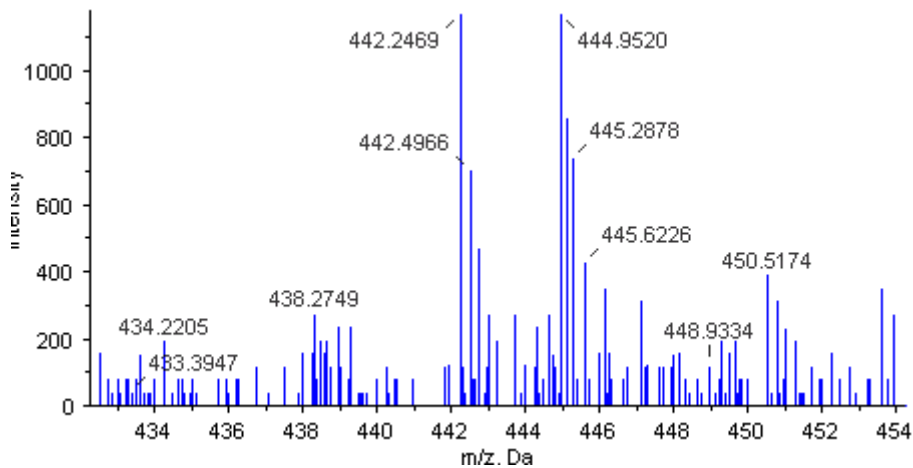
Seq Cov %: **16.8**

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=0.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in **different color**

AIRELQRDLENKANDLSKLR**DI**AKNHQVRKK**Y**TIQLGENELV**LK**ELDLLNEGANVYK**LIGPVLVK**QDL
AEANANVSKRIEYISAELKRL**LDGTLQDLEEK**QNSKKDAIFKLLQQR**I**QSFQAGKAKA

Protein No.: I-1231

Protein name and Species:

**60S ribosomal protein L14-2-like [Vitis vinifera] OS=Vitis
vinifera GN=VIT_05s0049g01310 PE=4 SV=1**

Accession: tr|D7SZI9|D7SZI9_VITVI

Unused ProtScore: 2

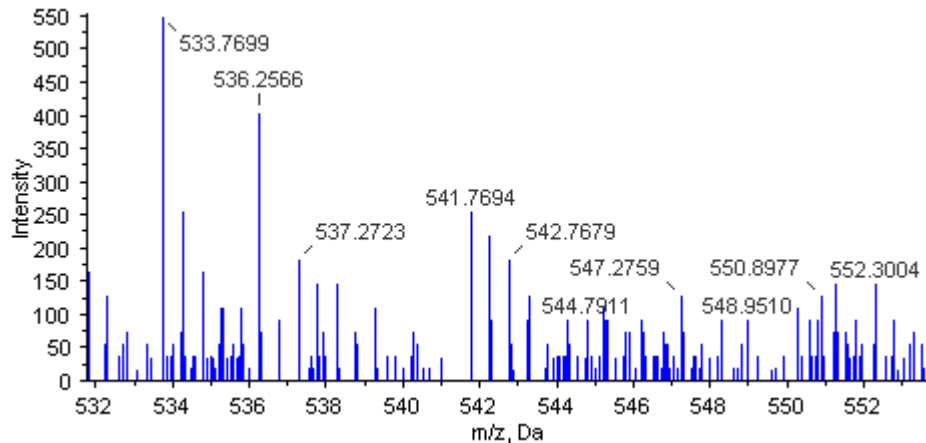
Seq Cov %: 8.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.29

116: 114=E5TL: D5TL=3.08

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEFFNLYNLHGKVLNQIRLISGFNSPKKAQRASKPNTIVTQRSRTQIGPKRTIKKPRKTLSPVSPSTP
LASSIFPLPAVSRALANMPFKRYVEVGRVALVNYGKDYGRLLVVIDVIDQNRALVDAPDMVRQMNFKR
LSLTDIKIDIKRVPKTKTLIEAMTAADVKNKWENSSWGRKLIQKRRASLNDPDRFKIMLAKIKRGGVI
RQELAKLKKQTAS

Protein No.: I-1236

Protein name and Species:

chitinase **1** **OS=Populus** **trichocarpa**

GN=POPTRDRAFT_557015 PE=4 SV=1

Accession: tr|B9HQZ2|B9HQZ2_POPTR

Unused ProtScore: 2

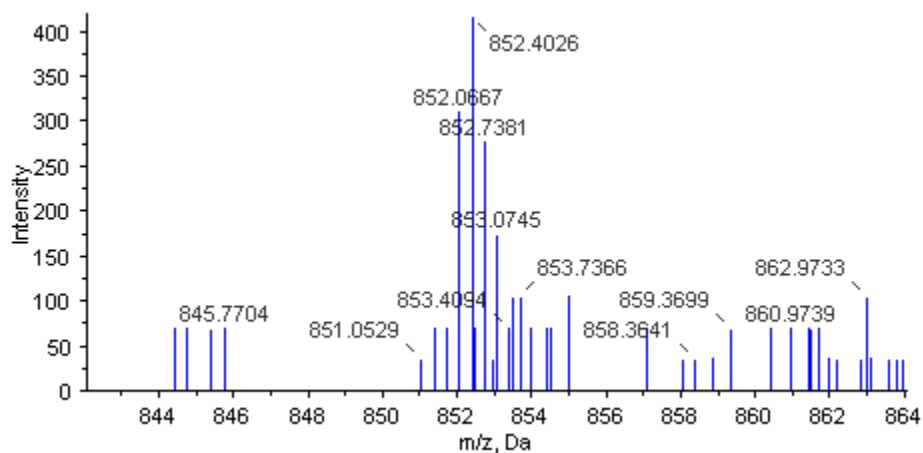
Seq Cov %: 6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.37

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKMWVFTVFSLLLLLLLLGGSAEQCGSQAGGALCFGGLCCSQFGWCGSTNDYCGNGCQSQC GGASGGDLG
SIIISSEKFDEMLKHRNDGGCPGKGFYTYSAFISAANAFPGFGTTGDADTRKREIAAFLGQTSHETTGGW
QTAPDGPYAWGYCFVKEQNPGSYCSPSSSTYPCADGKQYYGRGPVQLSWNYNYGQCGKAIGVDLLNNPDL
VATDPVISFKTAIWFWMTAQSPKPSCHSVITGNWSPSGADSAAGRVPGYGVLTNIINGGLECGMGWKQQ
VEDRIGFYKRYCDLLGVGYGNLDCYNQKSFANGLLDMVDSM

Protein No.: I-1247

Protein name and Species:

ADP-ribosylation factor, putative OS=Ricinus communis

GN=RCOM_0060350 PE=3 SV=1

Accession: tr|B9SYE9|B9SYE9_RICCO

Unused ProtScore: 2

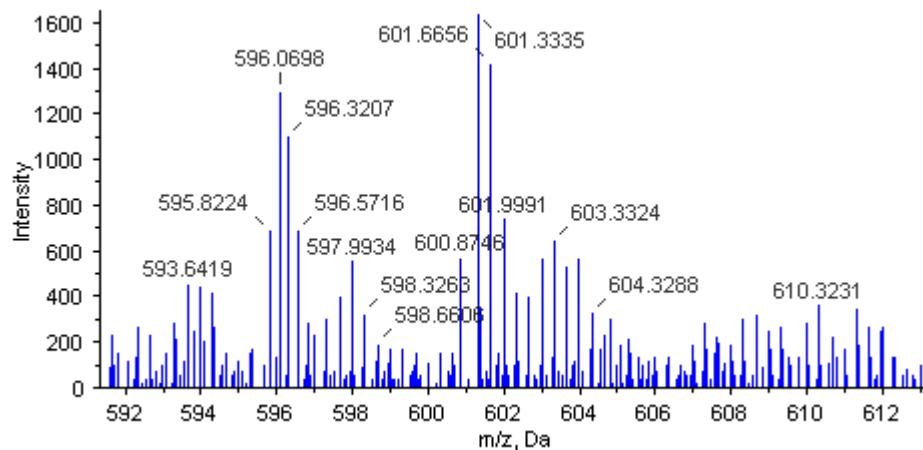
Seq Cov %: 8.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.34

116: 114=E5TL: D5TL=0.82

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGLLD~~SL~~LNWLR~~SLFFKQEMELSLVGLQNAGK~~TSLVNAVATGGYSEDMIPTVGFNMRKVTKGNVTIKLW
DLGGQRRFRMTWERYCRGVSAILYVVDAADRDSVPIARSELHDLVVK~~PSLSGIPLLVLGNKIDKSEALS~~
~~KQALVDQLGLESITDRE~~VCCY~~MISCK~~DSVNIDVV~~IDLKHSKTAK~~

Protein No.: I-1275

Protein name and Species:

V-type proton ATPase subunit F OS=Ricinus communis

GN=RCOM_1381970 PE=3 SV=1

Accession: tr|B9S7V3|B9S7V3_RICCO

Unused ProtScore: 2

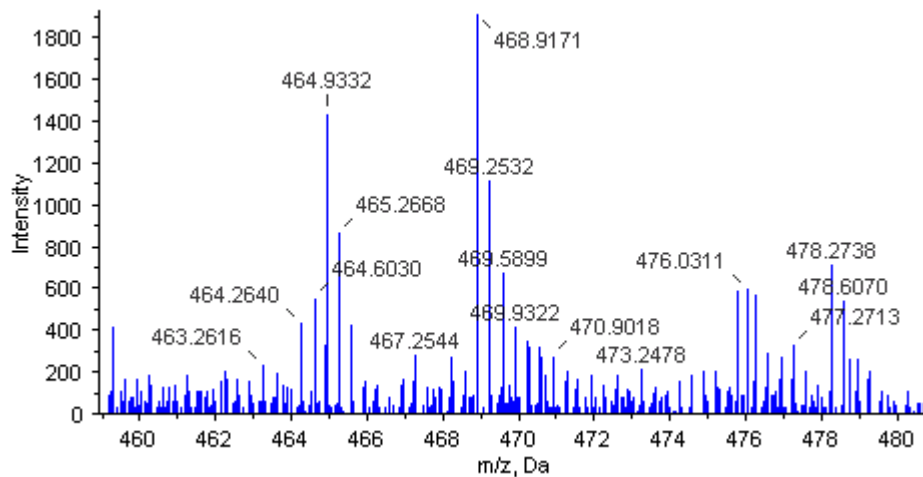
Seq Cov %: 9.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.61

116: 114=E5TL: D5TL=1.16

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MANRNQIRTNNSALIAMIAD~~ED~~TVVGFLLAGVGNVDLR~~R~~RKTNYLLVDSKTTVKQIE~~DAFK~~DFTTREDIA
IVMISQYVANMIR~~FV~~VDSYNKPVP~~AILLE~~IPSK~~D~~HDPYDPSQDSVLSRVK~~HLFSAESV~~ASGR~~R~~

Protein No.: I-1278

Protein name and Species:

nuclear transport factor 2 isoform 1 OS=Populus trichocarpa

GN=POPTRDRAFT_548036 PE=2 SV=1

Accession: tr|A9PBT2|A9PBT2_POPTR

Unused ProtScore: 2

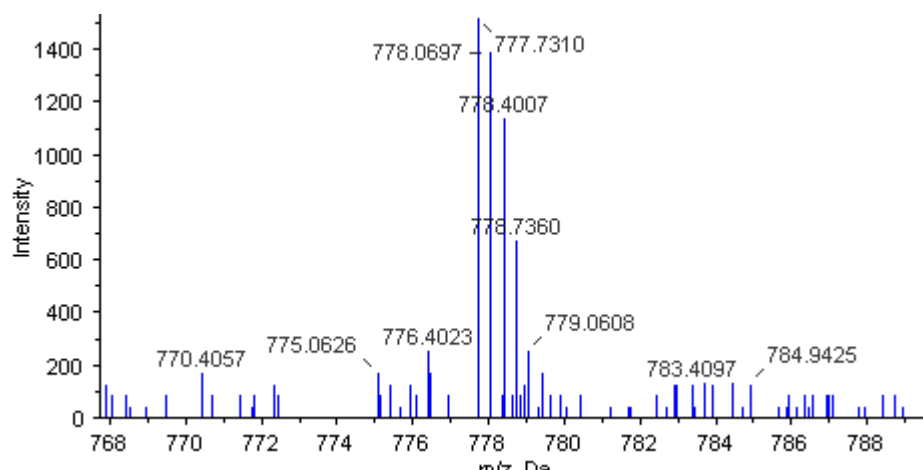
Seq Cov %: 27.6

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.39

116: 114=E5TL: D5TL=0.95

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDPDQVAKAFVEHYYSTFDANRAGLANLYQDGSMLTFEGQKTQGSQNIVAKLIALPFQQCKHLITTVDC
QPSGPAGGMLVVFVSGNLQLAGEQHALKFSQMFHLMPTPQGSFYVFNDIFRLNYA

Protein No.: I-1281

Protein name and Species:

nuclear transport factor, putative OS=Populus trichocarpa PE=4

SV=1

Accession: tr|A9PE14|A9PE14_POPTR

Unused ProtScore: 2

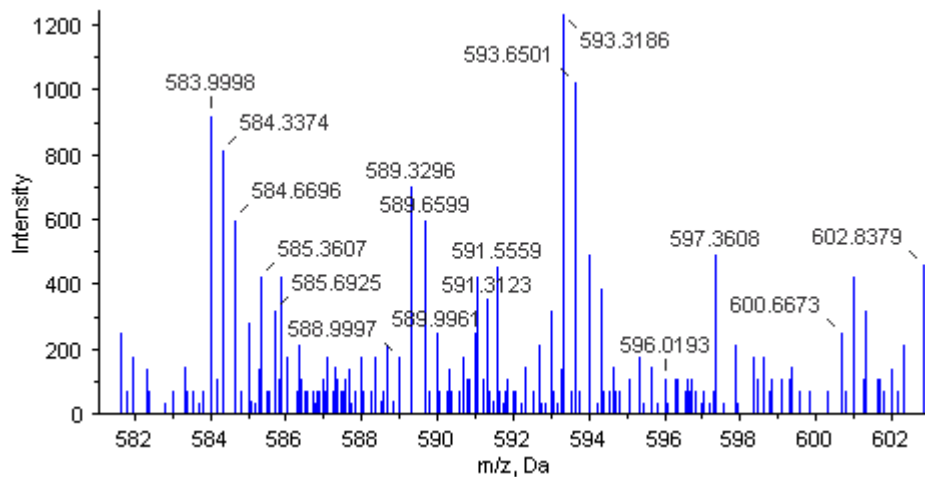
Seq Cov %: 29.8

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.51

116: 114=E5TL: D5TL=1.43

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDPDTVAKAFVEHYYNMFD SNRAGLANLYQDASMLTFEGQKTQGSQNIVAKLTALPFHQCKHHITTVDC
QPSPGAGGMLVVFVSGNLQLAGEQHALKFSQGSYYVYNDIFRLNYA

Protein No.: I-1318

Protein name and Species:

Putative uncharacterized protein OS=Vitis vinifera

GN=VIT_01s0011g00830 PE=4 SV=1

Accession: tr|F6HF70|F6HF70_VITVI

Unused ProtScore: 2

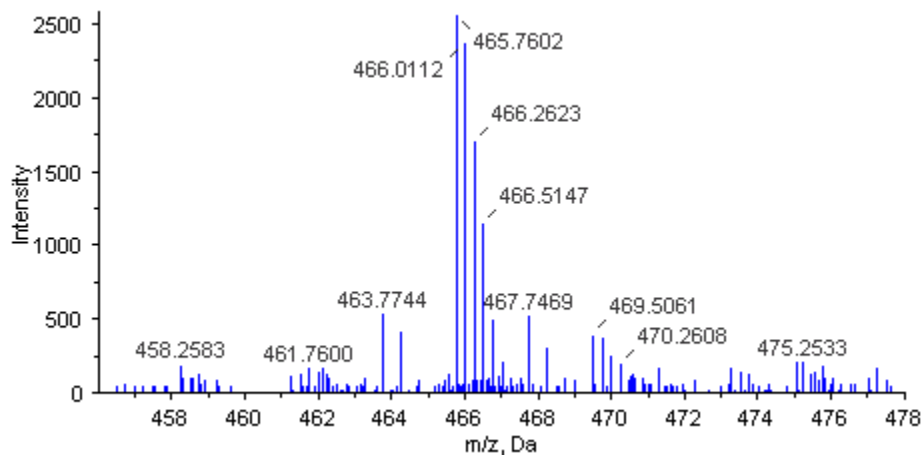
Seq Cov %: 8.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.12

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MMNVKQHGHDTVKEASPPHISTGEGGVKASSPLFDPSLCKTSSSEFLSFQTSMDPTSHHRPGSHPQKHHQ
PSSSELLSSAKVVAEAAQASFHHESEKVDKSRVAGAAADILGAASHYGLLEEKSFQKYEKAETYLHQY
QSSHSTTTTINSGHSTTNTTETHSSSHSGGGDSHSGGGYGDYDKMAEGFLKKY

Protein No.: I-1320

Protein name and Species:

heat shock factor-binding protein-like OS=Ricinus communis

GN=RCOM_1439840 PE=4 SV=1

Accession: tr|B9T0W0|B9T0W0_RICCO

Unused ProtScore: 2

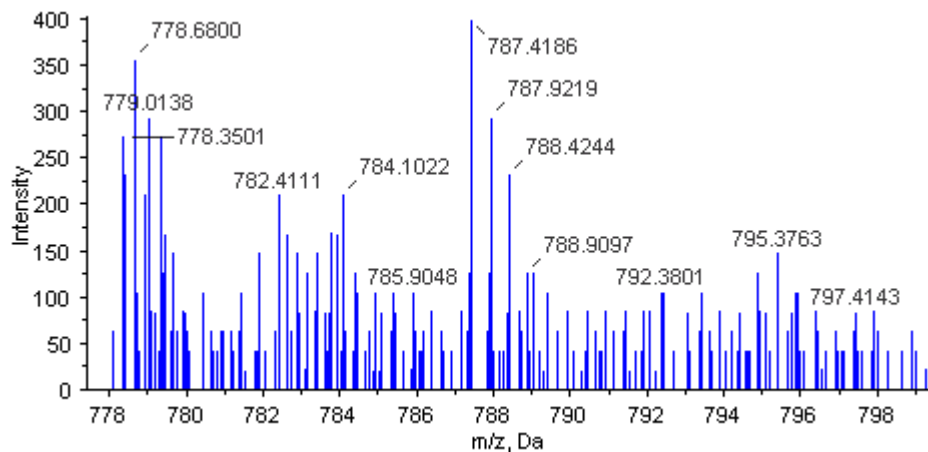
Seq Cov %: 16.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.07

116: 114=E5TL: D5TL=1.03

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDGHDSEDPKQSTADMTVFVQNLQQMMGTRINDLEQSINDLRSEMGVEGSPSPLCQSKQKSGEENQDD
ALA

Protein No.: I-1336

Protein name and Species:

Calcium lipid binding protein, putative OS=Ricinus communis

GN=RCOM_0491050 PE=4 SV=1

Accession: tr|B9SXV3|B9SXV3_RICCO

Unused ProtScore: 1.95

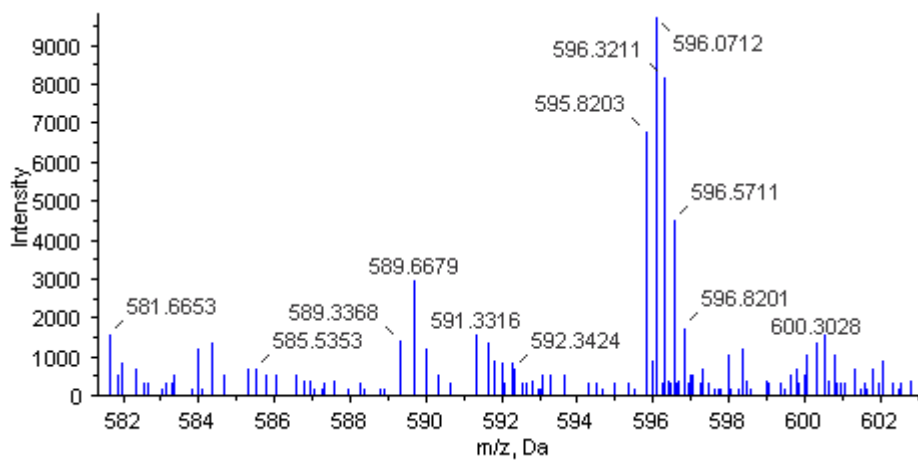
Seq Cov %: 11.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.67

116: 114=E5TL: D5TL=4.33

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGFFSTIFGFCGFGVGISMGLVIGYYLFIFFFQPTDVKEPEIRPLVEEDSETLQRMLEIPLWVKNPDYD
RIDWLNKFL EYMWPYLDKAICKTAKNIATPIIAEQIPKYKIDSVEFETLTLGTLPPPTFSGMK**VYVTDEK**
ELILEPCLK**WAGNPNTVAVK**AFGLK**ATAQVVDLQVFALPR**ITLKPLVPSFPCFATIYVSLMEKPHVDF
GLK**LSGADIMSIPGLYRLVQEIIK**DQVANMYLWPKTLEVQVMDPAKALKRPVGILNVKVVRAMKLLKK**D**
LLGASDPYVKIKL**TEDKLP****SK**KTTVKHKNLNPEWNEEFNLVVKDPETQAVEFHVYDWEQVGKHK**MGMN**
VVPLKELSP EEPKLT**TLDLLK**NMDLNDSQNEKSRGQWRLH**VEVSTSSR**MGLLHPK**ESLGYVDISLADV**
VSNKRINEK**FHLIDSKNGR**IQIELQWRTSS

Protein No.: I-1337

Protein name and Species:

heat shock 70 kDa protein, mitochondrial-like [Vitis vinifera]

OS=Vitis vinifera GN=VIT_00s0415g00030 PE=3 SV=1

Accession: [tr|F6HCT7|F6HCT7_VITVI](#)

Unused ProtScore: 1.94

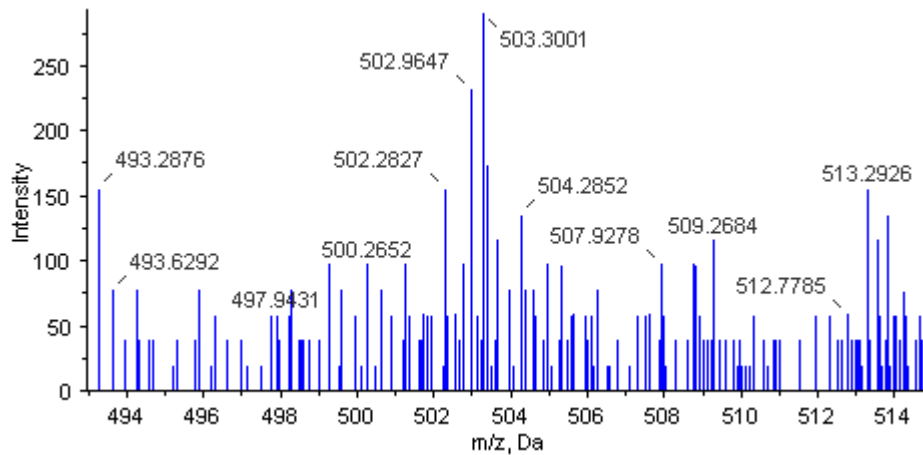
Seq Cov %: 4.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.96

116: 114=E5TL: D5TL=1.54

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MATSVLLRCLKRRDLQSSSLAAYRSLTGNAKTSVSTSPAVQKWASYIRP**FSSK**PAGNDVIGIDLGTTNS
CVSVMEGKNAKVIENSEGARTTPSVVAINQKGELIV**GTPAK**RQAVTNPTNTVFGTKRLIGRRFDDPQTQ
KEMKMVPFKIVRAPNGDAWVEANGQQYSPSQIGAFVLT~~TKM~~KETAEAYLGKTVSKAVITVPAYFNDAQRQ
ATK**DAGRIAGLDVQR**IINEPTAAALS~~YGLN~~KEGLIAVFDLGGGTFDVSILEISNGVFEVKATNGDTFL
GGEDFDNALLEFLVSEFKRTEGIDLTKDRLALQRLREAAEKAKIELSSTSQT~~DINLP~~FITADASGAKHL
NITLTRSKFEALVDKLIERTRNPCSKCLKDAGISVKEVDEVLLVGGMTRV**PKVQEVVAEIFGK**SPSK**GV**
NPDEAVAMGAAIQGGILRGDVKELLLLDDVTPLSLGIETLGGIFTRLINR**NTTIPTK**KSQVFSTAADNQT
QVGKVLQGEREMATDNKLLGEFELV**GIPPAPR**GMPQIEVTFDIDANGIVTVSAKDKSTGKEQQITIRS
SGGLSDDEIEKMKVKEAELHAQRDQERK**ALIDIR**NSADTTIYSIEKSLDEYRDKIPAEVAKEIEAAVADL
RDAMQKENIDEIKAKLDAANKAVSKI~~GQH~~MSGGSGGAASGGSEGSTSSDQTPEAEYEQAKK

Protein No.: I-1341

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_1115857 PE=4 SV=1

Accession: tr|B9N560|B9N560_POPTR

Unused ProtScore: 1.92

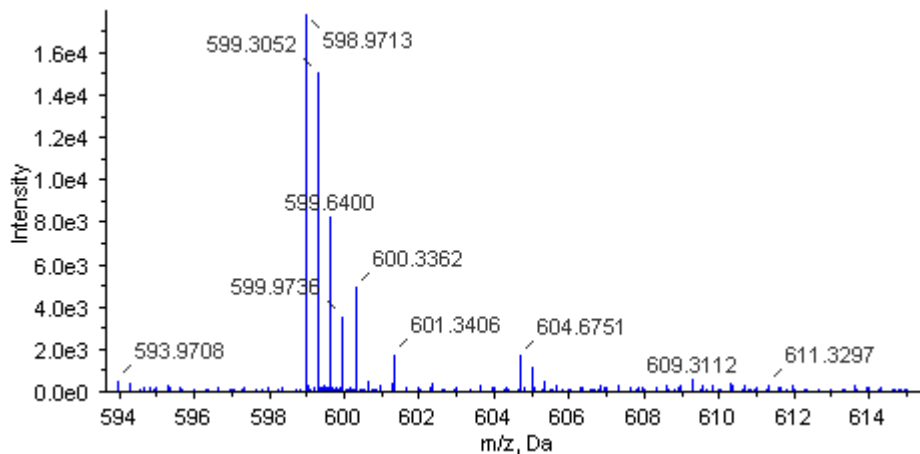
Seq Cov %: 11.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.62

116: 114=E5TL: D5TL=0.58

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MNPQQQQQQQQQQQNPVDPDQPLLPTIKIHHPSPPRHPHPPSATPTLTPTRRK**IGVAVDLSDESAY**
AVRWSVHHYIRPGDSVILLHVSPTSVLGADWGPLPLSTPTQSQLDLLNNSKFNSEIDSKTKNENSEK
PQPRQEDDFDAFTASKAAD IARPLK**EAQIPYKIHI**VKDHDMDKERLCLEIER**LGLSAVIMGSRGF**GAAIR
GSDER**LGSVSDYCVHHCFC**PVVVVRYPEDKDCGRD

Protein No.: I-1346

Protein name and Species:

Serine/threonine-protein kinase, putative OS=Ricinus communis

GN=RCOM_1590280 PE=4 SV=1

Accession: tr|B9R7B8|B9R7B8_RICCO

Unused ProtScore: 1.91

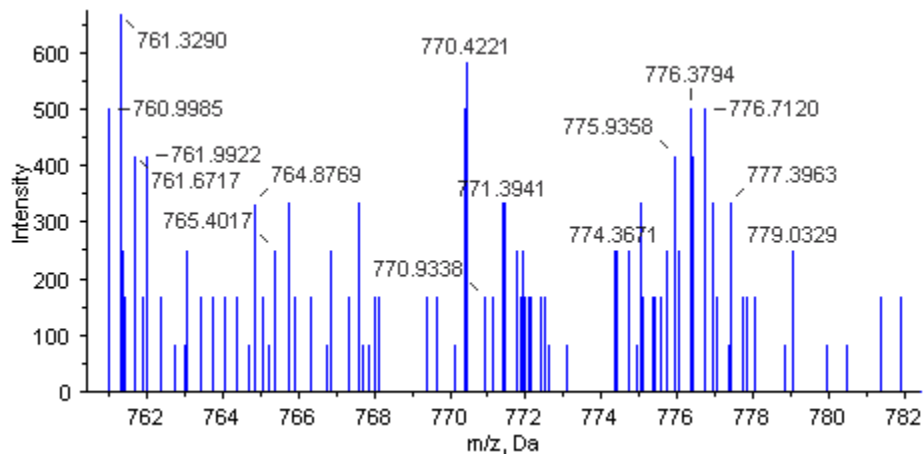
Seq Cov %: 5.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=1.71

116: 114=E5TL: D5TL=3.28

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDGGDGTVRLGALNLRPDRSGFDSPDVSVSSPVTRQKAAAAKQFIENHYKNYLQGLQDRKDRRQALQR
RAQEARISNEEQEEMMRNLERRETEYMRLQRRKIGIDDFEQLTVIGKGAFGEVRLCRAKSTGEIFAMKK
LKKSEMLSRGQVEHVRSERNLLAEVDSRCIVKLFYSFQSDFLYLIMEYLPGGDIMTLLMREDILSEDV
ARFYIAESILAIQSIHQHSYVHRDIKPDNLILDKNHGLKLSDFGLCKPLDDKYSSILLENEDISQEGTN
EAGGHSGSEAPWSMPKEVLQQWKRNRALAYSTVGTLDYMAPEVLLKKGYGMECDWWSLGAILYEMLLG
YPPFCSDDPRIITCRKIINWKTCLKFPDEPKISNEAKDLICHLLCDVETRLGTRGVDELKAHPWFRCTQW
DMLYEMEAAYKPVVNGDLDTQNFEEKFPDLEGPPSAIPRVGPWRKMLTSKDTNFIGFTFKKSDVINSMES
SGTYAKSNASSKAPSLISLLGRIDLQETAEELEGEHTLQS

Protein No.: I-1348

Protein name and Species:

Putative uncharacterized protein OS=Ricinus communis

GN=RCOM_0632890 PE=4 SV=1

Accession: [tr|B9S119|B9S119_RICCO](#)

Unused ProtScore: 1.89

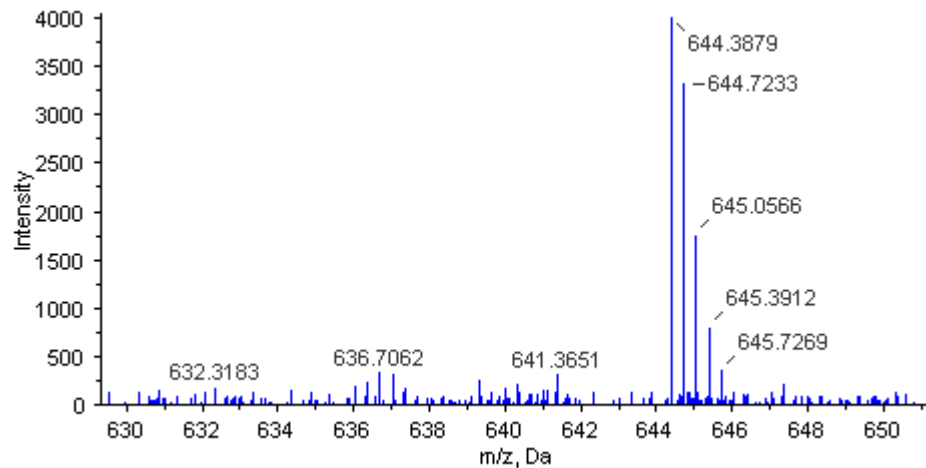
Seq Cov %: 10.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.33

116: 114=E5TL: D5TL=1.16

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASQRIANHRDEAEIYLGESLCKQKSIELLEIRLPKGLLEPLDDIVEVGYNRRTGFVWLKQKNSKNHRF
REIGRNVNYDTEVTAFVEDRMRKRLTGVKSKELLIWVTISDIYVDHNDNSKITFGNPSGISRTFPVSAF
QLQEEKK

Protein No.: I-1353

Protein name and Species:

chitinase, class I (Fragment) OS=Hevea brasiliensis GN=rq30

PE=2 SV=1

Accession: tr|Q949H3|Q949H3_HEVBR

Unused ProtScore: 1.87

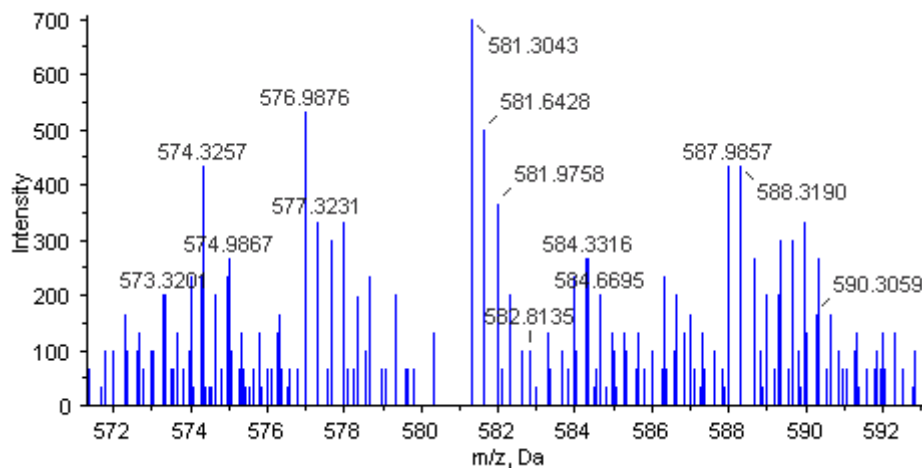
Seq Cov %: 7.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.45

116: 114=E5TL: D5TL=0.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

EQCGRQAGGALCPGGLCCSQYGWCANTPEYCGSGCQSQCDGGGGGEDGGIDLGSIIISRSTFEMLKHRN
DAACPAKGFYTYDAFISAAKAFPAFGTTGDVDTCKREIAAFFGQTSHATTGGWPTAPDGPYAWGYCYKE
ELNQASSYCSPPAYPCAPGKKYYGRGPIQLSWNYNYGQCGQALGLDLLNPNPDLVATDRVISFKAAIWF
WMTPQFPKPSCHDVITGQWSPTGHDISAGRAPGYGVITNIINGGLECGRGWDARVEDRIGFYKRYCDMF
AVGYGSNLD CYNQTPFGLG

Protein No.: I-1355

Protein name and Species:

GTP-binding protein OS=Populus trichocarpa

GN=POPTRDRAFT_1073333 PE=3 SV=1

Accession: [tr|B9H023|B9H023_POPTR](#)

Unused ProtScore: 1.86

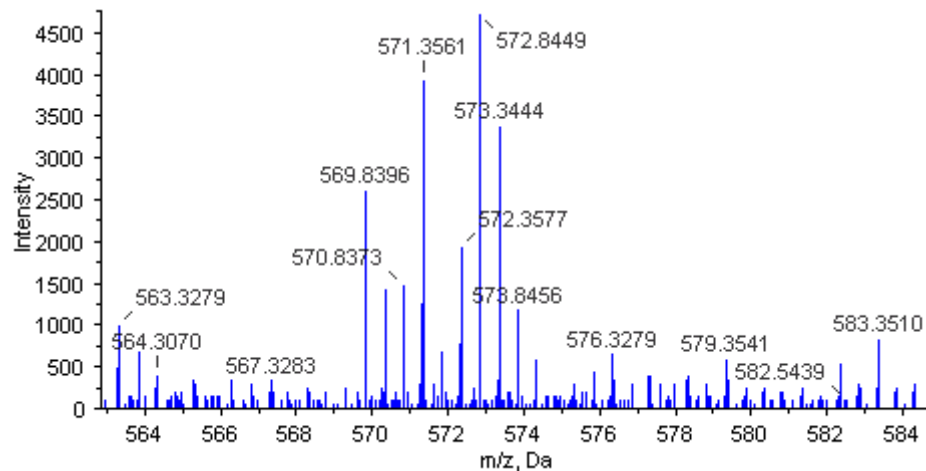
Seq Cov %: 22

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.75

116: 114=E5TL: D5TL=0.78

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MSNSSENEVESLPQSIEEKHQELVVSHVPIVSSFNERIR**PLLD**AVDKLRHLQ**VMKEGIQLPTIVV**VGDO
SSGKSSVLESLAGISLPRGQGICTRVPLIMR**LQHHTAPEPEFSLEFNGK**TVPTSEAK**IANAISLATDEI**
AGNAKGISNTPLTLVVKKNGVPDLTMVDLPGITRVPVHGQPENIYEQIADIIMEYIRPDESIILNVLSA
TVDFTTCESIRMSQKVDKNGERTLAVVTKADR**APEGLLEKVTADDVNIGLGYVCVR**NRIGDESYYEARK
EEADLFENHPLLKIDK**SMVGIPVLAQKLVQIQATI**IARCLPEIVRKINEK**LNASISELNR**MPK**TLSSV**
GEALTFMS**IVGSAK**ESLNKIIVR**GEYDEYLEDKNMHCTAR**LVEMLNQYSGELHNCSENDLTGNFLMDE
IQVLEEAKGIELPNFLPRTTFLSILQKKVEKVSHIPVAFVEKVWTYIEGVVISVLMHHSENYHQLQLST
RRAGHSLIARMKEHSRNWVTEIVQMEKLTDYTSNPEYMNDWNKLMQQHDFTRNVLENGYVATFKIEGL
GVVPIAGLRGYEQHVLLQAFDLKMRMTAYWKIVLRRLLVDFMALHLQF**CARNLVNK**EMEEEIVQELVGRH
DGAIERMLEESP**AVAAK**REKLNVS**IKLLR**ESNN**VLGNIMDK**IASNI

Protein No.: I-1387

Protein name and Species:

ubiquitin 11 OS=Medicago truncatula PE=2 SV=1

Accession: tr|B7FLK9|B7FLK9_MEDTR

Unused ProtScore: 1.77

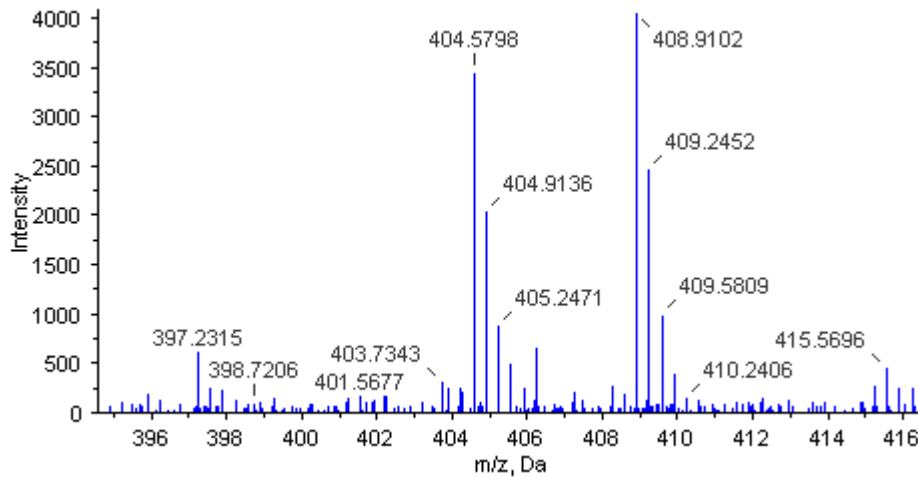
Seq Cov %: 77.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.24

116: 114=E5TL: D5TL=0.82

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MQIFVKTLTGK**TITLEVESSDTIDNVKAKIQNKEGIPPDQQR**LIFAGKQLEDGRTLADYNIQK**ESTLHL**
VLRLRGGMQIFVKTLTGK**TITLEVESSDTIDNVKAKIQDKEGIPPDQQR**LIFAGKQLEDGRTLADYNIQ
KESTLHLVLRLRGGMQIFVKTLTGK**TITLEVESSDTIDNVKAKIQDKEGIPPDQQR**LIFAGKQLEDGRT
LADYNIQKESTLHLVLRLRGGF

Protein No.: I-1404

Protein name and Species:

**Conserved hypothetical protein [Ricinus communis] OS=Ricinus
communis GN=RCOM_1445010 PE=4 SV=1**

Accession: tr|B9RGW6|B9RGW6_RICCO

Unused ProtScore: 1.7

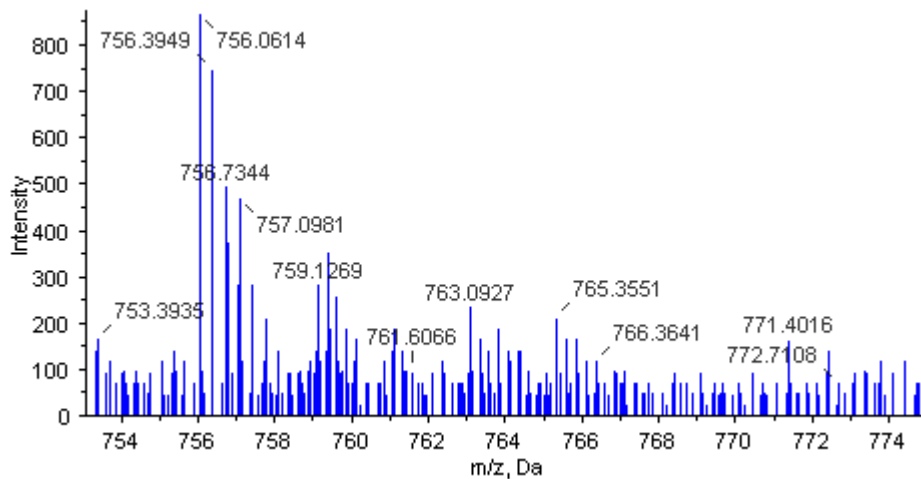
Seq Cov %: 7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.94

116: 114=E5TL: D5TL=3.98

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDKNTTKKKEVIRLERESVIPILKPKLVMTLANLIEHTSDRAEFLKLCCKRIEYTIRAWYLLQFEDLMQL
YSLFDPVSGAQKLQQQLNSPEEIDVLEQNFLTYLFQVMDKSNFKIATEEEIEVAHSGQYLLNLPISVDE
SKLDKEVLKKYFAAHPREDLPD**FVDK**YVIFRRGIGIDRTTDYFIMEKVDMLIARFWAYILRLTRVEKLL
RRRSSMRCKKDPK**KNDEINSEADQNDLCVER**IRLENMELSVRNLLSSTTIQEPTFDRIIVVYRRASSKL
KKERGIYVKHFKNIPMADMEIVLPEKK**NPGLTPMDWVK**FLGSAIVGLVALVSSLEMPKADLWVIFAVLS
AVIGYFAKTYFTFQANLAAYQNLITQSMYDKQLDSGK**GTLHLHCDDVIQQEVK**EVIISFFILMEQGKAT
MQDLDLR**CEELIQEEFGESC�FDVDDAVLK**LEK**LGIVAR**DTIGRYY**CVGLK**RANEIIGTTTEELVLKAK
QGARRRTKSEVKPAERSKTQEQKILMHHIRRLQGQRRKAMGSLCSIISYLCDFFGGLNSNQIPGSAGVWS
CYG

Protein No.: I-1407

Protein name and Species:

Predicted protein OS=Populus trichocarpa

GN=POPTRDRAFT_806336 PE=3 SV=1

Accession: tr|B9I2G0|B9I2G0_POPTR

Unused ProtScore: 1.69

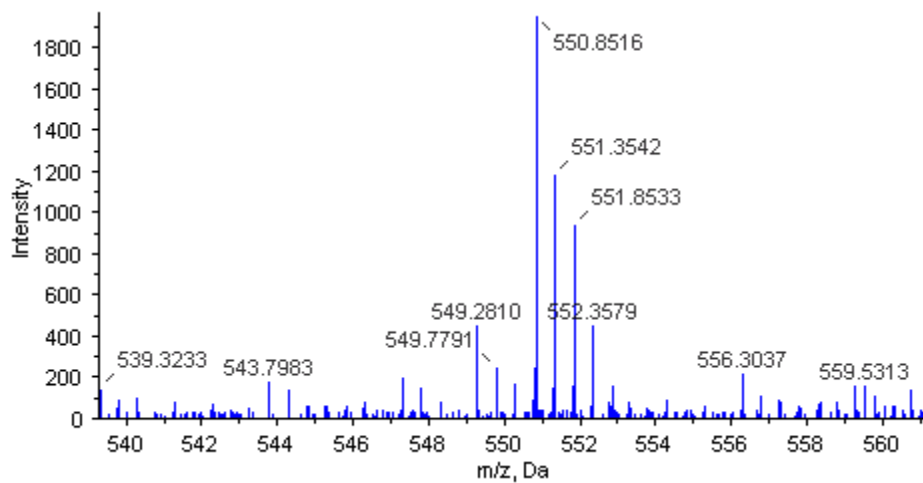
Seq Cov %: 1.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.59

116: 114=E5TL: D5TL=0.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKNFLKKLHIMPNQSDAEGSNSSRGHKSSNESSSDNKFLHSRLQENKPFSGLSNWLSSVANRKKGARR
DSVSSSTRDPDVEEEFQIQLALELSAR**EDPEAVQIEAVK**QISLGSCAPEHTLAELIAYRYWNYNALSVD
DKVLDGFYDLYGIMTESTSDKMPSLVDLQATPVSGGVTEAVLVNRAADANLLKLEKKALEIAVKSRSE
SQVFIGSALVRRRLAVLVSDYMGGAVGDPSNLSRAWRSLSYSLKANLGSMLPLGSLTIGLPRHR**ALMPK**
VLADSVGIPCRLVKGHLYTGSDDVAMNFVKIDDGREYIVDLTADPGTLIPSDAAGSHIEYDDSFSSSP
FSRDIDSYRIASSSSGHTSDSHEGASLTKLSKGEEESTISLNDFGKISIAEKVPVRELPGRPIYPSAHA
RSPSWTEGVSSPSVRRMKVKDVSQYMIDAAKENPQLAQKLHDVLLLESGVVAPPNLFTEIYAEQLNASTA
EATSPTEGK**DGHK**QRTEIRYVKDQDDLVPAR**FFPLLP**PNELPYKSSSPGNQPEQSKPSEFTPVKYVK**NV**
PVAAAAAAAAAVVASSMVVAAAKSSTDSNLELPVAAAAATATAAAVMATTAAVNKQYVQGARS DGDADSA
GYEPHSGDKGSGGRGKGERISDRLAVNVRSKSDAGLDDVAECEIPWEEITLGERIGLSYGEVYRGDW
HGTEVAVKRFLDQDITGEALAEFRSEVRIMKRVRHPNVVLFMGAVTRAPNLSIVT**EFIPR**GSLYRLLHR
PNNQLDDRRRLRMALDAARGMNYLHSCTPMIVHRDLKSPNLLVDKNWVVK**VCDFGLSR**IKNSTFLSSRS
TAGTAEWMAPEVLRNEPSDEKCDVYSFGVILWELSTLQQPWGGMNPQVVGAVGFQHRSLDIPNDMDPA
IADIIRKCWQTDPRRLRPTFAEIMAAKLLQKPIITGPQVPRPNAPLRS GH

Protein No.: I-1418

Protein name and Species:

aspartate-tRNA ligase, cytoplasmic-like OS=Populus
trichocarpa GN=POPTRDRAFT_652970 PE=3 SV=1

Accession: [tr|B9HBL6|B9HBL6_POPTR](#)

Unused ProtScore: 1.65

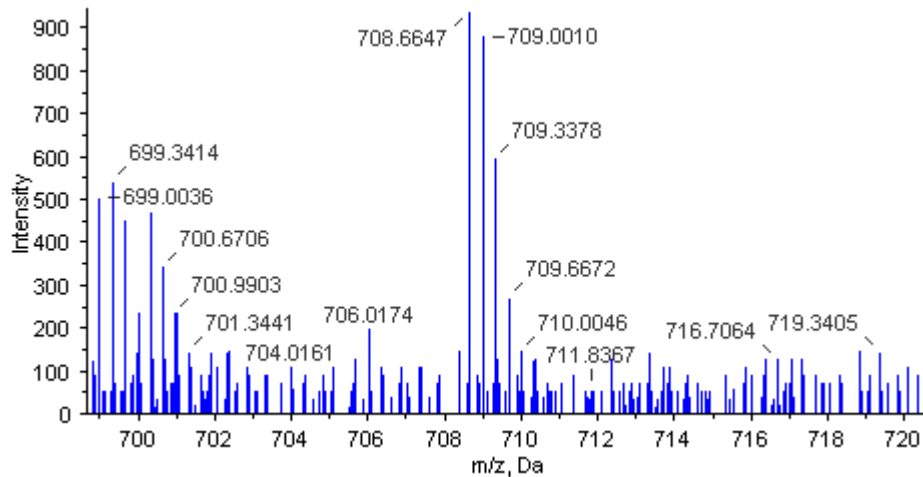
Seq Cov %: 7.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.10

116: 114=E5TL: D5TL=0.21

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MNPQNR AKKLQRRKQQSKRSYVAVRKPLWPAAAASSLSEEDPLAANYGNIPLQDLQSKVEADLKAWT
QVGDLTHELKEKEVLIRGRAQTTRAVGKNMAFVVVREKGF TVQC VVTARPDV VSKQMVKFAAGLSRESI
VDIHVVSVPSIAIKGTTQQVEIQVSKLYCVDKAMPTLPINIEDASRSEK EIEEAL EAGEQLVR VNQDT
RLNYRVLD FRTSANQGI FRIQCQVCNIFRQFLLSEDFVEIHTPKLIAGSSEGGSAVFKLDYKGQAACLA
QSPQLHKQMAICGDFGRVFEIGPVFRAEDSYTHRHLCEFTGLDVEMEIKQHYTEVMDIVDHLFVTMFDH
LNKKCSKYLEAVGRQYPFEPLKYLPKTLRLRFEEGVQMLKEAGVEIDPYGDLNTESEK LGQLVLEKYG
TEFYILHRYPLAVRPFYTMPCYDDPKYSNSFDV FIRGEEIISGAQRVHVPEFLVERAQACGIDVSTIST
YIDSFYRGAPPHGGFGAGLERVVMLFCGLN NIRKTSLFRDPLRIAP

Protein No.: I-1426

Protein name and Species:

random slug protein 5 isoform 2 [Vitis vinifera] OS=Vitis
vinifera GN=VIT_18s0001g12420 PE=4 SV=1

Accession: [tr|F6H1I3|F6H1I3_VITVI](#)

Unused ProtScore: 1.61

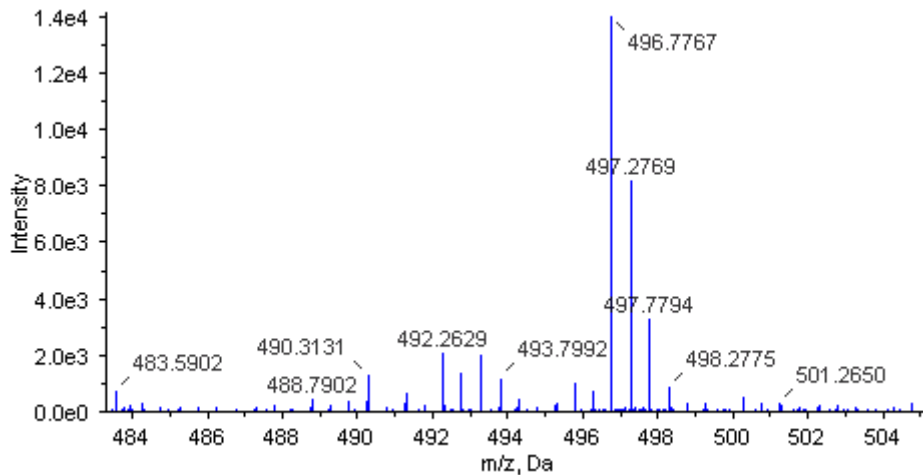
Seq Cov %: 8.3

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.17

116: 114=E5TL: D5TL=0.93

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MISEEVSFVFLDAHLSQQKYPTMLRLWGKSHHDQEKDLQKSDSKVHELK**AALGPLSGR**SLQYCNDACLKR
YLEARNWNVDKSKKMLEETLTWRSTYKPEEIRWSDVATEGETGKVFRANFHDRHGR**TVLILR**PGKQNTT
ALDNQVRHLLVYLLENAILNLPEDQEQMVWLIIDFTGMTFSNSVPIKTARDTIN**ILQNHYP**ERLFLAFLYS
PPR**IFEAFWK**AVKYLLDAKTFQKV**FVYPK**DKNSVELM**SSYFDVENLP**DFGGKATMN**YDHEEFSRLMT**
QDDVKSANLWGFQDKLQHVSNGHSVAEVSPEPACLAPAS

Protein No.: I-1434

Protein name and Species:

HMG-CoA synthase 2 OS=Hevea brasiliensis GN=HMGS2

PE=2 SV=1

Accession: tr|Q6QLW8|Q6QLW8_HEVBR

Unused ProtScore: 1.58

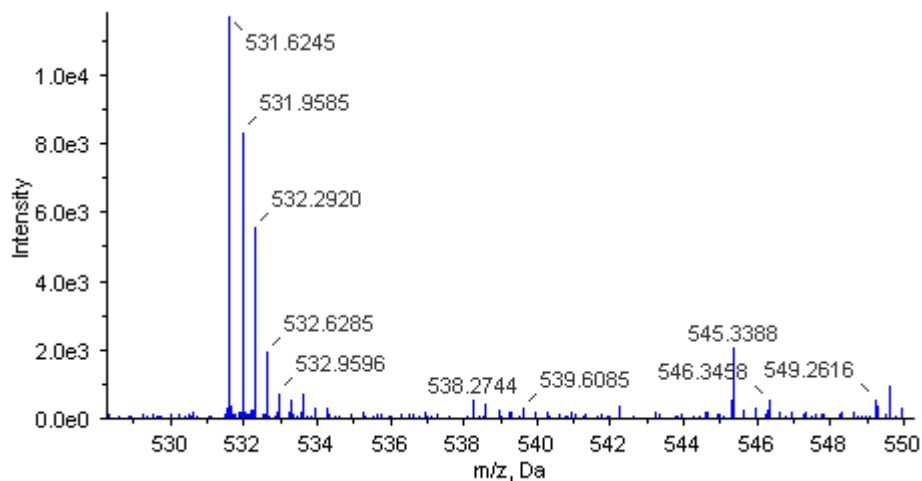
Seq Cov %: 32.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.58

116: 114=E5TL: D5TL=0.73

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MAKNVGI LAMDIYFPPTYVQQEAL EAH **DGASK** GKYTIGLGQDCMAFCTEVEDVISMSLTAVTSLLEK **YN**
IDPNQIGRLEVGETVIDKSK**SIKTFLMQIFEK**FGNTDIEGVDSANACYGGTAALFNCVNWVESNSWDG
RYGLVVCTDSAVYAEGPAR**PTGGAAAIAM**LIGPEAPIAF**ESK**FRGSHMSHAYDFYK**PNLASEYPPVDGK**
LSQTCYLMALDSCYKH**FCAK**YEKLEGGKQFSISDAEYFVFHSPYNKLVQKSFAR**LVFNDFVR****NASSIDDA**
AKEKLAPFSTLSGDESYQNRDLEKVSQQVAKPLYDAKVQPTTLIPKQVGNMYTASLYAAFASLLHNK**HT**
ELAGKRVILFSYGSGLTATMFSLR**LHEGQHPF****SLSNIATVMNVAGK**LKTRHEFPPEK**FAVIMK**LMEHRY
GAK**DFVTSK**DCSILAPGTYYLTEVD TMYRRFYAQ**KAVGDTVENGLLANGH**

Protein No.: I-1437

Protein name and Species:

methyl transferase [Populus tomentosa] OS=Populus
trichocarpa GN=POPTRDRAFT_1101018 PE=4 SV=1

Accession: [tr|B9IEB9|B9IEB9_POPTR](#)

Unused ProtScore: 1.57

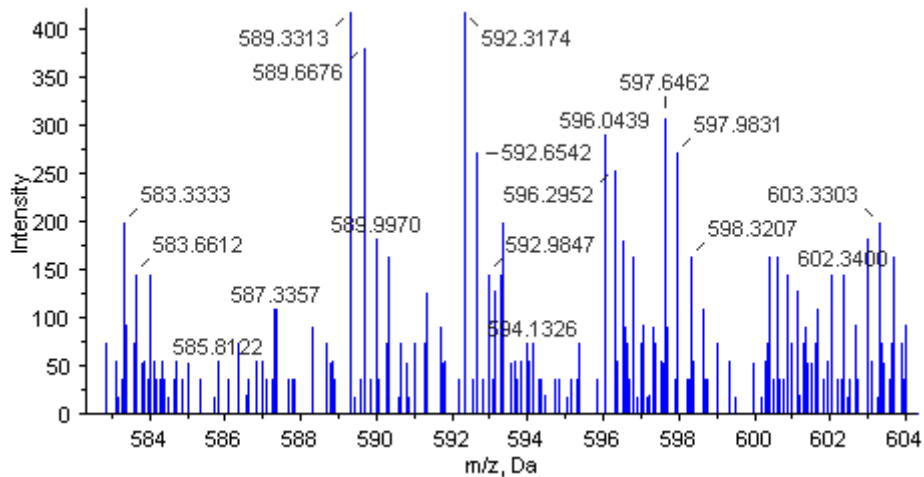
Seq Cov %: 5.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=3.73

116: 114=E5TL: D5TL=7.78

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDNI**SDLSV**NAMML**DSKASELDK**EEERPEILSLLPPYEGKTVLELGAGIGRFTGELAQKAGQVVALDFIE
SAIKKNENINGHYKNVKFMCADVTSPDLNISEGSVDLIFSNWLLMYLSDKEVENLVERMVKWKVDGFI
FFRESCFHQSGDSKRKYNPHTHYREPRFYTKVFKECHTRDGSFELSLVGCK**CISAYVK**NKKNQNQAM
KLDHLILWICWIWQKVSSYEDK**GFQRFLDNVQYK**SNGILR**YERVFGQGYVSTGGIETTK**EFVGKLDLKP
GQKVLVCGGIGGGDFYMAENFDVEVVGIDLSINMISFALERA**IGLK**CSVEFEVADCTTK**TYPDNTFDV**
IYSRDTILHIQDKPALFRSFFKWLKPGGKVLISDYCKCDGTPSPEFAEYIKQRGYDLHDVKAYGQMLRD
AGFDEVVAEDRTDQFNKVLQRELNAIEKDKDEFIHDFSEGDYNDIVGGWKAKLIRSSSGEQRWGLFIAK
KK

Protein No.: I-1453

Protein name and Species:

chitinase Class Ib, OS=Limonium bicolor PE=2 SV=1

Accession: tr|Q1W6C5|Q1W6C5_9CARY

Unused ProtScore: 1.53

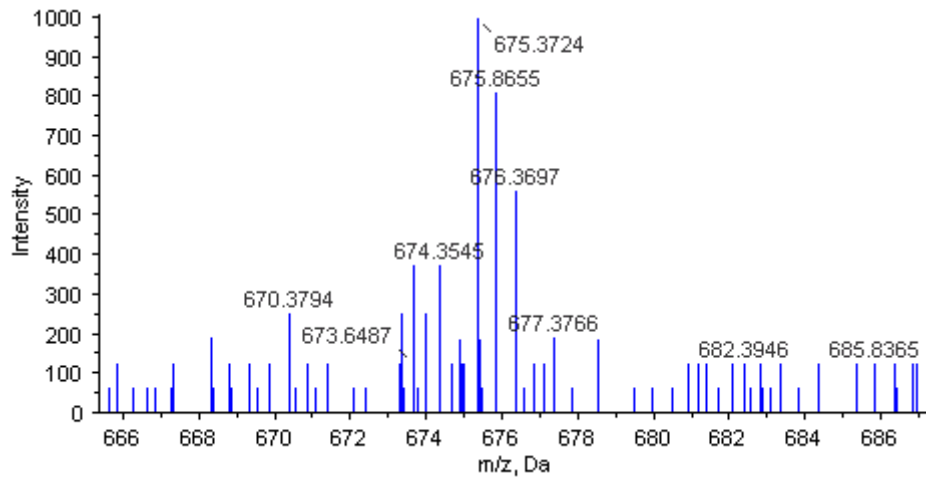
Seq Cov %: 5.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.64

116: 114=E5TL: D5TL=0.51

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MKTTLL**IL**TAAAL**P**FLLLLSFSSAEQCGSQAGGAVCPNGLCCSKYGWCGSTDTYCKDGCQSQC GGTTPTP
TTPTPTPTQGGDVSSIIISQSNFDEMLKHRNDNACSGHGFYTYAAFISAAQSFPGFGTTGDTDTRKRELA
AFLGQTSHETTGGWAAAPDGPY**AWGYCFVQEQGASGAFCT**SPEYPC**APGKQYYGR**GPIQLTHNYNYAQA
GTAINQDLINNPDLVAT**DPTISFK**TAIWFWMTPQSNKPSSHDVITGKWTPSSADSAAGR**VPGYGVITNI**
INGGLECGKSI**AK**QEDR**IGFYK**RYCDVLGVGYGNNLDCNSQRPFA

Protein No.: I-1459

Protein name and Species:

Dynamin, putative OS=Ricinus communis GN=RCOM_0718390

PE=3 SV=1

Accession: tr|B9SBH8|B9SBH8_RICCO

Unused ProtScore: 1.51

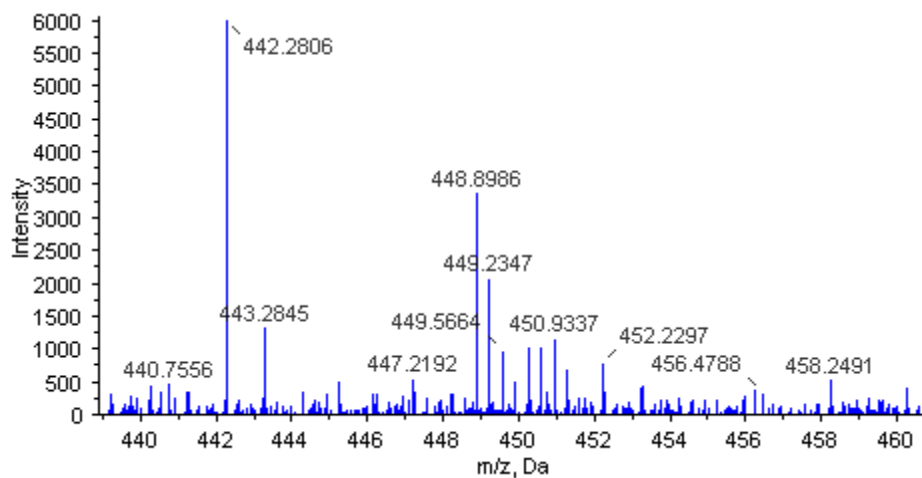
Seq Cov %: 8.9

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.56

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MENLISLVNKIQRACTALGDHGEESALPTLWDSLPSIAVVGGQSSGKSSVLESIVGKDFLPRGAGIVTR
RPLVLQLHRVDEGKEYAEFMHLPRKKFSDFAAVRKEISDETDRETGRSKQISTVPIHLSIYSPNVNLT
LIDLPGLTQVAVDGPESIVLDIENMIRSYIEKPNCIILAI SPANQDLATSDAIKISREVDPKGERTFG
VLTkVDLMDKGTDAVDILEGKSYKIQFPWIGVVNRSQADINKSVDMLAARRKEREYFQNSTEYRHLAHR
MGSEHLGKMLSKHLEQVIKSRIPGLQSLINKTIAELEGEELSRLGKPVATDAGGKLYMIMEICRSFDQIF
KEHLDGIRPGDKIYLVFDNQLPAALKRLQFDKHL SIDNVRKLITEADGYQPHLIAPEQGYRRLIESTL
VTIRGPAAEA AVDAHVLLKELVQKSINETLELKYPTLRVEVSNAAIESLDRMREESKKATLQLVDMEC
CYLTVEFFRKL PQDIEKGGNPTHSIFDRYND SYLRRVGSNVL SYVNMVCGSLRNSIPKSVVYCQVRDAK
RSLLDYFFAELGKKETKQLSSLLDEDPAVMQRRISLAKRLELYRSAQAEIDAVAWAK

Protein No.: I-1464

Protein name and Species:

Alanine aminotransferase 1 OS=Glycine max GN=AlaAT1 PE=2

SV=1

Accession: tr|A8IKE1|A8IKE1_SOYBN

Unused ProtScore: 1.5

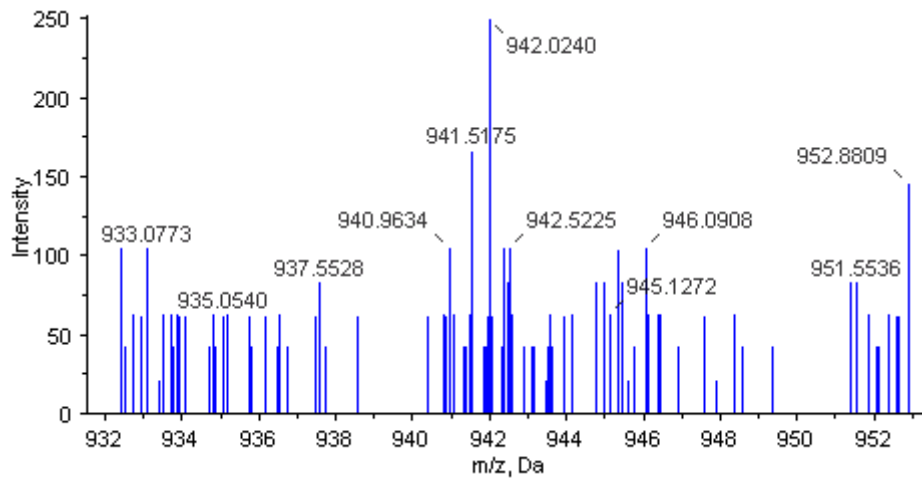
Seq Cov %: 7.2

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.60

116: 114=E5TL: D5TL=0.94

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASDSPFPVTAQNINPKVLKCEYAVRGEVVTLAQNLQKDLQANPGSHPPFDEILYCNIGNPQSLGQQPIT
FFR**EVLALCDHPAILDKSETQGLFSTDAIQRAWQIVDQIPGRATGAYSHSQGVK**GLRDTIAAGIEERDG
FPANPDDIFMTDGASPAVHNMMQLLIRSENDGILCPIPQYPLYSASIALHGGCLVPYYLDEATGWGLEI
PELKKQL**EAAK**SKGINVR**ALVVINPGNPTGQVLGEANQR**DIVEFCK**QEGLVLLADEVYQENVYVPEK**KF
HSFKKVSRSMGYGENDITLVSFQSVSKGYHG**ECGK****GGYMEVTGFSAEVR**EQIYKVASVNLCSNISGQI
LASLVMSPPKVGDESYSFMAEK**ENILASLARRAKTLEDAFNKLEGVTCNK**AEGAMYLFPQIRLSEKAI
KAAEAANATPDNFYCKRLLNATGVVVVPGSGFGQVPGTWHFRCTILPPEEKIPAIVTRLTEFHEKFMDE
FRD

Protein No.: I-1467

Protein name and Species:

L-lactate dehydrogenase OS=Arabidopsis thaliana PE=2 SV=1

Accession: [tr|Q8LBD5|Q8LBD5_ARATH](#)

Unused ProtScore: 1.49

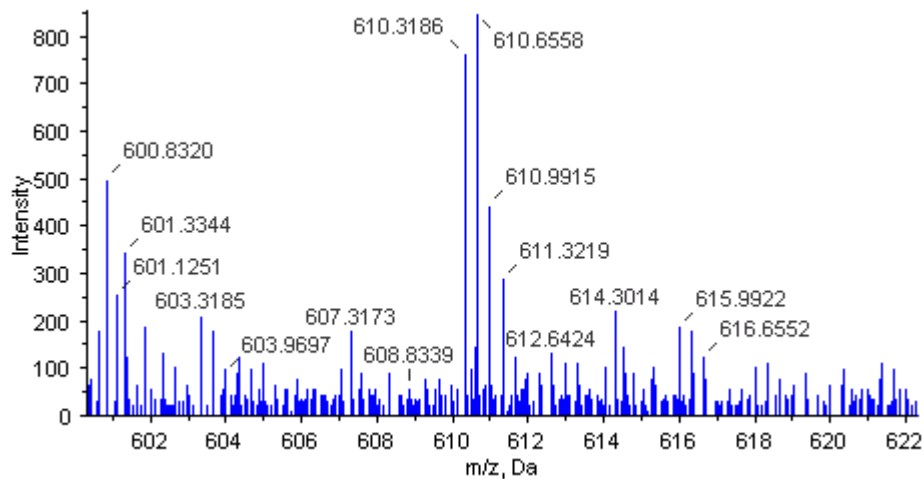
Seq Cov %: 20.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.52

116: 114=E5TL: D5TL=0.24

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MEKN**ASTSSLK**DLGPSGLDLTS**AFFK**PIHNSDPSLPSNRRTKVSVVGVGNVGMATAQ**TILTQDLADEIA**
LVDAKPDKLR**GEMLDLQHAAAF**LPR**TK**ITASVDYEV**TAGSDLCIVTAGAR**QNPGESR**LNLLQR**NVALFR
HIIPPLAKASPDSILIIIVSNPVDVLTYYVAWKLSGFVNR**VLGSGTNLDS**SRFRFLIADHLDVNAQDVQA
FIVGEHGDSSVALWSSISVGGIPVLSFLEKNQIAYEKQTLEDIHQAVVGSAYEV**IGLKGYSWAIGYSV**
ANLARTILRDQRKIHPVTVLARGFYGVDGGDVFLSLPALLGRNGVAVTNVHMTDEEAEKLQKSAKTIL
EMXSQLGL

Protein No.: I-1479

Protein name and Species:

**S-formylglutathione hydrolase-like [Glycine max] OS=Glycine
max PE=2 SV=1**

Accession: tr|C6TB50|C6TB50_SOYBN

Unused ProtScore: 1.43

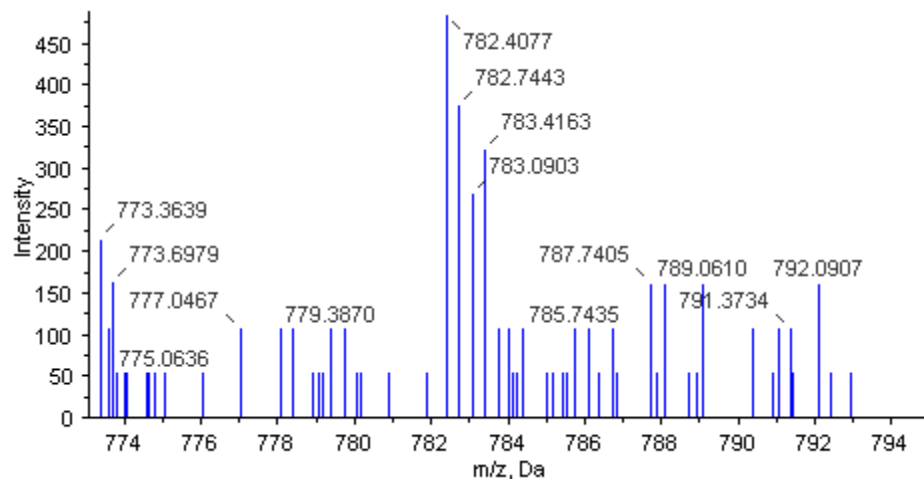
Seq Cov %: 14.7

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.64

116: 114=E5TL: D5TL=0.79

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MDTRPTEISSGK**MFGGYNK**RFKHFSLTLGCSMNFHIYFPPSPSPSHKFPVLYFLSGLTCTDENFIFKSG
AQR**AASAEGVALVAPDTS**PRGLNVEGEADSWDLGVGAGFYLNATQEKWKNWR**MYDYVVK**ELPKLLSDNF
PQLEISK**ASIFGH**SMGGHG**ALTIFLKN**QDKYK**SVSAFAPIANPINC**PGQKAFSNYLGDNKF EWEDYDA
TRLVTKFPNVSSTILIDQGEDDKFLPDQLLPHKFEEACKKANVPLLLRFQPGYDHLYYFIATFIDHIR
HHAQAFRLN

Protein No.: I-1487

Protein name and Species:

Aminotransferase YbdL-like OS=Vitis vinifera

GN=VIT_18s0001g03300 PE=4 SV=1

Accession: [tr|E0CR92|E0CR92_VITVI](#)

Unused ProtScore: 1.4

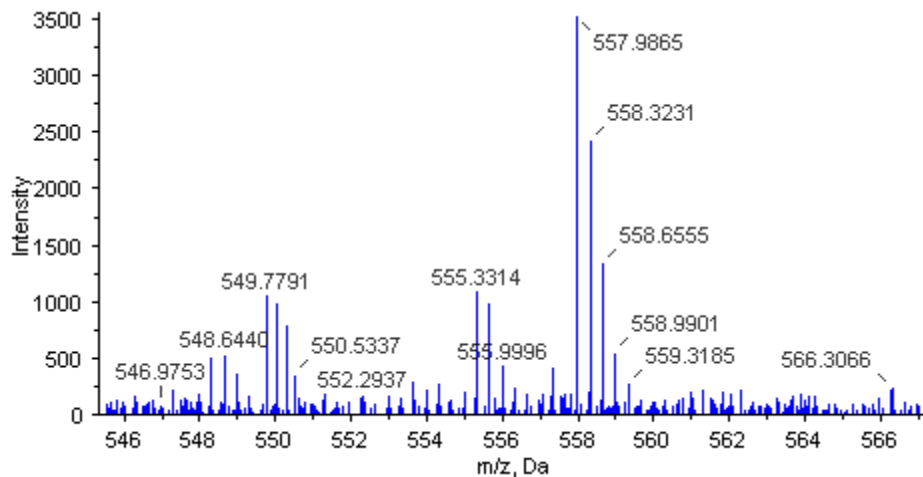
Seq Cov %: 5.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.25

116: 114=E5TL: D5TL=1.82

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MASASTVSAPNTEAEQTHNPPQPLQVAKRLEKFKTTTIFTQMSMLAIKHGAINLGQGFNFDGPEFVKEA
AIQAIKDGKNQYARGYGVPDLNSAVADRFKKDTGLVVDPEKEVTVTSGCTEAIAATMLGLINPGDEVIL
FAPFYDSYEATLSMAGAQIKSITLRPPDFAVPMDELKSAISKNTRAILLINTPHNPTGKMF'TREELNVIA
SLCIENDVLVFTDDEVYDKLAFEMDHISMASLPGMYERTVTMNSLGKTFSLTGWKIGWTVAPPHLTWGVR
QAHSFLTTFATCTPMQWAAATALRAPDSYEEELKRDYSAKKAIVVEGLKAVGFRVYPSSGTYFVVVDHTP
FGLKDDIAFC EYLKKEVGVVAIPTSVFYLHPEDGKNLVRFTFCKDEGTLRAAVERMKEKLPKQ

Protein No.: I-1494

Protein name and Species:

Putative uncharacterized protein OS=Vitis vinifera

GN=VIT_19s0014g01520 PE=4 SV=1

Accession: [tr|F6H2P8|F6H2P8_VITVI](#)

Unused ProtScore: 1.39

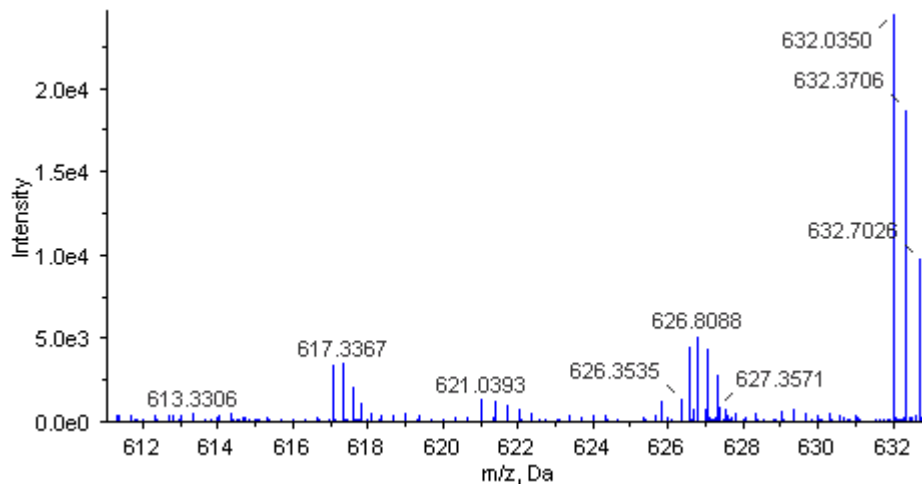
Seq Cov %: 6.5

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=0.13

116: 114=E5TL: D5TL=0.29

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MALRHLTPLSPLSPFTRIPPRRCFTQKPFSLSVSASMGSSSRKVLVPIAHGSEPMEAVII **IDVLR** **AGA**
DVTVASVEKRLQVDACHGVKIVADALISDCADTGFDLISLPGGMPGAATLRDCGMLESVMVKKHAADGQL
YAGICAAPAVALGSWGLMKGLKATCYP SFMEQLSSTATTVESRVQQDGKVVTSRGP GTTMEFSVSLVEQ
LYGKEKANEVSGPLVMCSNLGDKFIMAELNPIDWKCDNPQILVPIANGTEEMEAVII **IDFLR** **AK** **ANVV**
VASVEDKLEIVASRKVKLVADVLLDEAVK **LSYDLIVLP** **GGG** **GGAQ**AFASSEKLVNLLKNQRESNKP YGA
ICASPALVLEPHGLLKGGKATAFPALCSKLSQSEIENRVLVDGNLITSRGP GTSMEFALAIIEKFFGH
GK **ALELAK**VMLFSSQ

Protein No.: I-1523

Protein name and Species:

succinyl-CoA ligase [ADP-forming] subunit alpha-1,
mitochondrial-like [Glycine max] OS=Glycine max PE=2 SV=1

Accession: [tr|C6TNV4|C6TNV4_SOYBN](#)

Unused ProtScore: 1.31

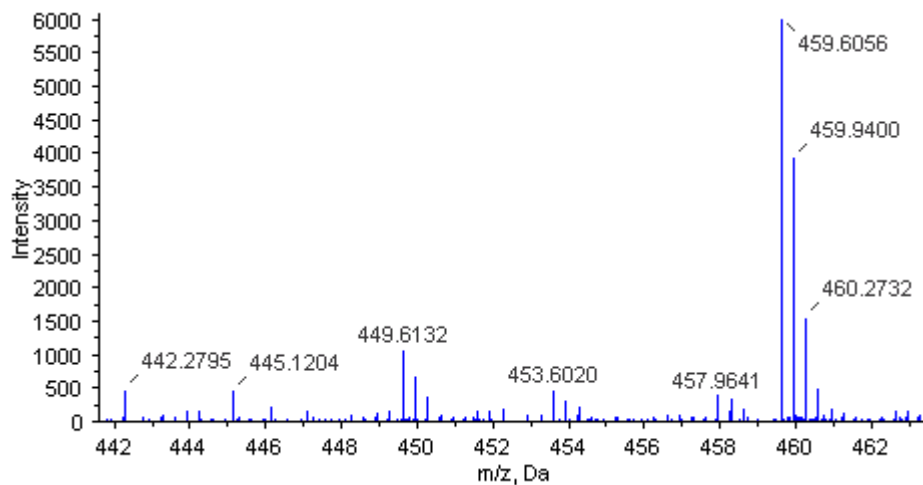
Seq Cov %: 3.1

ITRAQ Changed Ratio:

117: 115=E3TL: D3TL=2.11

116: 114=E5TL: D5TL=1.52

Annotated typical Precursor MS Region:



Sequence Coverage and Matched peptides: in different color

MGRQAVTKLLSSIASRRHGLRLFSAASPAV**FVDK**STRVICQGITGKNGTFHTEQAIEYGTNMVGGVTPK
KGGTEHLGLPVFNTV**AEAK**AETKANASVIYVPPPFAAAAIMEAMEAELDLVVCITEGIPQHDMVRVKAA
LNRQSKTRLIGPNCPGI IKPGECKIGIMPGYIHKPGRIGIVSRSGTLTYEAVFQTTAVGLGQSTCVGIG
GDPFNGTNFVDCLQKFLTDPQTEGI ILIGEIGGTAEED**AAALIK**DSGTEKPVVAFIAGLTAPPGRRMGH
AGAIVSGGKGTAQDKIKTLREAGVMVVE**SPA**K**IGAAMLDFK**QRGLVQ

Supplementary Figure S5:
Supplemental spectra and MALDI TOF/TOF MS
/MS identification information

Annotated spectra for the 59 phosphorlated latex proteins
on identified by TOF, TOF/TOF and LC-MALDI MS/MS.

CID: collision induced desorption;

MALDI TOF:

matrix assisted laser desorption/ionization time of flight;

MS: mass spectrometry;

PMF: peptide mass fingerprinting;

PFF: peptide fragment fingerprinting.

Spot No.: **P1**

NCBI accession No.: **gi|123650**

Species: *Petunia x hybrida*

Protein name: **Heat shock cognate 70 kDa protein**

Mascot score: **97**

Sequence coverage %: **40**

Matched peptides No.: **24**

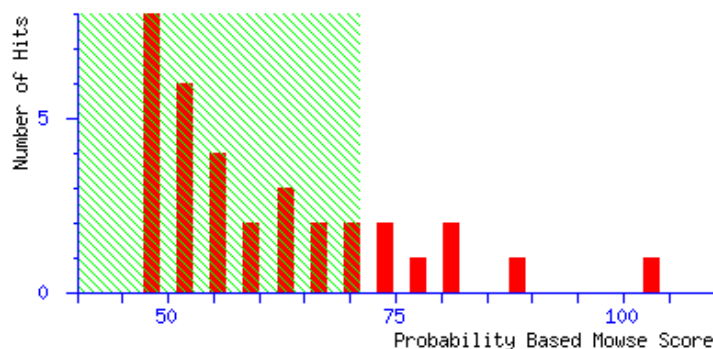
Total peptides No.: **41**

Calculated Mr: **71581**

Calculated pI: **5.11**

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 73 are significant ($p < 0.05$).



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

```
1  EGPAIGIDLG  TTYSCVGVWQ  HDRVEI IAND  QGNRTTPSYV  GFTDTERLIG
51  DAAKNQVAMN  PINTVFDAGR  LIGRRFSDPS  VQSDIKLWPF  KVIPGPGDKP
101 MIVVTYKGEE  KQFAAEEISS  MVLTKMKEIA  EAYLGTTIKRN  AVVTVPAYFN
151 DSQRQATKDA  GVIAGLNVMR  IINEPTAAAI  AYGLDKKASS  AGEKNVLIFD
201 LGGGTFDVSL  LTIEEGIFEV  KATAGDTHLG  GEDFDNRMVN  HFVQEFKRKN
251 KKDISGNPRA  LRRLRTACER  AKRTLSSTAQ  TTIEIDSLYE  GIDFYSTITR
301 ARFEELNMDL  FRKCEPVEK  CLRDAKMDKS  SVHDVVLVGG  STRIPKVQQL
351 LQDFFNKEL  CKSINPDEAV  AYGAAVQAAI  LSGEGNEKVQ  DLLLLDVTPL
401 SLGLETAGGG  MTVLIPRNTT  IPTKKEQVFS  TYSDNQPGVL  IQVYEGERAR
451 TKDNNLLGKF  ELSGIPPAPR  GVPQITVCFD  IDANGILNVS  AEDKTTGQKN
501 KITITNDKGR  LSKEEIERMV  QEAKEYKSED  EELKKKVEAK  NALENYAYNM
551 RNTIKDDKIN  SQLSAADKRR  IEDAIDEAIK  WLDNNQLAEA  DEFEDKMKEL
601 ESICNPIIAK  MYQGGAGGAT  MDEDGPSVGG  SAGSQTGAGP  KIEEVD
```

Spot No.: **P2**

NCBI accession No.: **gi| 249262** Species: *Manihot esculenta*

PFF score: **[54]**

Protein name: **linamarase**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

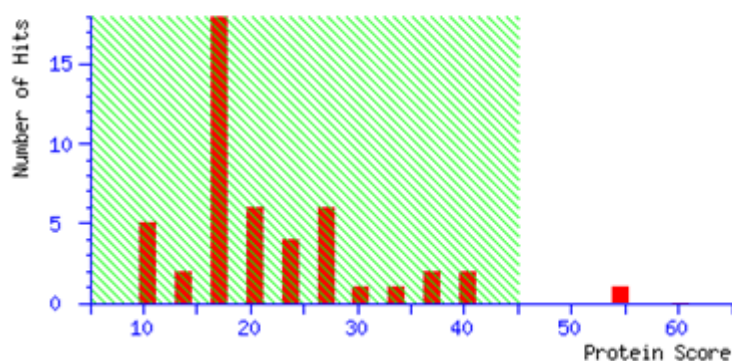
Matched sequences: **R.ILDGSNGDVAVDFYNR.Y**

Calculated Mr: **61448**

Calculated pl: **5.52**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLVLFISLLA LTRPAMGTDD DDDNIPDDFS RKYFPDDFIF GTATSAYQIE
51 GEATAKGRAP SVWDIFSKET PDRILDGSNG DVAVDFYNRY IQDIKNVKKM
101 GFNAFRMSIS WSRVIPSGRR REGVNEEGIQ FYNDVINEII SNGLEPFVTI
151 FHWDTQPALQ DKYGGFLSRD IVYDYLQYAD LLFERFGDRV KPWMTFNEPS
201 AYVGFHDDG VFAPGRCSSW VNRQCLAGDS ATEPYIVAHN LLLSHAAAVH
251 QYRKYQGTQ KGKIGITLFT FWYEPLSDSK VDVQAAKTAL DFMFGLWMDP
301 MTYGRYPRTM VDLAGDKLIG FTDEESQLLR GSYDFVGLQY YTAYYAEPIP
351 PVDPKFRRYK TDSGVNATPY DLNGNLIGPQ AYSSWFYIFP KGIRHFLNYT
401 KDTYNDPVIY VTENGVDNYN NESQPIEEAL QDDFRISYYK KHMWNALGSL
451 KNYGVKLGKY FAWSYLDNFE WNIGYTSRFG LYYVDYKNNL TRYPKKSAHW
501 FTKFLNISVN ANNIYELTSK DSRKVGKFYV M
```

Spot No.: **P3**

NCBI accession No.: **gi| 224100473** Species: *Populus trichocarpa*

PFF score: **[112]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[3]**

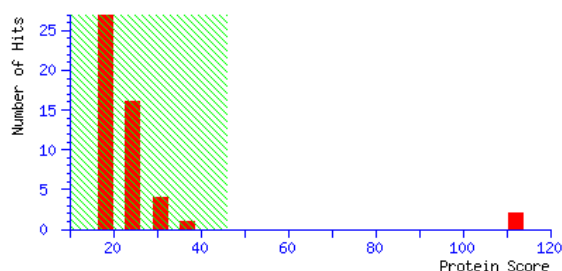
Matched sequences: **R.SPPIEEVIQAGVVPR.F**

Calculated Mr: **46093**

Calculated pl: **4.54**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  GVWSEdGNLQ  LESTTQFRKL  LSIERSSPPIE EVIQAGVVPR  FVEFLVREDF
51 PQLQFEAWA  LTNIASGTSE  NTKVVIDHGA  VPIFVKLLGS  PSDDVREQAV
101 WALGNVAGDS  PKCRDLVLSH  GALIPLLAQL  NEHAKLSMLR  NATWTLSNFC
151 RGKPQPPFEQ  VRPALPALER  LVHSTDEEVL  TDSCWALSYL  SDGTDDKIQA
201 VIEAGVCPRL  VELLHSPSPS  VLVPALRTVG  NIVTGDDMQT  QVKALLAFCL
251 FVPSFAVIEN  GLIGPLVNLL  QNAEFDIKKE  AAWAVSNATS  GGTHEQIKFL
301 VSQGCiKPLC  DLLVSPDPRI  VTVSLEGLen  ILKVGEAEKN  LGNSGDANFY
351 AQMIDDAEGL  EKIEMLQSHD  NNEIYEKAVK  ILETYWLEED  DETLPSGDGA
401 QQGFQFGGNG  VQVPSGGFNF
```

Spot No.: **P4**

NCBI accession No.: **gi| 249262** Species: *Manihot esculenta*

PFF score: **[56]**

Protein name: **linamarase**

Matched peptides No.: **[1]** Sequence coverage %: **[3]**

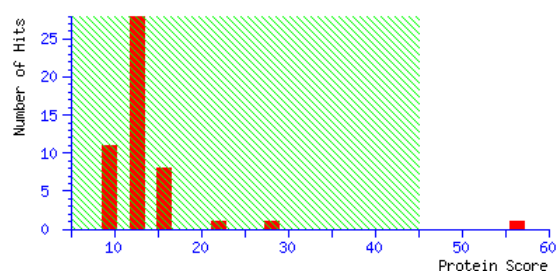
Matched sequences: **R.ILDGSNGDVAVDFYNR.Y;**

Calculated Mr: **61448**

Calculated pI: **5.52**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MLVLFISLLA  LTRPAMGTDD  DDDNIPDDFS  RKYFPDDFIF  GTATSAYQIE
51  GEATAKGRAP  SVWDIFSKET  PDRILDGSNG  DVAVDFYNRY  IQDIKNVKKM
101 GFNAFRMSIS  WSRVIPSGRR  REGVNEEGIQ  FYNDVINEII  SNGLEPFVTI
151 FHWDTPQALQ  DKYGGFLSRD  IVYDYLQYAD  LLFERFGDRV  KPWMTFNEPS
201 AYVGFAHDDG  VFAPGRCSSW  VNRQCLAGDS  ATEPYIVAHN  LLLSHAAAVH
251 QYRKYQGTQ   KGKIGITLFT  FWYEPLSDSK  VDVQAAKTAL  DFMFGLWMDP
301 MTYGRYPRTM  VDLAGDKLIG  FTDEESQLLR  GSYDFVGLQY  YTAYYAEPIP
351 PVDPKFRRYK  TDSGVNATPY  DLNGNLIGPQ  AYSSWFYIFP  KGIRHFLNYT
401 KDTYNDPVIY  VTENGVDNYN  NESQPIEEAL  QDDFRISYYK  KHMWNALGSL
451 KNYGVKLGKY  FAWSYLDNFE  WNIGYTSRFG  LYYVDYKNNL  TRYPKSAHW
501 FTKFLNISVN  ANNIYELTSK  DSRKVGKFYV  M
```


Spot No.: **P5**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[502]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[12]** Sequence coverage %: **[53]**

Calculated Mr: **12769**

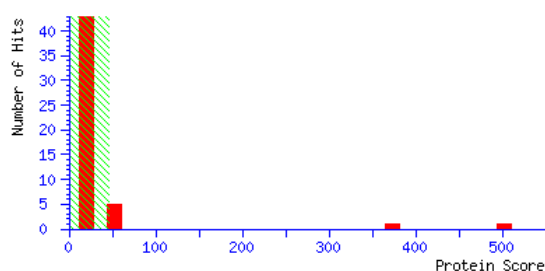
Calculated pI: **4.61**

Matched sequences:

Query	Start - End	Observed	Mr(expt)	Mr(calco)	ppm	M	Score	Expect	Rank	U	Peptide
24	6 - 20	1865.8870	1864.8797	1864.7711	58.3	0	128	2.6e-10	1	U	K.ENENFQQEANEQEEK.L
25	6 - 20	1865.8879	1864.8806	1864.7711	58.7	0	135	6.1e-11	1	U	K.ENENFQQEANEQEEK.L
26	6 - 20	1865.9290	1864.9217	1864.7711	80.8	0	98	2.6e-07	1	U	K.ENENFQQEANEQEEK.L
18	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	110	2.3e-08	1	U	K.DNSGPLKPGVETIEGVAK.T
19	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	110	2.3e-08	1	U	K.DNSGPLKPGVETIEGVAK.T
20	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	110	2.3e-08	1	U	K.DNSGPLKPGVETIEGVAK.T
21	47 - 64	1811.0605	1810.0532	1809.9472	58.6	1	153	1.4e-12	1	U	K.DNSGPLKPGVETIEGVAK.T
22	47 - 64	1811.0624	1810.0551	1809.9472	59.6	1	149	3e-12	1	U	K.DNSGPLKPGVETIEGVAK.T
23	47 - 64	1811.1030	1810.0957	1809.9472	82.0	1	142	1.6e-11	1	U	K.DNSGPLKPGVETIEGVAK.T
28	84 - 101	1902.9020	1901.8947	1902.0462	-79.7	0	85	5.6e-06	1	U	R.AVDASFTTLQNIIVPSVLK.Q
29	84 - 101	1903.1536	1902.1463	1902.0462	52.6	0	41	0.14	1	U	R.AVDASFTTLQNIIVPSVLK.Q
30	84 - 101	1903.1600	1902.1527	1902.0462	56.0	0	113	8.7e-09	1	U	R.AVDASFTTLQNIIVPSVLK.Q
6	102 - 113	1347.7456	1346.7383	1346.6500	65.6	0	96	5.5e-07	1	U	K.QLPTQACDTSVK.E
7	102 - 113	1347.7468	1346.7395	1346.6500	66.5	0	102	1.4e-07	1	U	K.QLPTQACDTSVK.E

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEGKENENF **QQEANEQEEK** LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 **PLKPGVETIE** **GVAKTVVIPA** SKIPTEAIKF ADRAVDASFT **TLQNIIVPSVL**
101 **KQLPTQACDT** **SVKESAE**

Spot No.: **P6**

NCBI accession No.: **gi|29170601** Species: *Hevea brasiliensis*

PFF score: **[429]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[18]** Sequence coverage %: **[53]**

Calculated Mr: **12769**

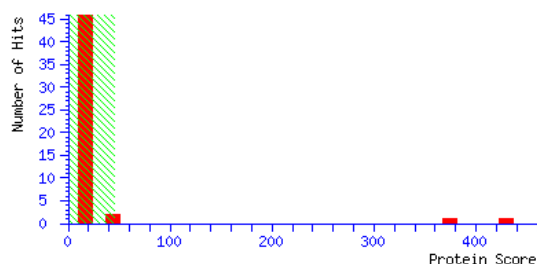
Calculated pI: **4.61**

Matched sequences:

Query	Start - End	Observed	Mr (expt)	Mr (calc)	ppm	M	Score	Expect	Rank	U	Peptide
#28	6 - 20	1865.7990	1864.7917	1864.7711	11.1	0	67	0.00033	<u>1</u>	U	K.ENENFQQEANEQEEK.L
#29	6 - 20	1865.7990	1864.7917	1864.7711	11.1	0	67	0.00033	<u>1</u>	U	K.ENENFQQEANEQEEK.L
#30	6 - 20	1865.8870	1864.8797	1864.7711	58.3	0	104	7.5e-08	<u>1</u>	U	K.ENENFQQEANEQEEK.L
#31	6 - 20	1865.8879	1864.8806	1864.7711	58.7	0	114	7.6e-09	<u>1</u>	U	K.ENENFQQEANEQEEK.L
#32	6 - 20	1865.9290	1864.9217	1864.7711	80.8	0	74	7.8e-05	<u>1</u>	U	K.ENENFQQEANEQEEK.L
#22	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	78	3.9e-05	<u>1</u>	U	K.DNSGPLKPGVETIEGVAK.T
#23	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	78	3.9e-05	<u>1</u>	U	K.DNSGPLKPGVETIEGVAK.T
#24	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	78	3.9e-05	<u>1</u>	U	K.DNSGPLKPGVETIEGVAK.T
#25	47 - 64	1811.0605	1810.0532	1809.9472	58.6	1	111	1.7e-08	<u>1</u>	U	K.DNSGPLKPGVETIEGVAK.T
#26	47 - 64	1811.0624	1810.0551	1809.9472	59.6	1	121	2e-09	<u>1</u>	U	K.DNSGPLKPGVETIEGVAK.T
#27	47 - 64	1811.1030	1810.0957	1809.9472	82.0	1	94	8.9e-07	<u>1</u>	U	K.DNSGPLKPGVETIEGVAK.T
#34	84 - 101	1902.9020	1901.8947	1902.0462	-79.7	0	67	0.00034	<u>1</u>	U	R.AVDASFTTLQNIIVPSVLK.Q
#35	84 - 101	1903.1536	1902.1463	1902.0462	52.6	0	40	0.16	<u>1</u>	U	R.AVDASFTTLQNIIVPSVLK.Q
#36	84 - 101	1903.1600	1902.1527	1902.0462	56.0	0	109	2.2e-08	<u>1</u>	U	R.AVDASFTTLQNIIVPSVLK.Q
#7	102 - 113	1347.6600	1346.6527	1346.6500	2.00	0	16	53	<u>1</u>	U	K.QLPTQACDTSVK.E
#10	102 - 113	1347.6600	1346.6527	1346.6500	2.00	0	16	53	<u>1</u>	U	K.QLPTQACDTSVK.E
#9	102 - 113	1347.7456	1346.7383	1346.6500	65.6	0	84	1e-05	<u>1</u>	U	K.QLPTQACDTSVK.E
#10	102 - 113	1347.7468	1346.7395	1346.6500	66.5	0	86	6e-06	<u>1</u>	U	K.QLPTQACDTSVK.E

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEG**KENENF QQEANEQEEK** LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 **PLKPGVETIE GVAKTVVIPA** SKIPTEAIKF ADRAVDASFT TLQNIIVPSVL
101 **KQLPTQACDT SVKESAE**

Spot No.: **P7**

NCBI accession No.: **gi| 224071449** Species: *Populus trichocarpa*

PFF score: **[75]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[2]**

Matched sequences: **K.NKIDVIPHYPGR.L;**

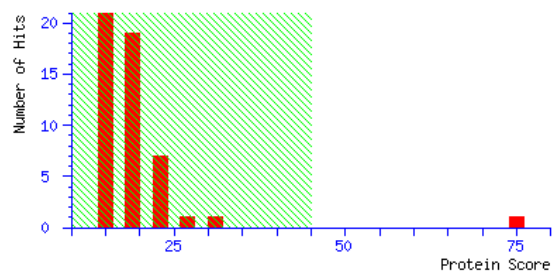
K.IDVIPHYPGR.L

Calculated Mr: **47121**

Calculated pl: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MDGTSEATWP  EILGSRNWDN  LLDPLDLSLR  KLILRCGDFC  QATYDAFNND
51  QNSRYCGTSR  YGKRNFHFKV  MLDNPENYQV  SSFLYATARV  SLPEAFLLHS
101 LSRDSWDRET  NWIGYIAVTS  DEQTKTLGRR  EIYIAFRGTT  RNYEWDILG
151 AKLKSAPLL   RGATSTTHDQ  ESSSSDDDD   DKVPKVMLGW  LTMYSDDPN
201 SPFTKLSARA  QLLAHIKELR  ERYKDDDLSE  IFTGHSLGAS  LSILSAFDLV
251 ENGITDIPVS  AFVFGSPQVG  NKEFNERFNK  YPNLKVLIHK  NKIDVIPHYP
301 GRLMGYVYTG  IEFIDTRKS  PSLKDSKNPS  DWHNLQAMLH  IVAGWNGEEQ
351 EFELKVKRSL  ALVKNKSEFL  KDECLVPGIW  WVEKNKGMVR  NEDGEWVLP
401 PDEEDLPVPE  C
```

Spot No.: **P8**

NCBI accession No.: **gi| 32186890** Species: *Gossypium hirsutum*

PFF score: **[519]**

Protein name: **actin**

Matched peptides No.: **[8]**

Sequence coverage %: **[37]**

Matched sequences: **K.YPIEHGIVSNWDDMEK.I;**

K.IWHHTFYNELR.V;

R.VAPEEHPVLLTEAPLNPK.A;

R.TTGIVLDSGDGVSHTVPIYEGYALPHAILR.L;

K.LAYVALDYEQELETAK.S;

K.NYELPDGQVITIGAER.F;

R.KDLYGNIVLSGGSTMFPGIADR.M + Oxidation (M);

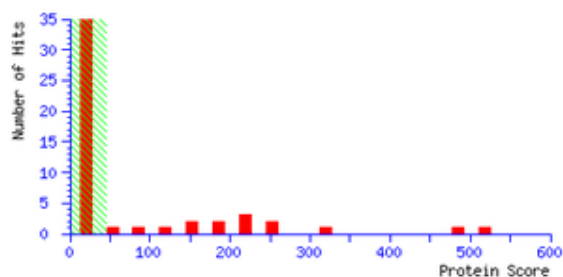
K.GEYDESGPSIVHR.K

Calculated Mr: **41917**

Calculated pI: **5.31**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MADGEDIQPL  VCDNGTGMVK  AGFAGDDAPR  AVFPSIVGRP  RHTGVMVGMG
51  QKDAYVGDEA  QSKRGILTLK  YPIEHGIVSN  WDDMEKIWHH  TFYNELRVAP
101 EEHPVLLTEA  PLNPKANREK  MTQIMFETFN  VPAMYVAIQA  VLSLYASGRT
151 TGIVLDSGDG  VSHTVPIYEG  YALPHAILRL  DLAGRDLTDA  LMKILTERGY
201  MFTTTAEREI  VRDMKEKLAY  VALDYEQELE  TAKSSSSVEK  NYELPDGQVI
251 TIGAERFRCP  EVLFQPSFIG  MEAAGIHETT  YNSIMKCDVD  IRKDLYGNIV
301 LSGGSTMFPG  IADRMSKEIT  ALAPSSMKIK  VVAPPERKYS  VWIGGSILAS
351  LSTFQQMWIS  KGEYDESGPS  IVHRKCF
```

Spot No.: **P9**

NCBI accession No.: **gi| 14423933** Species: *Hevea brasiliensis*

PFF score: **[384]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[5]**

Sequence coverage %: **[36]**

Calculated Mr: **22331**

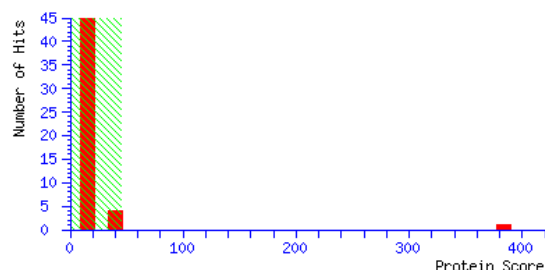
Calculated pI: **4.80**

Matched sequences:

Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M Score	Expect	Rank	U	Peptide
#27	36 - 53	1881.1389	1880.1316	1880.0255	56.4	1	86	4.6e-06	1	U K.DISGPLKPGVDTIENVVK.T
#12	91 - 105	1620.8983	1619.8910	1619.7903	62.2	0	118	3.3e-09	1	U K.QVSAQTYVAQDAPR.I
#31	106 - 124	1934.1237	1933.1164	1933.0157	52.1	0	95	5.3e-07	1	U R.IVLDVASSVFNTGVQEGAK.A
#3	134 - 143	1236.7086	1235.7013	1235.6299	57.8	0	61	0.002	1	U K.AEQYAVITWR.A
#5	183 - 194	1346.8149	1345.8076	1345.7493	43.3	0	25	8.1	1	U R.VSSYLPLLPTEK.I

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEGKENENF **QQEANEQEEK** LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 **PLKPGVETIE** **GVAKTVVIPA** SKIPTEAIKF ADRAVDASFT TLQNIVPSVL
101 **KQLPTQACDT** **SVKESAE**

Spot No.: **P10**

NCBI accession No.: **gi| 224071449** Species: *Populus trichocarpa*

PFF score: **[71]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[2]**

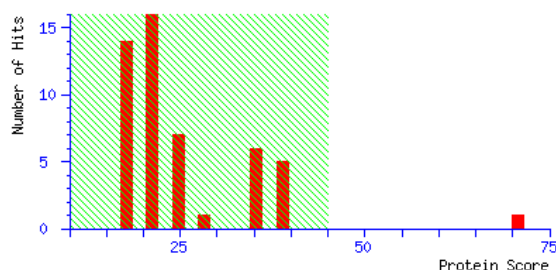
Matched sequences: **K.IDVIPHYPGRL;**

Calculated Mr: **47121**

Calculated *pl*: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDGTSEATWP EILGSRNWDN LLDPLDLSLR KLILRCGDFC QATYDAFNND
51 QNSRYCGTSSR YGKRNFHFKV MLDNPENYQV SSFLYATARV SLPEAFLLHS
101 LSRDSWDRET NWIGYIAVTS DEQTKTLGRR EIYIAFRGTT RNYEWDILG
151 AKLKSAPLL RGATSTTHDQ ESSSSDDDD DKVPKVMLGW LTMYISDDPN
201 SPFTKLSARA QLLAHIKELR ERYKDDLSI IFTGHSLGAS LSILSAFDLV
251 ENGITDIPVS AFVFGSPQVG NKEFNERFNK YPNLKVLIHK NKIDVIPHY
301 GRLMGVYVTG IEFEIDTRKS PSLKDSKNPS DWHNLQAMLH IVAGWNGEEQ
351 EFELKVKRSL ALVNKSSEFL KDECLVPGIW WVEKNKGMVR NEDGEWVLAP
401 PDEEDLPVPE C
```

Spot No.: **P11**

NCBI accession No.: **gi| 224071449** Species: *Populus trichocarpa*

PFF score: **[52]**

Protein name: **predicted protein**

Matched peptides No.: **[1]**

Sequence coverage %: **[2]**

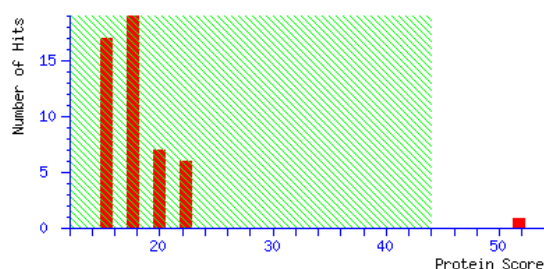
Matched sequences: **K.IDVIPHYPGRL**;

Calculated Mr: **47121**

Calculated pI: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDGTSEATWP EILGSRNWDN LLDPLDLSLR KLILRCGDFC QATYDAFNND
51 QNSRYCGTSR YGKRNFHFKV MLDNPENYQV SSFLYATARV SLPEAFLLHS
101 LSRDSDRET NWIGYIAVTS DEQTKILGRR EIYIAFRGTT RNYEVDILG
151 AKLKSAPLL RGATSTTHDQ ESSSSDDDD DKVPKVMLGW LTMYISDDPN
201 SPFTKLSARA QLLAHIKELR ERYKDDLSI IFTGHSLGAS LSILSAFDLV
251 ENGITDIPVS AFVFGSPQVG NKEFNERFNK YPNLKVLHIK NKIDVIPHY
301 GRLMGYVYTG IEFIDTRKS PSLKDSKNPS DWHNLQAMLH IVAGWNGEEQ
351 EFELKVKRSL ALVKNSSSEFL KDECLVPGIW WVEKNKGMVR NEDGEWVLAP
401 PDEEDLPVPE C
```

Spot No.: **P12**

NCBI accession No.: **gi| 224071449** Species: *Populus trichocarpa*

PFF score: **[106]**

Protein name: **predicted protein**

Matched peptides No.: **[2]**

Sequence coverage %: **[2]**

Matched sequences: **K.NKIDVIPHYPGRL;**

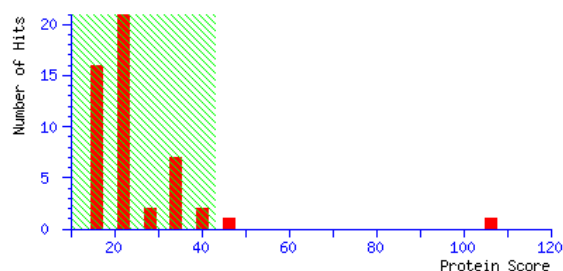
K.IDVIPHYPGRL;

Calculated Mr: **47121**

Calculated *pI*: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDGTSEATWP EILGSRNWDN LLDPLDLSLR KLILRCGDFC QATYDAFNND
51 QNSRYCGTSR YGKRNFHFKV MLDNPNYQV SSFLYATARV SLPEAFLLHS
101 LSRDSDRET NWIGYIAVTS DEQTKTLGRR EIYIAFRGTT RNYEVDILG
151 AKLKSAPLL RGATSTTHDQ ESSSSDDDD DKVPKVMLGW LTMYISDDPN
201 SPFTKLSARA QLLAHIKELR ERYKDDLSI IFTGHSLGAS LSILSAFDLV
251 ENGITDIPVS AFVFGSPQVG NKEFNERFNK YPNLKVLIH NKIDVIPHY
301 GRLMGYVYTG IEFIDTRKS PSLKDSKNPS DWHNLQAMLH IVAGWNGEEQ
351 EFELKVKRSL ALVNKSSEFL KDECLVPGIW WVEKNKGMVR NEDGEWVLAP
401 PDEEDLPVPE C
```


Spot No.: **P13**

NCBI accession No.: **gi| 1550740** Species: *Arabidopsis thaliana*

PFF score: **[51]**

Protein name: **GDP-associated inhibitor**

Matched peptides No.: **[1]** Sequence coverage %: **[5]**

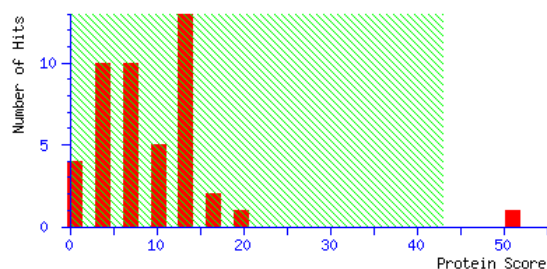
Matched sequences: **R.FQGGSPYIYPLYGLGELPQAFAR.L;**

Calculated Mr: **50269**

Calculated pI: **5.49**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 43 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDEEYEVIVL GTGLKECILS GLLSVDGLKV LHMDRNDYYG GESTSLNLNQ
51 LWKKFRGEEK APAHLGSSRD YNVDMMPKFM MANGKLVRLV IHTDVTKYLS
101 FKAVDGSYVF VQGVQKQVPA TPMEALKSPL MGIFEKRRAG KFFSYVQEYD
151 EKDPKTHDGM DLRRVTTKDL IAKFGLKEDT IDFIGHAVAL HCNDNHLHQP
201 AYDVTMRMKL YAESLARFQG GSPYIYPLYG LGELPQAFAR LSAVYGGTYM
251 LNKPECKVEF DEEGKVSGVT SEGETAKCKK VVCDPSYLTN KVRKIGRVAR
301 AIAIMSHPIP NTNDSQSVQV ILPQQLGRK SDMYVFCCSY SHNVAPKGKF
351 IAFVSTDAET DNPQTELQPG IDLLGPVDEL FFDIYDRYEP VNEPTLDNCF
401 ISTSYDATTH FDTTVVDVLN MYKLITGKEL DLSVDLNPAS AAEEE
```

Spot No.: **P14**

NCBI accession No.: **gi| 255552291** Species: *Ricinus communis*

PFF score: **[144]**

Protein name: **short chain dehydrogenase, putative**

Matched peptides No.: **[3]** Sequence coverage %: **[11]**

Matched sequences: **K.VALVTGGDSGIGR.A;**

K.AEGAKDPIAIPTDVGFEEENCR.K;

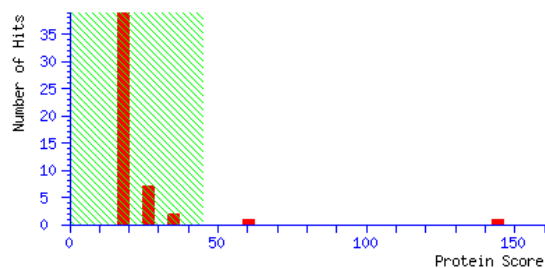
K.DPIAIPTDVGFEEENCR.K

Calculated Mr: **32148**

Calculated pI: **6.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MATRRGYRFP PQSQDKQPGK EYLMHPLPEF INPHYKPSNK LQDKVALVTG
51 GDSGIGRAVS YYFTLEGATV AFTYVKGRED KDKDHILKIL HEVKAEGAKD
101 PIAIPTDVGF EENCRKVIDQ IMSEYGKIDI LVNNAGEAHY STTIEDITDP
151 MLERVFRTNI FGHHFMSRHA LKHMKEGGCI INTASVAAYA GFSFMVDYSS
201 TKGAVVAFTR SLALQLIDRG IRVNAVAPGS VWTFFQPSTL SAEQVAQVGS
251 GVPMDRAAQP YEIAPSFVFL ASNDCSSYFT GQVLHPNGMF
```

Spot No.: **P15**

NCBI accession No.: **gi| 218157** Species: *Oryza sativa*

PFF score: **[174]**

Protein name: **cytoplasmic aldolase**

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: **K.KVAPEVIAEYTVR.T;**

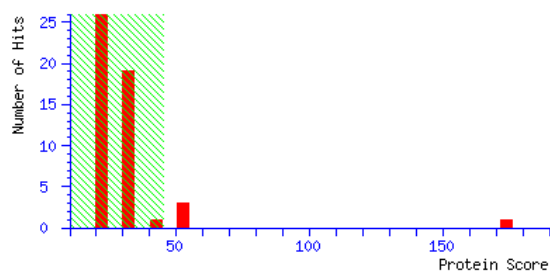
K.VAPEVIAEYTVR.T;

Calculated Mr: **39151**

Calculated pI: **6.56**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSAYCGKYKD ELIKNAAYIG TPGKGILAAD ESTGTIGKRF ASINVENVED
51 NRRAFRELLF CTPGALQYIS GVILFDETLY QKTKDGKPFV DILKEAGALP
101 GIKVDKGTIE VAGTDKETT QGHDDLKQC AKYYEAGARF AKWRAVLKIG
151 PNQPSQLAID LNAQGLACYA IICQENGLVP IVEPEILVDG PHDIDRCAYV
201 SEVVLAACYK ALNEHHVLE GTLLKPNMVT PGSDAKKVAP EVIAEYTVRT
251 LQRTVPPAVP AIVFLSGGQS EEEATLNLNA MNKLSAKKPW SLSFSFGRAL
301 QQSTLKAWAG KTENVEKARA AFLVRCKANS EATLGTYKGD AVLGEGAAES
351 LHVVDYKY
```

Spot No.: **P16**

NCBI accession No.: **gi| 218157** Species: *Oryza sativa Japonica Group*

PFF score: **[125]**

Protein name: **cytoplasmic aldolase**

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: **K.KVAPEVIAEYTVR.T;**

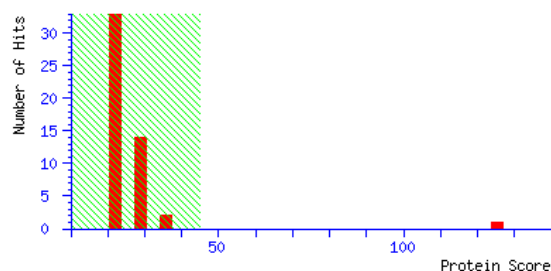
K.VAPEVIAEYTVR.T;

Calculated Mr: **39151**

Calculated pI: **6.56**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSAYCGKYKD ELIKNAAYIG TPGKGILAAD ESTGTIGKRF ASINVENVED
51 NRRAFRELLF CTPGALQYIS GVILFDEPLY QKTKDGKPFV DILKEAGALP
101 GIKVDKGTIE VAGTDKETT QGHDDLKQC AKYYEAGARF AKWRAVLKIG
151 PNQPSQLAID LNAQGLACYA IICQENGLVP IVEPEILVDG PHDIDRCAYV
201 SEVLAACYK ALNEHHVLE GTLLKPNMVT PGSDAKKVAP EVIAEYTVRT
251 LQRTVPPAVP AIVFLSGGQS EEEATLNLNA MNKLSAKKPW SLSFSFGRAL
301 QQSTLKAWAG KTENVEKARA AFLVRCKANS EATLGTYKGD AVLGEAAES
351 LHVVDYKY
```

Spot No.: **P17**

NCBI accession No.: **gi| 14423933** Species: *Hevea brasiliensis*

PFF score: **[171]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[3]**

Sequence coverage %: **[19]**

Calculated Mr: **22331**

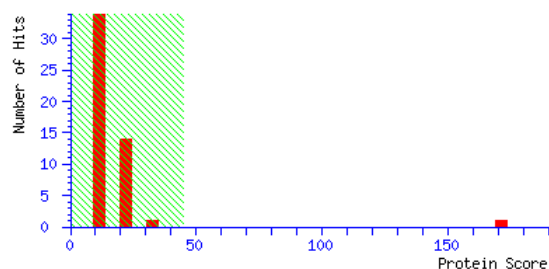
Calculated pI: **4.80**

Matched sequences:

Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M Score	Expect	Rank	U	Peptide
#1	36 - 53	1881.1389	1880.1316	1880.0255	56.4	1 86	3.3e-06	1	U	K.DISGPKPGVDTIENVVK.T
#2	134 - 143	1236.7086	1235.7013	1235.6299	57.8	0 61	0.0016	1	U	K.AEQYAVITWR.A
#3	183 - 194	1346.8149	1345.8076	1345.7493	43.3	0 25	6.5	1	U	R.VSSYLPLLPTK.I

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVTS LDGVVPPVIK QVSAQYTSVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTEQG YRVSSYLPLL PTEKITKVFQ
201 DEAS
```

Spot No.: **P18**

NCBI accession No.: [gi| 118489480](#)

Species: *Populus trichocarpa x Populus deltoids*

PFF score: **[74]**

Protein name: [unknown](#)

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: [R.KLLVALVSAYR.Y](#);

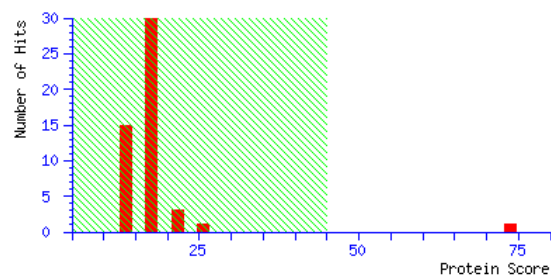
[K.LLVALVSAYR.Y](#)

Calculated Mr: **35859**

Calculated pI: **8.42**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAHLEALAKA FTGLGVDEKS LIENLGKSHP EQRTLFRKKT PQLFIEDERS
51 FERWNDHCVR LLKHEFVRFK NALVLWAMHP WERDARLVKE ALKKG PQSYG
101 VIVEIACRS SEELGARKA YHSLFDQSIE EDVATHIHGS ERKLLVALVS
151 AYRYEGPKVK EDAAKSEAKI LANAIKNGNK KNPIEDEEVI RILSTRSKAH
201 LKVACKHYKE VSGNNIHEDL DPSDLILKET VECLCTPHAY FSKVLDEAMS
251 SNAHKNTKKG LTRVIVTRAD VDMKEIKEEY MNLFGVSLSK KIEEKANGNY
301 RDFLVTLITR DN
```

Spot No.: **P19**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[341]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[3]** Sequence coverage %: **[19]**

Matched sequences:

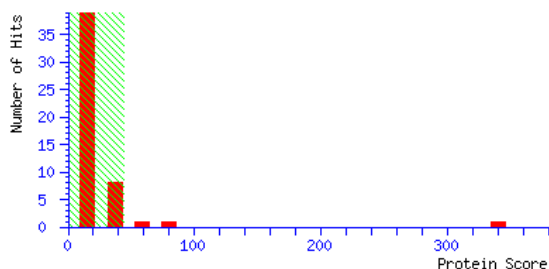
Query	Start	End	Observed	Mr(expt)	Mr(calc)	ppm	M Score	Expect	Rank	U	Peptide
29	41	58	1849.2604	1848.2531	1847.9993	137	1	169	1.6e-14	1	U K.DKSGPLQPGVDIIEGPVK.N
16	43	58	1606.0936	1605.0863	1604.8774	130	0	121	1.3e-09	1	U K.SGPLQPGVDIIEGPVK.N
1	59	67	1045.7102	1044.7029	1044.5716	126	0	51	0.021	1	U K.NVAVPLYNR.F

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEDEDNQQG QGEGLKYLGF VQDAATYAVT TFSNVYLFAK DKSGPLQPGV
51 DIIEGPVKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD
101 ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN
```

Spot No.: **P20**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[597]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[16]** Sequence coverage %: **[38]**

Matched sequences:

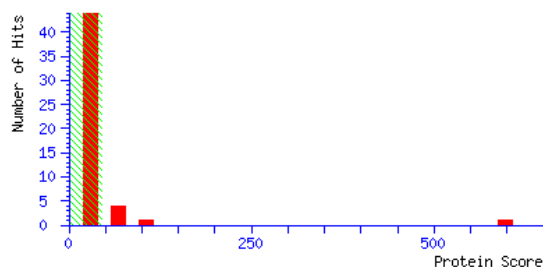
Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M	Score	Expect	Rank	U	Peptide
94	41 - 58	1849.0222	1848.0149	1847.9993	8.46	1	119	1.4e-09	1	U	K.DKSGPLQPGVDIIEGPK.N
95	41 - 58	1849.1149	1848.1076	1847.9993	58.6	1	115	4.3e-09	1	U	K.DKSGPLQPGVDIIEGPK.N
97	41 - 58	1849.2604	1848.2531	1847.9993	137	1	169	1.6e-14	1	U	K.DKSGPLQPGVDIIEGPK.N
68	43 - 58	1606.0936	1605.0863	1604.8774	130	0	121	1.3e-09	1	U	K.SGPLQPGVDIIEGPK.N
2	59 - 67	1045.5845	1044.5772	1044.5716	5.38	0	71	0.00021	1	U	K.NVAVPLYNR.F
3	59 - 67	1045.6366	1044.6293	1044.5716	55.3	0	71	0.00023	1	U	K.NVAVPLYNR.F
4	59 - 67	1045.6639	1044.6566	1044.5716	81.4	0	68	0.00043	1	U	K.NVAVPLYNR.F
5	59 - 67	1045.7102	1044.7029	1044.5716	126	0	51	0.021	1	U	K.NVAVPLYNR.F
6	59 - 67	1045.7162	1044.7089	1044.5716	131	0	77	5.8e-05	1	U	K.NVAVPLYNR.F
69	78 - 92	1621.9017	1620.8944	1620.8723	13.6	0	127	2.8e-10	1	U	K.FVDSTVVASVTIIDR.S
70	78 - 92	1621.9749	1620.9676	1620.8723	58.8	0	43	0.077	1	U	K.FVDSTVVASVTIIDR.S
71	78 - 92	1621.9778	1620.9705	1620.8723	60.6	0	109	2e-08	1	U	K.FVDSTVVASVTIIDR.S
18	100 - 110	1158.6577	1157.6504	1157.6404	8.64	0	80	2.3e-05	1	U	K.DASIQVVS AIR.A
19	100 - 110	1158.7130	1157.7057	1157.6404	56.4	0	85	6.8e-06	1	U	K.DASIQVVS AIR.A
21	100 - 110	1158.7190	1157.7117	1157.6404	61.6	0	56	0.0056	1	U	K.DASIQVVS AIR.A
23	100 - 110	1158.7994	1157.7921	1157.6404	131	0	103	1e-07	1	U	K.DASIQVVS AIR.A

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEDEDNQQG QGEGLKYLGF VQDAATYAVT TFSNVYLFAK **DKSGPLQPGV**
51 **DIIEGPKNV** AVPLYNRFSY IPNGALKFVD **STVVASVTII** DRSLPPIVKD
101 **ASIQVVS AIR** AAPEAARSLA SSLPGQTKIL AKVIFYGEN

Spot No.: **P21**

NCBI accession No.: **gi|132270** Species: *Hevea brasiliensis*

PFF score: **[672]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[23]** Sequence coverage %: **[46]**

Matched sequences:

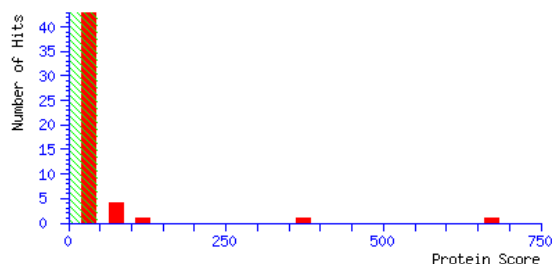
Query	Start - End	Observed	Mr (expt)	Mr (calc)	ppm	M	Score	Expect	Rank	U	Peptide
#134	41 - 58	1849.0222	1848.0149	1847.9993	8.46	1	119	1.9e-09	<u>1</u>	U	K.DKSGPLQPGVDIIEGPK.N
#135	41 - 58	1849.0710	1848.0637	1847.9993	34.9	1	148	2.9e-12	<u>1</u>	U	K.DKSGPLQPGVDIIEGPK.N
#136	41 - 58	1849.0801	1848.0728	1847.9993	39.8	1	157	3.4e-13	<u>1</u>	U	K.DKSGPLQPGVDIIEGPK.N
#137	41 - 58	1849.1149	1848.1076	1847.9993	58.6	1	115	5.9e-09	<u>1</u>	U	K.DKSGPLQPGVDIIEGPK.N
#139	41 - 58	1849.2604	1848.2531	1847.9993	137	1	169	2.3e-14	<u>1</u>	U	K.DKSGPLQPGVDIIEGPK.N
#100	43 - 58	1605.9473	1604.9400	1604.8774	39.0	0	128	3.3e-10	<u>1</u>	U	K.SGPLQPGVDIIEGPK.N
#101	43 - 58	1606.0936	1605.0863	1604.8774	130	0	121	1.8e-09	<u>1</u>	U	K.SGPLQPGVDIIEGPK.N
#5	59 - 67	1045.5845	1044.5772	1044.5716	5.38	0	71	0.00023	<u>1</u>	U	K.NVAVPLYNR.F
#6	59 - 67	1045.6366	1044.6293	1044.5716	55.3	0	71	0.00026	<u>1</u>	U	K.NVAVPLYNR.F
#7	59 - 67	1045.6639	1044.6566	1044.5716	81.4	0	68	0.00048	<u>1</u>	U	K.NVAVPLYNR.F
#8	59 - 67	1045.7102	1044.7029	1044.5716	126	0	51	0.023	<u>1</u>	U	K.NVAVPLYNR.F
#9	59 - 67	1045.7162	1044.7089	1044.5716	131	0	77	6.5e-05	<u>1</u>	U	K.NVAVPLYNR.F
#102	78 - 92	1621.6825	1620.6752	1620.8723	-122	0	49	0.024	<u>1</u>	U	K.FVDSTVVASVTIIDR.S
#103	78 - 92	1621.9017	1620.8944	1620.8723	13.6	0	127	3.8e-10	<u>1</u>	U	K.FVDSTVVASVTIIDR.S
#104	78 - 92	1621.9475	1620.9402	1620.8723	41.9	0	95	6.1e-07	<u>1</u>	U	K.FVDSTVVASVTIIDR.S
#105	78 - 92	1621.9749	1620.9676	1620.8723	58.8	0	43	0.1	<u>1</u>	U	K.FVDSTVVASVTIIDR.S
#106	78 - 92	1621.9778	1620.9705	1620.8723	60.6	0	109	2.7e-08	<u>1</u>	U	K.FVDSTVVASVTIIDR.S
#30	100 - 110	1158.6577	1157.6504	1157.6404	8.64	0	80	2.7e-05	<u>1</u>	U	K.DASIQVVS AIR.A
#31	100 - 110	1158.7063	1157.6990	1157.6404	50.6	0	110	2.5e-08	<u>1</u>	U	K.DASIQVVS AIR.A
#32	100 - 110	1158.7130	1157.7057	1157.6404	56.4	0	85	7.9e-06	<u>1</u>	U	K.DASIQVVS AIR.A
#34	100 - 110	1158.7190	1157.7117	1157.6404	61.6	0	56	0.0065	<u>1</u>	U	K.DASIQVVS AIR.A
#36	100 - 110	1158.7994	1157.7921	1157.6404	131	0	103	1.2e-07	<u>1</u>	U	K.DASIQVVS AIR.A
#18	118 - 128	1088.6615	1087.6542	1087.5873	61.5	0	61	0.0021	<u>1</u>	U	R.SLASSLPQGTK.I

Calculated Mr: **14713**

Calculated pI: **5.04**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEDEDNQQG QEGGLKYLGF VQDAATYAVT TFSNVYLFAK **DKSGPLQPGV**
51 **DIIEGPKNV AVPLYNRFSY IPNGALKFVD STVVASVTII DRSLPPIVKD**
101 **ASIQVVS AIR AAPEAARSLA SSLPGQTKIL AKVIFYGEN**

Spot No.: **P22**

NCBI accession No.: **gi|38154482** Species: *Nicotiana benthamiana*

PFF score: **[197]**

Protein name: **molecular chaperone Hsp90-1**

Matched peptides No.: **[5]** Sequence coverage %: **[8]**

Matched sequences: **K.ADLVNNLGTIAR.S;**

K.HNDDEQYVWESQAGGSFTVTR.D;

K.RAPFDLFDTR.K;

R.APFDLFDTR.K;

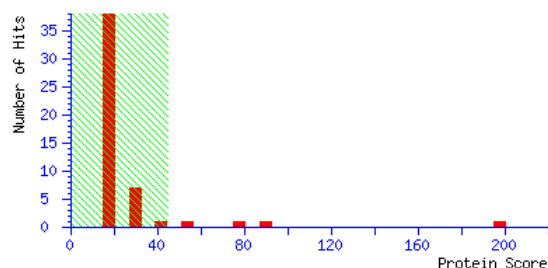
K.GIVDSEDPLNISR.E

Calculated Mr: **80340**

Calculated pI: **4.94**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEAETFAFQ AEINQLLSLI INTFYSNKEI FLRELISNSS DALDKIRFES
51 LTDKSKLDAQ PELFIHIIPD KTNNSLTIID SGIGMTKADL VNNLGTIARS
101 GTKEFMEALA AGADVSMIGQ FGVGFYSAYL VAEKVIVITK HNDDEQYVWE
151 SQAGGSFTVT RDTSGDNLGR GTKITLFLKE DQLEYLEERR LKDLIKHHSE
201 FISYPISLWV EKTIEKEISD DEEEEEKKDE EGKVEEVDEE KEKEEKKKKK
251 VKEASNEWSL VNKQKPIWMR KPDEITKEEY AAFYKSLTND WEEHLAVKHF
301 SVEGQLEFKA ILFVPKRAPF DLFDTRKKPN NIKLYVRRVF IMDNCEELIP
351 EYLSFVKGIV DSEDPLNIS REMLQQNKIL KVIRKNLVKK CVELFFEIAE
401 NKEDYDKFYE AFSKNLKLGI HEDSQNRSKF AELLRYHSTK SGDEMTSLKD
451 YVTRMKEGQN DIYYITGESK KAVENSPFLE KLKKKGYEVL YMVDAIDEYS
501 IGQLKEFEGK KLVSATKEGL KLDESEDEKK KQEELKEKFE GLCKVIKDVL
551 GDKVEKVVVS DRVVDSPCCL VTGEYGWTAN MERIMKAQAL RDSSMAGYMS
601 SKKTMEINPE NAIMEELRKR ADADKNDKSV KDLVLLLFET ALLTSGFSLE
651 EPNTFGNRIH RMLKLGLSID DDSGDADVDM PALEDAEADA EGSKMEEVD
```

Spot No.: **P23**

NCBI accession No.: **gi| 1708314** Species: *Ipomoea nil*

PFF score: **[126]**

Protein name: RecName: Full=Heat shock protein 83

Matched peptides No.: **[5]**

Sequence coverage %: **[8]**

Matched sequences: **K.LDAQPELFI**.L;

K.ADLVNNLGTIAR.S;

K.ITLFLKEDQLEYLEER.R;

K.RAPFDLFDTR.K;

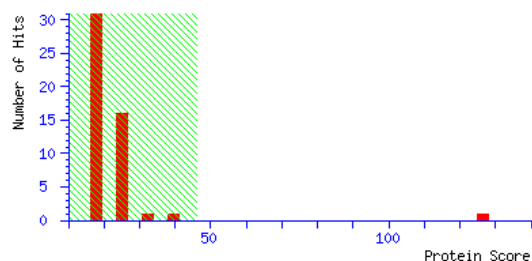
K.LGIHEDSQNR.A

Calculated Mr: **81055**

Calculated pI: **4.95**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MADVQMAEAE TFAFQAEINQ LLSLIINTFY SNKEIFLREL ISNASDALDK
51  IRFESLTDKS KLDAQPELFI RLVPDKTKT LSIIDSGVGM AKADLVNNLG
101 TIARSGTKEF MEALQAGADV SMIGQFGVGF YSAYLVAEKV IVTTKHNDDE
151 QYIWESQAGG SFTVTRDVDG EQLGRGKIT LFLKEDQLEY LEERRIKDLV
201 KKHSEFISYP IYLWTEKTTE KEISDDEDE PKKEEEDIE EVDEDKEKEG
251 KKKKKIKEVS HEWQLINKQK PIWLRKPEEI TKEEYASFYK SLTNDWEDHL
301 AVKHFSVEGQ LEFKAILFVP KRAPFDLFDT RKKMNNIKLY VRRVFIMDNC
351 EELIPEYLG FVGVVSDDL PLNISREMLQ QNKILKVIRK NLVKKCIEMF
401 NEIAENKDDY NKFYEAFSKN LKGIHEDSQ NRAKLADLLR YYSTKSGDEL
451 TSLKDYVTRM KEGQKDIYYI TGESKKAVERN SPFLERLKKK GYEVLFMVDA
501 IDEYAVGQLK EYDGKLVSA TKEGLKLEDD DEEEKKKREE KKKSFENLCK
551 IIKDILGDKV EKVVVSDRIV DSPCCLVTGE YGWTANMERI MKAQALRDSS
601 MSSYSSKKT MEINPDNGIM EELRKRAEAD KNDKSVKDLV LLLFETALLT
651 SGFSLDDPNT FGARIHRMLK LGLSIDEEEA GDDADMPALE EEAGEESKME
701  EVD
```

Spot No.: **P24**

NCBI accession No.: **gi| 20559** Species: *Petunia x hybrida*

PFF score: **[136]**

Protein name: **hsp70 (AA 6 - 651)**

Matched peptides No.: **[4]**

Sequence coverage %: **[11]**

Matched sequences: **K.NAVVTVPAYFNDSQR.Q;**

R.TLSSTAQTIEIDSLYEGIDFYSTITR.A;

R.ARFEELNMDLFR.K;

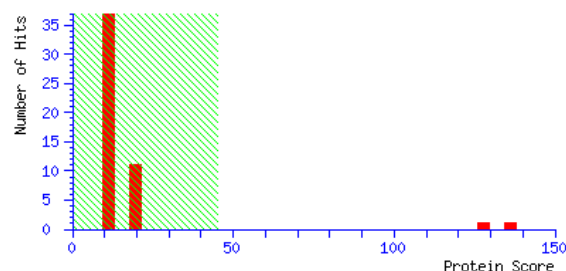
K.EQVFSTYSDNQPGVLIQVYEGER.A

Calculated Mr: **71137**

Calculated pI: **5.07**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

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

Spot No.: **P25**

NCBI accession No.: **gi| 255566038** Species: *Ricinus communis*

PFF score: **[118]**

Protein name: **Phospholipase C 3 precursor, putative**

Matched peptides No.: **[2]** Sequence coverage %: **[4]**

Matched sequences: **K.TVVVLVQENR.S;**

K.HCEKGELPNYVVIEPR.Y

Calculated Mr: **59111**

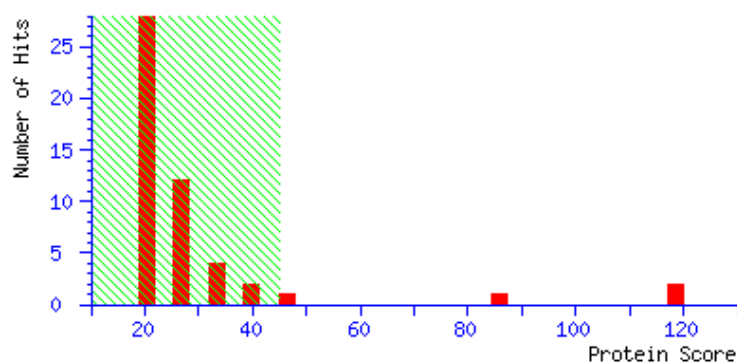
Calculated *pl*: **5.08**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAAESSTSAN  EYPIKTVVVL  VQENRSFDHM  LGWLKTLNPE  IDGVTGQESN
51  PISTSDLNSS  LVFFRDQAAY  VDPDPGHSIQ  AIYEQVFGVE  WTEAALSSSEN
101 AVSPKMNGFA  QNAERTQQGM  AETVMNGFRP  EAVPVYKELA  MNFAVCDRWF
151 ASIPTSTQPN  RLYLHSATSH  GATSNDTKML  AEGFPQKTIF  ESMHEAGFSF
201 GIYFQQVPTT  LFYRNLRKIK  YLKNFHQFDL  QFKKHCEKGE  LPNYVVIEPR
251 YYDLLSIPAN  DDHPSHDVSE  GQKFVKEVYE  ALRASPQWNE  MLFIIIIYDEH
301 GGFYDHVPTP  ATGIPTPDDI  VGPAPYLFKF  DRLGVRVPAV  LISPWIEPGT
351 VLHGPSGPQE  TSEFEHSSIA  ATVKKLFNLK  EFLTKRDEWA  GTFESVLTRT
401 SPRIDCPVTL  TEPVKLRSRG  ANEEANISEF  QQELVQLAAV  LNGDHGTDIY
451 PHKLVESMKV  SEAANYVENA  FKRFEYEEYEK  ARDGGVDESE  VIALVKTEAL
501 AIITNTSASS  KSFIQKLFSC  IVCDN
```

Spot No.: **P26**

NCBI accession No.: **gi| 4235430** Species: *Hevea brasiliensis*

PFF score: **[80]**

Protein name: **latex-abundant protein**

Matched peptides No.: **[3]** Sequence coverage %: **[9]**

Matched sequences: **R.SAEPGDLLFVHYSGHGTRL**;

R.EFVDQVPHGCR.I;

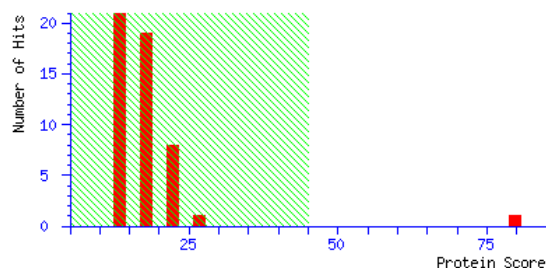
K.QTIQDAFESR.G

Calculated Mr: **46443**

Calculated pI: **5.01**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MAKKAVLIGI  NYPGTKAELK  GCINDVKRMY  RCLVDRYGFS  EEDITVLIDI
51  DESYIQPTGK  NIRRVLTDLV  RSAEPGDLLF  VHYSGHGTRL  PAETGEDDDT
101  GFDECIVPCD  MNLITDDDFR  EFVDQVPHGC  RITVVSDSCH  SGGLIDEAKE
151  QIGESTKRKE  EEESGFGFK  SFLKQTIQDA  FESRGVHLPS  DLHHHHGHRD
201  EEDFDNRVVE  EDYGDSGYVK  SKSLPLSTLI  EILKQKTGKD  DIDVGKLRPT
251  LFDMFGDDAS  PKVKKFMKVI  LNKLRHGDGE  SGGGGFLGMV  GSLAQEFLKH
301  KLDENDESIV  KPALETEVDS  KQEVYAGTK  RSLPDGGILI  SGCQTDQISA
351  DASPSGKSSE  AYGALSNAIQ  TIIAETDGAV  TNQELVLKAR  KMLKKQGFTQ
401  KPGLYCSDDH  VEASFVC
```

Spot No.: **P27**

NCBI accession No.: **gi| 297833008** Species: *Arabidopsis lyrata subsp. Lyrata*

PFF score: **[53]**

Protein name: **phosphoesterase family protein**

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: **K.TVVVLVQENR.S;**

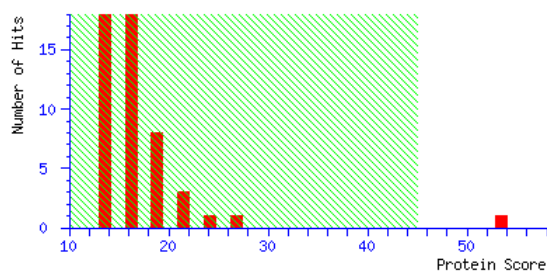
K.LPNYVVIEPR.Y

Calculated Mr: **59395**

Calculated pI: **5.21**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MGEETSSGGG SSSSPIKTVV VLVQENRSFD HMLGWFKELN PEIDGVSESE
51 PRSNPISTSD PNSAQVFFGK ESQNIDPDG HSFQAIYEQV FGKPFSDSP
101 YPYPKMNGFV QNAEAITKGM SEKVVMQGFV PEKLPVFKEL VQEFVAVCDRW
151 FSSLPSSTQP NRLYVHAATS NGAFSNDTNT LVRGFPQRTV FESLEESGFT
201 FGIYYQSFPN CLFYRNMRKL KYVDNFHQYH LSFKRHCKEG KLPNYVVIEP
251 RYFNILSAPA NDDHPKNDVA EGQNLVKEIY EALRASPQWN QILFVVVYDE
301 HGGYYDHSVPT PVTGVPNPDG LVGPEPYNFK FDRLGVRVPA LLISPWIEPK
351 TVLHEPNGPE PTSQFEHSSI PATLKKIFNL KSFLTKRDEW AGTFDAVINR
401 TSPRTDCPVT LPELPRARDI DIETQEDED LTDFQIELIQ AAVALNGDHI
451 KDIYPFKLAD NMKVLDAARY VEEAFTRFHG ESKKAKEGGL DEHEIVDLSK
501 GSTRHSSPKS FVQKFFSCLI CDN
```


Spot No.: **P28**

NCBI accession No.: **gi| 226530579** Species: *Zea mays*

PFF score: **[108]**

Protein name: **uncharacterized protein LOC100272911**

Matched peptides No.: **[4]** Sequence coverage %: **[11]**

Matched sequences: **K.NAVITVPAYFNDSQR.Q;**

R.IINEPTAAAIAAYGLDKK.A;

K.ATAGDTHLGGEDFDNR.L;

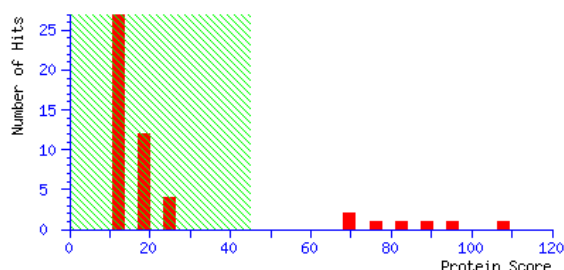
K.SQIHDVVLVGGSTR.I

Calculated Mr: **62054**

Calculated *pI*: **5.23**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MKMWPFKVVP GPADKPMIVV TYKGEEKKFS AEEISSMVLV KMKEIAEAYL
51 STTIKNAVIT VPAYFNDSQR QATKDAGVIA GLNVTRIIINE PTAAAIAAYGL
101 DKKATSTGEK NVLIFDLGGG TFDVSILTIE EGIFEVKATA GDTHLGGEDF
151 DNRLVNHFVM EFKRKHKKDI SGNPRALRRL RTACERAKRT LSSTAQTIE
201 IDSLYEGIDF YATITRARFE ELNMDLFRKC MEPVEKCLRD AKMDKSQIHD
251 VVLVGGSTRI PKVQQLLQDF FNGKELCKSI NPDEAVAYGA AVQAAILSGE
301 GNQKVQDLLL LDVTPLSLGL ETAGGVMTVL IPRNTTIPTK KEQVFSTYSD
351 NQPGVLIQVY EGERTRTKDN NLLGKFELTG IPPAPRGVPQ INVTFDIDAN
401 GILNVSAEDK TTGKKNKITI TNDKGRLSKE EIERMVQEAE KYKTEDEEVK
451 RKVEARNALE NYAYNMRNTV RDEKIASKLP ADDKKKIEDT IEDAIKWLDG
501 NQLAEAEFE DKMKELESIC NPIISQMYQG GAGAAGMDED VPGGGAGNGG
551 GSGAGPKIEE VD
```


Spot No.: **P29**

NCBI accession No.: **gi|149938954** Species: *Actinidia chinensis*

PFF score: **[133]**

Protein name: **G6PD1**

Matched peptides No.: **[3]** Sequence coverage %: **[7]**

Matched sequences: **R.QGFLQSNEVHIFGYAR.T;**

R.GGYFDEYGIIR.D;

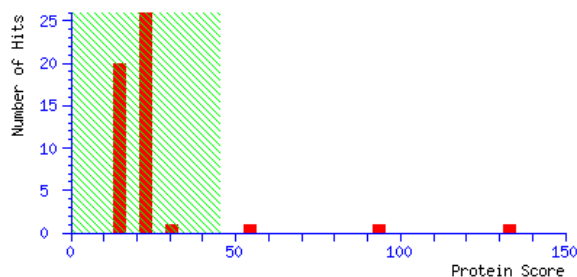
R.YQGVTIPEAYER.L

Calculated Mr: **59276**

Calculated pI: **6.75**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MGSGAWTIEK  RSTFRNESFS  KEYVTVSETG  CLSIIVLGAS  GDLAKKKTFF
51  ALFNLYRQGF  LQSNEVHIFG  YARTKISDDE  LRNRIRGYLI  QGSGSSDKQL
101 EEVSKFLQLI  KYISGSYDSG  EGFQLLDKEI  SGYEFKNTV  EGSSRRLFYL
151 ALPPSVYPSV  CKMIKNNCMN  KSDLGGWTRI  VVEKPFKDL  GSAEQLSAQI
201 GELFDEPQIY  RIDHYLGKEL  VQNLLVLRFA  NRFFLPLWNR  DNIANVQIVF
251 REDFGTEGRG  GYFDEYGIIR  DIIQNHLLQV  FCLVAMEKPV  SLKPEHIRDE
301 KVKVLQSVVP  IKDEEVVLGQ  YKGYRDDPTV  PDNSNTPFA  TVVLRVHNER
351 WEGVPFILKA  GKALNSRKA  E  IRIQFKDVPG  DIFKCQKQGR  NEFVIRLQPL
401 EAMYMKLTVK  QPGLEMSTVQ  SELDLSYGQR  YQGVTIPEAY  ERLILDTIRG
451 DQQHFVRRDE  LKAWEIFTP  LLHRIDDGEV  KPLTYQLGSR  GPAEADQLE
501 RAGYVQTHGY  IWIPPTL
```

Spot No.: **P30**

NCBI accession No.: **gi|226493285** Species: *Zea mays*

PFF score: **[53]**

Protein name: **flavonol 4-sulfotransferase**

Matched peptides No.: **[12]** Sequence coverage %: **[38]**

Matched sequences: **-.MAAAACNPVAPSGVPFK.D;-.MAAAACNPVAPSGP**

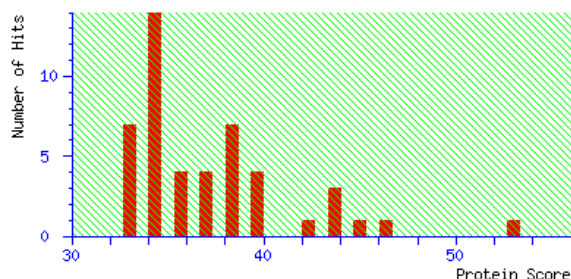
VPFKDVDDGSVPEHTPK.E;M.AAAACNPVAPSGVPVF;K.DR.LYQGFWLPEHWVPGTIVFQ
R.R;R.LYQGFWLPEHWVPGTIVFQRR.F;K.ALAFATAAR.T;R.LAEFMGR.P + Oxidation (M);
R.PFSAAEEAAGDVAAVVELCSFDEM;K.G + Oxidation (M);R.YRPMR.D;K.GVAGDWANH
MPPEMAAR.L + 2 Oxidation (M);K.GVAGDWANHMTPEMAARLDGIFR.E;K.LQGTGLIFS.-

Calculated Mr: **38183**

Calculated pI: **6.26**

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 73 are significant ($p < 0.05$).



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

1 MAAACNPVA PSGVPFKDV DDGSVPEHTP KEEFGDLVAA LPSRQQSILE
51 LRLYQGFWLP EHWVPGTIVF QRRFTPRPDD VILASYPKCG TTWLKALAF
101 TAARTAYPPG GARHPLRRLN PHDCVPFIDE IFASGEEAKL EALPSRPLMN
151 THLPYALLPA PVTATATGCR VAYVCRDPKD MVVSLWHFLR RAKPDLLFAD
201 TFESVCDGTV VVGVPWDHVL SYWRASVAAP DRALFLRYED MLRDPGGNVR
251 RLAEFMGRPF SAAEEAAGDV AAVVELCSFD EMKGLEVNRP GSGTAGRYRP
301 MPRDAFFRKG VAGDWANHMT PEMAARLDGI FREKLQGTGL IFS

Spot No.: **P31**

NCBI accession No.: **gi|224071449** Species: *Populus trichocarpa*

PFF score: **[104]**

Protein name: **predicted protein**

Matched peptides No.: **[2]**

Sequence coverage %: **[2]**

Matched sequences: **K.NKIDVIPHYPGR.L;**

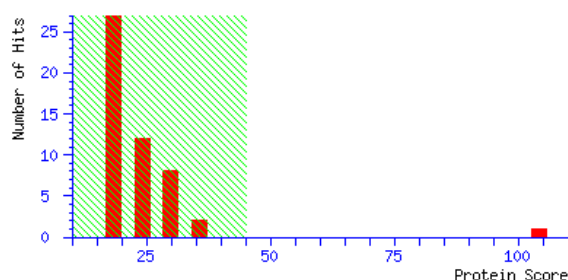
K.IDVIPHYPGR.L

Calculated Mr: **47121**

Calculated pl: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDGTSEATWP EILGSRNWDN LLDPLDLSLR KLILRCGDFC QATYDAFNND
51 QNSRYCGTSR YGKRNFHKV MLDNPENYQV SSFLYATARV SLPEAFLLHS
101 LSRDSWDRET NWIGYIAVTS DEQTKTLGRR EIYIAFRGTT RNYEWDILG
151 AKLKSAPLL RGATSTHDQ ESSSSDDDD DKVPKVMLGW LTMYSISDDPN
201 SPFTKLSARA QLLAHIKELR ERYKDDLSI IFTGHSLGAS LSILSAFDLV
251 ENGITDIPVS AFVFGSPQVG NKEFNERFNK YPNLKVLHIK NKIDVIPHYP
301 GRLMGVYVTG IEFEIDTRKS PSLKDSKNPS DWHNLQAMLH IVAGWNGEEQ
351 EFELKVKRSL ALVNKSSSEFL KDECLVPGIW WVEKNKGMVR NEDGEWVLAP
401 PDEEDLPVPE C
```

Spot No.: **P32**

NCBI accession No.: [gi|1916805](#) Species: *Hevea brasiliensis*

PFF score: **[219]**

Protein name: [latex patatin homolog](#)

Matched peptides No.: **[5]** Sequence coverage %: **[21]**

Matched sequences: [K.LQDL DGP DAR.I](#);

[R.DNYDPIHSIGPIYDGEYLR.E](#);

[K.SLDCEDYYLR.I](#);

[R.IQDDTLTGEESGHIATEENLQR.L](#);

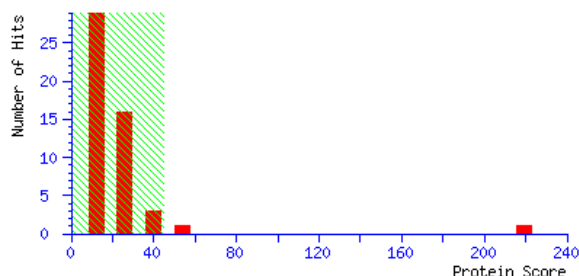
[R.INLDTGRLESIPGAPTNEAAIAK.F](#)

Calculated Mr: **43035**

Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATGSTTLTQ  GKKITVLSID  GGGIRGIIPG  IILASLESKL  QDL DGP DAR I
51  ADYFDIIAGT  STGGLITTML  TAPNEDKKPM  YQAKDIKDFY  LENCPIKFPK
101 ESR DNYDPIH SIGPIYDGEY LRELCNNLLK  DLTVKDTSTD  VIIPTFDIKL
151  LLPVIFPSDD  AKCNALKNAR  LADVCISTSA  APVLLPAHSF  TTEDDKNIHT
201  FELIDGGVAA  TNPTLLALTH  IRNEIIRQNP  RFIGANLTES  KSRLVLSLGT
251  GKSEYKEKYN  ADMTSKWRLY  NWALYNGNSP  AVDIFSNASS  DMVDSHLSAL
301  FKSLDCEDYY LRIQDDTLTG EESGHIATE ENLQRLVEIG  TELLEKQESR
351  INLDTGRLES IPGAPTNEAA IAKFAKLLSE  ERKLRQLK
```

Spot No.: **P33**

NCBI accession No.: **gi|6707018** Species: *Hevea brasiliensis*

PFF score: **[196]**

Protein name: **latex protein allergen Hev b 7**

Matched peptides No.: **[5]** Sequence coverage %: **[22]**

Matched sequences: **K.LQDL DGP DAR.I;**

R.DNYDPIHSIGPIYDGEYLR.E;

K.LLPVIFSSDDAK.C;

R.IQDDTLTGEESGHIATEENLQR.L;

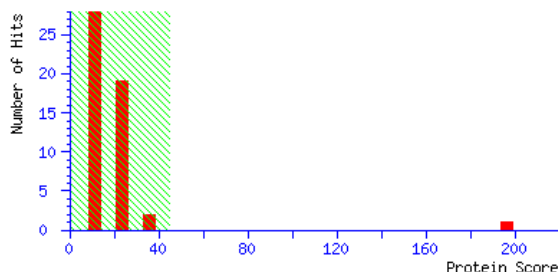
R.INLDTGRLESIPGAPTNEAAIAK.F

Calculated Mr: **43107**

Calculated pI: **5.00**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATGSTPLTQ  GKKITVLSID  GGGIRGIIPG  IILASLESKL  QDL DGP DAR I
51  ADYFDIIAGT  STGGLITTML  TAPNEDKKPM  YQAKDIKDFY  LENCPKIFPK
101  ESR DNYDPIH  SIGPIYDGEY  LRELCNLLK  DLTVKDTLTD  VIIPTFDIKL
151  LLPVIFSSDD  AKCNALKNAR  LADVCIESTA  APVLLPAHSF  TTEDDKNIHT
201  FELIDGGVAA  TNPTLLALTH  IRNEIIRQNP  RFIGANLTES  KSRLVLSLGT
251  GKSEYKEKYN  ADMTSKWRLY  NWALYNGNSP  AVDIFSNASS  DMVDFHLSAL
301  FKSLDCEDYY  LRIQDDTLTG  EESGHIATE  ENLQRLVEIG  TELLEKQESR
351  INLDTGRLES  IPGAPTNEAA  IAKFAKLLSE  ERKLRQLK
```

Spot No.: **P34**

NCBI accession No.: **gi|32186890** Species: *Gossypium hirsutum*

PFF score: **[392]**

Protein name: **actin**

Matched peptides No.: **[7]**

Sequence coverage %: **[29]**

Matched sequences: **K.IWHHTFYNELR.V;**

R.VAPEEHPVLLTEAPLNPK.A;

R.TTGIVLDSGDGVSHTVPIYEGYALPHAILR.L;

K.NYELPDGQVITIGAER.F;

R.KDLYGNIVLSGGSTMFPGIADR.M + Oxidation (M);

K.DLYGNIVLSGGSTMFPGIAD;

R.M + Oxidation (M);

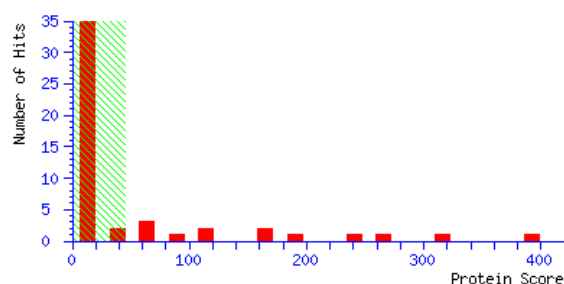
K.GEYDESGPSIVHR.K

Calculated Mr: **41917**

Calculated pI: **5.31**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MADGEDIQPL VCDNGTGMVK AGFAGDDAPR AVFPSIVGRP RHTGVMVGMG
51  QKDAYVVGDEA QSKRGILTILK YPIEHGIVSN WDDMEKIWHH TFYNELRVAP
101 EEHPVLLTEA PLNPKANREK MTQIMFETFN VPAMYVAIQV VLSLYASGRT
151 TGIVLDSGDG VSHTVPIYEG YALPHAILRL DLAGRDLTDA LMKILTERGY
201 MFTTTAEREI VRDMKEKLAY VALDYEQELE TAKSSSSVEK NYELPDGQVI
251 TIGAERFRCP EVLFQPSFIG MEAAGIHETT YNSIMKCDVD IRKDLYGNIV
301 LSGGSTMFPG IADRMSKEIT ALAPSSMKIK VVAPPERKYS VWIGGSILAS
351 LSTFQQMWIS KGEYDESGPS IVHRKCF
```

Spot No.: **P35**

NCBI accession No.: [gi|255552291](#) Species: *Ricinus communis*

PFF score: **[141]**

Protein name: [short chain dehydrogenase, putative](#)

Matched peptides No.: **[2]** Sequence coverage %: **[10]**

Matched sequences: [K.VALVTGGDSGIGR.A;](#)

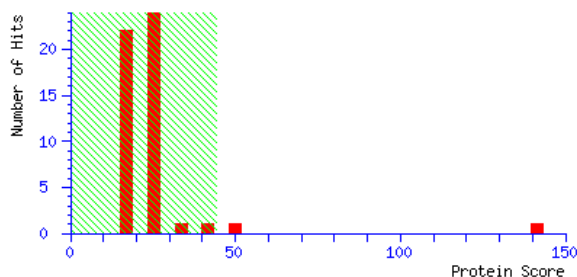
[K.DPIAIPTDVGFENCR.K](#)

Calculated Mr: **32148**

Calculated pI: **6.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATRRGYRFP  PQSQDKQPGK  EYLMHPLPEF  INPHYKPSNK  LQDKVALVTG
51  GDSGIGRAVS  YYFTLEGATV  AFTYVKGRED  KDKDHILKIL  HEVKAEGAKD
101 PIAIPTDVGF  EENCRKVIDQ  IMSEYGKIDI  LVNNAGEAHY  STTIEDITDP
151 MLERVFRTNI  FGHFFMSRHA  LKHMKEGGCI  INTASVAAYA  GFSFMVDYSS
201 TKGAVVAFTR  SLALQLIDRG  IRVNAVAPGS  VWTPFQPSTL  SAEQVAQVGS
251 GVPMDRAAQF  YEIAPSFVFL  ASNDCSSYFT  GQVLHPNGMF
```

Spot No.: **P36**

NCBI accession No.: **gi|38122474** Species: *Hevea brasiliensis*

PFF score: **[393]**

Protein name: **Rubber elongation factor protein**

Matched peptides No.: **[9]**

Sequence coverage %: **[26]**

Matched sequences:

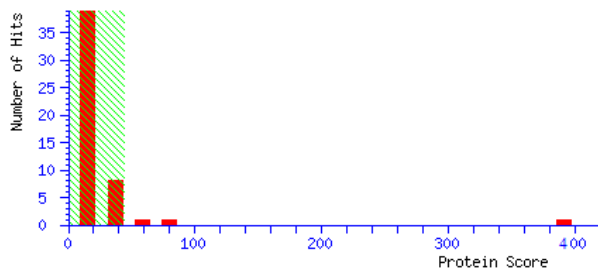
Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M Score	Expect	Rank	U	Peptide	
95	57 - 69	1516.7605	1515.7532	1515.7722	-12.5	0	103	1.1e-07	1	U K.YLDFVQAATVYAR.A	
96	57 - 69	1516.8470	1515.8397	1515.7722	44.6	0	110	2.4e-08	1	U K.YLDFVQAATVYAR.A	
83	83 - 96	1474.7504	1473.7431	1473.7576	-9.82	1	53	0.012	1	U K.SGPFKPGVNTVESR.F	
84	83 - 96	1474.8275	1473.8202	1473.7576	42.5	1	112	1.6e-08	1	U K.SGPFKPGVNTVESR.F	
13	99 - 107	1061.6001	1060.5928	1060.6029	-9.52	1	17		57	2	U K.SVVRPVYNK.F
14	99 - 107	1061.6669	1060.6596	1060.6029	53.5	1	41	0.23	1	U K.SVVRPVYNK.F	
65	122 - 132	1306.7577	1305.7504	1305.7041	35.5	1	64	0.00089	1	U R.RVDAYVTVLDR.I	
27	123 - 132	1150.6016	1149.5943	1149.6030	-7.54	0	53	0.012	1	U R.VDAYVTVLDR.I	
28	123 - 132	1150.6576	1149.6503	1149.6030	41.2	0	66	0.00054	1	U R.VDAYVTVLDR.I	

Calculated Mr: **19570**

Calculated pI: **5.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEGEEEVNI QEEANKGEEN PQEENIQEE TNKGEENIQE EANIEEEEANK
51 EEESLKYLDF **VQAATVYARA** SFSKLYLFAK **DKSGPFKPGV** **NTVESRFKSV**
101 **VRPVYMKFQP** VPNKVLKFAD **RRVDAYVTVL** DRIVPPIVKR ASIQAYSVAP
151 GAALAVASYL PLHTKRLSKV LYGDG

Spot No.: **P37**

NCBI accession No.: **gi|334854634** Species: *Hevea brasiliensis*

PFF score: **[288]** Protein name: **elicitor-responsive protein**

Matched peptides No.: **[3]** Sequence coverage %: **[26]**

Matched sequences:

Start - End	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Sequence
2 - 14	1295.8593	1294.8520	1294.7860	51	0	M.PLGTVEVLLVGAK.G (Ions score 90)
47 - 55	1075.5344	1074.5271	1074.4618	61	0	K.GSEPEWNEK.F (Ions score 53)
56 - 70	1687.8898	1686.8825	1686.7989	50	0	K.FSFEVSDGDELTLK.I (Ions score 145)

Calculated Mr: **15249**

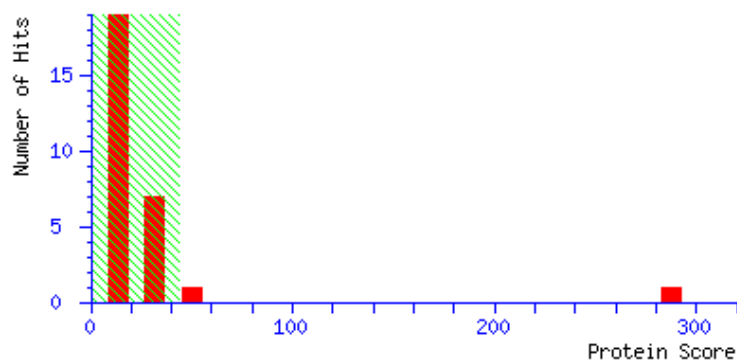
Calculated *pI*: **4.06**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MPLGTVEVLL VGAKGLENTD FLNGVDPYV LACRTQEQKS SVASGKGSEP  
51 EWNEKFSFEV SDGDDELTLK IMDSVGAAD DFGVEAT IPL EPLFLEGNLP  
101 STAYKVVKEQ EYKGEITVGL TFTPEVEMDN VGVDGYDFRL
```

Spot No.: **P38**

NCBI accession No.: **gi| 14423933** Species: *Hevea brasiliensis*

PFF score: **[353]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[9]**

Sequence coverage %: **[38]**

Calculated Mr: **22331**

Calculated pI: **4.80**

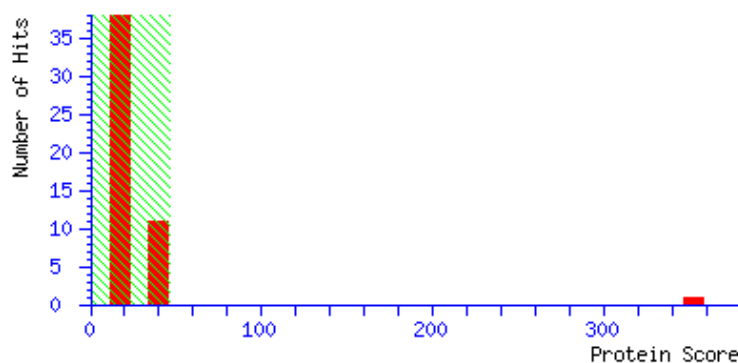
Matched sequences:

Query	Start - End	Observed	Mr (expt)	Mr (calc)	ppm	M Score	Expect	Rank	U	Peptide
10	6 - 20	1865.7990	1864.7917	1864.7711	11.1	0	96	4.2e-07	1	U K.ENENFQQEANEQEEK.L
11	6 - 20	1865.7990	1864.7917	1864.7711	11.1	0	96	4.2e-07	1	U K.ENENFQQEANEQEEK.L
12	6 - 20	1865.9290	1864.9217	1864.7711	80.8	0	98	2.6e-07	1	U K.ENENFQQEANEQEEK.L
7	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	1	110	2.3e-08	1	U K.DNSGPLKPGVETIEGVAK.T
8	47 - 64	1811.0605	1810.0532	1809.9472	58.6	1	153	1.4e-12	1	U K.DNSGPLKPGVETIEGVAK.T
9	47 - 64	1811.1030	1810.0957	1809.9472	82.0	1	142	1.6e-11	1	U K.DNSGPLKPGVETIEGVAK.T
2	102 - 113	1347.6600	1346.6527	1346.6500	2.00	0	25	7.6	1	U K.QLPTQACDTSVK.E
3	102 - 113	1347.6600	1346.6527	1346.6500	2.00	0	25	7.6	1	U K.QLPTQACDTSVK.E
4	102 - 113	1347.7468	1346.7395	1346.6500	66.5	0	102	1.4e-07	1	U K.QLPTQACDTSVK.E

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEGKENENF **QQEANEQEEK** LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 **PLKPGVETIE** **GVAKT**VVIPA SKIPTEAIKF ADRAVDASFT TLQNIIVPSVL
101 **KQLPTQACDT** **SVKESAE**

Spot No.: **P39**

NCBI accession No.: **gi| 14423933** Species: *Hevea brasiliensis*

PFF score: **[342]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[7]**

Sequence coverage %: **[36]**

Calculated Mr: **22331**

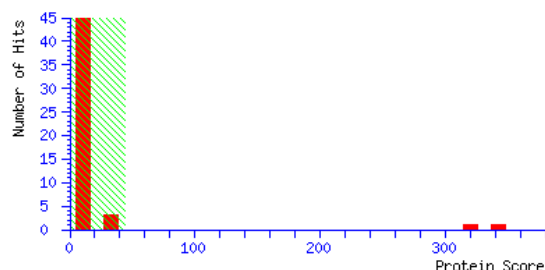
Calculated pI: **4.80**

Matched sequences:

Query	Start - End	Observed	Mr (expt)	Mr (calc)	ppm	M Score	Expect	Rank	U	Peptide
25	36 - 53	1881.1389	1880.1316	1880.0255	56.4	0	57	0.0022	1	U K.DISGPLKPGVDTIENVVK.T
11	91 - 105	1620.8983	1619.8910	1619.7903	62.2	0	102	8.7e-08	1	U K.QVSAQTYSVAQDAPR.I
27	106 - 124	1934.1237	1933.1164	1933.0157	52.1	0	87	2e-06	1	U R.IVLDVASSVFNTGVQEGAK.A
28	106 - 124	1934.1260	1933.1187	1933.0157	53.3	0	108	1.7e-08	1	U R.IVLDVASSVFNTGVQEGAK.A
29	106 - 124	1934.1260	1933.1187	1933.0157	53.3	0	108	1.7e-08	1	U R.IVLDVASSVFNTGVQEGAK.A
2	134 - 143	1236.7086	1235.7013	1235.6299	57.8	0	59	0.0024	1	U K.AEQYAVITWR.A
4	183 - 194	1346.8149	1345.8076	1345.7493	43.3	0	16	44	1	U R.VSSYLPLLPTEK.I

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAEEVEEERL KYLDFVRAAG VYAVDSFSTL YLYAKDISGP LKPGVDTIEN
51 VVKTVVTPVY YIPLEAVKfV DKTVDVSVTS LDGVVPPVIK QVSAQTYSVA
101 QDAPRIVLDV ASSVFNTGVQ EGAKALYANL EPKAEQYAVI TWRALNKLPL
151 VPQVANVVVP TAVYFSEKYN DVVRGTEQG YRVSSYLPLL PTEKITKVFQ
201 DEAS
```

Spot No.: **P40**

NCBI accession No.: **gi| 29170601** Species: *Hevea brasiliensis*

PFF score: **[316]**

Protein name: **Small rubber particle protein**

Matched peptides No.: **[12]** Sequence coverage %: **[53]**

Calculated Mr: **12769**

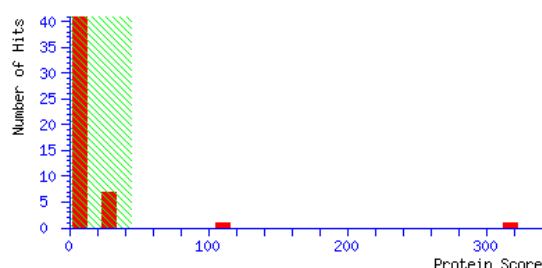
Calculated pI: **4.61**

Matched sequences:

Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M	Score	Expect	Rank	U	Peptide
13	6 - 20	1865.7990	1864.7917	1864.7711	11.1	0	55	0.0043	1	U	K.ENENFQQEANEQEEK.L
14	6 - 20	1865.7990	1864.7917	1864.7711	11.1	0	55	0.0043	1	U	K.ENENFQQEANEQEEK.L
15	6 - 20	1865.9290	1864.9217	1864.7711	80.8	0	48	0.021	1	U	K.ENENFQQEANEQEEK.L
8	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	0	54	0.0051	1	U	K.DNSGPLKPGVETIEGVAK.T
9	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	0	54	0.0051	1	U	K.DNSGPLKPGVETIEGVAK.T
10	47 - 64	1810.9230	1809.9157	1809.9472	-17.4	0	54	0.0051	1	U	K.DNSGPLKPGVETIEGVAK.T
11	47 - 64	1811.0624	1810.0551	1809.9472	59.6	0	121	9.1e-10	1	U	K.DNSGPLKPGVETIEGVAK.T
12	47 - 64	1811.1030	1810.0957	1809.9472	82.0	0	36	0.31	1	U	K.DNSGPLKPGVETIEGVAK.T
16	84 - 101	1902.9020	1901.8947	1902.0462	-79.7	0	56	0.0028	1	U	R.AVDASFTTLQNIIVPSVLK.Q
1	102 - 113	1347.6600	1346.6527	1346.6500	2.00	0	6	3.8e+02	5	U	K.QLPTQACDTSVK.E
2	102 - 113	1347.6600	1346.6527	1346.6500	2.00	0	6	3.8e+02	5	U	K.QLPTQACDTSVK.E
3	102 - 113	1347.7456	1346.7383	1346.6500	65.6	0	84	6.8e-06	1	U	K.QLPTQACDTSVK.E

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

1 MAEG**KENENF QQEANEQEEK** LKYLEFVQAT TDNAVTALSN IYLYAKDNSG
51 **PLKPGVETIE GVAKTVVIPA** SKIPTEAIKF ADRAVDASFT TLQNIIVPSVL
101 **QQLPTQACDT SVKESAE**

Spot No.: **P41**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[261]**

Protein name: **prohevein**

Matched peptides No.: **[3]** Sequence coverage %: **[26]**

Matched sequences: **K.YGWTAFCGPVGAHGQPSCKG.C;**

R.IVDQCSNGGLDLVDNVFR.Q;

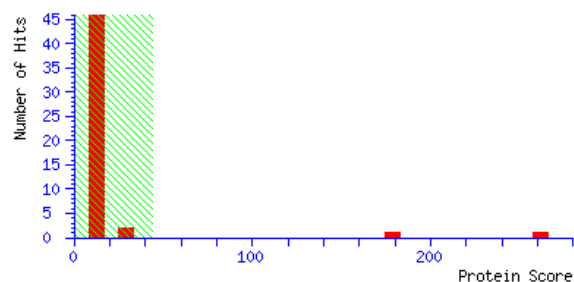
R.QLDTDGKGYER.G

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51 GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: **P42 (S9)**

NCBI accession No.: **gi|388503664** Species: *Lotus japonicus*

Protein name: **unknown**

Mascot score: **93**

Sequence coverage %: **45**

Matched peptides No.: **13**

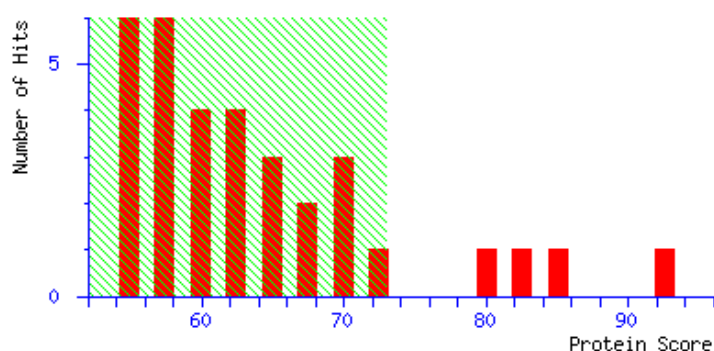
Total peptides No.: **48**

Calculated Mr: **29537**

Calculated pl: **4.79**

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 73 are significant ($p < 0.05$).



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

```
1  MASSKDRGTF VYVAKLAEQA ERYEEMVDSM KKVANLDVEL TVEERNLLSV
51 GYKNVIGARR ASWRILSSIE QKEETKGNDV NAKRIKEYRQ KVESELADIC
101 NDVMRVIDEH LIPSATAGES TVFYKMKGD YYRYLAEFKS GNEKKEAADQ
151 SMKAYESATT AAEALPPTH PIRLGLALNF SVFYYEILNS PERACHLAKQ
201 AFDEAISELD TLNEESYKDS TLIMQLLRDN LTLWTSDIPE EGEDSLKAND
251 TAKVGGGEDA E
```

Spot No.: **P43**

NCBI accession No.: **gi|326694865** Species: *Hevea brasiliensis*

PFF score: [294]

Protein name: 14-3-3 protein 2

Matched peptides No.: **[7]**

Sequence coverage %: **[32]**

Matched sequences:

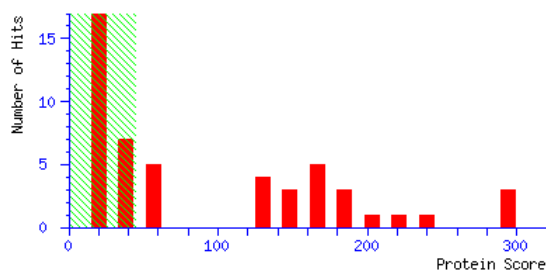
Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M	Score	Expect	Rank	U	Peptide
#38	17 - 33	2131.7244	2130.7171	2130.9601	-114	1	4	5e+02	3	...	K.LAEQAERYEEMVEFMK.V
#16	24 - 33	1334.4153	1333.4080	1333.5570	-112	0	21	...	12	...	R.YEEMVEFMK.V
#20	37 - 48	1418.5446	1417.5373	1417.6936	-110	0	84	6.7e-06	1	...	K.TVDVEELTVEER.N
#6	80 - 89	1125.4647	1124.4574	1124.5826	-111	0	28	2.7	1	...	R.GNEDHVTIK.E
#33	160 - 176	1788.7595	1787.7522	1787.9530	-112	0	78	2e-05	1	...	K.SAQDIALADLAPTHPIR.L
#40	177 - 196	2330.9053	2329.8980	2330.1947	-127	0	30	1.3	1	...	R.LGLALNFSVFYIEILNSPDR.A
#9	222 - 231	1189.5359	1188.5286	1188.6536	-105	0	50	0.02	2	...	K.DSTLIMQLL.R

Calculated Mr: **29931**

Calculated pI: **4.76**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSPTESSREE NVYMAKLAEQ AERYEEMVEF MEKVAKTVDV EELTVEERNL
51 LSVAYKNVIG ARRASWRIIS SIEQKEESRG NEDHVTIKE YRGKIESELS
101 KICDGILSLL ESHLIPSASS AESKVFYLKM KGDYHRYLAE FKTAGERKEA
151 AESTLLAYKS AQDIALADLA PTHPIRLGLA LNFSVFYIEI LNSPDRACNL
201 AKQAFDEAIS ELDTLGEESY KDSTLIMQLL RDNLTLWTS DITDEAGDEIK
251 EASKRESGEG QPQQ
```

Spot No.: P44 (S85)

NCBI accession No.: [gi|224099853](#) Species: *Populus trichocarpa*

PFF score: [69] Protein name: putative protein

Matched peptides No.: [2] Sequence coverage %: [5]

Matched sequences: [S FEHPLNELKP VPR](#)

Calculated Mr: 27448

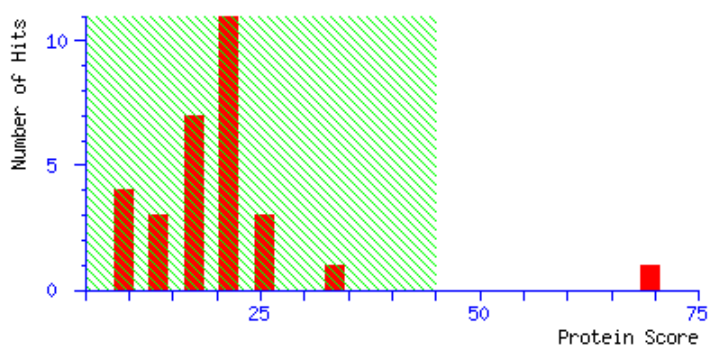
Calculated pI: 5.84

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MLAVFDNTVA KCPDALQSPH SAPASSALKD GFLANHFASQ HPGSVTVNLG
51 TSGLISHSVE KQNPFLPRLF AVVDDIFCLF QGHIDNVAVL KQQYGLNKTA
101 NEVIVVIEAY RTLRDRGPYP ADQVVKDIQG KFAFILDST SKATFFAADA
151 DGSVPFFWGA DSEGNLVLSD DVQIVQKCG KSFAPFKGC FFTTSGGLRS
201 FEHPLNELKP VPRVDSSGQV CGATFKVDAE TKKESVGMPR VDSSYNWSSN
251 Y
```


Spot No.: P45

NCBI accession No.: [gi|124365253](#) Species: *Hevea brasiliensis*

PPF score: [745] **Protein name:** beta-1,3-glucanase

Matched peptides No.: [16] Sequence coverage %: [44]

Matched sequences:

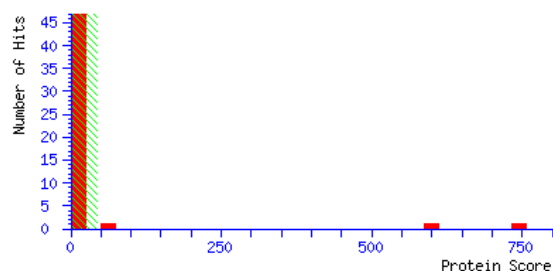
Query	Start - End	Observed	Mr (expt)	Mr (calc)	ppm	M	Score	Expect	Rank	U	Peptide
#10	69 - 81	1501.8600	1500.8527	1500.7936	39.4	0	82	1.1e-05	1	U	R.IYDPNQAVLEALR.G
#11	69 - 81	1501.9630	1500.9557	1500.7936	108	0	66	0.00036	1	U	R.IYDPNQAVLEALR.G
#12	69 - 81	1502.0040	1500.9967	1500.7936	135	0	78	2.7e-05	1	U	R.IYDPNQAVLEALR.G
#20	82 - 106	2581.6631	2580.6558	2580.3395	123	0	78	2e-05	1		R.GSNIELILGVPSNDLQSLTNPSNAK.S
#1	115 - 121	838.5450	837.5377	837.4133	149	0	27	3.9	1	U	R.GFWSSVR.F
#124	124 - 136	1431.9120	1430.9047	1430.7518	107	0	65	0.0006	1		R.YIAVGNIEISPVNRR.G
#17	167 - 188	2236.2949	2235.2876	2235.1535	60.0	0	85	3.5e-06	1		K.VSTAIIDLTLVGNSYPPSAGAFRR.D
#18	167 - 188	2236.3291	2235.3218	2235.1535	75.3	0	125	3.9e-10	1		K.VSTAIIDLTLVGNSYPPSAGAFRR.D
#3	193 - 200	975.6890	974.6818	974.5549	130	0	24	11	1		R.SYLNPIIR.F
#4	193 - 200	975.7050	974.6977	974.5549	147	0	36	0.68	1		R.SYLNPIIR.F
#5	193 - 200	975.7600	974.7527	974.5549	203	0	46	0.065	1		R.SYLNPIIR.F
#19	225 - 245	2350.3850	2349.3777	2349.2005	75.4	0	30	1.1	1		R.DISLPHYALFTSPSVVWDGQR.G
#15	249 - 264	1812.0800	1811.0727	1810.9101	89.8	0	104	4.3e-08	1	U	K.NLFDATLDALYSALER.A
#21	265 - 293	2826.4260	2825.4187	2825.3257	32.9	0	135	2.3e-11	1		R.ASGGSLEVSVESGWP SAGAFATFDNRR.T
#7	294 - 304	1315.9490	1314.9417	1314.7296	161	0	30	1.8	1		R.TYLSNLIQHVK.R
#8	294 - 304	1316.0090	1315.0017	1314.7296	207	0	55	0.0051	1		R.TYLSNLIQHVK.R

Calculated Mr: 41543

Calculated pI: 9.40

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAISSSTSGT SSSLPSRTTV MLLLFFFTAS VGITDAQVGV CYGMQGNLRF
51 PVSEVIALYK KSNITRMRIY DPNQAVLEAL RGSNIELILG VPNSDLQSLT
101 NPSNAKSWVQ KNVRGFWSSV RFRYIAVGNE ISPVNRGTAW LAQFVLPAMR
151 NIHDAIRSAG LQDQIKVSTA IDLTLVGNSY PPSAGAFRDD VRSYLNPIIR
201 FLSSIRSPLL ANIYPYFTYA GNPRDISLPY ALFTSPSVVV WDGQRGYKNL
251 FDATLDALYS ALERASGGSL EVVVSESGWP SAGAFAATFD NGRTYLSNLI
301 QHVKRGTPKR PKRAIETYLF AMFDENKKQP EVEKHFGGLFF PNKWQKYNLN
351 FSAEKNWDIS TEHNATILFL KSDM
```

Spot No.: **P46**

NCBI accession No.: [gi|224102193](#)

Species: *Populus trichocarpa*

PFF score: [347]

Protein name: **NAD-dependent malate dehydrogenase**

Matched peptides No.: **[5]**

Sequence coverage %: **[19]**

Matched sequences:

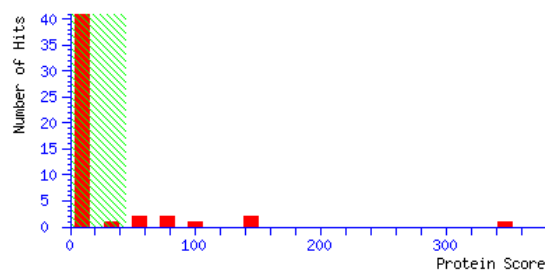
Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M Score	Expect	Rank	U	Peptide
13	127 - 142	1650.0818	1649.0745	1648.9876	52.7	0	30	1.2	<u>1</u>	K.VLVVANPANTNALILK.E
20	212 - 231	2434.3748	2433.3675	2433.2176	61.6	1	191	7.2e-17	<u>1</u>	U.R.ELVKDDEWLNAEFITTVQQR.G
18	216 - 231	1965.0579	1964.0506	1963.9276	62.7	0	50	0.012	<u>1</u>	U.K.DDEWLNAEFITTVQQR.G
15	240 - 256	1774.0004	1772.9931	1772.8839	61.6	1	67	0.00026	<u>1</u>	R.KLSSALSAASSACDHIR.D
11	312 - 324	1490.8445	1489.8372	1489.7511	57.8	1	9	1.8e+02	<u>1</u>	K.KLDLTADELSEEK.A

Calculated Mr: **36093**

Calculated pI: **6.11**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MAKEPVRVLV TGAAGQIGYA LVPMIARGVM LGPDQPVILH MLDIPPAAEA
51 LNGVKMELVD AAFPLLKGVV ATTDVVEACT GVNIAVMVGG FPRKEGMERK
101 DVMSKNVSIY KSQASALEKH AAANCKVLV ANPANTNALI LKEFAPSISE
151 KNITCLTRLD HNRALGQISE RLSVQVCDVK NVIIWGNHSS SQYPDVNHAT
201 VKTPAGEKPV RELVKDDEWL NAEFITTVQQ RGAAIKARK LSSALSAASS
251 ACDHIRDWVL GTPEGTWVSM GVYSDGSYNV PAGLIYSFPV TCQNGEWKIV
301 QGLSIDEFSR KKLDLTADEL SEEKALAYSC LS
```

Spot No.: **P47**

NCBI accession No.: **gi| 255578278**

Species: ***Ricinus communis***

PFF score: [75]

Protein name: **hypothetical protein RCOM_053778**

Matched peptides No.: **[2]**

Sequence coverage %: **[6]**

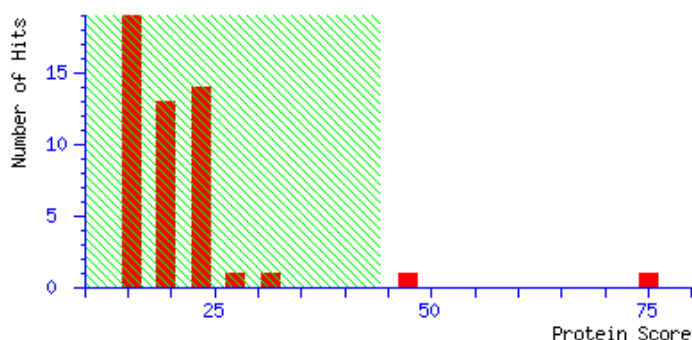
Matched sequences: **K.QESEYGGGYGR.R; R.KPSYGEEGGYGER.T**

Calculated Mr: **41389**

Calculated pI: **4.65**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRSEDD  VDNDFDFDPT  PYGGGYDLAL  TYGRPLPPSD  ETCYQNSAIA
51  DDDVDYDRPN  FTSYAEPSAY  NDDILQEEYN  SYSRPKPRPG  FIPGGGIGGD
101  PYSRPHAAPG  FQPGSGGYGG  VSEYEKPSGY  GRRPDSEYGS  GGYGGGTEYE
151  RPSGEDYGS  HGRKQDSEYG  SGGYGRRPES  EYGSGGGYER  PSSEEYGSY
201  GRKQESEYGS  GGYGRRPEAE  YGSGYGGRPE  TEYGGGGGSE  YGGGYGRKPS
251  YGEEGGYGER  TEYERPSYGD  DPPRRPGYGR  QDDEYERPSY  ERKSDDDNDG
301  SRRKYGGDDD  EKGYQKKYGG  YGDDDDDEEGS  RRKYGYGGEE  ESYGRKKYGD
351  DGSDDDEKKH  HRHKHHQHKH  SDDE
```

Spot No.: **P48**

NCBI accession No.: **gi|255552291** Species: *Ricinus communis*

PFF score: **[201]**

Protein name: **short chain dehydrogenase, putative**

Matched peptides No.: **[2]** Sequence coverage %: **[7]**

Matched sequences: **K.AEGAKDPIAIPTDVGFEEENCR.K;**

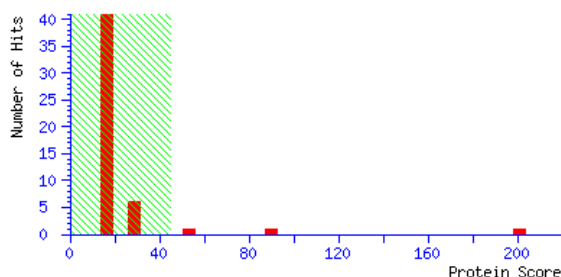
K.DPIAIPTDVGFEEENCR.K

Calculated Mr: **32148**

Calculated pI: **6.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MATRRGYRFP PQSQDKQPGK EYLMHPLPEF INPHYKPSNK LQDKVALVTG
51 GDSGIGRAVS YYFTLEGATV AFTYVKGRED KDKDHILKIL HEVKAEGAKD
101 PIAIPTDVGF EENCRKVIDQ IMSEYGKIDI LVNNAGEAHY STTIEDITDP
151 MLERVFRTNI FGHFFMSRHA LKHMKEGGCI INTASVAAYA GFSEFMVDYSS
201 TKGAVVAFTR SLALQLIDRG IRVNAVAPGS VWTFFQPSTL SAEQVAQVGS
251 GVPMDRAAQF YEIAPSFVFL ASNDCSSYFT GQVLHPNGMF
```

Spot No.: **P49**

NCBI accession No.: **gi|255581753** Species: *Ricinus communis*

PFF score: **[175]**

Protein name: **adenosine kinase, putative**

Matched peptides No.: **[3]** Sequence coverage %: **[11]**

Matched sequences: **K.RPENWALVEK.A;**

K.VLPYMDYVFGNETEAR.T + Oxidation (M);

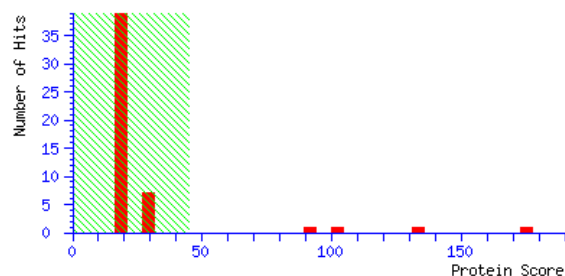
R.AGCYAAANVIIQR.S

Calculated Mr: **38058**

Calculated pI: **5.17**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MASYEGILLG MGNPLLDISA VVDEDFLNKY EIKLNNAILA EDKHLPMYEE
51 MANNNSVEYI AGGATQNSIK VAQWMLQIPG ATSYMGCIGK DKFGEEMTKN
101 SKKAGVNVHY YEDETAPTGT CGVCVVGGER SLVANLSAAN CYKSEHLKRP
151 ENWALVEKAK YFYIAGFFLT VSPESIQLVA EHAAAANNKIF TMNLSAPFIC
201 EFFKDAQEKV LPYMDYVFGN ETEARTFAKV HGWETDNVEE IAKKISQWPK
251 ASGTHKRITV ITQGADPVVV AEDGKVKLFP VILLPKEKLV DTNGAGDAFV
301 GGFLSQLVQE KPIEECVRAG CYAAANVIIQR SGCTYPEKPD FS
```

Spot No.: **P50**

NCBI accession No.: **gi|4588474** Species: *Brassica napus*

PFF score: **[96]**

Protein name: **phosphoinositide-specific phospholipase C**

Matched peptides No.: **[2]** Sequence coverage %: **[3]**

Matched sequences: **R.VIELDIWPNSNKNDIDVLHGR.T;**

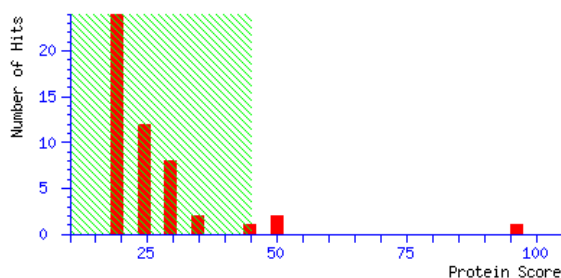
K.NDIDVLHGR.T

Calculated Mr: **66632**

Calculated pl: **5.79**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSKQTYKVCF  CFNRRFRYTA  SEAPRDVCTL  FDKYSENGVM  TVDHLQRFLI
51  DVQKQDKATK  EDAQSIINAA  SLLHSNGLH  LDAFFKYLFG  DSNPPLALHE
101 VHQDMDAPIS  HYFIFTGHNS  YLTGNQLSSD  CSEVPIIDAL  KKGVRVIELD
151 IWPNSNKNDI  DVLHGRTLTS  PVELIKCLRA  IKTHAFEVSD  YPVVVITLEDH
201 LTPELQSKVA  EMVTEIFGEI  LFTPPVGESL  KEFPPNSLKL  RRIIISTKPP
251 KEYKEGKDED  VVQKGKALGD  EEVWGREVPS  FIERNKSGDK  DDLDEEDND
301 EDDDVEKFKK  NAPPQYKHLI  AIHAGKPKGS  ITACLKVDPD  KVRRLSLSEE
351 QLEKAAEKYA  KQIVRFTQQN  LLRIYKGRTR  VTSSNYNPLV  GWSHGAQMVA
401 FNMQGYGRSL  WLMQGMFRAN  GGCGYIKKPD  ILLKGGSDSD  IFDPKTTLPV
451 KTTLRVTIYM  GEGWYDFDRH  THFDQYSPPD  FYTRVGIAGV  PADTMKKTK
501 TLEDNWVPSW  DEVFEFPLTV  PELALLRLEV  HEYDMSEKDD  FGGQTCPLPW
551 ELQEGIRSFP  LHNRRKEEKYK  SVKLLVKVEF  V
```

Spot No.: **P51**

NCBI accession No.: **gi|255578278** Species: *Ricinus communis*

PFF score: **[95]**

Protein name: **hypothetical protein RCOM_0537780**

Matched peptides No.: **[2]** Sequence coverage %: **[6]**

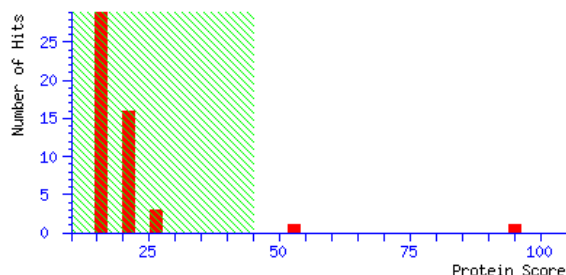
Matched sequences: **K.QESEYGSGGYGR.R;**
R.KPSYGEEGGYGER.T

Calculated Mr: **41389**

Calculated pI: **4.65**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MPYYTRSEDD  VDNDFDFDPT  PYGGGYDLAL  TYGRPLPPSD  ETCYQNSAIA
51  DDDVDYDRPN  FTSYAEPSAY  NDDILQEEYN  SYSRPKPRPG  FIPGGGIGGD
101 PYSRPHAAPG  FQPGSGGYGG  VSEYEKPSGY  GRRPDSEYGS  GYGSGGTEYE
151 RPSGEDYGS  HGRKQDSEYG  SGGYGRRPES  EYGSGGGYER  PSSEEYGSY
201 GRKQESEYGS GGYGRPEAE  YGSGYGRPE  TEYGGGGGSE  YGGGYGRKPS
251 YGEEGGYGER  TEYERPSYGD  DPPRRPGYGR  QDDEYERPSY  ERKSDDDNDG
301 SRRKYGGDDD  EKGYQKKYGG  YGDDDDEEGS  RRKYGYGGEE  ESYGRKKYGD
351 DGSDDDEKHH  HRHKHHQHKH  SDDE
```


Spot No.: **P52**

NCBI accession No.: **gi|255552291** Species: *Ricinus communis*

PFF score: **[67]**

Protein name: **short chain dehydrogenase, putative**

Matched peptides No.: **[3]** Sequence coverage %: **[11]**

Matched sequences: **K.VALVTGGDSGIGR.A;**

K.AEGAKDPIAIPTDVGFEEENCR.K;

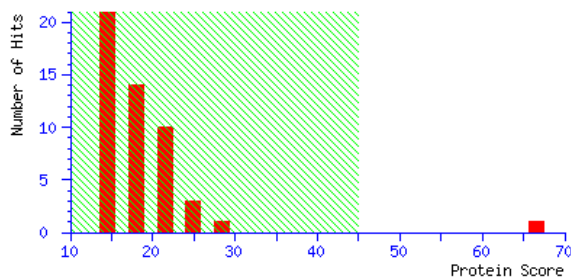
K.DPIAIPTDVGFEEENCR.K

Calculated Mr: **32148**

Calculated *pI*: **6.50**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where *P* is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MATRRGYRFP PQSQDKQPGK EYLMHPLPEF INPHYKPSNK LQDKVALVTG
51 GDSGIGRAVS YYFTLEGATV AFTYVKGRED KDKDHILKIL HEVKAEGARD
101 PIAIPTDVGF EENCRKVIDQ IMSEYGKIDI LVNNAGEAHY STTIEDITDP
151 MLERVFRTNI FGFFMSRHA LKHMKEGGCI INTASVAAYA GFSFMVDYSS
201 TKGAVVAFTR SLALQLIDRG IRVNAVAPGS VWTFFQPSL SAEQVAQVGS
251 GVPMDRAAQP YEIAPSFVFL ASNDCSSYFT GQVLHPNGMF
```


Spot No.: **P53**

NCBI accession No.: **gi|224057068** Species: *Populus trichocarpa*

PFF score: **[279]**

Protein name: **predicted protein**

Matched peptides No.: **[7]**

Sequence coverage %: **[35]**

Matched sequences: **K.CPDTNYLFMGDYVDR.G + Oxidation (M);**

R.QITQVYGFYDECLR.K;

R.VQEVPHGPMCDLLWSDPDDR.C + Oxidation (M);

R.GAGYTFGQDISEQFNHTNNLK.L;

R.AHQLVMEGYNKGHEQK.V + Oxidation (M);

K.VVTIFSAPNYCYR.C;

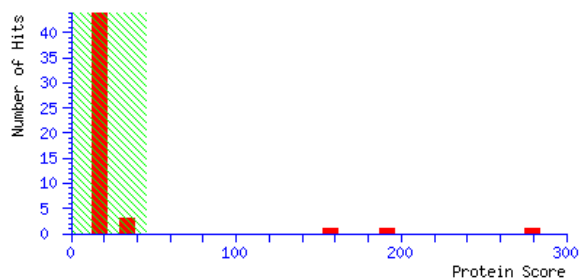
K.GHTFIQFEPAPR.R

Calculated Mr: **36330**

Calculated pI: **5.08**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MSLDSVATNA  HGNLDEEISQ  LMQCKPLSEQ  EVRALCEKAK  EILMDESNVQ
51  PVKSPVTICG  DIHQFHDLA  ELFRIGGKCP DTNYLFMGDY VDRGGYYSVET
101 VLLVALKVR  YPQRITILRG  NHESRQITQV YGFYDECLRK YGNANVWKIF
151 TDLFDYFPLT  ALVESEIFCL  HGGLSPSIET  LDNIRNFDRV  QEVPHGPMC
201 DLLWSDPDDR  CGWGISPRGA  GYTFGQDISE QFNHTNNLKL  IARAHQLVME
251 GYNKGHEQKV VTIFSAPNYC YRCGNMASIL  EVDDCKGHTF IQFEPAPRRG
301 EPDVTRRTPD  YFL
```

Spot No.: **P54**

NCBI accession No.: **gi|2832430** Species: *Hevea brasiliensis*

PFF score: **[181]**

Protein name: **prohevein**

Matched peptides No.: **[3]** Sequence coverage %: **[26]**

Matched sequences: **K.YGWTAFCGPVGAHGQPSCK.K;**

R.IVDQCSNGGLDLVDNVFR.Q;

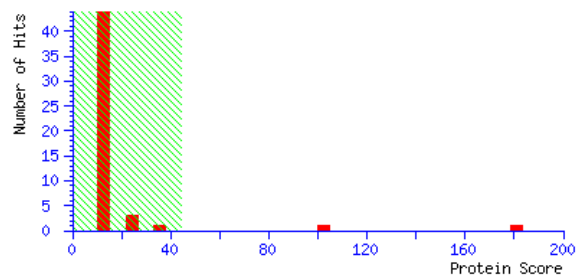
R.QLDTDGKGYER.G

Calculated Mr: **20852**

Calculated pI: **5.64**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 44 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  EQCGRQAGGK LCPNNLCCSQ WGWCGSTDEY CSPDHNCQSN CKDSGEGVGG
51  GSASNVLATY HLYNSQDHGW DLNAASAYCS TWDANKPYSW RSKYGWTAFC
101 GPVGAHGQPS CGKCLSVTNT GTGAKATVRI VDQCSNGGLD LDVNVFRQLD
151 TDGKGYERGH LTVNYQFVDC GDSFNPLFSV MKSSVIN
```

Spot No.: **P55**

NCBI accession No.: **gi|224071449** Species: *Populus trichocarpa*

PFF score: **[55]**

Protein name: **predicted protein**

Matched peptides No.: **[2]**

Sequence coverage %: **[2]**

Matched sequences: **K.NKIDVIPHYPGR.L;**

K.IDVIPHYPGR.L

Calculated Mr: **47121**

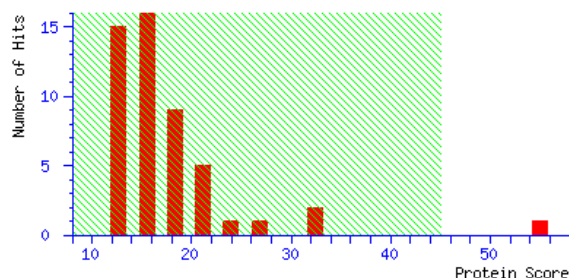
Calculated pl: **5.28**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.

Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MDGTSEATWP EILGSRNWDN LLDPLDLSLR KLILRCGDFC QATYDAFNND
51 QNSRYCGTSR YGKRNFHFKV MLDNPENYQV SSFLYATARV SLPEAFLLHS
101 LSRDSDRET NWIGYIAVTS DEQTKTLGRR EIYIAFRGTT RNYEVDILG
151 AKLKSAPLL RGATSTTHDQ ESSSSDDDD DKVPKVMLGW LTMYSISDDPN
201 SPFTKLSARA QLLAHIKELR ERYKDDLSI IFTGHSLGAS LSILSAFDLV
251 ENGITDIPVS AFVFGSPQVG NKEFNERFNK YPNLKVLIHK NKIDVIPHYP
301 GRLMGYVYTG IEFEIDTRKS PSLKDSKNPS DWHNLQAMLH IVAGWNGEEQ
351 EFELKVKRSL ALVNKSSEFL KDECLVPGIW WVEKNKGMVR NEDGEWVLAP
401 PDEEDLPVPE C
```

Spot No.: **P56**

NCBI accession No.: **gi|218157** Species: *Oryza sativa Japonica Group*

PFF score: **[58]**

Protein name: **cytoplasmic aldolase**

Matched peptides No.: **[2]**

Sequence coverage %: **[3]**

Matched sequences: **K.KVAPEVIAEYTVR.T;**

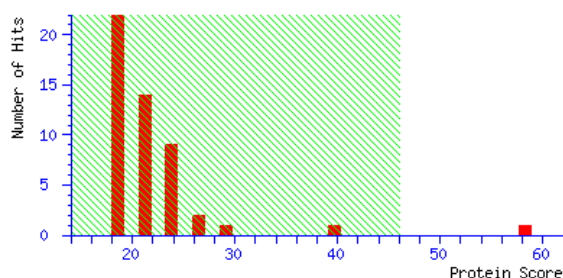
K.VAPEVIAEYTVR.T

Calculated Mr: **39151**

Calculated pI: **6.56**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 46 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1 MSAYCGKYKD ELIKNAAYIG TPGKGILAAD ESTGTIGKRF ASINVENVED
51 NRRAFRELLF CTPGALQYIS GVILFDETLY QKTKDGKPFV DILKEAGALP
101 GIKVDKGTIE VAGTDKETT QGHDDLKQVC AKYYEAGARF AKWRAVLKIG
151 PNQPSQLAID LNAQGLACYA IICQENGLVP IVEPEILVDG PHDIDRCAYV
201 SEVVLAACYK ALNEHHVLE GTLLKPNMVT PGSDAKKVAP EVIAEYTVRT
251 LQRTVPPAVP AIVFLSGGQS EEEATLNLNA MNKLSAKKPW SLSFSFGRAL
301 QQSTLKAWAG KTENVEKARA AFLVRCKANS EATLGTYKGD AVLGEGAAES
351 LHVVDYKY
```

Spot No.: **P57**

NCBI accession No.: **gi|15219412** Species: *Arabidopsis thaliana*

PFF score: **[120]**

Protein name: **phosphoglycerate kinase**

Matched peptides No.: **[3]** Sequence coverage %: **[6]**

Matched sequences: **K.YSLKPLVPR.L;**

K.KLAALADVYVNDAFGTAHR.A;

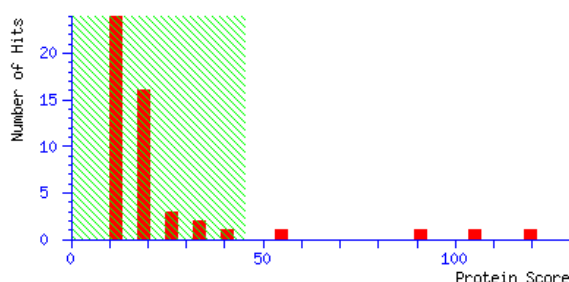
K.LAALADVYVNDAFGTAHR.A

Calculated Mr: **42162**

Calculated pI: **5.49**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MATKRSVGTL  KEADLKGKSV  FVRVDLNVPL  DDNSNITDDT  RIRAAVPTIK
51  YLMGNGSRVY  LCSHLGRPKG  VTPKYSLKPL  VPRLSELLGV  EVVMANDSIG
101 EEVQQLVAGL  PEGGVLLLEN  VRFYAEEEKN  DPEFAKKLAA  LADVYVNDAF
151 GTAHRAHAST  EGVAKFLKPS  VAGFLMQKEL  DYLVGAVANP  KKPFAAIVGG
201 SKVSTKIGVI  ESSLNTVDIL  LLGGGMIFTF  YKAQGLSVGS  SLVEEDKLDL
251 AKSLMEKAKA  KGVSLLLPTD  VVIADKFAPD  ANSKIVPATA  IPDGWMGLDI
301 GPDSIKTFSE  ALDTTKTIIW  NGPMGVFEFD  KFAAGTEAVA  KQLAELSGKG
351 VTTIIGGGDS  VAAVEKVGLA  DKMSHISTGG  GASLELLEGG  PLPGVLALDE
401 A
```

Spot No.: **P58**

NCBI accession No.: **gi|356513072** Species: *Glycine max*

PFF score: **[121]**

Protein name: **phosphoglucomutase,cytoplasmic-like**

Matched peptides No.: **[4]** Sequence coverage %: **[6]**

Matched sequences: **R.VETTPFDGQKPGTSGLR.K;**

K.SIFDFESIR.K;

K.SIFDFESIRK.L;

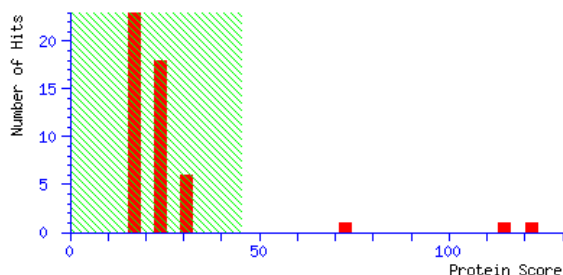
K.LVTVEDIVR.Q

Calculated Mr: **63702**

Calculated pI: **5.33**

Probability Based Mowse Score:

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MVLFNVSRVETTPFDGQKPG TSGLRKKVKV  FVQPHYLHNF  VQSTFNALTV
51  EKVRGATLVV  SGDGRYFSKE  AIQIITKMSA  ANGVRRVWIG  QNGLLSTPAV
101 SAVIRERVGA  DGSRATGAFI  LTASHNPGGP  HEDFGIKYNM  ENGGPAPEGI
151 TDKIYENTTT  INEYLIASDL  PDVDITTTGV  TSFTGPEGPF  DVEVFDSASD
201 YIKLMKSIFDFESIRKLLSS  PKFTFCYDAL  HGVGGAYAKS  IFVDELGAQE
251 SLLNCTPKE  DFGGGHPDPN  LTYAKELVAR  MGLGKSEPQD  DPPEFGAASD
301 GDADRNMILG  KRFFVTPSDS  VAIIAANAVE  AIPYFSAGLK  GVARSMPTSA
351 ALDVVAKHLN  LKFFEVPTGW  KFFGNLMDAG  LCSVCGEESF  GTGSDHIREK
401 DGIWAVLAWL  SILAYKNKDK  LEDKLVTVED  IVRQHWATYG  RHYTRYDYE
451 NVDAGAAKEL  MAYLVKLQSS  LSEVNQIIKG  IRSDVSNVVH  GDEFYNDPV
501 DGSISSHQGI  RYLFEDGSRL  IFRLSGTGSE  GATIRLYIEQ  YEKDPSKIGR
551 LSNEALAPLV  EVALKLSKME  EFTGRSAPTV  IT
```

Spot No.: **P59**

NCBI accession No.: **gi|255568794** Species: *Ricinus communis*

PFF score: **[95]**

Protein name: **nucleoredoxin, putative**

Matched peptides No.: **[3]** Sequence coverage %: **[5]**

Matched sequences: **R.VEYFRQEEENAK.K;**

K.LIEAYHEIK.A;

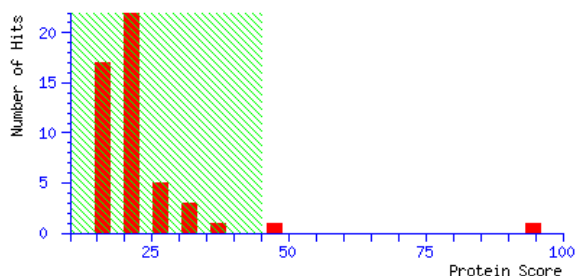
K.KCDFDLHPK.C

Calculated Mr: **63728**

Calculated pI: **5.46**

Probability Based Mowse Score:

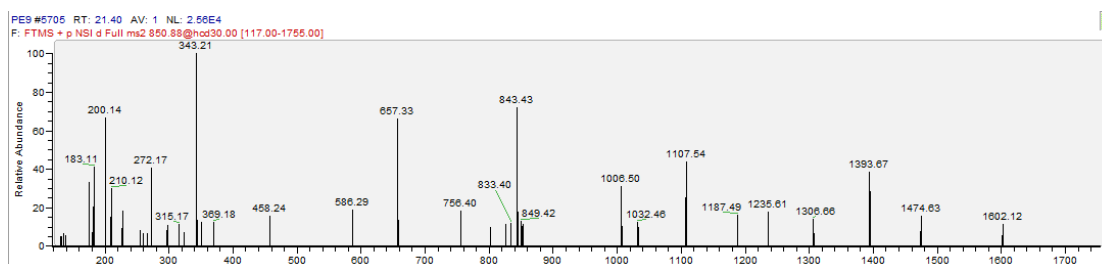
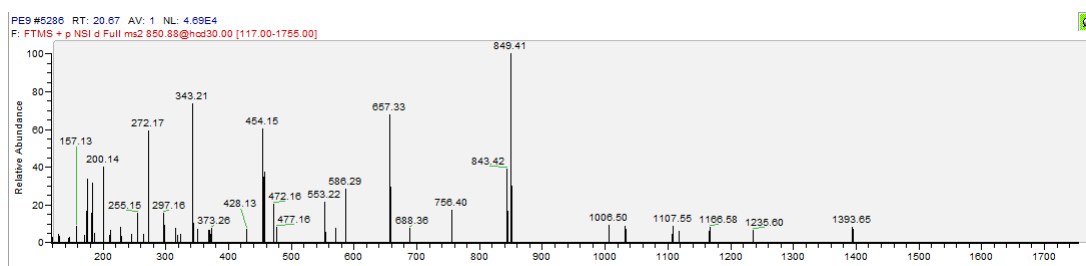
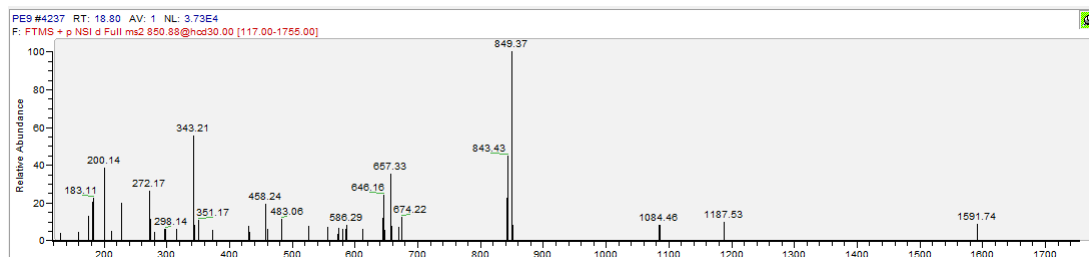
Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 45 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



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

```
1  MADDPVIDVS  HDLLSLLSSD  DRDFLIRSNG  DQVKISNLVG  KIVGLYFSGS
51  WCGPCRHFTP  NLVQVYEELS  LKGDFFVFI  SDDRDAESFD  AYFSKMPWLA
101 IPFSDQETCK  HLKDLFKVRG  IPNLVFLDAD  GKVSCDQGVR  FIREYGAEGY
151 PFTPERVEYF RQEEENAKKN  QTLSSILVSS  SRDFLISKDG  TKIPVSELEG
201 KMVGLYFSVH  SHRLCLDFTP  RLEEVYKKLK  EKGEKFEVVL  ISMDYDENNF
251 KQGLETMPWL  ALPFEDKSRE  RLARYFELSA  LPTLVIIGED  GKTLNKNVAE
301 LIEGHGIQAY  PFTPEKLVEL  AEIEKARLEA  QTLESVLVHG  DKDFVIEESG
351 SKVPVSELVG  KNILLYFSAK  WCPPCRAFLP  KLIEAYHEIK  AKDNAFEIIF
401 ISSDRDQSSF  DEFYTEMPWL  ALPFGDDRKT  ILQRKFKIKG  IPAAIAISPT
451 GKTLTKEARE  HITAYGADAY  PFNEDHLKQL  NDKQEETIAG  WPEKVRHELH
501 PEHELVRMKR  NGYGCDGCKE  AGSGWSFYCK  KCDFDLHPKC  ALKKEENGEK
551 VKK
```

Determination of the phosphorylated amino sites of small rubber particle protein (SRPP) in protein spot P6.

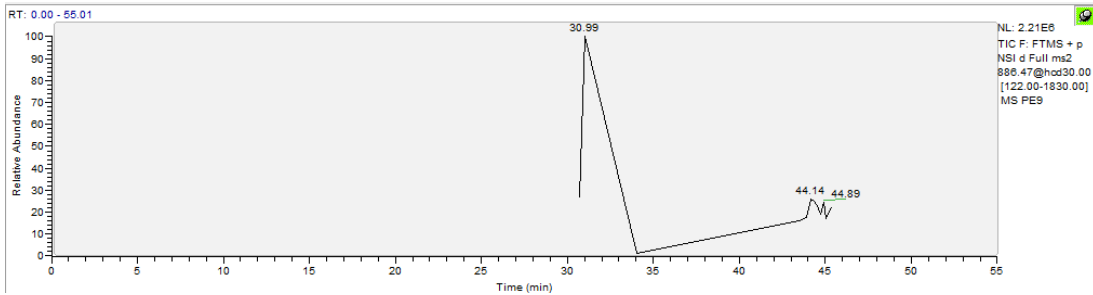


MS/MS Fragmentation of QVSpAQTYpSVAQDAPR

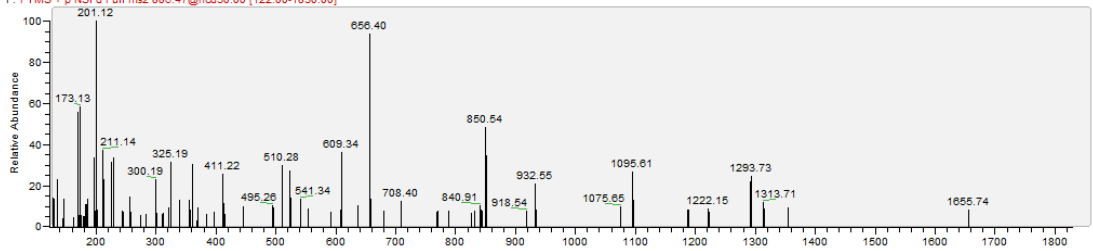
#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							15
2	228.1343	114.5708	211.1077	106.0575			V	1572.7054	786.8563	1555.6788	778.3431	1554.6948	777.8510	14
3	315.1663	158.0868	298.1397	149.5735	297.1557	149.0815	S	1473.6370	737.3221	1456.6104	728.8088	1455.6264	728.3168	13
4	386.2034	193.6053	369.1769	185.0921	368.1928	184.6001	A	1386.6049	693.8061	1369.5784	685.2928	1368.5944	684.8008	12
5	514.2620	257.6346	497.2354	249.1214	496.2514	248.6293	Q	1315.5678	658.2876	1298.5413	649.7743	1297.5573	649.2823	11
6	615.3097	308.1585	598.2831	299.6452	597.2991	299.1532	T	1187.5092	594.2583	1170.4827	585.7450	1169.4987	585.2530	10
7	858.3393	429.6733	841.3128	421.1600	840.3288	420.6680	Y	1086.4616	543.7344	1069.4350	535.2211	1068.4510	534.7291	9
8	945.3714	473.1893	928.3448	464.6760	927.3608	464.1840	S	843.4319	422.2196	826.4054	413.7063	825.4213	413.2143	8
9	1044.4398	522.7235	1027.4132	514.2102	1026.4292	513.7182	V	756.3999	378.7036	739.3733	370.1903	738.3893	369.6983	7
10	1115.4769	558.2421	1098.4503	549.7288	1097.4663	549.2368	A	657.3315	329.1694	640.3049	320.6561	639.3209	320.1641	6
11	1243.5355	622.2714	1226.5089	613.7581	1225.5249	613.2661	Q	586.2944	293.6508	569.2678	285.1375	568.2838	284.6455	5
12	1358.5624	679.7848	1341.5359	671.2716	1340.5518	670.7796	D	458.2358	229.6215	441.2092	221.1083	440.2252	220.6162	4
13	1429.5995	715.3034	1412.5730	706.7901	1411.5890	706.2981	A	343.2088	172.1081	326.1823	163.5948			3
14	1526.6523	763.8298	1509.6257	755.3165	1508.6417	754.8245	P	272.1717	136.5895	255.1452	128.0762			2
15							R	175.1190	88.0631	158.0924	79.5498			1

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							15
2	228.1343	114.5708	211.1077	106.0575			V	1474.7285	737.8679	1457.7019	729.3546	1456.7179	728.8626	14
3	297.1557	149.0815	280.1292	140.5682	279.1452	140.0762	S	1375.6601	688.3337	1358.6335	679.8204	1357.6495	679.3284	13
4	368.1928	184.6001	351.1663	176.0868	350.1823	175.5948	A	1306.6386	653.8229	1289.6121	645.3097	1288.6280	644.8177	12
5	496.2514	248.6293	479.2249	240.1161	478.2409	239.6241	Q	1235.6015	618.3044	1218.5749	609.7911	1217.5909	609.2991	11
6	597.2991	299.1532	580.2726	290.6399	579.2885	290.1479	T	1107.5429	554.2751	1090.5164	545.7618	1089.5324	545.2698	10
7	760.3624	380.6849	743.3359	372.1716	742.3519	371.6796	Y	1006.4952	503.7513	989.4687	495.2380	988.4847	494.7460	9
8	847.3945	424.2009	830.3679	415.6876	829.3839	415.1956	S	843.4319	422.2196	826.4054	413.7063	825.4213	413.2143	8
9	946.4629	473.7351	929.4363	465.2218	928.4523	464.7298	V	756.3999	378.7036	739.3733	370.1903	738.3893	369.6983	7
10	1017.5000	509.2536	1000.4734	500.7404	999.4894	500.2483	A	657.3315	329.1694	640.3049	320.6561	639.3209	320.1641	6
11	1145.5586	573.2829	1128.5320	564.7696	1127.5480	564.2776	Q	586.2944	293.6508	569.2678	285.1375	568.2838	284.6455	5
12	1260.5855	630.7964	1243.5590	622.2831	1242.5749	621.7911	D	458.2358	229.6215	441.2092	221.1083	440.2252	220.6162	4
13	1331.6226	666.3149	1314.5961	657.8017	1313.6121	657.3097	A	343.2088	172.1081	326.1823	163.5948			3
14	1428.6754	714.8413	1411.6488	706.3281	1410.6648	705.8360	P	272.1717	136.5895	255.1452	128.0762			2
15							R	175.1190	88.0631	158.0924	79.5498			1

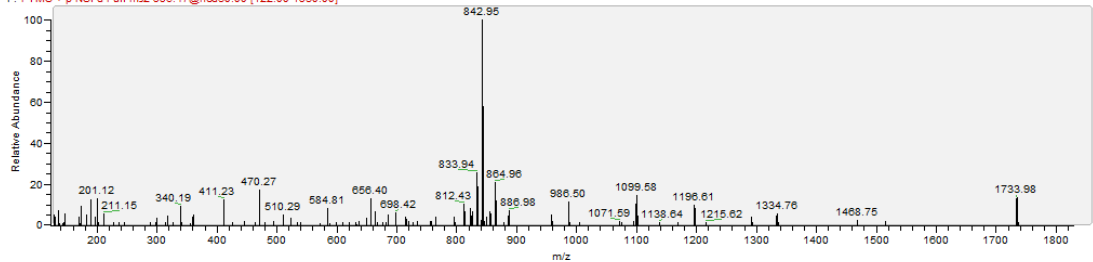
#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							15
2	228.1343	114.5708	211.1077	106.0575			V	1572.7054	786.8563	1555.6788	778.3431	1554.6948	777.8510	14
3	395.1326	198.0700	378.1061	189.5567	377.1221	189.0647	S	1473.6370	737.3221	1456.6104	728.8088	1455.6264	728.3168	13
4	466.1697	233.5885	449.1432	225.0752	448.1592	224.5832	A	1306.6386	653.8229	1289.6121	645.3097	1288.6280	644.8177	12
5	594.2283	297.6178	577.2018	289.1045	576.2178	288.6125	Q	1235.6015	618.3044	1218.5749	609.7911	1217.5909	609.2991	11
6	695.2760	348.1416	678.2494	339.6284	677.2654	339.1364	T	1107.5429	554.2751	1090.5164	545.7618	1089.5324	545.2698	10
7	858.3393	429.6733	841.3128	421.1600	840.3288	420.6680	Y	1006.4952	503.7513	989.4687	495.2380	988.4847	494.7460	9
8	945.3714	473.1893	928.3448	464.6760	927.3608	464.1840	S	843.4319	422.2196	826.4054	413.7063	825.4213	413.2143	8
9	1044.4398	522.7235	1027.4132	514.2102	1026.4292	513.7182	V	756.3999	378.7036	739.3733	370.1903	738.3893	369.6983	7
10	1115.4769	558.2421	1098.4503	549.7288	1097.4663	549.2368	A	657.3315	329.1694	640.3049	320.6561	639.3209	320.1641	6
11	1243.5355	622.2714	1226.5089	613.7581	1225.5249	613.2661	Q	586.2944	293.6508	569.2678	285.1375	568.2838	284.6455	5
12	1358.5624	679.7848	1341.5359	671.2716	1340.5518	670.7796	D	458.2358	229.6215	441.2092	221.1083	440.2252	220.6162	4
13	1429.5995	715.3034	1412.5730	706.7901	1411.5890	706.2981	A	343.2088	172.1081	326.1823	163.5948			3
14	1526.6523	763.8298	1509.6257	755.3165	1508.6417	754.8245	P	272.1717	136.5895	255.1452	128.0762			2
15							R	175.1190	88.0631	158.0924	79.5498			1

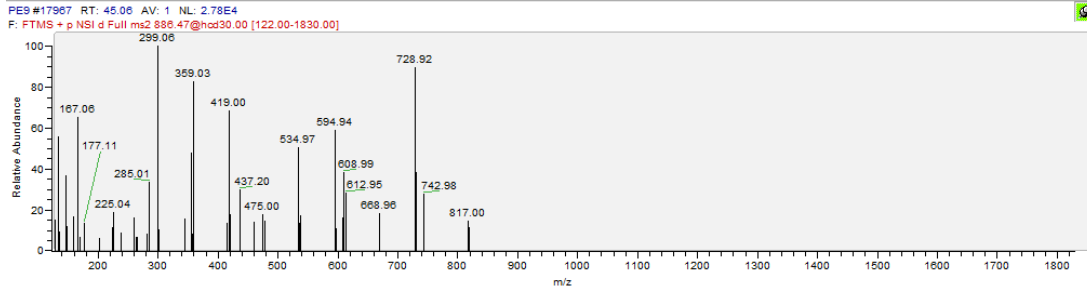
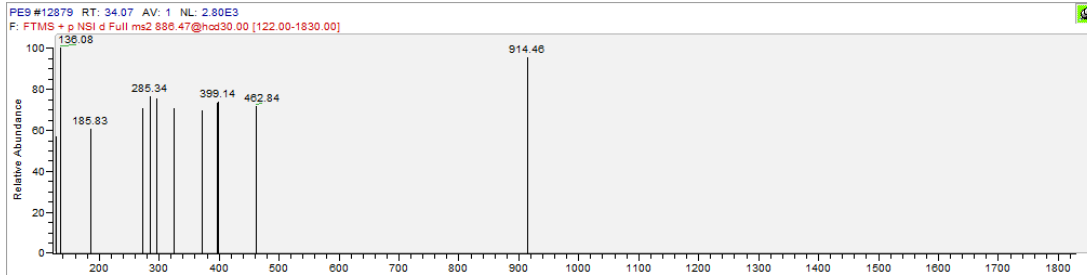


PE9 #11000 RT: 30.71 AV: 1 NL: 3.75E4
F: FTMS + p NSI d Full ms2 886.47@hcd30.00 [122.00-1830.00]



PE9 #11164 RT: 30.99 AV: 1 NL: 2.31E5
F: FTMS + p NSI d Full ms2 886.47@hcd30.00 [122.00-1830.00]





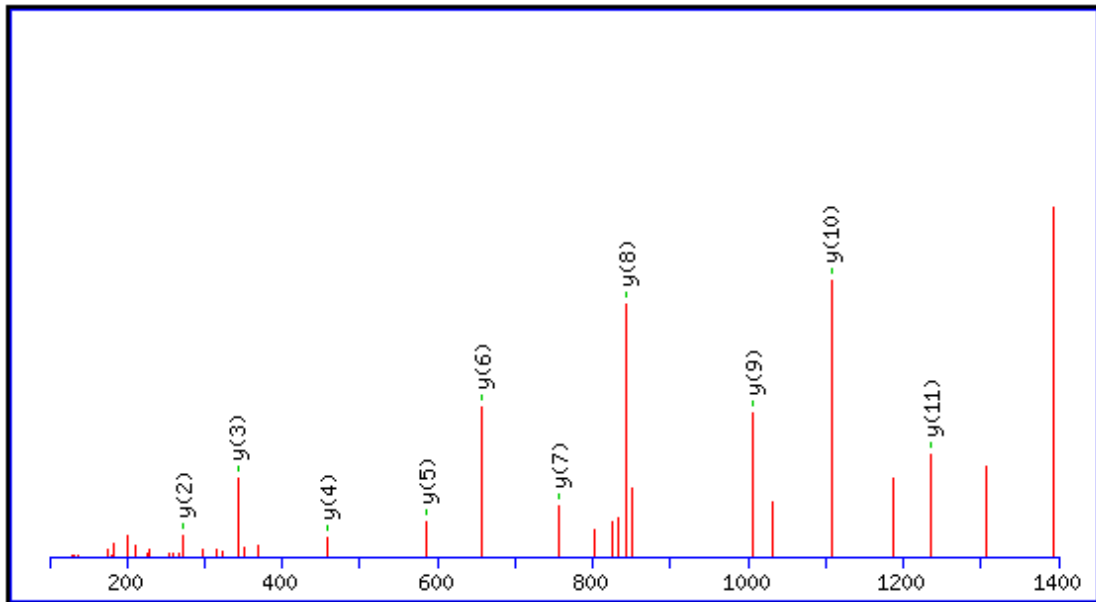
MS/MS Fragmentation of TVVTpPVYYIPLEAVK

#	b	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311	84.0444	42.5258	T							15
2	201.1234	101.0653	183.1128	92.0600	V	1670.8805	835.9439	1653.8539	827.4306	1652.8699	826.9386	14
3	300.1918	150.5995	282.1812	141.5942	V	1571.8121	786.4097	1554.7855	777.8964	1553.8015	777.4044	13
4	481.2058	241.1065	463.1952	232.1013	T	1472.7437	736.8755	1455.7171	728.3622	1454.7331	727.8702	12
5	578.2586	289.6329	560.2480	280.6276	P	1291.7297	646.3685	1274.7031	637.8552	1273.7191	637.3632	11
6	677.3270	339.1671	659.3164	330.1618	V	1194.6769	597.8421	1177.6503	589.3288	1176.6663	588.8368	10
7	840.3903	420.6988	822.3797	411.6935	Y	1095.6085	548.3079	1078.5819	539.7946	1077.5979	539.3026	9
8	1003.4536	502.2305	985.4431	493.2252	Y	932.5451	466.7762	915.5186	458.2629	914.5346	457.7709	8
9	1116.5377	558.7725	1098.5271	549.7672	I	769.4818	385.2445	752.4553	376.7313	751.4713	376.2393	7
10	1213.5905	607.2989	1195.5799	598.2936	P	656.3978	328.7025	639.3712	320.1892	638.3872	319.6972	6
11	1326.6745	663.8409	1308.6640	654.8356	L	559.3450	280.1761	542.3184	271.6629	541.3344	271.1708	5
12	1455.7171	728.3622	1437.7065	719.3569	E	446.2609	223.6341	429.2344	215.1208	428.2504	214.6288	4
13	1526.7542	763.8808	1508.7437	754.8755	A	317.2183	159.1128	300.1918	150.5995			3
14	1625.8226	813.4150	1607.8121	804.4097	V	246.1812	123.5942	229.1547	115.0810			2
15					K	147.1128	74.0600	130.0863	65.5468			1

Peptide ViewMS/MS Fragmentation of **QVSAQTYSVAQDAPR**Found in **SRPP_HEVBR** in **SwissProt**, Small rubber particle protein OS=Hevea brasiliensis
GN=SRPP PE=1 SV=1Match to Query 9859: 1699.749968 from(850.882260,2+) intensity(277497.1200) scans(5705)
rawscans(sn5705) rtinseconds(1283.9872) index(3303)

Title: 3304: Scan 5705 (rt=1283.99)

Data file tempfile

Monoisotopic mass of neutral peptide **Mr(calc)**: 1699.7567**Fixed modifications**: Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications**:**S3** : Phospho (ST), with neutral losses 0.0000 (shown in table),
97.9769**Ions Score**: 91 **Expect**: 2.8e-009**Matches** : 10/242 fragment ions using 13 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							15
2	228.1343	114.5708	211.1077	106.0575			V	1572.7054	786.8563	1555.6788	778.3431	1554.6948	777.8510	14
3	395.1326	198.0700	378.1061	189.5567	377.1221	189.0647	S	1473.6370	737.3221	1456.6104	728.8088	1455.6264	728.3168	13
4	466.1697	233.5885	449.1432	225.0752	448.1592	224.5832	A	1306.6386	653.8229	1289.6121	645.3097	1288.6280	644.8177	12
5	594.2283	297.6178	577.2018	289.1045	576.2178	288.6125	Q	1235.6015	618.3044	1218.5749	609.7911	1217.5909	609.2991	11
6	695.2760	348.1416	678.2494	339.6284	677.2654	339.1364	T	1107.5429	554.2751	1090.5164	545.7618	1089.5324	545.2698	10
7	858.3393	429.6733	841.3128	421.1600	840.3288	420.6680	Y	1006.4952	503.7513	989.4687	495.2380	988.4847	494.7460	9
8	945.3714	473.1893	928.3448	464.6760	927.3608	464.1840	S	843.4319	422.2196	826.4054	413.7063	825.4213	413.2143	8
9	1044.4398	522.7235	1027.4132	514.2102	1026.4292	513.7182	V	756.3999	378.7036	739.3733	370.1903	738.3893	369.6983	7
10	1115.4769	558.2421	1098.4503	549.7288	1097.4663	549.2368	A	657.3315	329.1694	640.3049	320.6561	639.3209	320.1641	6
11	1243.5355	622.2714	1226.5089	613.7581	1225.5249	613.2661	Q	586.2944	293.6508	569.2678	285.1375	568.2838	284.6455	5
12	1358.5624	679.7848	1341.5359	671.2716	1340.5518	670.7796	D	458.2358	229.6215	441.2092	221.1083	440.2252	220.6162	4
13	1429.5995	715.3034	1412.5730	706.7901	1411.5890	706.2981	A	343.2088	172.1081	326.1823	163.5948			3
14	1526.6523	763.8298	1509.6257	755.3165	1508.6417	754.8245	P	272.1717	136.5895	255.1452	128.0762			2
15							R	175.1190	88.0631	158.0924	79.5498			1

All matches to this query

Score	Mr (calc)	Delta	Sequence	Site Analysis
91.2	1699.7567	-0.0067	QVSAQTYSVAQDAPR	Phospho S3 98.48%
73.0	1699.7567	-0.0067	QVSAQTYSVAQDAPR	Phospho T6 1.48%
56.8	1699.7567	-0.0067	QVSAQTYSVAQDAPR	Phospho Y7 0.04%
41.0	1699.7567	-0.0067	QVSAQTYSVAQDAPR	Phospho S8 0.03%

Supplementary Figure S6: Antibody information

Antibody name: WR-1

Protein name: sucrose transporter 3

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |227809927

Antibody tag sequence: ISGMLVQPIVGYHSC

Protein sequence:

```
1 metdptkesk lpsseplppp pplvppppas sklrkivmva siaagiqfgw alqlsltpy
61 vllgiphtw aafiwlcpig sgmlvqipivg yhsdrctsrfgrrrrpfiagg alavavavfl
121 igyaadlgql sgdpvakspk praiavfvvg fwildvanm lqgpcralla dlsganqkkt
181 rianalysff mavgnvlgfa agsythlyki fpfttkacd vycanlkscf fisivllltl
241 tvlaliyvre kpwspergnt aagdeeeede gasessmpf fseifaslkn lqkpmwilll
301 vtclnwvawf pfilldtdwm grevyggdsn gnpvqvrllyd rgvragalgl mlnsvvlgtf
361 slgvevlara vggvkrwgi vnfilscflf mtiltkmae shrfatvvgg gatvplpppg
421 dvkagalalf avmgvpqait ysipfalasi fcntagagqg lslgvlhlsi vipqmvsvsv
481 sgpwdalfgg gnlpafvvgg vaaaasgifa ftllpsppd apsaktstrav taafh
```

Gene sequence:

```
1 atggagactg atcctacgaa agaatcaaaa ctcccctctt ctgaacctct tccacctct
61 ccgcccctag ttctccacc acccgctca agcaagctta gaaagattgt aatggtggcc
121 tccatagctg ctggtatcca gttggetgg gcttgccagc tctctcttt gacacctac
181 gttcagcttc ttggtatacc tcacacatgg gctgcttca tctggctatg tggaccatt
241 tcaggaatgc ttgcccagcc aattgctggc taccatagtg atcgttgccac ctcccgttt
301 ggccgtcgcc gcccttttat tgcaggcggg gcttgcccg ttgctgtagc tgtttcctt
361 atcggttatg ctgctgacct tggtaacte tctggtgacc ctgttgccaa gagccccaaa
421 ccacgagcta tagccgtgtt tctcgttggg ttctggattc ttgacgtcgc taataacatg
481 ctccagggtc cttgccgtgc tctctcgcc gatcttctg gtgccaatca gaagaagacg
541 cgtatagcta atgactgta ctctcttc atggccgtcg ggaacgttct tggctttgce
601 gctggatcct acactcattt atataaaata ttccattca caaagacgaa agcttggac
661 gtttactgtg caaatctgaa atctgtttc ttatctcca ttgtttgct ttaactctc
721 actgtattag ctctcattta cgttcgtgaa aagccttggg cccagagcg aggaaacacc
781 gctgccggtg acgaggagga ggaggacgag ggggcgtcgg agtcttctcc gatgccgttc
841 ttcagtgaga tatttgcate ttgaagaat ctgcaaaaac ccatgtggat cettctctg
901 gtgacgtgcc tgaactgggt tgcattggtt ccattctgt tgttcgatac tgattggatg
961 ggtagagagg tatacggcgg agattcaaac gaaatcccg tcaagtggag gttgtatgat
1021 cgtgggggtgc gcgctggtgc actgggtctg atgcttaact cgttggtttt ggggttcacc
```

1081 tcccttggtg tggaggtgct ggcgcgtgct gtcggaggag tgaaaagatt gtggggata
1141 gtgaattca ttcttcatt ttgtttgtc atgacgatct tgatcaccaa aatggctgaa
1201 tcccacagaa ggttcgccac cgtgggaggc ggcgccacgg ttccttgcc accacctgga
1261 gacgtcaagg ctggtgcatt ggccttttt gcggtgatgg gtgtacctca agctataact
1321 tacagtattc cttttgcttt ggcatcaata tttgtaaca ctgctggtgc tggtaagga
1381 ctttcttgg gagttctgaa tcttcaatt gttataccac agatggtggt gtcagtagta
1441 agcggacat gggatgcatt atttggaggg ggtaatctac cagctttgt ggtgggaggg
1501 gttgctccg cggccagtgg aatattgca ttcaccttac tccatctcc gcagcctgat
1561 gcccctceg ccaagactc aagggetgc acagctgct tccattga

Antibody name: WR-3

Protein name: hydroxymethylglutaryl coenzyme A reductase

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |16417954

Antibody tag sequence: CEDRSPTTPKASDA

Protein sequence:

1 mdttrlhhr khatpvedrs pttpkasdal plplyltnav ffflffsvay yllhrwrcki
61 rnstplhivt lseivaiysl iasfiyllgf fgidfvqsfi arashdvwdl edtdpnylid
121 edhrlvtcpp anistktii aaptklptse pliaplvssee demivnsvvd gkipsysles
181 klgdckraaa irrealqrmt rrsleglpve gfdyesilgq ccempvgyvq ipvgiagpll
241 lngreysvpm attegclvas tnrgckaiyl sggatsvllk dgmtrapvvr fasatraael
301 kffledpndf dtlavvfns srfarlqgik csiagknlyi rfscstgdam gmmmvskgvq
361 nvleflqsdf sdmdivigisg nfcSDKKpaa vnwiegrgks vvceaiikee vkkvktkv
421 aslvelnmlk nlagsavaga lggfnahagn ivsaifiatg qdpaqnvess hcitmmeavn
481 dgkdldhisvt mpsievgtvg ggtqlasqsa clnllgvkga nkespgnsnr llaaivagsv
541 lagelslmsa iaagqlvksh mkynrSSKdm skaas

Gene sequence:

1 atggacacca cgggccgget ccaccaccga aagcatgcta caccggtga ggaccgttct
61 ccgaccactc cgaaagcgtc ggacgcgctt cgcttcccc tctacctgac caacgcggtt
121 ttcttcacgc tgtttcttc ggtggcgtat tacctccttc accggtggcg cgacaagatc
181 cgcaactcca cteccctca tategttact ctctctgaaa ttgttgctat tgttccctc
241 attgcctctt tcattacct cctaggatc ttcggtatcg atttgtgca gtcattcatt
301 gcacgcgct ccatgacgt gtgggacctc gaagatacgg atcccaacta cctcatgat
361 gaagatacacc gtctcttac ttgcctccc gctaataat ctactaagac taccattatt
421 gccgcacct ccaaattgcc tacctcggaa cccttaattg caccctagt ctcggaggaa
481 gacgaaatga tcgcaactc cgtcgtggat gggaagatac cctcctatc tctggagtcg
541 aagctcgggg actgcaaacg agcggctcgc atcgacgcg aggccttgca gaggatgaca
601 aggaggtcgc tggaggctt gccagtagaa ggggtcgatt acgagtcgat ttaggacaa
661 tgctgtgaaa tgccagtggg atacgtcag attccggtgg ggattcgggg gccgttgtg
721 ctgaacggcc gggagtactc tgtccaatg gcgaccacgg agggttggtt ggtggcgagc
781 actaatagag ggtgtaaggc cattacttg tcaggtgggg ccaccagcgt tttgtgaag
841 gatggcatga caagagcgc ttgtttaga ttcgcctcgg cgactagagc cgcggagttg
901 aagtctctt tggaggatcc tgacaattt gataccttg ccgtagttt taacaagtct
961 agtagattg cgaggctcca aggcattaaa tgctcaattg ctgtaagaa tctttatata
1021 agattcagct gcagcactgg cgatgcaatg gggatgaaca tggttctaa aggggttcaa
1081 aacgttctg aattcttca aagtgtttt tctgatatgg atgtcattgg catctcagga
1141 aatttttgt cggataagaa gcctgctgct gtaaattgga ttgaaggacg tggcaaatca

1201 gttgttttg aggcaattat caaggaagag gtggtgaaga aggtgtttaa aaccaatgtg
1261 gcctccctag tggagcttaa catgctcaag aatcttgctg gttctgctgt tgctggtgct
1321 ttgggtggat ttaatgccca tgcaggcaac atcgtatctg caatctttat tgccactggc
1381 caggatccag cacagaatgt tgagagttct cattgcatta ccatgatgga agctgtcaat
1441 gatggaaagg atctccatat ctctgtgacc atgcctcca ttgaggtggg tacagtggga
1501 ggtggaactc aactgcatc tcagtctgct tgtctcaatt tgcttggggg gaagggtgca
1561 aacaaagagt cgccaggatc aaactcaagg ctcttgctg ccatcgtagc tgggtcagtt
1621 ttggctggtg agctctcctt gatgtctgcc attgcagctg ggcagcttgt caagagtcac
1681 atgaagtaca acagatccag caaagatatg tctaaagctg catcttag

Antibody name: WR-4

Protein name: hydroxymethylglutaryl coenzyme A synthase

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |16417956

Antibody tag sequence: YKHFCAKYEKFEKG

Protein sequence:

1 maknvgilav diyfpptfvq qealeahdga skgkytiglg qdcmafctev edvismslta
61 vtslldkyni dpkqigrlev gsetvidksk siktflmqif ekfgntdieg vdstnacygg
121 taalncvnmw vessswdgry glvctdsav yaegparptg gaaaiailvg pdapiafesk
181 frgshms Shay dfykpnase ypvvdgklsq tcylmaldsc ykhfcakye k fegkqfsisd
241 aeyfvfhspy nklvqksfar lvfnfvrna ssidetakek lapfsnlsgd esyqnrdek
301 vsqqvakply dakvkpttli pkqvgnmyta slyaafasll hskhtelagk rvtlfsygg
361 ltatmfsrlr hegqhpfsls niasvmnvag klkarhelpp ekfvdimklm ehrygakdfv
421 tskdcslas gtyyltevds lyrrfyaqka vgentvengll angh

Gene sequence:

1 atggcaaaga atgtgggaat tctcgtctg gacatctact ttctcctac cttgttcag
61 caggaagcac tggaggctca tgatggtgca agcaaaggga aataccatc tggacttgg
121 caggattgca tggcatttg tactgaggtg gaagatgca tctcaatgag ttgactgca
181 gttacttca tctcgaca gataatatt gatcctaac aaatcggtcg tctggaagt
241 ggcagtgaga ctgtgatcga caagagcaa tctattaa cttcttgat gcaattt
301 gagaaatcg gaaactga cattgaaggc gttgactca caaatgcatg ttatggggg
361 actgcagctt tattcaactg tgtcaattg gttgagagca gttcatggga tggacgct
421 ggacttgtag tgtgtactga cagtgcggtc tatgcagagg gtccagccc accaactgga
481 ggagctgcag ccattgcg ttagtaggt ccagatgac ctattgctt tgaagcaaa
541 ttaggggga gccatgctc tcatgctt gattttaca agcccaacct ggctagtga
601 tatccagttg tggatggcaa gcttccca acatgctacc tcatggctct tgattctg
661 tacaacatt tctgtgcaa gtatgagaaa tttgaaggca agcaattctc tattctg
721 gctgaatatt ttgtattca ttctctac aacaagctg tacagaaaag cttgctcgt
781 ttggtgtca atgacttgt gaggaatgcc aggtctattg atgagactgc taaagaaa
841 ctggcaccgt ttcaaatt atctggtgat gaaagctacc aaaaccggga tcttgaag
901 gtatcccaac aagttgcaa gcccttat gatgcgaaag tgaaccaac cacttgata
961 ccaaagcaag tggcaatat gtactgca tcttgtatg cagcattgc atccctct
1021 cacagtaaac atactgaatt ggcaggcaag cgggtgacac tgttctta tgggagtgg
1081 ttgacagcca caatgtctc attgcgacta catgaaggcc aacatccct tagcttgca
1141 aacattgcat ctgtgatgaa tgttcagga aagttgaagg caagacatga gcttcccc
1201 gagaagttg taaacatcat gaagtaatg gagcaccggt acggagctaa agactttg
1261 agaagcaagg attgcagcct cttgctct ggaacatact atctcacaga agttgacag

1321 ttgtatcgaa gattctatgc ccagaaggct gttggcaaca cagttgagaa tggtttgctg
1381 gctaatgggc attga

Antibody name: WR-5

Protein name: phosphomevalonate kinase

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |16417948

Antibody tag sequence: DEIKPDSWAWAWTDC

Protein sequence:

1 mavvasapgk vlmtggylll erpnagivls tnarfyaivk piydeikpds wawawtdvkl
61 tspqlaresl yklslnlal qcvssasm pfveqavqfa vaaahatldk dkknvlnkll
121 lqglditilg tndfysyrne ieacglpltp eslaalpsfs sitfnveean gqnckpevak
181 tglgssaamt tavvaallhh lglvdlsssc kekkfsdldl vhiaqtahc iaqgkvsgsf
241 dvssavygsh ryvrfspevl ssaqdagkqi plqevisnil kgkwdhertm fslplmsll
301 lgepgtggss tpsmvgalkk wqksdtqksq etwrklsean saletqfnil sklaeehwda
361 ykcevidscst knsekwieqa tepsreavvk allgsrnaml qirnymrqmg eaagvpiepe
421 sqtrlldttm nmdgvllagv pgaggfdavf avtlgdsgtn vakawsslnv lallvredpn
481 gvllsgdpr tkeittavfa vhi

Gene sequence:

1 atggctgtag ttgcttctgc tccgggtaag gtgtgatga ctgggggta cctcatattg
61 gaaagacca atgcagggat tgtactcagc acaaatgctc gattctatgc cattgtgaag
121 cctatttacg atgaaatcaa acctgatagt tgggcatggg catggactga tgtgaaatta
181 acatctccc aactagcaag ggaaagcttg tacaaattgt cactgaaaaa tttagctctt
241 cagtgtgtct ctcaagtgc atcaaggaac ccatttggg aacaagcagt gcaatttgc
301 gtacagctg cacatgcaac actgacaaa gataagaaga atgtcttaa caagctactc
361 ttgcaagtc ttgatattac aatattaggt accaatgact tctattcata ccgaaatgag
421 attgaagcat gtggactccc ttgacacca gaatcattgg ctgcacttcc ttcttttcc
481 tcaatcacct tcaatgtaga ggaagcaaat ggacaaaact gcaagcctga ggtagctaaa
541 actggattgg gtcatcagc agcaatgacc actgctgtag ttgctgcttt acttcatcac
601 cttggattgg ttgatcttc atcctctgt aaagagaaga aattttctga tcttgattg
661 gtacataaa tagcccaaac tgcccattgt atgcacaag ggaaagtcgg cagtggatt
721 gatgttagtt ctgcagtta tggcagtcac cgatagctgc gcttctcc agaagtgctt
781 tcctctgctc aggatgctgg gaaaggaatt ccattacagg aagtcatttc taacatccta
841 aaaggaaaat gggaccatga gaggactatg tttccttgc caccattgat gagcctgcta
901 ctagtgagc caggaactgg aggatctcc acgcatcaa tggtaggtgc tctaaagaaa
961 tggcagaagt ctgatactca gaaatccaa gaaacatgga gaaagtgtc agaggcaaat
1021 tcagcattg aaacgaatt caatattta agcaagctc agaagaaca tgggacgag
1081 tataaatgtg tgatagacag ttgcagcaca aaaaactcag agaagtggat tgagcaggca
1141 actgaacca gccgagaagc agttgttaa gcattattag gatcaagaaa tgccatgctt
1201 cagatcagaa attacatgag ccagatgggt gaggctgcag gtgtccgat agagcctgaa

1261 tcacagactc gacttttggga tactactatg aatatggatg gagtcttggt ggctggagtt
1321 cctggagcag gtgggtttga tgcagtcttc gctgtacct taggggactc tggaccaat
1381 gtggcaaaag ctggagttc actcaatggt ctggccctgt tggftagaga agacccta
1441 ggtgttttgt tagaaagcgg cgatccaaga accaaggaaa tcacaacagc tgttttgc
1501 gttcatatt ga

Antibody name: WR-6

Protein name: mevalonate kinase, MEVK

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |16417946

Antibody tag sequence: DVSITEKEEKLEEC

Protein sequence:

1 mevkarapgk iilsgehavv hgstavaasi nlytyvtlsf ataenddslk lqlkdlalef
61 swpigrira lsnlgapsss trtscsmesi ktisalveee nipeakialt sgvsafwly
121 tsiqgfkpat vvvtsdlplg sglgssaafc valsaallaf sdsvnvdtkh lgwsifgesd
181 lellnkware gekiihgkps gidntvsayg nmikfksgnl triksnmpk mlvtntrvgr
241 ntkalvagvs ertlrhnam sfvfnavdsi snelaniiqs papddvsite keekleelme
301 mnqgllqcmg vshasietvl rttlkyklas kltgaggggc vtlpltls gtvvdkaiae
361 lescgfqli agiggngevef cfggss

Gene sequence:

1 atggaagtta aagcaagagc tccagggaaa atcattctct ccggtgaaca cgcagtggtg
61 cacggatcca ctgcagtcgc tgcattcatt aatctctaca cctatgacac cctttcttt
121 gctactcgtg agaatgatga ttcactgaaa ctcagctca aggatctggc actagaattt
181 tcatggccaa ttggtagaat cagagaggca ttatctaact taggtgctcc ttctcttca
241 acacgcacct cttgctcgtg ggaatcaatt aagacaattt cagctttggt tgaagaagaa
301 aataatccag aggcacaaaat tgcactcact tctggagtgt cagccttttt atggttatat
361 actctatc aaggattaa gctgcccacc gtagttgtca cttctgatct tccactgggt
421 tcaggcctag gatcatctgc tgcattttgt gttgccctct cagctgctct gcttcttcc
481 tcagactctg taaatgtgga cacaaagcac ctagggtggt caatatttgg agagtctgac
541 cttgaattat taaacaaatg ggctctcgaa ggtgaaaaga taattcatgg aaagccatct
601 ggaatagaca aactgtcag cgcattatgg aacatgatca agttcaagtc tggtaatctg
661 actcgcatac agtccaacat gccgctcaaa atgctcgtca ctaacacaag agtggggagg
721 aacacaaaag cactggttgc tgggtttca gagagaacct tacggcacc taatgccatg
781 agttttgttt ttaatgccgt tgattctatc agtaatgagc tggtaacat catccagtca
841 cctgctccag atgatgtgc cataactgag aaggaagaga agctagaaga gttaatggaa
901 atgaatcaag gcttcttca atgcatgggg gtcagccatg cttctataga aactgttctt
961 cggacaactt tgaatacaaa gttagcttcc aagctgactg gagcaggggg tgggggggtg
1021 gtgctgacac tgttaccac cctgctatca ggaacagttg ttgacaaagc aattgctgaa
1081 ttggagtcat gcggatttca atgtttgatt gctggaatcg gtgggaatgg tgttgagttt
1141 tgctttggtg gttcatcctg a

Antibody name: WR-7

Protein name: farnesyl diphosphate synthase, FADS

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |22676905

Antibody tag sequence: IPRILKKHFRGKAYC

Protein sequence:

1 madlkstflk vysvlkqell edpafewtpd srqwvermld ynvpggklnr glsvidsykl
61 lkegqeltee eiflasalgw ciewlqayfl vlldimdssh trgqpcwfr vpkvglian
121 dgillrnhip rilkkhfrgk ayyvdlldlf nevefqtasg qmidlittle gekdlskyl
181 slhrrivqyk tayysfylv acalliagen ldnhivvkdilvqmgiyfqv qddyldcfdg
241 petigkigtd iedfkcswlv vkalelcnee qkkvlyehyg kdpasvakv kvlynelklq
301 gvfteyenes ykklvtsiea hpskpvqavl ksflakiykr qk

Gene sequence:

1 atggcggatc tgaagtaac ttcttgaag gtctactctg tctcaagca ggagtcctt
61 gaggatccgg ctctcgaatg gacaccagat tcccgtcaat ggggtgagcg gatgtggac
121 tacaatgtgc ctggagggaa gctgaatagg gggcttctg taattgacag ctacaattg
181 ttgaaagaag gacaggaatt aacagaagaa gagatcttc ttgcaagtgc tcttggttg
241 tgtattgaat ggctcaagc ctatttctt gtacttgatg acattatgga tagctctcat
301 acacgacgtg gtcagccttg ctggttagg gtgccaagg ttggtctgat tgcagcaaat
361 gatgggattt tgcttcgcaa tcacattccc aggattctta aaaagcactt ccgagggaa
421 gcatactatg tagatctct agattgttt aatgaggtgg agttcaaac agcctcagga
481 cagatgatag atctaattac aaccttgaa ggagaaaagg atttatcaa atacacttg
541 tactccacc ggagaattgt tcagtacaaa actgcctact actcattta ccttctgtt
601 gcttgatcat tgctcatagc ggggtgagaat ctggacaatc atattgtgt aaaagacatt
661 cttgtcaga tgggaatcta ctccaagta caggatgatt attggattg ctttggat
721 cccgagacaa ttgtaagat aggaacagat atagaagatt ttaagtgttc atggttggc
781 gtgaaggctt tagaacttg caatgaagaa caaaagaaag tgttatatga gcactatgg
841 aaagctgacc cagccagtgt agcaaagggt aagtccttt ataagagct gaagcttcag
901 ggggtattta cggagtatga gaatgaaagc tataagaaac tagtaacctc tattgaagc
961 catcctagca agccgggtgca agcagtgttg aagtccttt tggccaaaat ttacaagaga
1021 cagaataa

Antibody name: WR-8

Protein name: cis-prenyltransferase, CIST

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |40716449

Antibody tag sequence: CDNFRRKPHVQYV

Protein sequence:

1 mklytgerps vfrllgkymr kglygiltqg pipthlafil dgnrrfakkh klpeggghka
61 gflallnvt ycyelgvkya tiyafsidnf rrkphevqyv mnlmlekieg mimeesiina
121 ydicvrfvgn kllsepvkt aadkimrata nnskevllla vcytstdeiv haveesseln
181 snevcnnqel eeanatgsqt viqtenmesy sgiklvdek ntyinpypdv lirtsgetrl
241 snyllwqtn cilyspyalw peiglrhvww svinfqrhys ylekhkeylk

Gene sequence:

1 atgaattat acaccggtga gagccaagt gtgtcagac ttttagggaa gtatatgaga
61 aaagggttat atggcatcct aaccagggc cccatcccta ctcattctgc cttcatattg
121 gatggaaaca ggaggtttgc taagaagcat aaactgccag aaggaggtgg tcataaggct
181 ggatttttag ctcttctgaa cgtgctaact tattgctatg agttaggagt gaaatatgcg
241 actatctatg cctttagcat cgataatctt cgaaggaaac ctcattgagt tcagtacgta
301 atgaatctaa tgctggagaa gattgaaggg atgatcatgg aagaaagat catcaatgca
361 tatgatattt gcgtacggtt tgtgggtaac ctgaagcttt taagttagcc agtcaagacc
421 gcagcagata agattatgag ggctactgcc aacaattcca aatgtgtgct tctccttgc
481 gtatgctata cttcaactga tgagatcgtg catgctgttg aagaatcctc tgaattgaac
541 tccaatgaag tttgtaaca tcaagaattg gaggaggcaa atgcaactgg aagcggctact
601 gtgattcaaa ctgagaacat ggagtcgtat tctggaataa aactttaga ccttgagaaa
661 aacacctaca taaatcctta tctgatgtt ctgattcgaa cttctgggga gaccctctg
721 agcaactact tactttggca gactactaat tgcatactgt attctcctta tgcactgtgg
781 ccagagattg gtcttcgaca cgtggtgtgg tcagtaatta actccaacg tcattattct
841 tacttgaga aacataagga atacttaaaa taa

Antibody name: WR-9

Protein name: Rubber elongation factor

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |132270

Antibody tag sequence: drslppivkd asiqvvsair

Protein sequence:

```
1 maedednqqg qgegklylgf vqdaatyavt tfsnylfak dksqplqpgv diiegpvknv
61 avplynrfsy ipngalkfvd stvvasvtii drslppivkd asiqvvsair aapearsla
101 sslpgqtkil akvfygen
```

Gene sequence:

```
1 ttttgatcctt ccatttttgc aaaaggaaat ctctgattat ggctgaagac gaagacaacc
61 aacaagggca gggggagggg ttaaaatatt tgggttttgt gcaagacgcg gcaacttatg
121 ctgtgactac cttctcaaac gtctatcttt ttgccaaaga caaatctggg ccaactgcagc
181 ctgggtgtcga tatcattgag ggtccgggtga agaacgtggc tgtacctctc tataataggt
241 tcagttatat tcccaatgga gctctcaagt ttgtagacag cacggttggt gcatctgtca
301 ctattataga tcgctctctt ccccaattg tcaaggacgc atctatccaa gttgtttcag
361 caattcgagc tgccccagaa gctgctcggt ctctggcttc ttctttgctt gggcagacca
421 agatacttgc taaggtgttt tatggagaga attgagcccc aatttgcacc aattgcttcc
481 aactaagcaa gttaatgata tgctcaagaa tatatatcta ttgtgagctt tttttatggt
541 ctcatcctga gtggtgagac tatgttttcg tttgaatatt atactgtggt ttattatgtg
601 ttttgaatat tcataatgag aataaagggc caattgaatt attggccaat atgtaatgat
661 acataaattt cgtgattgag t
```


Antibody name: WR-10

Protein name: Small rubber particle protein

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |14423933

Antibody tag sequence: gvvppvik qvsaqtysv

Protein sequence:

1 maeveeerl kyldfvraag vyavdsfstl ylyakdisgp lkpgvdtien vvkvtvtpvy
61 yipleavkfv dktvdvsvts ldgvvppvik qvsaqtysva qdaprivldv assvfntgvq
121 egakalyanl epkaeqyavi twralnklpl vpqvanvvvp tavyfsekyn dvvrgtteqg
181 yrvssylpll ptekitkvgf deas

Gene sequence:

1 ataatacagt gatagcttcc acagtgtttt ccgaaaggca aatctttttt caaactcag
61 cgactgcgtt tgaattgtt gatttttaa gaaattttc aattatggt gaagaggtgg
121 aggaagagag gctaaagtat ttgattttt tgcgagcggc tggagtatt gctgtagatt
181 cttctcaac tcctacctt tatccaagg acatatctgg tccataaaa cctggtgtcg
241 atactattga gaatgtggtg aagaccgtgg ttactcctgt ttattatatt ccccttgagg
301 ctgtcaagtt ttagacaaa acggtggatg tatcggtcac tagcctagat ggcgtgttc
361 ccccagttat caagcagtg tctgccaaa ctactcggg agctcaagat gctccaagaa
421 ttgttctga tgtgcttct tcagtttca aactggtgt gcaggaagc gcaaaagctc
481 tgtacgctaa tctgaacca aaagctgagc aatatcggg cattacctgg cgtgccctca
541 ataagctgcc actagtctc caagtgcaa atgtagtgt gccaacctg gttttttt
601 ctgaaaagta caacgatgt gttcgtgca ctactgagca gggatataga gtgtcctt
661 attgccttt gttgccact gagaaaatta ctaaggtgt tggagatgag gcatcataat
721 ctgcactgga ttggttatt tatctattg gagcttttt atatgtactt attcagtgt
781 tagaataagt cttggtggt gtgttttga tgtggaataa agggccaatt gcattgttg
841 tcaatatata attatgata acattcgtg attgagtg gaactaaag gttttacaaa
901 aaaaaaaaa aaaaaaaaa aa

Antibody name: WR-11

Protein name: hydroxynitrile lyase

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |1223884

Antibody tag sequence: CIENYKPKDKVYKVE

Protein sequence:

1 mafahfvlih tichgawiwh klkpallealg hkvtaldlaa sgvdprqiee igsfdeysep
61 lltflealpp gekvilvges cgglniaiaa dkycekiaaa vfhnsvlpdt ehcpsyvvdk
121 lmevfpdwkd ttyftytkdg keitgklgf tllrenlytl cgpeeyelak mltrkgslfq
181 nilakrpfft kegygsikki yvwtqdEIF lpefqlwqIE nykpdkvykv eggdhklqlt
241 ktkeiaeilq evadtyn

Gene sequence:

1 atggcattcg ctcatTTTgt tcttattcat accatatgcc acggtgcatg gatttggcac
61 aagctcaaac cctccttga ggcacttggc cacaaggta ctgcactgga ccttgcagca
121 agcggcgctg acccaaggca aattgaggag attggctcat ttgatgagta ttctgaacc
181 ttgttgacgt tcttgaggc actccctcca ggggaaaagg tgattctggt tggcgagagc
241 tgtggaggac tcaatatagc aattgctgct gataaatact gtgaaaagat tgcagctgct
301 gttttccaca attcagtatt gccagacacc gagcactgcc catcttacgt cgtggataag
361 ctcatggagg tgtttccga ctggaaagac accacgtatt ttacgtacac taaagatggc
421 aaggagataa ctggattgaa actgggcttc acgcttctga gggaaaattt atataccctt
481 tgcggctctg aggaatatga actggcgaag atgttgacaa ggaagggatc attattcaa
541 aatattttag ctaagcgacc attcttact aaggaaggtt acggatcgat taagaaaatt
601 tatgtgtgga ccgaccaaga cgaaatattt ttacctgaat tcaactctg gcaaatagaa
661 aactataaac cagacaaggt ttataagtc gaaggtggag atcataaatt gcagcttaca
721 aagactaagg agatcgctga aattctcaa gagtggtctg atacctataa ttga

Antibody name: WR-12

Protein name: superoxide dismutase (manganese)

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |348137

Antibody tag sequence: CQLHHQKHHQTYIT

Protein sequence:

1 malrslvtrk nlpsafkaat glgqlrglqt fslpdlpydy galepaisge imqlhhqkhh
61 qtyitnynka leqlndaiek gdsaavvklq saikfngggh vnhsifwknl apvregggel
121 phgslgwaid adfgslekli qlmnaegaal qgsgwvwlal dkelkklvve ttanqdpvt
181 kgptlvpllg idvwehayyl qyknvrpdyI kniwwmwnk yasevyakec pss

Gene sequence:

1 atggctctgc gatctctagt gaccgaaag aacctacct cagccttcaa ggccgccaca
61 gggctagggc aactgcgggg attgcagacc ttctctctcc ccgatctccc ttacgactat
121 ggtgccctgg agccccgat tagcggcgag ataatgcagc tgcacacca gaaacatcac
181 cagactata ttactaacta caacaaggct ctcgagcaac tcaacgacgc tatagagaag
241 ggcgattctg ctgccgtcgt caagttgcag agcgccatca agttcaacgg tggaggtcat
301 gtcaaccact ccattttctg gaagaatctt gccccgtcc gtgaaggagg tggatgaact
361 ccgcatggtt cccttggttg ggctattgac gcagatttg gctcattgga aaagtgata
421 caattaatga atgcagaagg tgctgcgctg caaggatctg gatgggtgtg gcttgccttg
481 gacaaagaat tgaagaagct tgtggttgag accactgcaa accaggatcc attgtaact
541 aaaggaccaa ctttagttcc ttgcttggg attgatggtt gggagcatgc atactactta
601 cagtacaaa atgtcagacc agactatcta aagaacatag gaaagtaag gaattggaag
661 tatgcaagtg aagtgtatgc caagaatgc cttcttctt ag

Antibody name: WR-13

Protein name: rubber peroxidase 1

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |109809965

Antibody tag sequence: NFNNTNSPDPTLNC

Protein sequence:

```
1 mhisplmlva ialyailvgs srplayaqls ptfydqscpn vsniirgviq eslqdsrig
61 aslirlhfhd cfvngcdasi lldntdies ekqaaannns argfdvvdtn karlesacpg
121 ivscadiltv saqqsvdlag gptwnllgr rdsltasrsq anlsipgpfe tldqlkskft
181 avglnntdl valsgahtfg raqctfspr lynfnntnsp dptlnntylq tlqqicpqgg
241 ngsvitnldl ttsdtfdney fsnllvgegl lqsdqelfnt tgadtvaivq nfsanqtaff
301 esfvesmlrm gnlsvlgti geirlncskv ngssagaet llvssm
```

Gene sequence:

```
1 atgcatactc ctcattgat gttggtggcg atagctttat atgcaattht agttggatca
61 tcaagacccc tggcctacgc tcagctatct ccaacattht atgatcaaag ctgcccacaa
121 gtctccaaca ttattcgtgg agtcatccaa gaatccttgc aatctgattc caggattggt
181 gccagectca tcaggcttca ttccatgac tgctttgtca atggttgcca tgcatacaat
241 ttgttgaca atactgatac tatagagagt gagaacaag ctgctgcaaa taacaactca
301 gctagaggtt ttgatgtgtg tgatacaatg aaggctagat tggagagtgc ttgctctggc
361 attgtttctt gtgctgatat tctaactgtt tcagctcaac aatctgttga ttggcagga
421 gggccaacat ggacaaatct acttgggaaga agagatagct taacagcaag cagaagtcaa
481 gctaacttta gcattccagg tcctttcgag acccttgacc agctcaagtc caagttcacc
541 gccgtaggcc tcaacaacaa taccgatcta gttgccctat ctggtgctca cacgtttgga
601 agagetcaat gcagaacatt tagccccctg ttgtacaact tcaataaac taattctcca
661 gaccaacat tgaacacaac atatctgcaa acgcttcaac aaatatgtcc acaaggagga
721 aatgggagtg taataactaa tcttgatctc acaactctg ataccttga taatgaatat
781 ttctcaate ttctagttgg agaaggcctt ctccagagtg atcaagaact atttaact
841 actggggctg atactgttgc tattgtcaa aatthtagtg ctaatcagac tgctttttt
901 gaaagctttg tggagctcat gctcagaatg ggaatctca gcgttttaac aggaactatt
961 ggagagatta gattgaattg cagcaaagt aatggaatt catcagctgg agcagaaact
1021 ctcttgta gctccatgta g
```

Antibody name: WR-14

Protein name: calcium-dependent protein kinase 1, CDPK

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |289413843

Antibody tag sequence: CRQNQQQSYQQPE

Protein sequence:

1 mgccsskekp skseankgyr ssgtgnlrqn qqqqsyyqqp eyqqqqavqh pkmtvpqtqt
61 qtpqtrpqqp qastpppvra aptnlarsv qtpqtilgkp ledikqyysl gkelgrgqfg
121 vtylctenst ghyacksil krklinkgdr edikrevqim qhlsqpniv efrgsyedrq
181 svhvmelca ggelfdriia kghyserdaa rickdivnvv hachfmgvmh rdlkpenfll
241 askdegamlk ttdfglsvfi eegktyrniv gsayyvapev lrrsygkeid iwsagvilyi
301 llsgvppfwa etekgifdai legyidfess pwpsidsak dlvrmltqd pkrritsaqv
361 ldhpwikdgg aasdkpidsa vlsmkqfra mnklklalk viaenseee ikglkamftn
421 mtdtksgtit yeelktglar lgsrlsetev kqlmeaadvd gngaidyief isatmhryrl
481 erdehlykaf qyfdkdssgy itrdelesam meygmgeas ikeiisevdt dndgkinyee
541 fctmmrrgvq qpgklf

Gene sequence:

1 atgggttgtt gtagcagcaa ggagaagcct taaaatcag aggctaataa agggtacagg
61 tcaggaggca ctgtaattt aaggcagaac caacaacaac aatcttatta tcaacaacca
121 gaataccagc aacaacaggc cgtgcagcac caaaaaatga cgcctcctca aactcaaaac
181 caaaccegc aaacaaggcc ccaacaacct caggcatcaa cccccctcc agtaagagca
241 gcacctaga acctacagc aagatcagtt caaacgccac agaccattct gggcaaacc
301 ttggaagaca ttaagcagta ctacagtcta gggaaagaac tggtagaggg ccaatttgg
361 gttacttatt tgtgcacaga gaattccact ggccacattt atgcctgcaa atccatactg
421 aagagaaaac taatcaataa ggggtgacaga gaagatatca agagagaggt tcagattatg
481 cagcacttgt ctgggcagcc aaatattgta gagtttaggg gttcctatga ggataggcaa
541 tetgttcag ttgtgatgga gctttgtgct ggaggggaac ttttgatcg tattattgct
601 aaagggcatt atcggagag agatgccgct aggatttga aggatattgt gaatgtggtg
661 cacgcttccc atttatggg agtgatgcac cgtgatctca agccggagaa tttctgctg
721 gctagcaagg atgaggagc aatgttgaag accactgatt ttggactgct tegtctcatt
781 gaggaaggga aaacataccg taatatagtt ggtagtgcct attatgttgc tctgaagta
841 ttgagcgta gttatggaaa gaaatagat atttggagtg caggagttat tttgtatatt
901 ctactcagtg gtgtactcc atttgggct gaaactgaaa aaggaatatt tgatgctatt
961 ctagaaggat acattgattt taaaagtca ccatggccat caatatctga cagtccaaa
1021 gatctggtca ggagaatgct gactcaggac caaaaaggc gaattacttc agcacaagtt
1081 cttgaccatc catggattaa agatggaggt gcagcatcag acaagccaat agatagtgca
1141 gttctcteta gaatgaagca atcagggca atgaataagc tcaagaagct agcattaaag

1201 gttattgctg aaaatctctc tgaagaagaa attaaaggtc ttaaagcaat gttcacaac
1261 atggacactg acaagagtgg cacaatcacc tatgaagagc tgaagacagg ttagctcga
1321 cttgggtcaa ggctctctga aactgaagtt aaacaattaa tgaagctgc cgatgtggat
1381 ggaaatggag caatcgacta cattgagttt atctctgcta caatgcatag atatcgactg
1441 gaaagagatg agcatctata caaagcattt cagtactttg ataaggatag cagtgggtat
1501 ataacaagag atgaattaga gtctgcatg atggagtatg gtatgggaga tgaggccagt
1561 attaaggaaa taatttctga ggtggataca gataatgatg ggaaaatcaa ctatgaagaa
1621 ttctgcacta tgatgagacg tggagtacaa caaccaggaa agcttttcta g

Antibody name: WR-15

Protein name: ethylene-inducible protein, ETHI

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |1209317

Antibody tag sequence: GLGEAMVGINLNDKC

Protein sequence:

1 magtgvvavy gngaitetkk spfsvkvgl qmlrggvimd vvnpeqaria eeagacavma
61 lervpadira qggvarmsdp qlikeikqsv tipvmakari ghfveaqile aigidyvdes
121 evltpadeen hinkhnfrif fvcgcrnlge alrriregaa mirtkgeagt gnvieavrhv
181 rsvmgdirll nmdddevft fakkiaapyd lvmqtkqlgr lpvvqfaagg vatpadaalm
241 mqlgcdgvfv gsgvfksgdp arraraivqa vthysdpdml aevscglgea mvginlndkk
301 verfanrse

Gene sequence:

1 atggctggaa ctggggtggt ggcagttac ggcaacggag caatcaccga aacaaaaaag
61 tccccctttt ccgtgaaggt gggctagcc cagatgctaa gaggcgggtg tcatatggac
121 gtcgtaaate ccgagcaggc ccgcatagcc gaggaggctg gcgcttgctc tgcatggct
181 ttggagcgtg tgccagccga tatccgcgct caagtggeg tcgcgcgat gagcgaccct
241 cagcttatca aagaaattaa acagtccgtt accatccccg tcatggccaa ggcccgcac
301 ggccacttcg tggaggccca aattcttgaa gccataggca tcgattacgt cgacgagagc
361 gaagtgccta cccctgccga cgaagagaac cacatcaaca aacataattt ccgtatcccc
421 ttcgtttgcg gttgtaggaa ctaggcgag gcgcttcgaa ggatacgcga aggagccgcc
481 atgattagga ccaaaggtga agcaggaaca gggaaatgta tcgaagcggg taggcacgtg
541 aggtctgtga tgggtgatat taggctttg aggaatatgg acgacgatga ggtgttcact
601 ttcgccaaga agattgctgc gccgtacgat ttggttatgc agacgaagca gctagggagg
661 ctacctgtgg tgcagttcgc ggcgggaggg gtcgcgacgc cggcggatgc ggctttgatg
721 atgcagttgg gttgcgatgg ggtgtttgtg gggctctggg tgttcaagag cggggacccc
781 gcaaggaggg ccagagcaat tgtcaggcg gtgacgatt atagcgtacc cgacatgctc
841 gcggaggtga gttgcgttct cgggtaggct atggtgggta tcaatttaa cgacaagaag
901 gtggaaaggt tcgcaaacag gtcggaatag

Antibody name: WR-16

Protein name: ethylene receptor, ETHR

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |56900932

Antibody tag sequence: QQNPVGYTVPIQLPC

Protein sequence:

1 meacnciepq wpadellmky qyisdfial ayfsipleli yfvkksavfp yrwvvlvqfga
61 fivlgeathl inlwftmhs rtvaivmtta kvltavasca talmlvhiip dllsvktrel
121 ilknkaaeld remglirtqe etgrhvrmlt heirstldrh tilkttlvel gtrlaleeca
181 lwmptrsgle lqlsytrqq npvgytvp iq lpvinkvfsc nravkispnc pvarirpfag
241 kympgevvav rvpllhlsnf qindwpelst kryalmvlml psdsarqwha yelevelvevva
301 dqvavalsha aileesmrar dllmeqval dlarreaeta irarndflav mnhemrtpmh
361 aiaalssllq etgltpqrl mvetilkssn llatlindvl dlsrledgsl qldlgtfnlr
421 avfrevlnli kpiasvkkkp vtlnlapdlp eyaigdekrl mqtilnvvgv avkfskegni
481 sitafvarpe slrdlrpdf fpvpsddhfy lrvqvkdegl ginlqdkpl ftkfaqnqsl
541 atrnsggsgl glaickrfvn lmeghiwies eglgkgctai fvvklailec sneskhpfmq
601 ngpkpnqgak qtsfmgpess llmddtgyyq dgnkrftwgt lxcdxtvss sdeclrvvxl
661 dhkvvfmdivc mpdglellsa ymkdftrhe rplivalywn ankvtkenem kvgmdgvilk
721 pvsvdkmrgv lsdllehrvl feam

Gene sequence:

1 atggaggcat gcaattgat tgagccacaa tggccagcgg atgaattgt gatgaagtac
61 caatatatt cagatttct cattgctctt gcttattct ccattcctct agagctcatt
121 tttttgta agaaatcagc agttttct tatagatggg tgctggtgca gtttggtgct
181 ttatagttt tatgtggggc aacacatctt attaacttat ggacttttac catgcattca
241 cgaactgtg cttattgta gaccacagca aaagtttga ctgctgcagt tcatgcgca
301 accgccctta tgctgtaca cataattct gatctttga gtgttaaac tagagaacta
361 atttgaaaa acaaggctgc agagcttgat agagagatgg gcctgatccg tacacaggaa
421 gaaacaggcc ggcattgtag gatgctgact catgagatca ggagcacact tgatagacat
481 accatactaa agaccacact tttgaaactg ggaaggacat tggcattgga agagtgtgcc
541 ttatggatgc ccaccagtc tggattagag ctcaacttt cctacactct tcgtcagcag
601 aatcctggtg gatatactgt gcctatccag ctctctgta ttaataaagt atcagttgt
661 aaccgtgctg taaaaatc acctaactgt ccagtggcaa gaatacgtcc tttgcagga
721 aaatatatgc ctggagaggt ggttgctgtt egagtccac ttctcatct ctctaattc
781 caaattaatg attggcctga gctttctacc aaacgetatg cttgatggt tttgatgct
841 ccctcagata gtgcaaggca gtggcatgct tatgagttgg agcttgttga agtagttgct
901 gaccaggtgg ctgtgtct atcacatgct gctatcttag aagagtcaat gagggcaagg
961 gatctctta tggagcagaa tttgcaact gatcttgcga ggagagaagc agaaacagct

1021 atccgtgctc gcaatgattt cttagctgctc atgaaccatg agatgagaac tcccatgcat
1081 gcaattattg cactttcttc cttactgcaa gaaactggac tgacgcctga gcagcgctg
1141 atggttgaga caattcttaa gagtagtaac ctggtggcta cttaataaa tgatgtatta
1201 gaccttcaa ggcttgaaga tggcagtctt cagcttgacc tgggaacttt taatctacgt
1261 gctgtattca gggaggtcct taactgac aagcctattg catctgttaa aaagttgcct
1321 gttactttaa atttagctcc agatttgcca gaatatgcca ttggtgatga gaaacgtctt
1381 atgcaaacca ttttaaatgt tgttggaat gctgtgaagt tctctaaaga aggcaacac
1441 tcaataactg cttttgtgc tagaccagaa tcattaagag atcttcggtt tctgtattt
1501 ttcccagtgc caagtgatga tcactttat ttgcgtgtac aggtaaaaga tgagggacta
1561 ggtataaacc tccaagatat tctaagtgt ttactaat tgcacaaaa tcaatcattg
1621 gcaaccagaa attctggtgg cagtggactt ggccttgc aa tttgtaagag gtttgaat
1681 cttatggaag gacacatctg gatagagagt gaaggacttg gcaagggatg cactgctac
1741 tttgtgtaa aactgctat tcttgagtgc tcaaatgaat cgaagcatcc ttcatgcag
1801 aatgggcca agcacaatca aggggcaaaa caaactctt ttatggggcc tgaagtct
1861 ttgtaatgg atgatacggg gggtaccag gacgtaaca aaaggacttt tggggcact
1921 ttgnntgtg atngaccac tgtgactcc agcgtgagt gtttacgagt agttntctg
1981 gaccacaagg tggatttat ggatgtgtgc atgcctgatg gtttgagtt gctatccga
2041 tacatgaaag attcacaaa acgtcatgaa aggccattaa tagtggcgct ttactggaac
2101 gcaacaagg tgacaaagga aaactgatg aaggtcggca tggatggtgt aatactgaaa
2161 cctgtctctg ttgacaagat gaggggtgtt ttatcagatc ttctggagca tcgggttcta
2221 ttcgaggcca tgtaa

Antibody name: WR-17

Protein name: glutathione reductase, GLUR

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |186920319

Antibody tag sequence: CMKNTISGRQEKTVM

Protein sequence:

```
1 avfcipplsv vglseeqaie qakndilvft stfnmknti sgrqektvmk lvvdaetdkv
61 lgasmcgpda peiiqgiava lkcgatkaql dstvgihpst aeefctm
```

Gene sequence:

```
1 gcagtgttt gcataccacc tttgtctgta gtaggcctca gtgaagagca ggcaatagag
61 caagcaaaaa atgatatatt ggtttcact tcaacctca atcctatgaa gaatactatc
121 tctggacggc aagagaagac agtgatgaag cttgtgttg atgctgagac agataaagt
181 cttggagctt caatgtgtgg gcctgatgct cctgaaatta tacagggat tgctgttgca
241 ttgaagtgcg gagcaacaaa ggccaattg gacagcacgg tgggaatata cccttctact
301 gctgaggaat tctgtacat g
```

Antibody name: WR-23

Protein name: latex cyanogenic beta glucosidase, LACG

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |31580730

Antibody tag sequence: LDDKLRVRYFKGYLC

Protein sequence:

1 mmkekflkeh pyllekevsr sdfppnflfg vatsayqieg gcreggrgps iwdfashtkg
61 tildgsngdv avdhyhryke dieliaklgf dayrfslsws rifpdglgtk vneegiafyn
121 niinallekq iepyitlyhw dlphlqesm ggwnkeivk yfaiyadtcf asfgdrvkkw
181 itlneplqta vngfdtgila pgkhehsyte pflashhqil ahatavsivr smykdnqgqe
241 vglvvdcewa esnsdkiedk aaaakrlefq lgwylhplyy gdypevmrki lggglpkfse
301 edkellrnsd dfiglnhyss rfikhvtdsp aecyykaqe ierlakwedg epigeraase
361 wlyvrpwlgr kvlnyivqry nnpiiyvten gmddedssap lheml**ddklr vryfkgy**laa
421 vaqaikdgad vrgyfawsll dnfewaqqyt krfglyyvdy knglarhpks saywfmrflk
481 gdegkngke

Gene sequence:

1 atgatgaagg agaaattctt gaaggaacat ccatatttgc tggaaaagga ggtctctcgc
61 tctgatttcc ctctaattt tctctttggt gttgccactt ctgcctatca gattgaaggt
121 ggctgcaggg aaggtgtag aggtcctagt atatgggatg cttttcaca caccaaagga
181 actatcttg atggaagcaa tggatgatg gcagtgatc attatcatg atacaaggaa
241 gacattgaac tcatcgctaa gttggggtt gatgcttacc gatttcctt atcatggtct
301 cgcattttcc ctgatggtt ggaacacaaa gtcaatgaag aaggatagc attctataac
361 aatatcatta atgctcttct tgaagggt atagagccat atataactct gtaccattgg
421 gatctccct tgcatttca agagtcaat ggagggtg tgaataagga aattgtaaaa
481 tactttgcaa tctatgcaga cacttctt gcaagtttg gtgatagat taagaaatg
541 attactctaa atgagcctc ccaaacagca gtaaatggat ttgatactgg aatacttgc
601 cctggaac atgaacattc atatacagaa ccattttgg cttcacacca ccagatctg
661 gccatgcaa cagctgttc catataccgc agtatgtaca aagacaatca aggaggagaa
721 gtaggcttg tggggactg tgaatggct gaatctaatt cagataaaat tgaagataaa
781 gctgctgct caaacggct tgagttcag cttggatggt atttgcatcc tttatattat
841 ggagactatc ctgaagtat gcgtaaaata ctgggaggtg ggctcccaaa attctcagag
901 gaagataagg aattacttag gaactcact gactcattg gtctaaatca ctattctca
961 agattcatca agcatgtac agatagccct gcagaatgct attactataa agccaagaa
1021 atgagagac ttgctaatg ggaagatggt gagccaatc gcgagagggc agcatcagaa
1081 tggctctat tctgctctg gggactcgg aagttctca attacatag cagagatac
1141 aataatccca taattactg tactgagaat ggtatggatg atgaagactc cagtcccct
1201 ctccatgaaa tgctagatg caaactgaga gttcgtatt ttaaaggata ccttctgca

1261 gttgctcagg caatcaaaga cggagcagat gtgaggggat atttgcatg gtcattgtg
1321 gacaatttg aatgggctca aggtatacc aagcgtttg gttgatcta tgtggattac
1381 aagaatggac ttgctcgcca ccaaagtct tctgcttatt ggatcatgag gttcttga
1441 ggtgatgaag ggaaaaatgg caaagagtga

Antibody name: WR-25

Protein name: beta-cyanoalanine synthase, CYAS

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |326909405

Antibody tag sequence: CQRIRDLPKNLPGTK

Protein sequence:

```
1 matlrnllkk ksltsnelai rrvsseaas espsfaqrir dlpknlpgtk iktevsqlig
61 rtplvylnkm segcgaylav kqemmqtas ikdrpafsmi ndaekknlit pgktvliept
121 sngmgismaf maamkgykmv ltmpsytsle rrvtmkafga elivtdptkg mggtvkkayd
181 llestpnafm lqqfsnpans kihfettgpe iwedtlghvd ifvmgigsgg tvsgvgqylk
241sqnqnvkiyg vepaesnvl n ggkpgphqim gngvgfkpdi lmdvmekvl evssedavkm
301 arrlaleegl mvgissgant vaarlarp enkgklivtv hpsfgeryls svlfeelrye
361 aanmqvpvvd
```

Gene sequence:

```
1 atggctactc ttaggaactt gttgaagaaa aaatctttaa cgtccaacga gcttgctata
61 aggaggttcg tctctccga ggctgctgct gaatctcett ctttgctca aagaatcagg
121 gatcgccca agaattccc tggactaaa atcaagactg aagtttctca acttattggg
181 agaactcccc ttgtttatct taacaaaatg agtgaaggat gtggagctta catagccgct
241 aagcaagaga tgatgcaacc aactgccagc atcaaaagaca ggccggcgtt tcaatgatc
301 aatgatgcag aaaagaagaa ttaatcact cccgggaaga cggcttctgat agagccaaca
361 tctggaata tggggattag tatggctttt atggcagcca tgaaaggata caagatggtt
421 ctaacctgc cctcttacac aagctggag agaagggtga ctatgaaggc atttgagct
481 gagctaattg tctctgatcc caccaagggg atgggtggaa cagttaagaa ggcctatgat
541 cttttggaat ccacacaaa tgcttctatg ctacaacaat ttcaaatcc tgcaaatct
601 aagatccatt tgaaacgac aggtcctgaa atttgggagg atacactgg tcatgttgac
661 atctttgtaa tgggaatagg cagtggagga acagtctctg gcgttgggca gtacctaaa
721 tctcaaaatc ctaatgtaa gatatatggg gtggagcctg ctgaaagtaa tgtgctcaac
781 ggtgtaaac caggtcctca tcaaatatg ggtaacggag ttggatttaa accagacata
841 ttgacatgg atgtaatgga aaaggttctt gaggtagca gtgaagatgc agtaaaaatg
901 gctaggagat tggcattgga ggaggggctt atggtgggaa tatcatctgg agccaacaca
961 gttgctgcac ttagacttgc tagaatgcca gagaacaag gaaaactcat cgtgactgtt
1021 catccaagt tcggggagcg atactgtca tctgtcctgt ttgaagaact gagatatgag
1081 gctgcaaca tgcaaccagt tccagttgac taa
```

Antibody name: WR-28

Protein name: ascorbate peroxidase, ACPX

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |27449248

Antibody tag sequence: HPGREDKPEPPPEC

Protein sequence:

```
1 mtknypkvse eyqkaidkak rklrgfiaek gcaplmlria whsagtydan tktggpfgtm
61 rhaaeqahaa nngldiavrl lepikqqfpi lsyadfyqla gvvaveitgg peipfhpgr
121 dkpepppegr lpnatkadh lrevfgktmg lsdkdivvls gghtlgrchk ersgfdgpwt
181 anplifdnsf ftellagqke gllqlptdtv lvt dpvfrpy vekyaadedda ffadyaeahv
241 klseigfaea
```

Gene sequence:

```
1 atgacgaaga actacccaaa agttagttaa gaggaccaga aggccattga taaggccaag
61 aggaagctca ggggtttcat cgctgagaag ggctgtgctc ctctcatgct ccgtatcga
121 tggcactcag ctggaactta cgacgcgaac accaagactg gaggtccatt tggaaacctg
181 aggcacgcag cggagcaggc ccatgctgct aacaatgggc tggatattgc tgcagactc
241 cttgagccca tcaagcagca gttccctatc ctctctatg ctgacttcta tcagcttct
301 ggtgtgttg ccgttgagat cactgggtgg cctgagatcc cattccacc tggcagagag
361 gacaagctg aaccacctc agaaggtcgt ctgcctaatg ctactaaagg tgctgatcac
421 ttgagggagg tctttggcaa aacctgggt ctcagtaca aggatcctg ttttctctc
481 ggtggccaca cctgggaag gtccacaag gagcgtctg gttttgacgg gcctggact
541 gtaaccac tcattttga caattcttc ttcacggagc tcttgctgg acagaaggaa
601 ggcctctac aattgccaac tgacaccgtt cttgtaccg atcctgtct cgcccatat
661 gttgaaaaat atgctgctga tgaagatca ttcttgctg attatgctga ggccatgtg
721 aagctctccg agctggggtt tgctgaggct taa
```

Antibody name: WR-29

Protein name: heat-shock protein 70, HSP70

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |186898205

Antibody tag sequence: EKYKAEDDEEVKKKC

Protein sequence:

1 mapktegai gidlgttysc vgvwqndrve iilandqgnrt tpsyvaftdt erligdaakn
61 qvamnpqntv fdakrligrr fsdpsvqsdm khwpfkvisg pgdkpmivvq ykgeekqfap
121 eeissmvltk mkeiaeylg qtvknavitv payfndsqrq atkdagaiag vnmriinep
181 taaaiaygld kkgstgekn vlifdlgggt fdvslltiee gifevkatag dthlggedfd
241 nrlvnhfvae fkgkhkkdis tnaralrrlr tarerakrtl sstsqtiee dslyegidfy
301 atitrarfee lnmdlfrkcm epvekclrds kidksqvhdv vlvggstrip kvqllqdif
361 ngkelcksin pdeavaygaa vqaailsgeg dekvqdllll dtvplslgie taggvmtvli
421 prnttiptkk eqifstysdn qpgvliqvyve gerartkdnn llgkfeltgi ppaprgvpqi
481 nvcfdidang ivnvsaedkt agvknkitit ndkgrlskee iermvqeaek ykaedeevkk
541 kveaknslen yaynmrntvk ddkfagklap adkgkiekai detiewldrn qlaeveefed
601 kkleleglcn piiakmyqgg aggdvpvpga empnsnygkt ssggsgagpk ievd

Gene sequence:

1 atggcgccaa aaactgaagg caaggccatt ggtatcgatc ttggcaccac ctacagctgc
61 gtgggtgtgt ggcagaacga cggggtgag atcatagcca atgacaggg caacagaact
121 actcctctt atgttgcctt cactgacacc gagegtctca ttggggatgc agctaagaac
181 caagttgcta tgaacctca aaactgtc tttgatgcca aactctcat tggtagcgcg
241 tttctgatc cttctgtgca gagcgacatg aagcactggc cttcaaggt tattctggt
301 cctggtgata agcctatgat tgtggtgcaa tacaagggtg aagaaaagca atttgcgct
361 gaggagattt cttctatggt gctaaccaag atgaaggaga ttgcagaggc ttatctgggt
421 cagacagtga agaatgccgt gatcacagtg cctgcttatt tcaatgactc gcaaaggcag
481 gccaccaagg atgctggtgc tattgcaggg gtgaactca tgagaattat caatgagcct
541 acagctgcag ccattgctta cggtttggac aagaaaggtt cgagtactgg agaaaagaac
601 gtgttgattt tcgatcttg tggagggaca tttgatgtt ctctctgac gatcgaggag
661 ggtatatttg aagtgaaggc aacagctgga gacaccacc ttggaggaga ggacttcgat
721 aataggcttg tcaaccattt cgtgcagag ttcaagggga agcacaagaa ggatattagt
781 actaatgca gagccttgag aaggttgaga accgcccgcg agagggcaa gaggactctg
841 tcttcaacct cgcaacaac cattgagatt gattctctct acgaagggat tgattctat
901 gcgaccatca ctagagcaag atttgaagag ctgaacatgg atttgttag aaagtgcag
961 gaaccctgag agaatgtct tctgactcc aagatcgata agagtcaagt tcatgacgtt
1021 gtgctcgttg gtgggtcaac aagaattcct aaagttcagc aactttgca agatatctc
1081 aacggaaagg agctctgcaa gagcataaac cccgacgagg ctgtcgtta tggagcagct

1141 gtccaagctg caattcttag tgggaaggg gatgagaaag ttcaagattt acttctcttg
1201 gatgttactc ctctcagcct cggaattgag actgctggg gtgtaatgac agtcttgatt
1261 ccaaggaaca ccactatcc taccaaaaa gagcaaatct tctctacata ctctgataat
1321 caaccaggag tgcttattca ggtgtatgaa ggtgaaagag ctagaaccaa ggataataat
1381 cttcttgaa aattcgagct caccggaatc cctctgcac ccagagcgt tcctcagatt
1441 aatgtgtgtt tcgacattga cgccaatggt attgtgaatg tctctgctga ggataagact
1501 gctggagtga agaacaagat aacaatcact aacgataaag gaagattgag caaggaagag
1561 attgaaagaa tgggcaaga agcagagaag tacaaagcag aggatgagga ggtgaagaag
1621 aaggtggagg ccaagaactc ttggagaac tacgcataca acatgagaaa tacagtgaag
1681 gatgacaagt tcgccgaaa attggctcca gccgacaagg ggaagattga aaaggcaatt
1741 gatgagacta ttgagtgggt ggacagaaac caattagcag aggtggagga gttgaggac
1801 aagtgaagg agcttgagg cttgtgcaat ccaattattg caaagatgta tcagggcggg
1861 gctgggggtg acgtaccagt gggggcgc gaaatgccga acagcaacta tggcaagact
1921 agctccggcg gttctggtgc cgggccaag atcgaagaag ttgattaa

Antibody name: WR-30

Protein name: aquaporin

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |307826678

Antibody tag sequence: CQSQDDKDYTEPPA

Protein sequence:

1 megkeedvrl gankyretqp igtsaqsqdd kdyteppaap lfeptelstsw sfyragiaef
61 iatflflyis vltvmgvvka ptkestvqiq giawsfggmi falvyctagi sgghinpavt
121 fglflarkls ltralyymvm qclgaicgag vvkgefgrhq ytlgggans vnpgytkgdg
181 lgaeivgtfv lvytvfsatd akrnardshv pilapligf avflvhlati pitgtginpa
241 rslgaaiifn kdkgwddhwi fwvvpfigaa laalyhqvvi raipfkk

Gene sequence:

1 atggagggca aggaagaaga tgtagattg ggagctaaca aatatagga gacgcagccc
61 atgtgactg cagctcagag ccaagatgac aaggactaca ctgaaccacc agcagcggc
121 ctgttcgagc caacggagct cactcttgg tcctttaca gggctggtat tgcagagttc
181 atagccactt tctgttctt atacatctet gtttgactg tcatgggtgt agttaaggca
241 cccaccaagt gtcgactgt tgggattcag gggatagctt ggtccttgg tggcatgatc
301 ttgctcttg tctattgtac tgctggcatt tcaggaggtc acataaacc ggcggtgacg
361 tttgggctgt tttggcaag gaaactgtcc ttgacaagg cttgtacta catggtgatg
421 cagtgccttg gagccatag tggctgctgt gtagtgaaag gattgaagg gcgtcaccag
481 tatactttgt tgggtggtgg tgccaatagt gtgaaccag gttacacaa aggtgatggg
541 cttggtgctg aaattgttg cacctttgtt cttgtctaca ctgtctctc tgctactgat
601 gccaaacgta atgccagaga ctccatgtt cctatttgg cacctttgcc aattgggttc
661 gctgtgttct tggcgactt ggtaccatc ccaattacag gaactggtat caaccagct
721 cgtagcttg gtgcagcaat catctcaac aaggacaagg gctgggatga tcaactggatt
781 ttctgggtgg gtccattcat tggagcagca cttgcagctc tataccacca agttgtgatc
841 agagccatcc cttcaagaa gtga

Antibody name: WR-31

Protein name: Geranylgeranyl diphosphate synthase, GGDS

Plant species: *Hevea brasiliensis*

NCBI Accession No.: gi |14325238

Antibody tag sequence: QEQLAGFDPEKAAPC

Protein sequence:

1 mssvnlgsww htsyvlnqat rsrskskfs lpfnpkls la isfayrkser pissvsait
61 keeetlqeeq npppsfdk symlqkgnsi nqaleaipl qepakihesm rysllaggkr
121 vrpalclaac elvggndsm mpaacavemi htmslihddl pcmdnddlrr gkptnhivfg
181 edvavlagda llafafehia vstlnvssar ivravgelak aigaeglvag qvvdinsegs
241 sevdleklef ihihktakll egavvlgail gggtdееevеk lrkyardigl lfqvddild
301 vtkssqelgk tagkdlvadk vtypkllgie ksrefaekln keaqeqlagf dpekaaplia
361 lanyiahrqn

Gene sequence:

1 atgagttcag tgaatttggg ctcatgggtt cacacctct acgtcttaa ccaagctacc
61 agatccagat ccaaatccaa atcctctct ctaccttca atcctctaa aagtttagca
121 atttcctttg cttatagaaa atcagagcga cccatttcat ctgtctctgc gattattacc
181 aaggaagaag aaactctca agaagagcag aataatccac caccctctt tgattcaaa
241 tctacatgc tcaaaaagg caattccatt aaccaagctt tagaagctgc cattccactc
301 caagaaccg ctaaaatca cgagtctatg cgttattccc tctggccgg cggcaagagg
361 gtacgaccgg cctctgctc cgctgcgtgt gagcttggtg gtgggaatga ctccatggcg
421 atgcctgctg catgcgctgt ggaatgatt catactatgt ctctatcca tgatgacctc
481 ccttgcatgg ataacgacga tctccgctg ggcaagccca ccaatcacat cgtgtttgga
541 gaggacgtgg cggctctgc cggtgacga ctctagcat ttgctttga acacatcgt
601 gtttctactt taaatgttc ttctgctaga attgtccggg cagttgggga attagcgaag
661 gcgatcgggg cagaagggtt agttgctggc caagtagttg atataaattc tgagggtca
721 tctgaggttg atttagagaa gcttgaattt atccatcc acaagaccgc taagttgtg
781 gagggggctg tggctgtagg ggctatattg ggcggaggaa ccgatgagga agtggagaaa
841 ttgaggaat atgctagga tattgggtg ttgtccaag ttgtgacga tattcttgat
901 gtgactaat catccaaga attggggaaa actgcaggca aggacttggg ggcggacaag
961 gttacatc ccaagcttt ggggattgag aagtcaggg aatttcaga gaagctgaat
1021 aaggaagctc aggagcagct ggctggattt gatcctgaaa aggcagctcc attgattgct
1081 ttgctaatt acatcgctca caggcaaac taa

Supplementary Figure S7: Primers used for RT-PCR

Protein name: 14-3-3 protein

Spot No.: I-27

Accession No.: tr|F2YZ43|F2YZ43_HEVBR

Primer sequences:

Primer-up: CGTGGATGTTGAGGAGCTAACTG

Primer-down: CAGAAGTCCAGAGTGTCAGATTGTC

Protein name: (ACAT) Acetyl-CoA C-acetyltransferase

Spot No.: I-13

Accession No.: tr|A9ZMZ4|A9ZMZ4_HEVBR

Primer sequences:

Primer-up: GGTTGGATGCTTCTCAAGTTGATTAC

Primer-down: CAAGAGTTCGCCCCATCGTG

Protein name: (ACPX) Ascorbate peroxidase

Spot No.: I-228

Accession No.: tr|Q8GZP1|Q8GZP1_HEVBR

Primer sequences:

Primer-up: GGCTGGATATTGCTGTCAGACTC

Primer-down: CGGAAGACAGGATCGGTAACAAG

Protein name: (ADPF) actin-depolymerizing factor

Spot No.: S-170

Accession No.: gi|298362843

Primer sequences:

Primer-up: TGCGGCTACTGTATCCAAACC

Primer-down: CTGCTTCACCATCCCACAAAC

Protein name: (ABAS) Abscisic acid stress ripening-related protein 1

Spot No.: I-160

Accession No.: tr|Q6XNP8|Q6XNP8_HEVBR

Primer sequences:

Primer-up: GGCACAAGATAAAAGAGGAGGTAGC

Primer-down: GCGTATGGAGTTAAAAGGGATGG

Protein name: (ATPS) ATP synthase subunit beta

Spot No.: I-188

Accession No.: sp|P29685|ATPBM_HEVBR

Primer sequences:

Primer-up: GTTGGTCTAACTGGGCTAACTGTGG

Primer-down: TCTTGGTGGTTGTAATACGCTCTTG

Protein name: (CIAD)Cinnamyl alcohol dehydrogenase

Spot No.: I-254

Accession No.: tr|E9M774|E9M774_HEVBR

Primer sequences:

Primer-up: TGGTCCTATAATGATGTCTACACCGAT

Primer-down: CTTGTTCAACCCAAAGTGGCTAAG

Protein name: (CIBP)Citrate-binding protein

Spot No.: S-145

Accession No.: sp|Q39962|CBPR_HEVBR

Primer sequences:

Primer-up: GATCCAACCTGATGGGTTCCTGAG

Primer-down: GCTTGATGTTTTTCCACCTTGATTC

Protein name: Copper transport protein ATOX1

Spot No.: I-578

Accession No.: tr|D4P094|D4P094_HEVBR

Primer sequences:

Primer-up: GAAAGGAAACGTGCAGCCAGAG

Primer-down: ACCGAGTGTCGTATAAGGGTGCT

Protein name: chitinase

Spot No.: D-72

Accession No.: gi|3451147

Primer sequences:

Primer-up: GCAACGAAGGAACTCTAACACAAAC

Primer-down: GAATCCGAGAAATCAGCACATCC

Protein name: caffeic acid 3-O-methyltransferase

Spot No.: D-125

Accession No.: gi|380468126

Primer sequences:

Primer-up: AGTTGATGTGGGCGGTAATAGTG

Primer-down: TGTCGGGTCCTCTCTTTTCCTC

Protein name: Cysteine protease

Spot No.: I-252

Accession No.: tr|Q155L4|Q155L4_HEVBR

Primer sequences:

Primer-up: CTTGTTCTTCGCTTCCACCTTGT

Primer-down: GGTCCGATTCTCCGAGTTATGCT

Protein name: Cis-prenyl transferase

Spot No.: I-351

Accession No.: tr|A9ZN23|A9ZN23_HEVBR

Primer sequences:

Primer-up: GGTCCCATCCCTACTCATCTTGC

Primer-down: CTCATACTCTGATCTGCTGCGGTC

Protein name: Cis-prenyl transferase OS=Hevea brasiliensis

Spot No.: I-1585

Accession No.: tr|Q8W3U4|Q8W3U4_HEVBR

Primer sequences:

Primer-up: GGAGGTGGTCATAAGGCTGGAT

Primer-down: TCTGCTGCGGTCTTGAGTGG

Protein name: Cu/Zn superoxide dismutase

Spot No.: D-17

Accession No.: gi|27449246

Primer sequences:

Primer-up: GTTATTACCAGCAGTGAGGGCATTAG

Primer-down: GACCTTCGTGAAAAACAACCTGACC

Protein name: eukaryotic translation initiation factor 5A

Spot No.: S-91

Accession No.: gi|33325129

Primer sequences:

Primer-up: CGCAAGAATGGTTACATCGTC

Primer-down: TCCCTTCCACTCAATAGCAATC

Protein name: Eukaryotic translation initiation factor

Spot No.: I-98

Accession No.: tr|B9SJV6|B9SJV6_RICCO

Primer sequences:

Primer-up: CGCAAGAATGGTTACATCGTC

Primer-down: TCCCTTCCACTCAATAGCAATC

Protein name: Eukaryotic translation initiation factor 1Aa

Spot No.: I-673

Accession No.: tr|F8RW94|F8RW94_HEVBR

Primer sequences:

Primer-up: AAGGGAAAGGGAGGTAAGAATAGGA

Primer-down: GATAGTCACGCAGCCCAACAAGT

Protein name: eukaryotic translation elongation factor

Spot No.: D-8

Accession No.: gi|255565836

Primer sequences:

Primer-up: TGCCACGGCTCAGAAGTATCG

Primer-down: GCAACCTTACATTGAACAGCCAC

Protein name: Enolase 1

Spot No.: D-6

Accession No.: gi|14423688

Primer sequences:

Primer-up: CGTTGCTAACCTCGCTGGTAAC

Primer-down: GCATAGTGCTCCCAGTCATCTTG

Protein name: Esterase

Spot No.: D-95

Accession No.: gi|51315784

Primer sequences:

Primer-up: GATTTTATCGCCGAGAGTTTCAATC

Primer-down: ACCGTCGTCTGCTGTAAGTGTATCT

Protein name: Elicitor-responsive protein

Spot No.: I-30

Accession No.: tr|F8SKC5|F8SKC5_HEVBR

Primer sequences:

Primer-up: AATGCCTCTAGGAACTGTTGAAGTC

Primer-down: ACCGAAAATCGTATCCATCCAC

Protein name: Farnesyl diphosphate synthase

Spot No.: I-133

Accession No.: tr|Q8L7F4|Q8L7F4_HEVBR

Primer sequences:

Primer-up: ATGGGTTGAGCGGATGTTGG

Primer-down: CTGGGAATGTGATTGCGAAGC

Protein name: Gamma-glutamylcysteine synthetase

Spot No.: I-1621

Accession No.: tr|D5LYI6|D5LYI6_HEVBR

Primer sequences:

Primer-up: TGCCAGCATT TGGGTAGGAT

Primer-down: GTTCTAACCACCTCAGCCACTCA

Protein name: Beta-1,3-glucanase

Spot No.: I-2

Accession No.: tr|D1M8S7|D1M8S7_HEVBR

Primer sequences:

Primer-up: ATCTCCAAAGCCTTACCAATCC

Primer-down: TGGTGAAGTGAACAAAGCATAGG

Protein name: Glutaredoxin

Spot No.: I-264

Accession No.: tr|B3FNP8|B3FNP8_HEVBR

Primer sequences:

Primer-up: TGGATACTGAGGGCGATGGAA

Primer-down: CTTTAAAGCAGAAGCCTTAGCAAGAG

Protein name: Glyoxylase I

Spot No.: I-812

Accession No.: tr|E9KK00|E9KK00_HEVBR

Primer sequences:

Primer-up: CTCCAAGTGACCCAGTTGAAAGA

Primer-down: GAAATACCAATATGTCCAAAGCCAC

Protein name: (GLUS) glutamine synthetase

Spot No.: S-56

Accession No.: gi|2213877

Primer sequences:

Primer-up: TGGTACGGCATTGAGCAAGAATAC

Primer-down: AGCAACGCCCCATAAGAAAGTG

Protein name: (GSTF) glutathione-S-transferase tau 1

Spot No.: D-53

Accession No.: gi|333690873

Primer sequences:

Primer-up: ATGGACTACAAAGGGAGATGAGCA

Primer-down: GCACCTCTTAGCCCAAGCAATC

Protein name: Pro-hevein

Spot No.: I-817

Accession No.: sp|P02877|HEVE_HEVBR

Primer sequences:

Primer-up: CTATGTTGTAGCCAGTATGGGTGG

Primer-down: GTAGTTCACTGTAAGATGACCTCGTTC

Protein name: Hevein

Spot No.: I-1357

Accession No.: tr|Q7M1L9|Q7M1L9_HEVBR

Primer sequences:

Primer-up: CTATGTTGTAGCCAGTATGGGTGG

Primer-down: GTAGTTCACTGTAAGATGACCTCGTTC

Protein name: Hevamine

Spot No.: D-93

Accession No.: gi|157831407

Primer sequences:

Primer-up: CATAGAGCATGGTTCAACCCTGTAC

Primer-down: GACCAAAGCATAACACCTCCGTAC

Protein name: (Hev b5) Major latex allergen Hev b 5

Spot No.: I-5

Accession No.: sp|Q39967|ALL5_HEVBR

Primer sequences:

Primer-up: CAAGAAACCGCCGATGCTACA

Primer-down: CGGAACTTCTGTGGTGGCTGTC

Protein name: (HMGR) Hydroxymethylglutaryl coenzyme A reductase

Spot No.: I-119

Accession No.: tr|Q547W6|Q547W6_HEVBR

Primer sequences:

Primer-up: TCCGTCGTGGATGGGAAGAT

Primer-down: TGGTCGCCATTGGAACAGAGT

Protein name: (HMGS) Hydroxymethylglutaryl coenzyme A synthase

Spot No.: I-22

Accession No.: tr|Q944F8|Q944F8_HEVBR

Primer sequences:

Primer-up: CAGTGCGGTCTATGCAGAGGGT

Primer-down: GCAAGAATCAAGAGCCATGAGGT

Protein name: (HMGS-2) HMG-CoA synthase 2

Spot No.: I-1434

Accession No.: tr|Q6QLW8|Q6QLW8_HEVBR

Primer sequences:

Primer-up: TGATCCTAACCAAATCGGTCGTC

Primer-down: GCGTCCATCCCATGAATTACTCT

Protein name: Heat shock protein

Spot No.: I-11

Accession No.: tr|Q71EE1|Q71EE1_HEVBR

Primer sequences:

Primer-up: GGAGAATATGGCTGGACTGCTAAC

Primer-down: CGTCAATGCTCAGACCCAGTTTC

Protein name: latex protein allergen Hev b 7

Spot No.: D-76

Accession No.: gi|6707018

Primer sequences:

Primer-up: TTCTTCTCCCAGTCATCTTCTCATC

Primer-down: CTTTCAAGCCTGCCAGTATCC

Protein name: (LAP1) latex abundant protein 1

Spot No.: D-111

Accession No.: gi|37901124

Primer sequences:

Primer-up: ACTATGATTATCCCGACTTCACCTG

Primer-down: TCACATAGATTGCACAACGGAAC

Protein name: (LAC) latex cystatin

Spot No.: D-102

Accession No.: gi|268321205

Primer sequences:

Primer-up: GGCAAAACTAGGAGGTGTTAAGGAAG

Primer-down: GCTGTAGAGTCTGAAGGGGCATC

Protein name: (MEVD) Mevalonate disphosphate decarboxylase

Spot No.: I-18

Accession No.: tr|Q944G0|Q944G0_HEVBR

Primer sequences:

Primer-up: CACCACAGGAATGCGTGAGACT

Primer-down: CGTTCATGTAGAAAATTGGAGGACA

Protein name: (MEVK) Mevalonate kinase

Spot No.: I-1957

Accession No.: tr|Q944G2|Q944G2_HEVBR

Primer sequences:

Primer-up: TCTGATCTTCCACTGGGTTTCAGG

Primer-down: CTTGATGCGAGTCAGATTACCAGAC

Protein name: MYC2

Spot No.: I-159

Accession No.: tr|D2CRK4|D2CRK4_HEVBR

Primer sequences:

Primer-up: AAGAGGAAGAACCCAACTGAACG

Primer-down: ATCGGTGCTCTGATTGTCGGT

Protein name: (NUDK) nucleoside diphosphate kinase 1

Spot No.: S-93

Accession No.: gi|312985291

Primer sequences:

Primer-up: CTAATCACTGTGGAGCGCTTG

Primer-down: CGGGTGAAGGCTGCTTGA

Protein name: Invertase 2

Spot No.: I-50

Accession No.: tr|E9KF95|E9KF95_HEVBR

Primer sequences:

Primer-up: CACCAGAGGCGGTCTTGATTACT

Primer-down: TCAGAAAAGCCAGGGCACTAGG

Protein name: (PDBP) Pyridoxal biosynthesis protein PDX1

Spot No.: I-150

Accession No.: sp|Q39963|PDX1_HEVBR

Primer sequences:

Primer-up: AGTCCGTTACCATCCCCGTCA

Primer-down: CATTCCCTGTTCTGCTTCACC

Protein name: (PHOT)Phosphoglyceride transfer family protein

Spot No.: I-175

Accession No.: tr|Q6J6I5|Q6J6I5_HEVBR

Primer sequences:

Primer-up: GATTTGATGAGAAGCCAACCCAC

Primer-down: CATATTAGCCTGGTTGCTTTAATCG

Protein name: (PROI) Protease inhibitor protein

Spot No.: I-366

Accession No.: tr|B3FNP9|B3FNP9_HEVBR

Primer sequences:

Primer-up: TCGGGACAAACGGGGACAT

Primer-down: GGTAATAAATTCGTTGTTTAGCCAATG

Protein name: (PPCI) Peptidyl-prolyl cis-trans isomerase

Spot No.: I-33

Accession No.: tr|B3FNQ1|B3FNQ1_HEVBR

Primer sequences:

Primer-up: GCGGATACAACGCCACGAAC

Primer-down: CCCTCCACAACCTCTACCAAACACC

Protein name: Profilin-1

Spot No.: I-567

Accession No.: sp|O65812|PROF1_HEVBR

Primer sequences:

Primer-up: CTGCCATTATGAGTGACTTTGACG

Primer-down: TGTCTTCCTAACAGTAACACCACCAG

Protein name: prohevein

Spot No.: D-10

Accession No.: gi|2832430

Primer sequences:

Primer-up: GAAGGTGTTGGTGGTGGGAAGTG

Primer-down: TGATGATTCATAACGGAGAATAGAGG

Protein name: Pseudo-hevein

Spot No.: D-140

Accession No.: tr|Q6KF83|Q6KF83_HEVBR

Primer sequences:

Primer-up: GATGGGATTTGAACGCTGTAAGTG

Primer-down: TGGAGAATAGAGGGTTGAAGGAATC

Protein name: Rab4

Spot No.: I-227

Accession No.: tr|F2VXU6|F2VXU6_HEVBR

Primer sequences:

Primer-up: CTCCTCTTGCCTGTTGCCTCT

Primer-down: GCAGCTTAATTGTCTTGCCATCC

Protein name: (REF-1) rubber elongation factor

Spot No.: D-85

Accession No.: gi|38122474

Primer sequences:

Primer-up: CAAGGACAAGTCTGGTCCATTC

Primer-down: TATGAACATCCAAAACACACGAC

Protein name: Rubber elongation factor

Spot No.: D-139

Accession No.: gi|132270

Primer sequences:

Primer-up: CAAAGACAAATCTGGTCCACTG

Primer-down: AAACATAGTCTCAACACTCAGGATG

Protein name: (SRPP-1) small rubber particle protein

Spot No.: D-99

Accession No.: gi|29170601

Primer sequences:

Primer-up: CCGTTGAAGCCTGGGGTC

Primer-down: CCACATCCAAAACACACCACC

Protein name: Small rubber particle protein

Spot No.: I-66

Accession No.: tr|Q84T87|Q84T87_HEVBR

Primer sequences:

Primer-up: CGTGTTCCGCCAGTTGTCAAG

Primer-down: GTAGGCACCAAAGGCAAATAAGAG

Protein name: (SRPP-3) Small rubber particle protein

Spot No.: D-52

Accession No.: gi|14423933

Primer sequences:

Primer-up: TGAAGAGGTGGAGGAAGAGAGG

Primer-down: CCACATCCAAAACACACCACC

Protein name: (TMAP) Translation machinery-associated protein

Spot No.: I-643

Accession No.: tr|D9IZZ6|D9IZZ6_HEVBR

Primer sequences:

Primer-up: AGCAAGGTGGAAAAGCAAAGC

Primer-down: CTTGAGCCCAGAACCTCCGA

Protein name: Ubiquitin-protein ligase 2a

Spot No.: I-943

Accession No.: tr|F8RWT0|F8RWT0_HEVBR

Primer sequences:

Primer-up: AGACTGATGAGGGATTTTAGGAGGT

Primer-down: TGA CTGGATTGATGTGAGTATGGC

Protein name: (VHA-F) V-type proton ATPase subunit F

Spot No.: I-687

Accession No.: tr|B8Y6I1|B8Y6I1_HEVBR

Primer sequences:

Primer-up: TGCTGATGAGGACTCAGTAGTTGGA

Primer-down: CCTGTGCAGGATCATAAGGATGG

Protein name: (50KP) 50 kDa protein; major latex allergen Hev b 4

Spot No.: D-2

Accession No.: gi|37719658

Primer sequences:

Primer-up: GGAAGATTTTCTGATGGTCGCAC

Primer-down: CACGATATGTCGAATTGCCACAG

Protein name: (VHAE) V-type proton ATPase subunit E

Spot No.: D-58

Accession No.: gi|356528948

Primer sequences:

Primer-up: ATGGTCAGATTCATCCGTCAGG

Primer-down: TGTGGTTAATGCCATGAAAGAGG

Protein name: calmodulin

Spot No.: D-105

Accession No.: gi|354318

Primer sequences:

Primer-up: TCACTGGGACAGAATCCTACCG

Primer-down: CTTCTCGCCAAGGTTTGTTCATC

Protein name: (CDCP) cell division cycle protein

Spot No.: D-130

Accession No.: gi|351727028

Primer sequences:

Primer-up: GGTGGTGTAGAAAACAGATGGC

Primer-down: CCAATGACAATAACATGAGCACG

The abbreviations for the proteins were:

ATPS, ATP synthase subunit beta; ACAT, Acetyl-CoA C-acetyltransferase;

REF, rubber elongation factor; SRPP, small rubber particle protein;

VHAF, V-type proton ATPase subunit; ACPX, Ascorbate peroxidase;

GGCS, Gamma-glutamylcysteine synthetase; VHAE, V-type proton

ATPase subunit E; GLUS, glutamine synthetase; GSTF,

glutathione-S-transferase;HSP70, heat shock protein 70; PDBP, Pyridoxal

biosynthesis protein; CAMT, caffeic acid

3-O-methyltransferase;CYSP,Cysteine protease; CIPT, Cis-prenyl

transferase; ETIF, eukaryotic translation initiation factor; ETEF, eukaryotic translation elongation factor; ELRP, Elicitor-responsive protein; LAC, latex cystatin; TMAP, Translation machinery-associated protein; COPT, Copper transport protein; 50KP, 50 kDa protein; Gluc, beta-1,3-glucanase; CDCP, cell division cycle protein; ABAS, Abscisic acid stress ripening-related protein; ADPF, actin-depolymerizing factor; PROI, Protease inhibitor protein; HMGR, Hydroxymethylglutaryl coenzyme A reductase; HMGS, Hydroxymethylglutaryl coenzyme A synthase; PPCI, Peptidyl-prolyl cis-trans isomerase; MEVD, Mevalonate disphosphate decarboxylase; MEVK, Mevalonate kinase; ProH, prohevein; PseuH, Pseudo-hevein; FADS, Farnesyl diphosphate synthase; GLUD, Glutaredoxin; LAP, latex abundant protein; CIAD, Cinnamyl alcohol dehydrogenase; CIBP, Citrate-binding protein; SOD, Superoxide dismutase; NUDK, nucleoside diphosphate kinase; PHOT, Phosphoglyceride transfer family protei; SUCT, sucrose transporter; PHOK, phosphomevalonate kinase; HYDL, hydroxynitrile lyase; CDPK, calcium-dependent protein kinase; ETHI, ethylene-inducible protein; GLUR, glutathione reductase; LACG, latex cyanogenic beta glucosidase; CYAS, beta-cyanoalanine synthase; GGDS, geranylgeranyl diphosphate synthase.

Supplementary Table S1 MS identification of high abundant rubber latex proteins 2-DE gels

Spot No.^a	Vol%^b	Exper.^c pI/Mr	Thero.^d pI/Mr	M.S.^e Score	NCBI No.^f	Plant species	Protein name
1	4.47	4.96/14	5.04/14.7	122	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
2	4.18	4.92/13	5.04/14.7	142	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
3	3.09	4.88/13	5.04/14.7	95	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
4	2.69	4.8/22	4.8/22.3	119	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
5	1.12	4.9/23	4.8/22.3	122	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
6	1.24	4.82/23	4.8/22.3	135	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
7	0.0296	4.72/14	4.61/12.8	[121]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
8	0.034	4.74/14	4.61/12.8	[110]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
9	0.0969	4.88/26	4.79/29.5	93	388503664	<i>L. japonicus</i>	unknown
10	0.434	4.98/40	5.0/43.0	209	3288200	<i>H. brasiliensis</i>	latex allergen
11	0.834	5.01/40	5.0/43.1	172	6707018	<i>H. brasiliensis</i>	latex protein allergen Hev b 7
12	0.214	5.07/49	5.01/46.4	82	4235430	<i>H. brasiliensis</i>	latex-abundant protein
13	0.135	5.05/49	5.01/46.6	96	4235430	<i>H. brasiliensis</i>	latex-abundant protein
14	0.335	5.09/54	5.07/71.1	103	20559	<i>P. hybrida</i>	hsp70 (AA 6 - 651)
15	0.513	5.16/40	5.31/42.0	142	58013197	<i>I. tinctoria</i>	actin
16	0.0655	5.21/52	5.2/69.1	174	225429795	<i>V. vinifera</i>	V-type proton ATPase, subunit A
17	0.137	5.29/47	7.56/59.9	92	357480067	<i>M. truncatula</i>	Leucine aminopeptidase
18	0.139	5.31/44	5.91/30.8	81	219885949	<i>Z. mays</i>	unknown
19	0.309	5.28/33	5.93/34.3	[101]	242059605	<i>S. bicolor</i>	hypothetical protein
20	0.145	5.18/15	8.01/11.2	[86]	30575570	<i>C. paradisi</i>	HSP19 class II, partial
21	0.458	5.33/16	5.73/15.7	83	27449246	<i>H. brasiliensis</i>	Cu/Zn superoxide dismutase
22	0.656	5.61/15	8.29/35.1	[60]	37806305	<i>O. sativa</i>	hypothetical protein
23	0.0912	5.55/33	9.46/35.3	85	10946499	<i>H. brasiliensis</i>	beta-1,3-glucanase
24	0.363	5.62/36	6.01/36.0	82	78216493	<i>M. domestica</i>	cytosolic malate dehydrogenase
25	0.567	5.77/32	6.41/36.0	[81]	257219562	<i>J. curcas</i>	annexin-like protein
26	0.852	5.69/27	8.72/34.1	[56]	3451147	<i>H. brasiliensis</i>	chitinase
27	0.442	5.75/30	9.45/38.9	97	4469175	<i>H. brasiliensis</i>	beta-1,3-glucanase
28	0.652	6.89/33	9.4/41.5	99	124365253	<i>H. brasiliensis</i>	beta-1,3-glucanase
29	0.803	6.85/34	9.4/41.5	109	124365253	<i>H. brasiliensis</i>	beta-1,3-glucanase
30	0.728	6.75/33	7.1/36.9	86	255540341	<i>R. communis</i>	glyceraldehyde 3-phosphate dehydrogenase
31	0.447	6.87/35	7.7/36.8	121	4539543	<i>N. tabacum</i>	glyceraldehyde-3-phosphate dehydrogenase
32	0.139	5.6/45	5.68/51.9	99	32527831	<i>P. tremuloides</i>	UDP-glucose pyrophosphorylase
33	0.104	5.55/39	5.0/43.1	171	6707018	<i>H. brasiliensis</i>	latex protein allergen Hev b 7
34	0.111	5.49/48	5.49/48.0	123	158144895	<i>G. hirsutum</i>	enolase
35	0.131	4.95/40	5.0/43.0	[81]	3288200	<i>H. brasiliensis</i>	latex allergen
36	0.0215	4.91/39	5.0/43.0	[138]	1916805	<i>H. brasiliensis</i>	latex patatin homolog
37	0.122	5.03/40	5.12/43.0	152	41581137	<i>H. brasiliensis</i>	latex allergen hev b 7.02
38	0.0897	5.06/40	5.12/43.0	142	41581137	<i>H. brasiliensis</i>	latex allergen hev b 7.02
39	0.0134	5.11/72	5.13/90.4	136	255556934	<i>R. communis</i>	Transitional endoplasmic reticulum ATPase
40	0.183	5.16/42	5.31/41.9	125	149938964	<i>A. deliciosa</i>	ACT1
41	0.0147	5.39/46	9.34/41.4	83	159489771	<i>C. reinhardtii</i>	predicted protein

42	0.0412	5.46/44	5.57/48.0	97	14423688	<i>H. brasiliensis</i>	Enolase 1
43	0.0132	5.54/62	5.62/111	90	23503558	<i>L. japonicus</i>	phosphoenolpyruvate carboxylase
44	0.0841	5.51/38	9.61/62.6	82	382929047	<i>H. hirsuta</i>	maturase K (chloroplast)
45	0.142	5.52/34	9.45/38.9	156	4469175	<i>H. brasiliensis</i>	beta-1,3-glucanase
46	0.045	5.65/33	9.45/38.9	126	4469175	<i>H. brasiliensis</i>	beta-1,3-glucanase
47	0.0134	5.65/27	6.18/35.9	[65]	225438145	<i>V. vinifera</i>	malate dehydrogenase, cytoplasmic
48	0.177	5.63/28	6.18/35.9	[85]	225438145	<i>V. vinifera</i>	malate dehydrogenase, cytoplasmic
49	0.0563	5.2/33	6.5/32.1	[75]	255552291	<i>R. communis</i>	short chain dehydrogenase, putative
50	0.057	4.75/15	4.61/12.8	[240]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
51	0.638	5.05/13	5.04/14.7	103	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
52	0.339	5.15/13	5.04/14.7	115	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
53	0.0984	5.28/17	5.57/17.5	[61]	115187464	<i>A. hypogaea</i>	thioredoxin fold
54	0.0297	5.64/16	6.22/34.3	84	34538473	<i>H. vulgare</i>	caleosin 1
55	0.201	5.72/15	9.57/19.2	88	225440278	<i>V. vinifera</i>	hypothetical protein
56	0.0897	5.07/54	5.81/39.5	83	2213877	<i>H. brasiliensis</i>	glutamine synthetase
57	0.0301	5.1/54	5.21/71.5	102	172050753	<i>C. spinosa</i>	70 kDa heat shock protein
58	0.0356	5.12/54	5.18/71.9	[151]	762844	<i>S. lycopersicum</i>	Hsc70
59	0.0783	5.0/57	4.98/80.4	107	356552478	<i>G. max</i>	heat shock cognate protein 80-like
60	0.0132	5.01/56	5.07/52.1	[51]	356510919	<i>G. max</i>	UDP-glycosyltransferase 75D1-like
61	0.0163	5.03/49	5.49/47.1	144	255560725	<i>R. communis</i>	dead box ATP-dependent RNA helicase
62	0.0271	5.06/46	5.01/46.4	[142]	4235430	<i>H. brasiliensis</i>	latex-abundant protein
63	0.0401	4.91/46	4.65/41.4	[76]	255578278	<i>R. communis</i>	hypothetical protein
64	0.0176	5.14/46	5.15/47.1	[98]	5302811	<i>A. thaliana</i>	serine protease-like protein
65	0.0171	5.13/51	5.85/63.3	102	2506277	<i>P. sativum</i>	60 kDa chaperonin subunit beta
66	0.0193	5.16/54	5.27/72.0	88	255543357	<i>R. communis</i>	heat shock protein, putative
67	0.025	5.18/48	4.54/46.1	[91]	224100473	<i>P. trichocarpa</i>	predicted protein
68	0.0265	5.21/48	5.72/56.3	84	31580730	<i>H. brasiliensis</i>	latex cyanogenic beta glucosidase
69	0.0379	5.27/44	5.44/50.1	83	2501850	<i>N. tabacum</i>	GDP dissociation inhibitor
70	0.0152	5.3/44	5.44/50.1	[202]	2501850	<i>N. tabacum</i>	GDP dissociation inhibitor
71	0.549	5.21/43	5.42/47.2	147	359478860	<i>V. vinifera</i>	26S protease regulatory subunit 6B
72	0.126	5.13/42	5.28/47.1	[128]	224071449	<i>P. trichocarpa</i>	phospholipase A
73	0.0841	5.12/40	5.37/41.9	178	32186912	<i>G. hirsutum</i>	actin
74	0.0304	4.98/34	4.79/48.0	[70]	297816956	<i>A. lyrata</i>	hypothetical protein
75	0.0404	4.9/32	4.72/28.9	[74]	3264769	<i>P. armeniaca</i>	late embryogenesis-like protein
76	0.0574	4.93/32	5.24/42.0	81	168066110	<i>P. patens</i>	predicted protein
77	0.0683	4.89/30	4.79/29.5	109	388503664	<i>L. japonicus</i>	unknown
78	0.0174	5.0/35	4.84/24.3	[71]	115468882	<i>O. sativa</i>	Os06g0608500
79	0.0627	5.06/33	5.51/61.1	[104]	356532109	<i>G. max</i>	phosphoglycerate mutase
80	0.0124	5.05/31	5.11/59.2	90	224056489	<i>P. trichocarpa</i>	predicted protein
81	0.185	5.14/34	6.5/32.1	[174]	255552291	<i>R. communis</i>	short chain dehydrogenase, putative
82	0.133	5.29/38	5.49/39.3	91	2073448	<i>L. japonicus</i>	glutamine synthetase
83	0.0563	5.1/31	6.07/27.5	[204]	192912956	<i>E. guineensis</i>	aluminum-induced protein
84	0.0517	5.06/28	5.12/32.9	[254]	255559601	<i>R. communis</i>	alpha-soluble nsf attachment protein
85	0.0808	4.98/27	5.84/27.4	[69]	224099853	<i>P. trichocarpa</i>	predicted protein

86	0.438	5.17/21	5.06/19.6	[410]	38122474	<i>H. brasiliensis</i>	rubber elongation factor
87	0.0478	5.21/22	5.06/19.6	[226]	38122474	<i>H. brasiliensis</i>	rubber elongation factor
88	0.0734	5.13/21	5.06/19.6	116	38122474	<i>H. brasiliensis</i>	rubber elongation factor
89	0.0575	5.14/23	5.06/19.6	99	38122474	<i>H. brasiliensis</i>	rubber elongation factor
90	1.88	4.62/19	4.06/15.2	[496]	334854634	<i>H. brasiliensis</i>	elicitor-responsive protein
91	0.156	5.35/17	5.6/17.7	[95]	33325129	<i>H. brasiliensis</i>	eukaryotic translation initiation factor 5A
92	0.0403	5.37/16	5.39/18.0	[180]	224144943	<i>P. trichocarpa</i>	predicted protein
93	0.299	6.68/13	6.85/16.3	84	312985291	<i>H. brasiliensis</i>	nucleoside diphosphate kinase 1
94	0.376	6.74/16	5.63/22.7	96	123062	<i>H. brasiliensis</i>	Pro-hevein
95	0.274	6.61/15	7.77/20.7	[70]	313586569	<i>H. brasiliensis</i>	hypothetical protein 19
96	0.0897	6.65/14	7.77/20.7	94	313586569	<i>H. brasiliensis</i>	hypothetical protein 19
97	0.414	6.78/16	8.94/40.7	84	4835766	<i>A. thaliana</i>	transfactor (WERBP-1)
98	0.0367	5.42/22	5.06/19.6	99	38122474	<i>H. brasiliensis</i>	rubber elongation factor
99	0.107	5.34/24	5.71/26.1	[73]	3377751	<i>M. crystallinum</i>	glutathione S-transferase
100	0.0804	5.35/26	6.17/27.5	[49]	1709761	<i>S. oleracea</i>	Proteasome subunit alpha type-4
101	0.0483	5.47/26	5.78/27.5	[434]	27449248	<i>H. brasiliensis</i>	ascorbate peroxidase
102	0.142	5.48/26	6.0/27.5	[193]	211906460	<i>G. hirsutum</i>	triosephosphate isomerase
103	0.0357	5.22/21	5.06/19.6	125	38122474	<i>H. brasiliensis</i>	rubber elongation factor
104	0.345	5.75/19	8.72/34.1	153	3451147	<i>H. brasiliensis</i>	chitinase
105	0.15	5.75/23	8.44/29.9	93	157831407	<i>H. brasiliensis</i>	Chain A, Crystal Structures Of Hevamine
106	0.231	5.74/24	8.44/29.9	99	157831407	<i>H. brasiliensis</i>	Chain A, Crystal Structures Of Hevamine
107	0.148	5.77/20	8.72/34.1	83	3451147	<i>H. brasiliensis</i>	chitinase
108	0.0327	5.52/33	5.89/27.9	[89]	3127890	<i>C. arietinum</i>	cysteine synthase, O-acetyl-lyase
109	0.0761	5.39/37	5.44/40.0	[163]	114199044	<i>M. domestica</i>	caffeic acid O-methyltransferase
110	0.0405	5.38/44	5.57/48.0	158	14423688	<i>H. brasiliensis</i>	Enolase 1
111	0.0239	5.39/44	5.57/48.0	175	14423688	<i>H. brasiliensis</i>	Enolase 1
112	0.0339	5.38/44	6.05/25.1	85	226897734	<i>T. flavum</i>	norcochlorine 6-O-methyltransferase
113	0.0262	5.38/49	5.53/54.1	[49]	255565071	<i>R. communis</i>	conserved hypothetical protein
114	0.0502	5.47/51	5.52/61.0	96	1346735	<i>R. communis</i>	Phosphoglyceromutase
115	0.0152	5.51/61	5.87/95.0	141	255565836	<i>R. communis</i>	eukaryotic translation elongation factor
116	0.0926	5.02/39	5.0/43.1	147	6707018	<i>H. brasiliensis</i>	latex protein allergen Hev b 7
117	0.0363	5.05/39	5.0/43.9	[59]	51315784	<i>H. brasiliensis</i>	Esterase
118	0.0152	5.29/21	5.06/19.6	98	38122474	<i>H. brasiliensis</i>	rubber elongation factor
119	0.0968	5.34/46	5.41/47.8	[51]	3023685	<i>A. glutinosa</i>	Enolase
120	0.0518	5.28/41	4.83/22.0	81	351723039	<i>G. max</i>	uncharacterized protein
121	0.0992	5.02/27	7.63/31.6	[55]	255554865	<i>R. communis</i>	lactoylglutathione lyase, putative
122	0.139	5.35/26	5.59/18.4	[83]	118485535	<i>P. trichocarpa</i>	unknown
123	0.152	5.51/26	5.93/27.6	86	15225839	<i>A. thaliana</i>	proteasome subunit alpha type-3
124	0.179	5.49/23	6.06/23.0	81	10862818	<i>H. brasiliensis</i>	IgE-binding protein Mn SOD
125	0.153	5.17/24	7.7/25.7	[53]	1737447	<i>E. globulus</i>	auxin-induced protein
126	0.104	4.45/15	4.61/12.8	[97]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
127	0.119	5.46/13	5.64/20.9	[84]	2832430	<i>H. brasiliensis</i>	prohevein
128	0.065	5.55/14	6.82/15.0	[68]	224054224	<i>P. trichocarpa</i>	predicted protein
129	0.178	5.31/12	5.89/13.3	[61]	329750601	<i>H. brasiliensis</i>	thioredoxin H-type 2

130	0.532	5.01/11	5.45/11.2	81	268321205	<i>H. brasiliensis</i>	latex cystatin
131	1.01	5.02/13	5.04/14.7	[539]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
132	0.105	5.45/13	5.04/14.7	138	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
133	0.117	5.16/15	6.4/8.6	81	242083244	<i>S. bicolor</i>	hypothetical protein
134	0.0976	4.94/13	4.61/12.8	[85]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
135	0.0865	4.86/15	4.61/12.8	[493]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
136	0.448	4.13/13	4.1/16.9	[128]	354318	<i>T. aestivum</i>	calmodulin
137	0.0284	4.12/21	4.8/22.3	85	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
138	0.0653	4.45/24	4.8/22.3	165	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
139	0.0351	5.36/47	5.57/48.0	107	14423688	<i>H. brasiliensis</i>	Enolase 1
140	0.149	4.87/19	5.04/14.7	[52]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
141	0.0517	5.38/45	5.57/48.0	165	14423688	<i>H. brasiliensis</i>	Enolase 1
142	0.083	5.43/44	5.92/48.1	[766]	14423687	<i>H. brasiliensis</i>	Enolase 2
143	0.115	5.01/26	5.48/25.6	[52]	333690873	<i>H. brasiliensis</i>	glutathione-S-transferase tau 1
144	0.0957	5.33/53	8.78/43.5	82	242080619	<i>S. bicolor</i>	hypothetical protein
145	0.101	5.09/15	5.95/17.6	[87]	140083605	<i>R. hybrid</i>	cytosolic class II small HSP17.5
146	0.0217	4.02/41	5.01/14.6	[88]	37901124	<i>H. brasiliensis</i>	latex abundant protein 1
147	0.0256	4.35/40	4.53/38.0	[173]	359806300	<i>G. max</i>	uncharacterized protein
148	0.0301	4.28/38	4.53/38.1	[166]	37625031	<i>V. aestivalis</i>	ankyrin-repeat protein
149	0.0356	4.39/38	4.45/37.5	[71]	13310811	<i>N. tabacum</i>	ankyrin-repeat protein HBP1
150	0.518	5.18/42	5.64/42.2	[180]	129916	<i>T. aestivum</i>	Phosphoglycerate kinase
151	0.0258	4.31/36	4.5/25.3	[117]	378464888	<i>A. mongolicus</i>	translation elongation factor
152	0.0335	4.43/32	4.5/25.1	[107]	225456295	<i>V. vinifera</i>	elongation factor 1-delta-like
153	0.0201	4.83/30	5.26/35.7	[132]	22261807	<i>S. tuberosum</i>	Light-induced protein
154	0.0125	4.89/31	4.82/28.9	83	345103803	<i>G. thurberi</i>	14-3-3-like protein, partial
155	0.0549	5.08/26	4.76/29.9	[384]	326694865	<i>H. brasiliensis</i>	14-3-3 protein 2
156	0.0563	4.78/33	5.02/30.9	[53]	225458231	<i>V. vinifera</i>	proteasome subunit alpha
157	0.0338	4.89/31	5.69/32.6	[80]	211906514	<i>G. hirsutum</i>	lactoylglutathione lyase
158	0.186	5.02/33	5.5/33.2	80	359483362	<i>V. vinifera</i>	lactoylglutathione lyase
159	0.0491	5.12/37	5.08/53.7	80	340033945	<i>C. maritimum</i>	ATP synthase CF1 beta subunit
160	0.0565	5.15/36	5.41/49.2	84	4388534	<i>S. bicolor</i>	F1-ATP synthase, beta subunit
161	0.0209	5.13/30	5.64/27.4	[136]	147805616	<i>V. vinifera</i>	hypothetical protein
162	0.0607	5.06/36	8.89/54.7	83	326492265	<i>Ho. Vulgare</i>	predicted protein
163	0.06679	4.89/46	4.99/54.4	[343]	225459744	<i>V. vinifera</i>	V-type proton ATPase subunit B
164	0.0157	5.08/46	5.04/54.4	[377]	225428086	<i>V. vinifera</i>	V-type proton ATPase subunit B 1
165	0.116	4.78/42	5.28/47.1	[59]	224071449	<i>P. trichocarpa</i>	phospholipase A
166	0.0203	4.81/16	5.91/13.4	81	116789736	<i>P. sitchensis</i>	unknown
167	0.0414	5.35/17	5.98/51.0	[51]	115392253	<i>C. betuloides</i>	polyphenol oxidase
168	0.0691	5.36/19	5.39/18.0	[210]	225430941	<i>V. vinifera</i>	regulator of ribonuclease
169	0.179	5.23/16	5.64/20.9	[152]	2832430	<i>H. brasiliensis</i>	prohevein
170	0.14	5.18/15	5.92/16.2	[110]	298362843	<i>H. brasiliensis</i>	actin-depolymerizing factor
171	0.477	4.81/19	9.23/58.4	[104]	255539441	<i>R. communis</i>	actin depolymerizing factor
172	0.125	5.18/18	5.64/20.9	[252]	2832430	<i>H. brasiliensis</i>	prohevein
173	0.0849	5.12/23	5.17/24.9	101	255574159	<i>R. communis</i>	proteasome subunit beta type

174	0.0317	4.89/31	5.93/34.3	[117]	242059605	<i>S. bicolor</i>	hypothetical protein
175	0.0295	5.22/27	6.44/66.4	86	2832654	<i>A. thaliana</i>	chloroplast protein cs/ch-42
176	0.0419	5.38/26	5.78/27.5	[487]	27449248	<i>H. brasiliensis</i>	ascorbate peroxidase
177	0.0415	5.32/24	6.06/22.6	[369]	357480975	<i>M. truncatula</i>	Proteasome subunit beta type
178	0.054	5.35/25	6.08/24.9	[302]	255541320	<i>R. communis</i>	proteasome subunit beta type
179	0.19	6.98/15	6.56/9.7	82	350537255	<i>S. lycopersicum</i>	small zinc finger-like protein
180	0.0431	5.56/27	8.99/18.9	107	37622210	<i>H. brasiliensis</i>	small rubber particle protein
181	0.0442	5.87/38	5.8/61.3	81	168038495	<i>P. patens</i>	predicted protein
182	0.18	6.35/33	6.04/61.4	82	164472662	<i>T. aestivum</i>	calcium-dependent protein kinase
183	0.145	5.86/45	5.68/51.9	92	32527831	<i>P. tremula</i>	UDP-glucose pyrophosphorylase
184	0.0292	5.91/45	6.04/51.8	92	356576773	<i>G. max</i>	seryl-tRNA synthetase-like
185	0.0442	5.48/34	8.64/36.3	[51]	357514973	<i>M. truncatula</i>	Annexin D4
186	0.0553	5.35/38	6.48/42.1	[63]	1351887	<i>M. domestica</i>	Alcohol dehydrogenase
187	0.0362	5.51/37	5.54/41.0	[123]	380468126	<i>H. brasiliensis</i>	caffeic acid 3-O-methyltransferase
188	0.0275	5.28/36	5.54/41.0	[117]	380468126	<i>H. brasiliensis</i>	caffeic acid 3-O-methyltransferase
189	0.069	5.11/26	5.41/27.5	[159]	284433794	<i>J. curcas</i>	glutathione S-transferase omega
190	0.0311	5.56/28	6.09/30.8	[52]	255567721	<i>R. communis</i>	carboxymethylenebutenolidase
191	0.0405	5.48/29	10.36/29.7	[59]	125573095	<i>O. sativa</i>	hypothetical protein OsJ_04535
192	0.0954	5.44/33	5.5/34.4	82	255542380	<i>R. communis</i>	cysteine synthase, putative
193	0.0329	5.23/32	5.56/32.4	[57]	255562276	<i>R. communis</i>	pyridoxine kinase, putative
194	0.0813	5.85/33	6.5/32.1	[303]	255552291	<i>R. communis</i>	short chain dehydrogenase
195	0.0796	5.17/54	5.27/72.0	102	255543357	<i>R. communis</i>	heat shock protein, putative
196	0.0398	5.07/53	7.9/68.9	82	224139936	<i>P. trichocarpa</i>	predicted protein
197	0.0121	5.09/72	5.18/90.5	174	351727028	<i>G. max</i>	cell division cycle protein 48 homolog
198	0.0331	5.25/48	5.01/46.4	180	4235430	<i>H. brasiliensis</i>	latex-abundant protein
199	0.0648	5.51/47	4.96/48.7	[57]	198400319	<i>Camellia sinensis</i>	senescence-related protein
200	0.0702	5.15/40	5.6/42.4	[282]	255570457	<i>R. communis</i>	protease C56, putative
201	0.0708	5.46/41	5.44/41.9	149	32186896	<i>G. hirsutum</i>	actin
202	0.0756	5.41/42	5.49/47.1	109	255560725	<i>R. communis</i>	dead box ATP-dependent RNA helicase
203	0.0199	5.35/48	5.57/48.0	[229]	14423688	<i>H. brasiliensis</i>	Enolase 1
204	0.0168	5.38/55	5.27/72.0	[311]	186898205	<i>H. brasiliensis</i>	heat-shock protein 70
205	0.0392	5.68/58	5.6/65.4	[63]	255537027	<i>R. communis</i>	HSP70-interacting protein
206	0.0262	6.32/51	8.96/65.0	81	302853426	<i>V. carteri</i>	hypothetical protein
207	0.0208	6.14/67	5.6/65.4	[266]	255537027	<i>R. communis</i>	HSP70-interacting protein
208	0.0133	6.35/67	5.6/65.4	[68]	255537027	<i>R. communis</i>	HSP70-interacting protein
209	0.0489	5.36/57	5.52/61.0	[161]	1346735	<i>R. communis</i>	phosphoglycerate mutase
210	0.0132	5.38/68	5.6/65.4	[69]	255537027	<i>R. communis</i>	HSP70-interacting protein
211	0.0415	5.35/72	5.13/90.4	[1185]	255556934	<i>R. communis</i>	Transitional endoplasmic reticulum ATPase
212	0.0352	5.36/53	5.79/66.6	[166]	4588474	<i>B. napus</i>	phosphoinositide-specific phospholipase C
213	0.0419	5.38/55	5.79/66.6	[116]	4588474	<i>B. napus</i>	phosphoinositide-specific phospholipase C
214	0.0365	5.33/52	5.46/63.7	[138]	255568794	<i>R. communis</i>	nucleoredoxin, putative
215	0.0159	5.37/51	5.66/53.8	[289]	32967699	<i>A. thaliana</i>	S-adenosyl-L-homocystein hydrolase
216	0.0354	5.61/49	5.69/52.8	[327]	336390551	<i>G. max</i>	adenosylhomocysteinase

217	0.0327	5.78/48	5.2/51.8	[52]	6136111	<i>H. vulgare</i>	glucose-1-phosphate uridylyltransferase
218	0.0876	6.28/38	6.86/51.8	[802]	14916100	<i>H. brasiliensis</i>	hydroxymethylglutaryl Co-A synthase
219	0.0746	5.65/34	5.92/34.8	[181]	307707110	<i>P. armeniaca</i>	NAD-dependent malate dehydrogenase
220	0.091	5.54/38	5.64/42.2	[357]	357137038	<i>B. distachyon</i>	phosphoglycerate kinase, cytosolic-like
221	0.031	5.25/34	8.64/36.3	[99]	357514973	<i>M. truncatula</i>	Annexin D4
222	0.0629	5.41/37	5.49/42.2	[314]	21536853	<i>A. thaliana</i>	phosphoglycerate kinase, putative
223	0.0416	5.68/39	5.82/41.6	[77]	255547137	<i>R. communis</i>	Alpha-1,4-glucan-protein synthase
224	0.0396	5.29/37	5.54/41.0	[922]	380468126	<i>H. brasiliensis</i>	caffeic acid 3-O-methyltransferase
225	0.0375	5.25/39	5.6/42.4	[237]	255570457	<i>R. communis</i>	protease C56, putative
226	0.0626	5.13/27	5.24/26.2	[172]	224131618	<i>P. trichocarpa</i>	predicted protein
227	0.166	5.31/25	5.48/25.6	[386]	333690873	<i>H. brasiliensis</i>	glutathione-S-transferase tau 1
228	0.0928	5.38/26	6.0/27.5	[243]	211906460	<i>G. hirsutum</i>	triosephosphate isomerase
229	0.0256	5.21/27	5.13/27.5	[93]	255568460	<i>R. communis</i>	glutathione-s-transferase omega
230	0.0459	5.15/25	5.62/25.8	[104]	2970051	<i>V. radiata</i>	ARG10
231	0.0957	5.23/21	5.64/20.9	[217]	2832430	<i>H. brasiliensis</i>	prohevein
232	0.136	5.35/20	5.64/20.9	[112]	2832430	<i>H. brasiliensis</i>	prohevein
233	0.0722	4.98/23	4.8/22.3	[384]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
234	0.185	5.01/15	5.04/14.7	[379]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
235	0.0425	5.56/15	6.32/17.1	[128]	123550	<i>P. sativum</i>	heat shock protein, 17.1 kDa class II
236	0.212	5.36/14	5.96/16.5	[272]	312985293	<i>H. brasiliensis</i>	nucleoside diphosphate kinase 2
237	0.234	5.67/13	5.04/14.7	[90]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
238	1.121	5.54/13	5.64/20.9	[344]	2832430	<i>H. brasiliensis</i>	prohevein
239	0.0902	5.01/41	5.6/42.4	[193]	255570457	<i>R. communis</i>	protease C56, putative
240	0.0535	5.58/46	5.68/47.0	[58]	727357	<i>A. thaliana</i>	DnaJ homolog
241	0.0674	5.34/48	5.46/63.7	[100]	255568794	<i>R. communis</i>	nucleoredoxin, putative
242	1.13	4.75/51	4.6/41.5	93	37719658	<i>H. brasiliensis</i>	50 kDa protein
243	0.354	4.78/49	4.6/41.5	85	37719658	<i>H. brasiliensis</i>	50 kDa protein
244	1.05	4.55/50	4.6/41.5	95	37719658	<i>H. brasiliensis</i>	50 kDa protein
245	1.02	4.73/47	4.6/41.5	101	37719658	<i>H. brasiliensis</i>	50 kDa protein
246	0.121	4.77/47	4.6/41.5	118	37719658	<i>H. brasiliensis</i>	50 kDa protein
247	0.215	5.35/13	5.63/22.7	[158]	123062	<i>H. brasiliensis</i>	Pro-hevein
248	1.41	6.96/13	5.64/20.9	[446]	2832430	<i>H. brasiliensis</i>	prohevein
249	0.428	5.01/13	5.04/14.7	[405]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
250	0.478	5.24/13	5.04/14.7	[340]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
251	0.401	5.11/13	5.04/14.7	[470]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
252	0.788	5.69/14	5.04/14.7	[402]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
B1	---	---	5.04/14.7	[282]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
B2	---	---	5.14/90.3	90	225440045	<i>V. vinifera</i>	cell division cycle protein 48 homolog
B3	---	---	5.54/92.3	[100]	88193697	<i>A. hypogaea</i>	phospholipase D
B4	---	---	5.17/71.4	102	225440324	<i>V. vinifera</i>	heat shock cognate 70 protein
B5	---	---	6.77/23.7	95	253760141	<i>S. bicolor</i>	hypothetical protein
B6	---	---	4.8/22.3	[348]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
B7	---	---	9.4/41.5	125	124365253	<i>H. brasiliensis</i>	beta-1,3-glucanase

B8	---	---	9.46/35.3	187	124365253	<i>H. brasiliensis</i>	beta-1,3-glucanase
B9	---	---	7.1/36.9	103	255540341	<i>R. communis</i>	glyceraldehyde 3-phosphate dehydrogenase
B10	---	---	4.8/22.3	160	14423933	<i>H. brasiliensis</i>	small rubber particle protein
B11	---	---	5.06/19.6	106	38122474	<i>H. brasiliensis</i>	rubber elongation factor
B12	---	---	5.0/43.0	87	3288200	<i>H. brasiliensis</i>	latex allergen
B13	---	---	5.04/14.9	[271]	334854628	<i>H. brasiliensis</i>	rubber elongation factor
B14	---	---	5.57/48.0	117	14423688	<i>H. brasiliensis</i>	Enolase 1
B15	---	---	5.27/72.0	85	255543357	<i>R. communis</i>	heat shock protein, putative
B16	---	---	5.12/91.0	88	225456951	<i>V. vinifera</i>	cell division cycle protein 48 homolog
B17	---	---	5.22/21.0	[67]	66735596	<i>A. hypogaea</i>	phospholipase D alpha
B18	---	---	5.02/80.4	90	33326375	<i>H. brasiliensis</i>	heat shock protein
B19	---	---	5.11/70.4	107	450880	<i>A. thaliana</i>	heat shock cognate 70-1
B20	---	---	7.01/28.4	81	379068234	<i>R. formosanum</i>	leucine-rich repeat protein
B21	---	---	5.57/48.0	101	14423688	<i>H. brasiliensis</i>	enolase 1
B22	---	---	5.0/43.0	121	3288200	<i>H. brasiliensis</i>	latex allergen
B23	---	---	5.64/42.2	[81]	113217	<i>Daucus carota</i>	Actin-1
B24	---	---	97.2/6.1	84	147835357	<i>V. vinifera</i>	hypothetical protein
B25	---	---	5.67/11.7	81	170525118	<i>P. mendocina</i>	geranylgeranyl reductase
B26	---	---	8.11/43.2	83	145346735	<i>O. lucimarinus</i>	predicted protein
B27	---	---	4.79/29.0	[101]	37903393	<i>S. hybrid</i>	14-3-3-like protein
B28	---	---	9.46/35.5	181	10946499	<i>H. brasiliensis</i>	beta-1,3-glucanase
B29	---	---	9.4/41.5	105	124365253	<i>H. brasiliensis</i>	beta-1,3-glucanase
B30	---	---	4.8/22.3	130	14423933	<i>H. brasiliensis</i>	small rubber particle protein
B31	---	---	7.77/20.7	132	313586569	<i>H. brasiliensis</i>	hypothetical protein 19
B32	---	---	6.56/8.5	162	327492451	<i>M. crystallinum</i>	N-terminal end of polyubiquitin
B33	---	---	5.73.15.7	87	27449246	<i>H. brasiliensis</i>	Cu/Zn superoxide dismutase SOD
B34	---	---	4.61/12.8	84	29170601	<i>H. brasiliensis</i>	small rubber particle protein
B35	---	---	5.01/10.3	[118]	242080683	<i>S. bicolor</i>	hypothetical protein

Note:

^aAssigned spot (S1-S252) or band (B1-B35) number as indicated in Fig. 2.

^bThe statistical percent of volue value (Vol%) of the target protein spot in all the proteins in the 2-DE gels produced by ImageMaster.

^{c, d}The experimental (c) and theoretical (d) values for the mass (kDa) and *pI* of identified proteins. The theoretical values were retrieved from the protein database, and the experimental values were produced by ImageMaster.

^eMascot searched scores (M.S.) against NCBIInr for the MS and [MS/MS] searched results.

^fDatabase accession (gi|) numbers according to NCBIInr. ---, the values were not detected.

Supplementary Table S2 MS identification of the differential latex proteins in DIGE gels

Spot NO.^a	Changed^b 3 5-day	Exper.^c pI/Mr	Thero.^d pI/Mr	M.S.^e Score	NCBI No.^f	Plant species	Protein name
D1	-1.23/-1.85	5.19/30	4.71/28.6	[278]	255545912	<i>R. communis</i>	14-3-3 protein, putative
D2	-1.47/-1.97	4.75/51	4.6/41.5	93	37719658	<i>H. brasiliensis</i>	50 kDa protein
D3	-1.51/-2.09	4.78/49	4.6/41.5	85	37719658	<i>H. brasiliensis</i>	50 kDa protein
D4	-1.24/-4.02	5.87/62	5.64/27.4	[324]	147805616	<i>V. vinifera</i>	hypothetical protein VITISV_028800
D5	-1.24/-1.68	6.33/68	5.3/35.8	[122]	224137430	<i>P. trichocarpa</i>	predicted protein
D6	1.31/1.59	5.16/47	5.57/48.0	[229]	14423688	<i>H. brasiliensis</i>	Enolase 1
D7	-1.52/-2.74	4.55/50	4.6/41.5	95	37719658	<i>H. brasiliensis</i>	50 kDa protein
D8	1.11/1.54	5.45/61	5.87/95.0	123	255565836	<i>R. communis</i>	eukaryotic translation elongation factor
D9	1.52/1.34	4.93/41	5.047/54.4	146	225428086	<i>V. vinifera</i>	V-type proton ATPase subunit B 1
D10	-1.27/-1.57	6.42/16	5.65/20.9	[446]	2832430	<i>H. brasiliensis</i>	Pro-hevein
D11	-1.23/-1.54	6.61/15	5.63/22.7	[158]	123062	<i>H. brasiliensis</i>	Pro-hevein
D12	-1.52/1.31	5.87/71	5.42/45.9	[77]	15237159	<i>A. thaliana</i>	regulatory particle triple-A ATPase 3
D13	-1.53/1.19	6.0/21	5.63/22.7	[129]	123062	<i>H. brasiliensis</i>	Pro-hevein
D14	-1.09/1.56	5.94/54	5.75/35.6	[196]	225446010	<i>V. vinifera</i>	glucose-6-phosphate 1-epimerase
D15	1.51/-1.53	5.25/97	5.15/75.5	[338]	1143427	<i>C. sativus</i>	heat shock protein 70
D16	-1.43/-1.87	6.23/48	4.94/28.6	[198]	255558037	<i>R. communis</i>	nucleic acid binding protein, putative
D17	-1.27/-1.52	6.35/18	5.73/15.7	[105]	27449246	<i>H. brasiliensis</i>	Cu/Zn superoxide dismutase
D18	-1.07/-1.55	6.96/14	5.64/20.9	[446]	2832430	<i>H. brasiliensis</i>	pro-hevein
D19	-1.57/-1.53	6.6/99	6.08/59.6	[301]	255551408	<i>R. communis</i>	chaperonin containing t-complex protein 1
D20	-1.51/-1.82	6.02/55	6.18/35.6	[75]	225438145	<i>V. vinifera</i>	malate dehydrogenase, cytoplasmic
D21	1.75/-1.98	5.6/43	5.19/56.6	[116]	224056377	<i>R. communis</i>	Aspartic proteinase precursor, putative
D22	1.15/-1.55	5.59/54	7.63/31.6	[145]	255554865	<i>R. communis</i>	lactoylglutathione lyase, putative
D23	-1.95/1.55	6.23/64	5.83/27.7	[466]	356517215	<i>G. max</i>	uncharacterized protein LOC100817735
D24	1.52/1.14	5.55/98	5.1/71.2	[505]	356569000	<i>G. max</i>	heat shock cognate 70 kDa protein
D25	1.54/1.52	5.01/13	5.04/14.7	[405]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D26	1.51/-1.11	6.53/42	7.81/31.3	[79]	6624721	<i>P. sativum</i>	cysteine protease, putative
D27	1.55/-1.1	5.24/13	5.04/14.7	[340]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D28	3.01/1.06	5.96/87	5.47/46.2	[115]	314991144	<i>G. hirsutum</i>	mitogen-activated protein kinase
D29	-2.92/1.05	6.01/33	5.59/18.4	[82]	118485535	<i>P. trichocarpa</i>	unknown
D30	1.26/1.54	5.11/13	5.04/14.7	[470]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D31	1.58/-1.15	6.61/41	6.43/36.7	[80]	470127750	<i>F. vesca</i>	uncharacterized protein LOC101300446
D32	1.53/1.19	5.69/14	5.04/14.7	[398]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D33	1.67/1.21	6.37/102	5.31/47.9	[106]	351724891	<i>G. max</i>	enolase
D34	1.56/1.32	5.27/68	4.65/41.4	[154]	255578278	<i>R. communis</i>	hypothetical protein RCOM_0537780
D35	1.53/1.19	6.63/41	5.15/75.5	[378]	1143427	<i>C. sativus</i>	heat shock protein 70
D36	1.55/1.54	6.54/82	6.96/41.2	[120]	164604960	<i>H. brasiliensis</i>	acetyl-CoA C-acetyltransferase
D37	-1.58/-1.53	6.54/41	8.99/18.9	[77]	37622210	<i>H. brasiliensis</i>	small rubber particle protein
D38	-1.49/1.52	5.24/35	4.87/30.8	[109]	255555641	<i>R. communis</i>	26S proteasome atpase regulatory subunit
D39	-1.59/-2.53	6.32/31	6.08/24.9	[157]	255541320	<i>R. communis</i>	proteasome subunit beta type
D40	-1.55/-1.95	5.21/97	5.35/75.4	[459]	255570990	<i>R. communis</i>	heat shock protein, putative
D41	-1.26/-1.55	6.53/24	5.86/22.7	[97]	351726646	<i>G. max</i>	uncharacterized protein

D42	1.51/1.87	5.49/72	4.98/54.8	[111]	166627	<i>A. thaliana</i>	nucleotide-binding subunit of V-ATPase
D43	-1.51/-1.53	6.21/14	5.04/14.7	[55]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D44	1.53/-1.39	6.71/34	5.84/27.5	[366]	255583952	<i>R. communis</i>	proteasome subunit alpha type, putative
D45	-1.21/-1.58	5.97/28	5.48/26.3	[189]	356547978	<i>G. max</i>	eukaryotic translation initiation factor 3
D46	-1.17/-1.56	6.51/31	6.4/23.7	[78]	310772392	<i>M. glabra</i>	dehydroascorbate reductase
D47	1.63/-1.29	5.54/19	5.39/17.9	[370]	255547584	<i>R. communis</i>	Regulator of ribonuclease activity A
D48	1.24/-1.55	6.72/85	6.29/35.5	[128]	255568992	<i>R. communis</i>	conserved hypothetical protein
D49	-1.52/-1.54	6.24/91	5.78/54.6	[206]	356522666	<i>G. max</i>	ubiquitin carboxyl-terminal hydrolase 6
D50	1.54/-1.23	5.51/47	5.84/27.4	[120]	224099853	<i>P. trichocarpa</i>	predicted protein
D51	-1.12/1.58	6.13/90	5.46/63.7	[380]	255568794	<i>R. communis</i>	nucleoredoxin, putative
D52	1.53/1.58	5.51/31	4.8/22.3	[137]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
D53	-1.01/1.53	5.9/45	5.48/25.6	[132]	333690873	<i>H. brasiliensis</i>	glutathione-S-transferase tau 1
D54	-1.27/1.55	6.01/62	5.71/38.4	[105]	356543702	<i>G. max</i>	pulegone reductase-like
D55	1.21/1.52	6.4/20	5.82/18.5	[56]	351721881	<i>G. max</i>	heat shock protein,18.5 kDa class I
D56	-1.09/1.56	5.61/96	5.02/48.4	[96]	462406561	<i>P. persica</i>	hypothetical protein
D57	1.12/1.59	6.64/35	7.6/30.6	[56]	255570177	<i>R. communis</i>	proteasome subunit beta type
D58	1.13/-1.54	6.75/16	5.93/18.3	[197]	3834310	<i>A. thaliana</i>	Ubiquitin-conjugating enzyme
D59	1.02/1.56	6.7/18	6.2/16.7	[256]	315937232	<i>J. curcas</i>	ubiquitin-conjugating family protein
D60	1.27/1.52	5.53/72	5.07/54.1	[271]	226531470	<i>Z. mays</i>	vacuolar ATP synthase subunit B
D61	-1.78/-2.65	6.34/22	5.64/20.9	[175]	2832430	<i>H. brasiliensis</i>	pro-hevein
D62	1.61/1.31	6.32/56	5.54/40.1	[195]	114199044	<i>M. domestica</i>	caffeic acid O-methyltransferase
D63	1.12/1.57	5.74/29	8.33/27.7	[77]	255538084	<i>R. communis</i>	Adenine phosphoribosyltransferase
D64	1.52/1.51	5.79/35	5.55/26.0	[94]	255546213	<i>R. communis</i>	o-methyltransferase, putative
D65	1.53/1.52	4.88/13	5.04/14.7	95	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D66	1.57/1.51	4.9/23	4.8/22.3	122	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
D67	1.56/1.53	4.82/23	4.8/22.3	135	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
D68	1.54/1.51	4.88/26	4.79/29.5	93	388503664	<i>L. japonicus</i>	unknown
D69	1.57/1.14	5.05/49	5.01/46.6	96	4235430	<i>H. brasiliensis</i>	latex-abundant protein
D70	1.03/-1.52	5.18/15	8.01/11.2	[86]	30575570	<i>C. paradisi</i>	HSP19 class II, partial
D71	-1.54/-1.7	5.61/15	8.29/35.1	[60]	37806305	<i>O. sativa</i>	hypothetical protein
D72	-1.55/-1.56	5.69/27	8.72/34.1	[56]	3451147	<i>H. brasiliensis</i>	chitinase
D73	-1.59/-1.58	6.75/33	7.1/36.9	86	255540341	<i>R. communis</i>	glyceraldehyde 3-phosphate dehydrogenase
D74	1.01/-1.55	4.95/40	5.0/43.0	[81]	3288200	<i>H. brasiliensis</i>	latex allergen
D75	-1.22/1.53	4.91/39	5.0/43.0	[138]	1916805	<i>H. brasiliensis</i>	latex patatin homolog
D76	-1.11/3.13	5.03/40	5.12/43.0	152	41581137	<i>H. brasiliensis</i>	latex allergen hev b 7.02
D77	-1.07/2.02	5.06/40	5.12/43.0	142	41581137	<i>H. brasiliensis</i>	latex allergen hev b 7.02
D78	-1.27/-1.58	3.65/33	9.45/38.9	156	4469175	<i>H. brasiliensis</i>	beta-1,3-glucanase
D79	-1.17/-1.61	5.64/16	6.22/34.3	84	34538473	<i>H. vulgare</i>	caleosin 1
D80	1.54/1.16	5.03/49	5.49/47.1	144	255560725	<i>R. communis</i>	dead box ATP-dependent RNA helicase
D81	1.52/1.1	4.91/46	4.65/41.4	[76]	255578278	<i>R. communis</i>	hypothetical protein RCOM_0537780
D82	-1.04/1.68	5.27/44	5.44/50.1	83	2501850	<i>N. tabacum</i>	GDP dissociation inhibitor
D83	-1.06/-1.52	4.9/49	4.72/28.9	[74]	3264769	<i>P. armeniaca</i>	late embryogenesis-like protein
D84	1.04/1.55	4.98/27	5.84/27.4	[69]	224099853	<i>P. trichocarpa</i>	predicted protein
D85	-1.56/-1.03	5.17/21	5.06/19.6	[410]	38122474	<i>H. brasiliensis</i>	rubber elongation factor

D86	-1.52/2.18	5.21/22	5.06/19.6	[226]	38122474	<i>H. brasiliensis</i>	rubber elongation factor
D87	1.53/1.52	4.62/19	4.06/15.2	[496]	334854634	<i>H. brasiliensis</i>	elicitor-responsive protein
D88	-1.57/-1.62	5.37/16	5.39/18.0	[180]	224144943	<i>P. trichocarpa</i>	predicted protein
D89	-1.58/-1.28	6.74/16	5.63/22.7	96	123062	<i>H. brasiliensis</i>	Pro-hevein
D90	-1.58/-4	5.42/22	5.06/19.6	99	38122474	<i>H. brasiliensis</i>	rubber elongation factor
D91	-1.02/-1.61	5.35/26	6.17/27.5	[49]	1709761	<i>S. oleracea</i>	Proteasome subunit alpha type-4
D92	-1.58/1.02	5.22/22	5.06/19.6	125	38122474	<i>H. brasiliensis</i>	rubber elongation factor
D93	-1.56/-1.52	5.75/23	8.44/29.9	93	157831407	<i>H. brasiliensis</i>	Chain A, Crystal Structures Of Hevamine
D94	1.03/-1.58	5.52/33	5.89/27.9	[89]	3127890	<i>C. arietinum</i>	cysteine synthase, O-acetyl-(thiol)-lyase
D95	-1.24/3.05	5.05/39	5.0/43.9	[59]	51315784	<i>H. brasiliensis</i>	Esterase
D96	1.39/5.24	5.29/21	5.06/19.6	98	38122474	<i>H. brasiliensis</i>	rubber elongation factor
D97	1.04/1.52	5.02/27	7.63/31.6	[55]	255554865	<i>R. communis</i>	lactoylglutathione lyase, putative
D98	1.58/1.39	5.51/26	5.93/27.6	86	15225839	<i>A. thaliana</i>	proteasome subunit alpha type-3
D99	1.55/1.02	4.45/15	4.61/12.8	[97]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
D100	-1.09/-1.63	5.46/13	5.64/20.9	[84]	2832430	<i>H. brasiliensis</i>	pro-hevein
D101	-1.67/-1.16	5.55/14	6.82/15.0	[68]	224054224	<i>P. trichocarpa</i>	predicted protein
D102	1.13/1.72	5.01/11	5.45/11.2	81	268321205	<i>H. brasiliensis</i>	latex cystatin
D103	-1.62/-1.02	5.16/15	6.4/8.6	81	242083244	<i>S. bicolor</i>	hypothetical protein
D104	1.57/1.12	4.94/13	4.61/12.8	[85]	29170601	<i>H. brasiliensis</i>	small rubber particle protein
D105	-2.51/-3.62	4.13/13	4.1/16.9	[128]	354318	<i>T. aestivum</i>	calmodulin
D106	-1.51/-8.05	4.12/21	4.8/22.3	85	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
D107	-2.36/1.06	4.45/24	4.8/22.3	165	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
D108	-1.62/-1.1	5.36/47	5.57/48.0	107	14423688	<i>H. brasiliensis</i>	Enolase 1
D109	1.61/1.65	5.01/26	5.48/25.6	[52]	333690873	<i>H. brasiliensis</i>	glutathione-S-transferase tau 1
D110	-1.12/-1.57	5.09/15	5.95/17.6	[87]	140083605	<i>R. hybrid</i>	cytosolic class II HSP17.5
D111	-2.32/-11.52	4.02/41	5.01/14.6	[88]	37901124	<i>H. brasiliensis</i>	latex abundant protein 1
D112	-1.27/-1.87	4.35/40	4.53/38.0	[173]	359806300	<i>G. max</i>	uncharacterized protein
D113	-8.92/-8.16	4.28/38	4.53/38.1	[166]	37625031	<i>V. aestivalis</i>	ankyrin-repeat protein
D114	1.02/-1.7	4.39/38	4.45/37.5	[71]	13310811	<i>N. tabacum</i>	ankyrin-repeat protein HBP1
D115	-1.64/-1.6	4.31/36	4.5/25.3	[117]	378464888	<i>A. mongolicus</i>	translation elongation factor
D116	-1.08/-1.94	4.83/30	5.26/35.7	[132]	22261807	<i>S. tuberosum</i>	Light-induced protein, chloroplastic
D117	1.21/1.73	5.13/30	5.64/27.4	[136]	147805616	<i>V. vinifera</i>	hypothetical protein VITISV_028800
D118	1.63/1.17	5.08/46	5.04/54.4	[377]	225428086	<i>V. vinifera</i>	V-type proton ATPase subunit B 1
D119	1.01/1.56	4.78/42	5.28/47.1	[59]	224071449	<i>P. trichocarpa</i>	phospholipase A
D120	-1.57/1.52	4.81/16	5.91/13.4	81	116789736	<i>P. sitchensis</i>	unknown
D121	-1.12/-1.65	5.35/17	5.98/51.0	[51]	115392253	<i>C. betuloides</i>	polyphenol oxidase
D122	-1.21/-1.9	5.36/19	5.39/18.0	[210]	225430941	<i>V. vinifera</i>	regulator of ribonuclease-like protein 2
D123	-1.81/1.07	4.81/19	9.23/58.4	[104]	255539441	<i>R. communis</i>	actin depolymerizing factor, putative
D124	-1.1/2.05	5.32/24	6.06/22.6	[369]	357480975	<i>M. truncatula</i>	Proteasome subunit beta type
D125	-1.21/1.65	5.51/37	5.54/41.0	[123]	380468126	<i>H. brasiliensis</i>	caffeic acid 3-O-methyltransferase
D126	-1.05/1.55	5.28/36	5.54/41.0	[117]	380468126	<i>H. brasiliensis</i>	caffeic acid 3-O-methyltransferase
D127	-1.59/1.15	5.11/26	5.41/27.5	[159]	284433794	<i>J. curcas</i>	glutathione S-transferase omega
D128	-1.05/-1.64	5.56/28	6.09/30.8	[52]	255567721	<i>R. communis</i>	carboxymethylenebutenolidase, putative
D129	-1.74/1.13	5.44/33	5.5/34.4	82	255542380	<i>R. communis</i>	cysteine synthase, putative

D130	-1.62/-1.64	5.09/72	5.18/90.5	174	351727028	<i>G. max</i>	cell division cycle protein 48 homolog
D131	-1.65/-1.12	6.28/38	6.86/51.8	[802]	14916100	<i>H. brasiliensis</i>	hydroxymethylglutaryl CoA synthase
D132	-1.62/-1.01	5.25/34	8.64/36.3	[99]	357514973	<i>M. truncatula</i>	Annexin D4
D133	1.62/1.06	5.41/37	5.49/42.2	[314]	21536853	<i>A. thaliana</i>	phosphoglycerate kinase, putative
D134	1.71/1.16	5.68/39	5.82/41.6	[77]	255547137	<i>R. communis</i>	Alpha-1,4-glucan-protein synthase
D135	-1.02/1.57	5.31/25	5.48/25.6	[386]	333690873	<i>H. brasiliensis</i>	glutathione-S-transferase tau 1
D136	1.1/1.72	5.15/25	5.62/25.8	[104]	2970051	<i>V. radiata</i>	ARG10
D137	-1.66/1.63	5.23/21	5.64/20.9	[217]	2832430	<i>H. brasiliensis</i>	pro-hevein
D138	-1.1/-1.71	4.98/23	4.8/22.3	[384]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
D139	1.63/1.09	5.01/15	5.04/14.7	[379]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D140	-1.56/-1.62	5.54/13	5.64/20.9	[344]	2832430	<i>H. brasiliensis</i>	pro-hevein
D141	-1.63/-1.54	5.35/13	5.63/22.7	[158]	123062	<i>H. brasiliensis</i>	Pro-hevein
D142	1.63/1.51	5.01/13	5.04/14.7	[405]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
D143	1.61/1.64	5.11/13	5.04/14.7	[470]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein

Note:

^aAssigned spot number (D1-D143) as indicated in Fig. 3.

^bThe relatively changed ratios of the target protein spots in the 3 and 5 days latex from rubber trees treated by water and ethylene. All the protein spots in the 2-D DIGE gels were analyzed by DeCyder 7.0 software.

^{c, d}The experimental (c) and theoretical (d) values for the mass (kDa) and *pI* of identified proteins. The theoretical values were retrieved from the protein database, and the experimental values were produced by ImageMaster.

^eMascot searched scores (M.S.) against NCBI nr for the MS and [MS/MS] searched results.

^fDatabase accession (gi) numbers according to NCBI nr.

Supplementary Table S3 MS information of ethylene responsive latex proteins by iTRAQ

Protein No. I^a	Un^b Score	Cov.^c 95%	Peptides^d (95%)	Ratio^e E3/D3	Ratio^e E5/D5	Accession species^f	Protein name
2	66.5	67.1	135	0.38	0.57	tr D1M8S7 D1M8S7_HEVBR	Beta-1,3-glucanase
5	58.21	95.4	66	3.25	1.54	sp Q39967 ALL5_HEVBR	Major latex allergen Hev b 5
7	54.77	71.6	105	0.33	0.30	tr Q706V4 Q706V4_HEVBR	Latex allergen hev b 7.02
10	44.55	56.2	49	0.39	0.75	tr E5FR85 E5FR85_MORAL	Actin
11	43.62	38.3	34	1.58	1.42	tr Q71EE1 Q71EE1_HEVBR	Heat shock protein
12	42.03	35.4	37	0.46	0.56	tr Q5VLJ6 Q5VLJ6_HEVBR	50 kDa protein
13	41.88	76	55	0.65	0.45	tr A9ZMZ4 A9ZMZ4_HEVBR	Acetyl-CoA C-acetyltransferase
15	39.75	45.2	55	0.30	0.37	sp Q9LEJ0 ENO1_HEVBR	Enolase 1
17	37.25	65.5	49	0.52	0.30	tr Q9ZSP8 Q9ZSP8_HEVBR	Latex-abundant protein
18	34.69	43.4	22	0.49	0.35	tr Q944G0 Q944G0_HEVBR	Mevalonate diphosphate decarboxylase
19	32.73	46.6	41	0.50	0.77	sp P81406 GAPN_PEA	glyceraldehyde-3-phosphate dehydrogenase
22	31.1	42.7	22	0.19	0.44	tr Q944F8 Q944F8_HEVBR	Hydroxymethylglutaryl CoA synthase
23	30.18	25.5	30	2.17	1.57	tr B9SI90 B9SI90_RICCO	Methyl transferase
24	30.15	42	36	0.31	0.59	tr B9RZR0 B9RZR0_RICCO	ATP-citrate synthase
25	29.94	42.5	31	0.34	0.36	tr B9R8U5 B9R8U5_RICCO	Phosphofructokinase, putative
27	27.55	51.5	17	0.53	0.86	tr F2YZ43 F2YZ43_HEVBR	14-3-3 protein 2
28	27.3	65.4	20	0.38	0.39	tr Q40208 Q40208_LOTJA	RAB2A
30	27.13	90	24	0.33	0.40	tr F8SKC5 F8SKC5_HEVBR	Elicitor-responsive protein
31	27.02	37.6	16	1.60	1.32	tr C6TEK4 C6TEK4_SOYBN	phospholipase D alpha 1
32	27.02	22.7	28	0.63	0.55	tr B9RV56 B9RV56_RICCO	Phospholipase D
33	26.07	64.5	48	0.06	0.28	tr B3FNQ1 B3FNQ1_HEVBR	Peptidyl-prolyl cis-trans isomerase
39	24.89	97.4	54	0.39	0.61	tr Q84T88 Q84T88_HEVBR	Small rubber particle protein
40	24.28	45.2	40	2.07	1.56	tr Q8H9B1 Q8H9B1_9ROSI	eukaryotic translation elongation factor 1
42	24.12	36.8	28	1.87	1.11	tr B9SP64 B9SP64_RICCO	Phosphoglucomutase, putative
43	23.88	22.7	15	0.59	0.70	tr B9S8D6 B9S8D6_RICCO	Trehalose-6-phosphate synthase
49	22.33	12.4	11	1.84	2.19	tr B9I8G4 B9I8G4_POPTR	Exportin-1
50	22.29	26	14	1.51	2.20	tr E9KF95 E9KF95_HEVBR	Invertase 2
53	21.98	15.9	14	0.57	0.62	tr A9NIV2 A9NIV2_MANES	Sucrose synthase
54	21.97	32.8	19	0.31	0.92	tr B9NBW3 B9NBW3_POPTR	Malate dehydrogenase
55	21.39	30.8	18	1.51	1.63	tr B9RSN1 B9RSN1_RICCO	Chaperonin containing t-complex protein 1
57	21.05	24.2	17	3.50	2.24	tr E4MXI2 E4MXI2_THEHA	Luminal binding protein
58	21.05	22.7	12	0.36	0.70	tr B9RM60 B9RM60_RICCO	Glu-fructose-6-phosphate aminotransferase
60	20.86	29.1	28	0.29	0.40	tr B9STR1 B9STR1_RICCO	Leucine aminopeptidase, putative 1
61	20.57	41.2	17	0.63	0.39	tr B9RIY3 B9RIY3_RICCO	Rab GDP dissociation inhibitor
64	19.65	36.3	16	0.60	0.44	tr B9RLK7 B9RLK7_RICCO	Alpha-1,4-glucan-protein synthase
69	18.74	19.2	18	0.58	0.57	tr B9RBP6 B9RBP6_RICCO	Heat shock protein 70
70	18.66	38.1	12	0.52	0.45	tr Q9ZSZ6 Q9ZSZ6_HEVBR	DnaJ protein
71	18.31	33.9	13	0.54	0.63	tr B9RHY3 B9RHY3_RICCO	Phosphoglycerate kinase
73	18.11	13.1	13	0.63	0.52	tr B9SYR5 B9SYR5_RICCO	Alanyl-tRNA synthetase, putative
76	17.33	21.8	9	1.72	1.29	tr B9I5Y4 B9I5Y4_POPTR	T-complex protein 1 subunit theta
77	17.27	42.2	15	2.23	1.96	tr Q8L3U6 Q8L3U6_HEVBR	Cis-prenyl transferase II

80	16.77	39.6	10	0.47	0.72	tr B9S943 B9S943_RICCO	GTP-binding protein ras-like protein
83	16.69	7.1	7	0.23	0.66	tr F6HJZ9 F6HJZ9_VITVI	cullin-associated protein 1
85	16.45	40.7	14	1.71	1.12	tr B9RR89 B9RR89_RICCO	Proteasome subunit alpha type
86	16.41	37.5	8	2.07	1.87	tr C6TKI4 C6TKI4_SOYBN	Proteasome subunit alpha type
87	16.33	16.6	10	0.41	0.26	tr B9R7S8 B9R7S8_RICCO	Glucose-6-phosphate isomerase
89	16.31	19.8	12	2.11	1.37	tr B9S5K6 B9S5K6_RICCO	26S proteasome regulatory subunit
95	16.17	27.3	13	0.47	0.74	tr D2D2Z1 D2D2Z1_GOSHI	UDP-D-glucose pyrophosphorylase
98	15.62	14.3	12	0.61	0.59	tr B9SJV6 B9SJV6_RICCO	Eukaryotic translation initiation factor 2c
99	15.49	11.9	10	1.80	1.49	tr A5AHP0 A5AHP0_VITVI	Coatomer subunit beta
102	15.18	18.4	15	0.42	0.59	tr B9SH99 B9SH99_RICCO	Nucleoredoxin, putative
106	14.96	32.3	13	0.44	0.76	tr B9SIT3 B9SIT3_RICCO	L-lactate dehydrogenase
108	14.87	27.6	10	1.51	1.47	tr A5BEF3 A5BEF3_VITVI	26S proteasome regulatory subunit 4
109	14.75	17.6	10	0.55	0.72	tr B9SS36 B9SS36_RICCO	Chaperonin containing t-complex protein 1
112	14.47	30	13	0.08	0.10	tr B9RXK1 B9RXK1_RICCO	Lactoylglutathione lyase, putative
115	14.31	28.7	9	3.10	1.52	tr B9SN65 B9SN65_RICCO	Glucose 4-6-dehydratase, putative
117	14.13	42.8	7	0.30	0.37	tr A9PFQ6 A9PFQ6_POPTR	Regulator of ribonuclease activity A
119	14.02	22.1	8	0.22	0.28	tr Q547W6 Q547W6_HEVBR	Hydroxymethylglutaryl CoA reductase
122	13.95	13.5	11	0.58	1.19	tr B9II82 B9II82_POPTR	villin-2
125	13.43	11.8	11	0.17	0.40	tr F6HTU8 F6HTU8_VITVI	Cysteine synthase
129	13.13	39.2	7	0.52	0.66	tr C6TGU2 C6TGU2_SOYBN	Proteasome subunit alpha type
131	12.95	31.6	7	2.47	1.62	sp O22518 RSSA_SOYBN	40S ribosomal protein SA
132	12.91	19.8	9	2.27	1.66	tr D2D2Z2 D2D2Z2_GOSHI	UDP-D-glucose dehydrogenase
133	12.91	25.4	9	0.56	0.73	tr Q8L7F4 Q8L7F4_HEVBR	Farnesyl diphosphate synthase
134	12.79	27.6	9	0.21	0.77	tr F6HPS0 F6HPS0_VITVI	Serine/threonine-protein phosphatase
135	12.78	18.2	12	0.63	1.20	tr B9RCK2 B9RCK2_RICCO	Calcium-dependent protein kinase
136	12.7	18.5	6	0.64	0.79	tr D7TKK5 D7TKK5_VITVI	obg-like ATPase 1
138	12.64	19.3	9	0.46	0.69	tr D7SUQ2 D7SUQ2_VITVI	GTP-binding nuclear protein Ran-3
141	12.36	27	10	0.55	0.47	tr D7SUD7 D7SUD7_VITVI	Aspartate aminotransferase
145	12.21	34.9	15	0.29	0.38	sp Q39962 CBPR_HEVBR	Citrate-binding protein
148	12	61.8	41	0.55	0.66	tr A9ZMZ5 A9ZMZ5_HEVBR	Acetyl-CoA C-acetyltransferase
150	11.87	29.8	10	2.40	1.42	sp Q39963 PDX1_HEVBR	Pyridoxal biosynthesis protein PDX1
151	11.81	27.5	9	1.75	1.51	tr B9RC03 B9RC03_RICCO	NAD dependent epimerase/dehydratase
152	11.77	50	23	0.61	0.63	tr B1NDK1 B1NDK1_9ERIC	Calmodulin
160	11.38	20.7	7	0.44	0.62	tr B9RAM4 B9RAM4_RICCO	26S proteasome non-atpase
161	11.37	21.3	22	0.31	0.42	tr Q6XNP8 Q6XNP8_HEVBR	Abscisic acid stress ripening-related protein
167	11.12	18	7	10.47	2.51	tr C7B9C0 C7B9C0_RICCO	Myo-inositol-1-phosphate synthase
168	10.98	22.2	11	0.45	0.64	tr B9SZU0 B9SZU0_RICCO	Catalytic, putative
169	10.97	15.2	5	1.53	1.66	tr B9SWY5 B9SWY5_RICCO	Proliferation-associated 2g4
170	10.95	26.1	12	0.30	0.52	tr B9SVA7 B9SVA7_RICCO	Aspartic proteinase, putative
175	10.83	33.5	8	0.08	0.59	tr Q6J6I5 Q6J6I5_HEVBR	Phosphoglyceride transfer protein
182	10.63	15.2	10	1.75	1.24	tr B9RYE9 B9RYE9_RICCO	Polyadenylate-binding protein,
186	10.47	29	7	1.60	1.41	tr B9SPS6 B9SPS6_RICCO	Proteasome subunit beta type
187	10.45	42.2	8	0.52	0.70	tr B9GTP5 B9GTP5_POPTR	ras-related protein RABC1 isoform
188	10.41	17.3	7	7.52	1.63	sp P29685 ATPBM_HEVBR	ATP synthase subunit beta

191	10.38	7	5	0.58	0.60	tr B9RUL1 B9RUL1_RICCO	Acid phosphatase, putative
195	10.23	4.2	5	5.50	2.29	tr B9RN01 B9RN01_RICCO	Putative uncharacterized protein
197	10.18	24.9	10	0.55	0.59	tr B9SIC4 B9SIC4_RICCO	chitinase Class I, putative
198	10.16	20.1	9	0.52	0.31	tr B9RTJ4 B9RTJ4_RICCO	Stem-specific protein TSJT1SV=1
204	9.98	21.7	9	1.85	1.56	tr A9PFJ7 A9PFJ7_POPTR	Pyruvate kinase
205	9.88	66.3	40	0.66	0.75	tr F8RW92 F8RW92_HEVBR	Peptidyl-prolyl cis-trans isomerase
208	9.79	6.4	6	3.31	2.11	tr B9T1E9 B9T1E9_RICCO	Importin beta-3, putative
210	9.66	31.3	12	1.67	1.53	tr Q2XPH2 Q2XPH2_MANIN	Profilin
212	9.6	37.5	7	0.35	0.72	tr Q8GZP2 Q8GZP2_HEVBR	Superoxide dismutase [Cu-Zn]
213	9.57	13.9	8	0.66	0.53	tr B9RKX9 B9RKX9_RICCO	Seryl-tRNA synthetase, putative
216	9.47	18.8	21	0.36	0.77	tr B9GH43 B9GH43_POPTR	Phospholipase D
219	9.44	47.7	12	0.65	0.66	tr F2YZ44 F2YZ44_HEVBR	14-3-3 protein 3
220	9.44	19.2	6	0.61	0.63	tr Q14VV8 Q14VV8_BOENI	Caffeic acid O-methyltransferase
221	9.34	35.3	10	0.28	0.53	tr D2JWP4 D2JWP4_POPDE	Pathogenesis-related thaumatin
224	9.24	32.6	7	0.52	0.61	tr D2WL72 D2WL72_POPTR	Glutathione transferase
226	9.2	32.7	26	0.57	0.52	tr E8Z9H3 E8Z9H3_HEVBR	Latex cystatin
227	9.17	40.6	14	0.17	0.40	tr F2VXU6 F2VXU6_HEVBR	Rab4
230	9.12	14.9	7	0.54	0.62	tr B9H8X6 B9H8X6_POPTR	6-phosphofructokinase 3
241	8.78	35.9	6	0.40	0.58	tr D6BR55 D6BR55_9ROSI	Acyl-CoA-binding protein
242	8.71	61.9	13	0.58	0.58	tr D9I9X9 D9I9X9_HEVBR	Actin-depolymerizing factor
244	8.65	23.3	6	1.61	1.50	tr B9R7X1 B9R7X1_RICCO	Proteasome subunit alpha type
245	8.65	41.8	7	0.65	0.70	tr F8RWS9 F8RWS9_HEVBR	ubiquitin-protein ligase 1
246	8.6	12.1	6	1.79	0.69	tr B9HR67 B9HR67_POPTR	Plant synaptotagmin
247	8.57	6.7	4	2.03	1.66	tr B9SE11 B9SE11_RICCO	Delta 1-pyrroline-5-carboxylate synthetase
248	8.56	16.7	6	0.34	0.50	tr F6HNF4 F6HNF4_VITVI	adenosine kinase 2
256	8.36	19.2	6	0.66	0.75	tr B9HJ73 B9HJ73_POPTR	Fructose-bisphosphate aldolase
261	8.15	14.2	8	0.53	0.96	tr B9RKG2 B9RKG2_RICCO	Arginyl-tRNA synthetase, putative
262	8.15	10.3	5	0.20	0.65	tr E2DQG6 E2DQG6_MANES	Carotenoid cleavage dioxygenase 1
264	8.09	43	5	0.28	0.31	tr B3FNP8 B3FNP8_HEVBR	Glutaredoxin
266	8.05	42	8	0.46	0.58	tr B9T509 B9T509_RICCO	ras-related protein RABA3
267	8.02	29	6	0.39	0.12	tr B9RKM9 B9RKM9_RICCO	Peroxiredoxin, putative
268	8	9.3	4	1.53	1.67	tr B9S6T7 B9S6T7_RICCO	Ubiquilin, putative
269	7.99	7.5	5	0.61	0.57	tr B9IGY9 B9IGY9_POPTR	2,3-bisphosphoglycerate mutase
278	7.82	20.6	10	0.58	0.62	tr B9SXW5 B9SXW5_RICCO	26S proteasome non-atpase
279	7.78	14.4	7	0.47	0.67	tr B9GXV5 B9GXV5_POPTR	FAS-associated factor 2
280	7.72	3.6	5	0.34	0.50	tr B9RRX1 B9RRX1_RICCO	Putative uncharacterized protein
281	7.7	12.3	5	3.25	0.90	tr B9SR96 B9SR96_RICCO	Glutamate decarboxylase, putative
284	7.66	15	5	0.38	1.00	tr B2Z6Q5 B2Z6Q5_POPTR	hydroxycinnamoyltransferase
289	7.53	7.3	6	1.50	1.39	tr B9SCN8 B9SCN8_RICCO	Eukaryotic translation initiation factor 2c
290	7.51	21.9	22	0.66	1.37	tr O04975 O04975_MESCR	Fructose-bisphosphate aldolase
293	7.44	18.2	5	0.11	0.68	tr B9S3Y6 B9S3Y6_RICCO	Nuclear protein localization
297	7.32	21.9	5	0.50	0.64	tr B9S228 B9S228_RICCO	Nucleic acid binding protein
299	7.28	28.7	9	1.57	0.84	tr B9HUT6 B9HUT6_POPTR	Proteasome subunit beta type
306	7.1	12.1	5	2.78	1.59	tr B9HIC5 B9HIC5_POPTR	differentiation associated protein

310	7.05	18.2	4	1.51	1.12	tr B9RIC4 B9RIC4_RICCO	40S ribosomal protein S2, putative
314	6.98	13.9	4	0.47	0.52	tr A9PEP6 A9PEP6_POPTR	DNA damage-inducible protein
315	6.98	5	4	0.44	0.60	tr F6H158 F6H158_VITVI	Putative uncharacterized protein
321	6.86	6.5	3	1.80	1.08	tr B9SG36 B9SG36_RICCO	Ubiquitin-protein ligase, putative
322	6.86	20.2	7	0.44	2.25	tr B9GXZ6 B9GXZ6_POPTR	alanine aminotransferase
324	6.85	19.6	5	0.51	0.71	tr A5AQP2 A5AQP2_VITVI	ATP-citrate synthase alpha chain
327	6.81	33.3	36	0.65	0.70	tr B2MW33 B2MW33_HEVBR	Heat shock protein 70
328	6.77	17.7	5	0.32	2.32	tr B9SCD6 B9SCD6_RICCO	Esterase D, putative
329	6.77	30.3	6	0.23	0.75	tr B9H2B8 B9H2B8_POPTR	Predicted protein
335	6.7	24.3	7	0.37	0.53	tr B9RLJ0 B9RLJ0_RICCO	L-asparaginase, putative
338	6.66	12.1	4	0.61	1.26	tr B9HLM0 B9HLM0_POPTR	Chorismate synthase
343	6.6	17.6	4	2.09	0.82	tr B9SKG4 B9SKG4_RICCO	40S ribosomal protein S11, putative
345	6.54	6.8	4	0.33	1.27	tr E6NU17 E6NU17_9ROSI	JHL07K02.17 protein
348	6.52	7	4	31.33	2.51	tr B9SUE9 B9SUE9_RICCO	Hydrolase, O-glycosyl compounds
349	6.51	31.9	4	2.42	1.28	tr B9SWB0 B9SWB0_RICCO	60S ribosomal protein L12, putative
350	6.49	14.7	4	0.48	0.84	tr B9HG22 B9HG22_POPTR	GTP-binding protein
351	6.48	37.8	14	0.39	0.72	tr A9ZN23 A9ZN23_HEVBR	Cis-prenyl transferase
355	6.46	22.7	3	2.27	0.86	tr B9S120 B9S120_RICCO	40S ribosomal protein S14, putative
357	6.44	64	14	0.51	1.17	tr Q6T708 Q6T708_HEVBR	Rubber elongation factor
364	6.34	13.9	5	0.60	0.62	tr Q9ZTT8 Q9ZTT8_GOSHI	Chitinase, Class I
366	6.31	67.1	9	2.78	1.56	tr B3FNP9 B3FNP9_HEVBR	Protease inhibitor protein
369	6.2	51.7	17	2.61	1.12	tr A9P8X5 A9P8X5_POPTR	Ras-related protein RABB1b
370	6.18	11.2	7	1.64	1.17	tr F6HGX0 F6HGX0_VITVI	Asparaginyl-tRNA synthetase
371	6.18	17.6	5	0.63	1.25	tr O24328 O24328_RICCO	S-adenosyl-methionine hyltransferase
372	6.14	8.1	3	2.31	2.14	tr F6HQV3 F6HQV3_VITVI	60S ribosomal protein L4
373	6.14	13.6	3	0.28	0.31	tr B9SE47 B9SE47_RICCO	Malate dehydrogenase
374	6.12	18.5	7	0.09	0.29	tr B9SUZ4 B9SUZ4_RICCO	Alcohol dehydrogenase
375	6.11	17.5	14	0.39	0.51	tr G3G858 G3G858_CAMSI	Methionine synthase
382	6.03	24.2	4	1.71	1.47	tr B9SA27 B9SA27_RICCO	Trafficking protein particle complex subunit
383	6.02	9.9	3	0.50	0.58	tr Q5J3P0 Q5J3P0_MALDO	Sucrose phosphate phosphatase
386	6	19.1	3	2.19	1.74	tr B9RYZ1 B9RYZ1_RICCO	60S ribosomal protein L9
389	6	6.5	3	6.19	1.20	tr B9IBL7 B9IBL7_POPTR	Predicted protein
390	5.99	18	7	0.39	0.71	tr F6I510 F6I510_VITVI	Putative uncharacterized protein
391	5.98	11.8	5	0.54	1.06	tr B9IER7 B9IER7_POPTR	Carbonic anhydrase
392	5.95	7.6	4	5.06	1.78	tr B9SN36 B9SN36_RICCO	Protein SEY1;root hair defective 3
395	5.85	17.4	3	1.75	1.46	tr B9SU88 B9SU88_RICCO	Receptor for activated protein kinase
401	5.79	22.9	4	1.61	3.14	tr G0YC94 G0YC94_9ROSI	Fumarylacetoacetate hydrolase
408	5.72	65.7	8	1.51	1.34	sp Q6XNP7 HPI_HEVBR	Protease inhibitor
409	5.7	13.6	8	0.58	0.50	tr B9T5Y1 B9T5Y1_RICCO	bisphosphate phosphodiesterase
410	5.68	8.9	4	2.29	2.13	tr B9GU26 B9GU26_POPTR	Protein disulfide isomerase, putative
412	5.65	8.4	4	3.16	1.62	tr F6HLF4 F6HLF4_VITVI	DEAD-box ATP-dependent RNA helicase
413	5.62	15.1	3	0.64	1.24	tr B9A9C9 B9A9C9_MORAL	Urease accessory protein ureG
414	5.61	7.9	3	0.41	1.27	tr B9N3J3 B9N3J3_POPTR	Predicted protein
419	5.57	11.9	2	0.41	0.73	tr B9IJM2 B9IJM2_POPTR	Predicted protein

422	5.53	43.4	9	0.25	0.39	tr Q94KV2 Q94KV2_MANES	Aspartic protease
424	5.45	43.5	31	3.02	2.08	tr B9HV14 B9HV14_POPTR	Vacuolar H ⁺ -ATPase catalytic subunit A
426	5.44	42.9	55	0.41	0.51	sp Q9LEI9 ENO2_HEVBR	Enolase 2
429	5.42	8.3	4	0.43	0.58	tr C6TFR0 C6TFR0_SOYBN	alpha-galactosidase-like isoform 1
436	5.37	7.2	3	0.65	1.35	tr Q6S9W9 Q6S9W9_GOSHI	Betaine-aldehyde dehydrogenase
437	5.35	12.4	5	0.45	0.61	tr B9SPZ1 B9SPZ1_RICCO	2-hydroxyphytanoyl-CoA lyase
439	5.34	9.4	5	2.58	2.14	sp Q38871 CDPK5_ARATH	Calcium-dependent protein kinase 5
441	5.34	8	6	0.10	0.39	tr B9SX16 B9SX16_RICCO	acetylglucosamine transferase
447	5.22	16.1	4	0.21	0.17	tr D7TLU7 D7TLU7_VITVI	Triosephosphate isomerase
448	5.22	17.3	4	9.73	2.08	tr B9RUZ3 B9RUZ3_RICCO	Serine-threonine kinase receptor
449	5.22	21.7	3	1.56	1.71	tr A9PGL4 A9PGL4_POPTR	40S ribosomal protein
453	5.19	20.4	5	0.38	0.53	tr B9MU39 B9MU39_POPTR	quinone oxidoreductase, putative
456	5.16	59.1	79	0.13	0.65	tr Q7XJ83 Q7XJ83_HEVBR	Beta-1,3-glucanase
459	5.11	38.7	34	0.47	0.54	tr B9HIN6 B9HIN6_POPTR	ATP-citrate synthase beta chain
467	4.99	7.7	3	1.58	1.11	tr D7U7I9 D7U7I9_VITVI	COP9 signalosome complex 1
475	4.89	5.6	2	0.60	0.64	tr B9RF45 B9RF45_RICCO	Amidase, putative
478	4.86	5.2	3	0.52	1.06	tr B9SBV7 B9SBV7_RICCO	Ligatin, putative
481	4.82	5.9	2	3.40	1.38	tr B9RMR2 B9RMR2_RICCO	Steroid dehydrogenase, putative
482	4.81	11.6	5	0.61	0.56	tr B9SGQ4 B9SGQ4_RICCO	Importin alpha-2 subunit, putative
485	4.79	8.8	4	0.58	0.72	tr B9HRN7 B9HRN7_POPTR	Adenylyl cyclase-associated protein
487	4.74	10.6	2	0.66	0.89	tr B9RF46 B9RF46_RICCO	Mevalonate kinase, putative
498	4.69	30.4	34	0.10	0.44	tr B6EBD6 B6EBD6_SOYBN	Heat shock protein 90-2
503	4.65	4.9	2	0.60	0.69	tr A9PF66 A9PF66_POPTR	isoflavone reductase related protein
504	4.65	13.2	3	0.44	0.57	tr Q9STB5 Q9STB5_HEVBR	Superoxide dismutase
506	4.63	16.6	7	0.63	0.70	tr C6TIP9 C6TIP9_SOYBN	Cysteine synthase
510	4.59	15.8	15	1.54	1.43	tr B9T216 B9T216_RICCO	Fimbrin, putative
511	4.59	5.2	2	0.26	1.11	tr B9HMM6 B9HMM6_POPTR	Folylpolyglutamate synthase
512	4.58	5.5	6	1.61	1.52	tr B9S596 B9S596_RICCO	Myosin XI, putative
514	4.58	4.5	3	0.29	0.25	tr A5C5R6 A5C5R6_VITVI	Cinnamyl alcohol dehydrogenase 1
516	4.57	12.2	5	0.14	0.57	tr B9S1F8 B9S1F8_RICCO	Acetylornithine deacetylase
520	4.51	5.6	5	0.38	0.57	tr B9SUT5 B9SUT5_RICCO	Isoleucyl tRNA synthetase, putative
533	4.37	9.8	2	0.31	0.21	tr D7LDD9 D7LDD9_ARALL	3R-hydroxymyristoyl ACP dehydrase
534	4.35	20	10	0.23	0.36	tr B9RHV9 B9RHV9_RICCO	Glyceraldehyde 3-phosphate dehydrogenase
536	4.35	12.9	5	0.22	0.55	tr B5M1W3 B5M1W3_RHEAU	Glutathione-S-transferase
547	4.31	15.8	8	15.42	3.93	tr Q9M563 Q9M563_VITVI	Beta-1,3-glucanase
549	4.3	17.7	5	0.18	2.47	tr B9HFG8 B9HFG8_POPTR	annexin1
550	4.3	8.2	3	0.61	0.39	tr B9SS35 B9SS35_RICCO	Argininosuccinate synthase, putative
552	4.28	9.2	4	0.13	0.25	tr Q5PYQ3 Q5PYQ3_MANES	Glycerophosphodiester phosphodiesterase
556	4.24	7.6	3	0.61	0.68	tr B9SL55 B9SL55_RICCO	DNA-binding protein smubp-2
561	4.21	5.1	2	1.67	1.63	tr B9I337 B9I337_POPTR	transportin, putative
562	4.21	17.7	3	1.60	1.65	tr B9HYZ8 B9HYZ8_POPTR	vacuolar protein sorting-associated protein
563	4.2	16	7	0.29	0.42	tr B9SFR8 B9SFR8_RICCO	Aspartic proteinase, putative
567	4.17	50.4	7	0.65	1.98	sp O65812 PROF1_HEVBR	Profilin-1
572	4.15	7.5	2	7.45	2.63	tr Q307Z8 Q307Z8_SOLTU	ribosomal protein-like

578	4.13	45.4	5	0.65	0.52	tr D4P094 D4P094_HEVBR	Copper transport protein ATOX1
580	4.12	10.2	4	0.60	2.02	tr C6TIG8 C6TIG8_SOYBN	auxin-induced protein PCNT115
584	4.09	14	2	0.64	1.17	tr B9IPT2 B9IPT2_POPTR	FH protein interacting protein
592	4.05	8.7	2	1.71	1.69	tr B9MUU5 B9MUU5_POPTR	Vesicle-associated protein 1
596	4.05	12.9	4	0.52	0.30	tr B9SJL8 B9SJL8_RICCO	Protease C56, putative
602	4.04	7.3	2	2.31	1.96	sp O04373 ILL4_ARATH	IAA-amino acid hydrolase ILR1-like 4
605	4.03	8.3	4	0.48	0.56	tr B9SC09 B9SC09_RICCO	Putative uncharacterized protein
606	4.03	4.1	4	0.21	0.39	tr Q9LUL3 Q9LUL3_ARATH	Lipase class 3 family protein
610	4.02	15.2	6	1.91	1.58	tr D7SXZ2 D7SXZ2_VITVI	dehydrogenase/reductase
612	4.01	23.6	3	0.52	0.27	sp O64459 UGPA_PYRPY	UTP-phosphate uridylyltransferase
613	4.01	13.1	12	0.24	0.21	tr Q7Y237 Q7Y237_EUOEU	Chitinase
618	4	64.6	79	0.60	0.33	tr Q6JYQ9 Q6JYQ9_HEVBR	HEV1.2
625	4	14.1	6	0.65	1.05	tr B9ST42 B9ST42_RICCO	Pyruvate kinase
628	4	8.4	3	0.22	0.22	tr B9GFV7 B9GFV7_POPTR	TBC1 domain family member 13
631	4	29.9	2	3.05	2.04	tr F4YFE3 F4YFE3_CAMSI	Cytochrome b5
634	4	5.7	2	0.46	1.44	tr C6TGB0 C6TGB0_SOYBN	Putative uncharacterized protein
643	4	32.8	4	0.30	1.26	tr D9IZZ6 D9IZZ6_HEVBR	Translation machinery-associated protein 7
648	3.96	10.8	2	0.22	0.59	tr D7SIZ7 D7SIZ7_VITVI	20 kDa chaperonin, chloroplastic
650	3.95	16.5	3	11.48	2.11	tr D1ML39 D1ML39_9ROSI	Ribosomal protein
651	3.94	9.3	3	3.40	2.06	tr B9RDG1 B9RDG1_RICCO	Calcium lipid binding protein
653	3.92	8.3	4	0.13	0.70	sp Q9FK25 OMT1_ARATH	Quercetin 3-O-methyltransferase 1
666	3.83	44.6	37	0.24	0.99	tr D7U1A1 D7U1A1_VITVI	glyceraldehyde-3-phosphate dehydrogenase
668	3.82	13.7	9	0.50	1.13	tr Q8GZD8 Q8GZD8_SOLLC	aminopeptidase preprotein
680	3.74	14.4	4	9.46	2.53	tr E0CPI5 E0CPI5_VITVI	hydrolase domain-containing protein
683	3.7	26.6	8	3.31	2.04	tr D7SN69 D7SN69_VITVI	bifunctional polymyxin resistance protein
687	3.68	21.5	2	1.69	1.53	tr B8Y6I1 B8Y6I1_HEVBR	V-type proton ATPase subunit F
688	3.66	8	3	0.54	0.47	tr E0CRW7 E0CRW7_VITVI	argininosuccinate lyase
692	3.63	7	3	0.09	0.19	tr B9RXB8 B9RXB8_RICCO	Homogentisate 1,2-dioxygenase
694	3.61	8.2	2	0.48	0.67	tr B9SQS5 B9SQS5_RICCO	3-isopropylmalate dehydratase
700	3.54	15.2	5	0.61	0.87	tr B9RAR0 B9RAR0_RICCO	Protein-L-isoaspartate O-methyltransferase
703	3.53	19.8	3	1.50	1.34	tr D5JG84 D5JG84_9ROSI	Heat shock protein 17.5 class II
704	3.52	3	2	0.10	0.35	tr D7T494 D7T494_VITVI	Putative uncharacterized protein
708	3.46	6.5	4	16.00	3.72	tr B9T139 B9T139_RICCO	Hydrolase
710	3.44	17.3	6	0.55	0.61	tr B9N432 B9N432_POPTR	ATP-citrate synthase, putative
713	3.44	7.6	2	12.13	2.13	tr B9RWM3 B9RWM3_RICCO	Potassium channel beta, putative
714	3.43	11.2	3	0.59	0.68	tr Q5EBY6 Q5EBY6_EUPCH	Aldehyde dehydrogenase family 7
716	3.43	20.1	7	0.23	0.48	tr B9R7W5 B9R7W5_RICCO	Isoflavone reductase, putative
717	3.42	10.9	7	0.61	0.79	tr B9GZ19 B9GZ19_POPTR	glycine-tRNA ligase 1
718	3.42	20.4	2	2.07	0.91	tr B9RH67 B9RH67_RICCO	40S ribosomal protein S25-1
720	3.4	15.1	26	1.63	1.20	tr A5ACP0 A5ACP0_VITVI	clathrin heavy chain 1
723	3.4	100	4	0.11	0.58	sp P86104 UP01_VITRO	Unknown protein 1
729	3.37	16.8	19	0.62	1.09	tr B9RQ33 B9RQ33_RICCO	5-methyl-homocysteine methyltransferase
732	3.37	8.5	2	4.02	11.62	tr B9T676 B9T676_RICCO	Catalytic, putative

735	3.34	3.4	2	1.71	1.29	tr D7T8E1 D7T8E1_VITVI	Phagocytic receptor 1b
738	3.33	6.1	2	0.43	0.25	tr B9RLT7 B9RLT7_RICCO	Dimethylaniline monooxygenase
740	3.31	6.8	6	0.19	0.38	tr Q8VZH2 Q8VZH2_ARATH	Aminopeptidase M1
743	3.29	2.3	2	2.11	1.19	tr B9SDH3 B9SDH3_RICCO	Cytochrome P450, putative
744	3.29	6.8	2	1.61	2.01	tr F6HIY1 F6HIY1_VITVI	cytochrome b5 reductase 1-like
746	3.29	11.3	2	0.62	0.41	tr Q38HT5 Q38HT5_SOLTU	40S ribosomal protein S23
757	3.24	7.1	2	1.94	2.65	tr A9PDL9 A9PDL9_POPTR	Very-long-chain enoyl-CoA reductase
758	3.22	6.4	3	0.52	1.67	tr B9RRB9 B9RRB9_RICCO	Suppression of tumorigenicity
759	3.22	7.1	2	2.49	1.56	tr B9SEA1 B9SEA1_RICCO	Peroxidase 12, putative
760	3.21	25	21	1.63	1.51	tr F6H4T7 F6H4T7_VITVI	elongation factor 2-like
763	3.19	5.9	2	0.58	1.02	tr E9M776 E9M776_HEVBR	Cinnamoyl-CoA reductase
771	3.09	5.7	2	0.58	0.52	tr B0LUS9 B0LUS9_TOBAC	Multicopy suppressor
772	3.06	5.5	3	0.13	0.57	tr B9IEZ0 B9IEZ0_POPTR	ubiquitin domain-containing protein
774	3.05	2.5	2	1.96	2.06	tr B9SYU2 B9SYU2_RICCO	Vacuolar sorting protein
778	3.04	4.2	2	0.19	0.54	tr A9PEK1 A9PEK1_POPTR	Phosphoglycerate dehydrogenase
779	3.03	8.6	6	0.27	0.32	tr D7MNN8 D7MNN8_ARALL	Sucrose synthase
780	3.03	2.4	2	2.01	1.67	tr B9HPP7 B9HPP7_POPTR	Calcium ATPase
782	3.02	6.4	2	0.54	0.27	sp Q9M9E9 SRK2C_ARATH	Serine/threonine-protein kinase
783	3.02	4.5	2	0.62	0.38	tr B9T5L2 B9T5L2_RICCO	Nonsense-mediated mRNA decay protein
784	3	15.9	4	1.64	1.77	tr B9RTH6 B9RTH6_RICCO	ADP-ribosylation factor
789	2.98	10.3	3	0.10	0.14	tr B9R730 B9R730_RICCO	Putative uncharacterized protein
790	2.98	3.6	3	0.48	1.16	sp Q2XPU6 CAS1_RICCO	Cycloartenol synthase
794	2.95	23	10	0.24	0.19	tr F6H7L5 F6H7L5_VITVI	Lactoylglutathione lyase
799	2.93	2.2	2	0.55	2.21	tr A5BG74 A5BG74_VITVI	protein argonaute 4A-like
801	2.92	26	10	1.60	0.96	sp Q9AT56 METK1_ELAUM	S-adenosylmethionine synthase 1
807	2.9	13.4	3	1.51	0.33	tr B9SS61 B9SS61_RICCO	60S ribosomal protein L14
808	2.9	25.2	2	0.08	0.30	tr B9IJS4 B9IJS4_POPTR	Thioredoxin
813	2.87	19.8	4	1.77	2.51	tr B9IEB2 B9IEB2_POPTR	Ras-related protein RABA6b
817	2.85	65.7	63	0.62	0.34	sp P02877 HEVE_HEVBR	Pro-hevein OS=Hevea brasiliensis
819	2.84	14.3	5	1.96	1.18	tr Q66PF9 Q66PF9_PEA	Monodehydroascorbate reductase I
825	2.81	11.8	6	1.72	1.18	tr F6HHF5 F6HHF5_VITVI	eukaryotic initiation factor 4A-3
827	2.81	7.7	2	0.31	0.35	tr B9IAZ4 B9IAZ4_POPTR	Ribosomal protein L5A, 60S
828	2.81	13.3	2	1.75	0.48	tr C6SZQ3 C6SZQ3_SOYBN	60S ribosomal protein L23A
832	2.78	3.5	2	2.21	1.97	tr B9GSW4 B9GSW4_POPTR	Long chain acyl-CoA synthetase 1
835	2.77	8.1	2	1.51	1.02	tr B9T7A3 B9T7A3_RICCO	Ubiquitin carboxyl-terminal hydrolase
838	2.76	6	2	0.63	1.29	tr D7LLA4 D7LLA4_ARALL	Tubulin beta-7 chain
839	2.75	6.8	4	1.77	0.98	tr B9RSG5 B9RSG5_RICCO	Dipeptidyl peptidase IV
840	2.75	16.7	3	0.38	1.15	tr B9S069 B9S069_RICCO	Glutathione-s-transferase theta
844	2.72	16.4	4	0.61	0.51	tr B9S7R8 B9S7R8_RICCO	Pyridoxine kinase, putative
845	2.72	8.4	5	0.21	0.18	tr B9H6S4 B9H6S4_POPTR	rhamnogalacturonate lyase
864	2.65	9.4	4	0.62	0.98	tr B9RZ84 B9RZ84_RICCO	Glutaredoxin, grx, putative
868	2.65	23.5	3	0.54	0.47	tr D7TK03 D7TK03_VITVI	programmed cell death protein 5
869	2.64	5.7	3	0.30	0.34	tr A5BDT4 A5BDT4_VITVI	14 kDa zinc-binding protein
870	2.64	7.2	2	0.53	2.38	sp B9SL58 PURA2_RICCO	Adenylosuccinate synthetase 2

871	2.63	11	3	2.68	0.54	tr B9SGS2 B9SGS2_RICCO	60S ribosomal protein L4
879	2.61	30.2	23	0.30	1.01	tr B9H5X2 B9H5X2_POPTR	Phosphofructokinase
885	2.61	15.3	3	1.77	0.79	tr E9JFW4 E9JFW4_9ROSI	Thioredoxin
886	2.6	8.9	2	0.64	0.97	tr A5BVN4 A5BVN4_VITVI	Nucleoside diphosphate kinase
888	2.59	10	2	7.31	2.19	tr B9RTJ5 B9RTJ5_RICCO	Coated vesicle membrane protein
900	2.53	15.9	2	0.47	0.24	tr B9MT66 B9MT66_POPTR	Glutathione transferase GSTL3
903	2.53	11.9	3	0.46	0.22	tr Q9S7R3 Q9S7R3_ARATH	177 protein
904	2.53	7.2	2	2.36	1.50	tr G1ED19 G1ED19_GOSHI	Protein disulfide isomerase
905	2.52	9.1	3	0.35	0.16	tr O49235 O49235_SOYBN	Glutathione S-transferase
907	2.5	19.1	10	0.59	1.07	tr B7FKU7 B7FKU7_MEDTR	Cysteine synthase
914	2.48	3.5	2	1.89	1.96	tr D7KNJ9 D7KNJ9_ARALL	trehalose-phosphate synthase
921	2.45	6.2	3	0.27	0.99	tr B9SGK0 B9SGK0_RICCO	Adaptin ear-binding coat-associated protein
929	2.41	6.6	2	0.61	0.29	tr B9T8C2 B9T8C2_RICCO	Putative uncharacterized protein
938	2.37	15.9	2	2.27	2.11	tr D6BRD9 D6BRD9_9ROSI	Glutathione-s-transferase theta
944	2.35	28.2	20	0.52	0.22	tr D7LJ40 D7LJ40_ARALL	Fructose-bisphosphate aldolase
945	2.35	5.9	3	0.20	0.47	tr B9ICR4 B9ICR4_POPTR	coatomer subunit delta
948	2.34	8.2	4	0.40	0.54	tr B9H0Q2 B9H0Q2_POPTR	Adenylyl cyclase-associated protein
949	2.34	6.7	5	0.09	0.37	sp P51074 ANX4_FRAAN	Annexin-like protein RJ4
952	2.33	23.5	18	0.47	0.33	tr Q2WFK8 Q2WFK8_9ASTR	Fructose-bisphosphate aldolase
975	2.28	14.7	2	1.77	2.07	tr B9H5H4 B9H5H4_POPTR	dolichol-phosphate mannosyltransferase
981	2.26	9.5	3	0.61	1.05	tr B9H739 B9H739_POPTR	Predicted protein
982	2.25	11.6	13	0.29	0.24	tr Q533V0 Q533V0_FRAAN	Phospholipase D
990	2.23	7.3	5	0.59	1.25	tr B9ILT5 B9ILT5_POPTR	Malic enzyme
993	2.23	6.9	2	2.91	0.86	tr B9RA70 B9RA70_RICCO	Signal recognition particle 68 kDa protein
1002	2.2	5.2	2	6.19	3.09	tr B9SD61 B9SD61_RICCO	Hydrolase; Leukotriene hydrolase
1008	2.19	5.9	2	5.06	1.54	tr B7FM77 B7FM77_MEDTR	Alanine aminotransferase
1016	2.18	33.2	7	0.35	1.21	sp Q40521 RB11B_TOBAC	Ras-related protein Rab11B
1019	2.17	12.2	2	1.67	0.30	tr A5BV59 A5BV59_VITVI	guanine nucleotide-binding protein
1026	2.15	3.4	2	2.38	1.60	tr B9T6N8 B9T6N8_RICCO	Indole-3-acetic acid-amido synthetase
1029	2.15	11.9	2	1.66	1.74	tr B9N7F9 B9N7F9_POPTR	Vesicle transport protein-lik
1030	2.14	10	5	0.27	0.38	tr A9PCM5 A9PCM5_POPTR	Proteasome subunit alpha type
1037	2.13	18.7	8	0.28	0.22	tr B9GTA1 B9GTA1_POPTR	Aminoacyl-tRNA synthetase
1044	2.12	6.9	3	0.60	1.09	tr D7TMA3 D7TMA3_VITVI	Chorismate synthase
1049	2.12	3.8	5	0.47	1.01	tr F6HLA1 F6HLA1_VITVI	pantothenate kinase
1051	2.11	4.7	4	0.60	0.93	tr A9Z0V7 A9Z0V7_ROSDA	Carotenoid cleavage dioxygenase 1
1059	2.1	11.6	3	0.56	0.75	tr B9R8F0 B9R8F0_RICCO	Nucleoredoxin, putative
1062	2.09	11.2	2	0.65	1.15	tr B9SS56 B9SS56_RICCO	Structural molecule, putative
1065	2.08	8.7	4	1.66	2.75	tr Q6TKR0 Q6TKR0_TOBAC	Ribosomal protein L3A
1066	2.08	8.1	4	2.21	0.92	tr Q94KK8 Q94KK8_TOBAC	Glutamate decarboxylase isozyme 3
1067	2.08	4.6	5	0.59	0.41	tr F8WL79 F8WL79_CITUN	Aminopeptidase
1071	2.07	14.8	13	0.16	0.28	tr D7SIX7 D7SIX7_VITVI	serine/threonine-protein phosphatase
1072	2.07	6.5	4	0.42	1.36	tr B3TZ27 B3TZ27_RICCO	Long-chain acyl-CoA synthetase 4
1081	2.06	27.4	19	0.28	0.62	tr F6HZK0 F6HZK0_VITVI	Malate dehydrogenase
1082	2.06	8	2	2.05	1.06	tr B9IF79 B9IF79_POPTR	Aspartyl aminopeptidase

1085	2.06	7.6	4	1.58	1.04	tr Q9M835 Q9M835_ARATH	L-allo-threonine aldolase, putative
1120	2.03	10.2	8	0.60	4.17	tr D1MAF2 D1MAF2_SOLLC	Exportin-1
1121	2.03	25.7	7	2.13	0.82	tr B9SR17 B9SR17_RICCO	Glucose 4-6-dehydratase, putative
1130	2.03	23.3	4	0.42	0.88	tr Q8LCK3 Q8LCK3_ARATH	copper transport protein
1136	2.02	3	2	0.51	1.13	tr Q9SJT7 Q9SJT7_ARATH	V-type H ⁺ -transporting ATPase subunit I
1137	2.02	26.2	8	0.61	0.53	tr B9IF97 B9IF97_POPTR	Translation elongation factor
1155	2.01	8.5	5	11.07	3.94	tr B9HA87 B9HA87_POPTR	Galactinol-sucrose galactosyltransferase
1157	2.01	3.8	2	1.60	1.63	tr D7SS21 D7SS21_VITVI	Pyrophosphate-energized membrane proton
1171	2	33.9	18	0.61	0.22	tr C0LDX2 C0LDX2_9ROSI	Glyceraldehyde-3-pho- dehydrogenase
1172	2	73.3	18	0.62	1.21	tr A9P8Q6 A9P8Q6_POPTR	Ras-related protein Rab7
1173	2	40.9	17	3.22	1.02	tr Q9M5X2 Q9M5X2_EUPES	Heat shock protein 80
1179	2	11.3	10	1.58	0.71	tr B9HRP1 B9HRP1_POPTR	Coatomer subunit gamma
1180	2	37	8	0.60	0.29	tr D5K0Z8 D5K0Z8_9FABA	Actin-like protein
1186	2	8.5	8	0.60	0.25	tr B9I7J3 B9I7J3_POPTR	Luminal-binding protein 5
1188	2	45.1	5	0.65	0.53	tr B2X0F6 B2X0F6_9ROSI	Glyceraldehyde 3-phosphate dehydrogenase
1191	2	2.9	3	2.58	1.98	tr F6GZ28 F6GZ28_VITVI	Myosin-Vb-like
1195	2	11.3	3	2.05	1.05	tr D7U7P5 D7U7P5_VITVI	Fructokinase-5-like
1196	2	5.8	4	0.65	0.53	tr C9EA44 C9EA44_CARPA	Ripening-reduced arabinofuranosidase
1203	2	16.3	4	1.85	1.08	tr C6TED4 C6TED4_SOYBN	Ras-related protein RHN1-like
1206	2	6.1	2	0.19	0.23	tr A9P745 A9P745_HELAN	Enolase
1207	2	11.2	5	1.51	0.72	tr B9RFA8 B9RFA8_RICCO	Rubber elongation factor protein
1210	2	6.7	2	5.40	1.25	tr Q8LA96 Q8LA96_ARATH	RNA recognition motif-containing protein
1211	2	5.2	2	0.20	0.51	tr Q40581 Q40581_TOBAC	GTP-binding protein
1214	2	6.3	4	0.48	1.01	tr B9GK93 B9GK93_POPTR	FAS-associated factor 2
1225	2	3.7	3	0.66	0.63	tr A5AEX6 A5AEX6_VITVI	carboxymethylenebutenolidase
1228	2	16.8	2	0.61	0.52	tr B9H401 B9H401_POPTR	Prefoldin subuni
1231	2	8.2	3	2.29	3.08	tr D7SZI9 D7SZI9_VITVI	60S ribosomal protein
1236	2	6	2	0.52	0.37	tr B9HQZ2 B9HQZ2_POPTR	chitinase 1
1247	2	8.2	2	0.34	0.82	tr B9SYE9 B9SYE9_RICCO	ADP-ribosylation factor, putative
1275	2	9.2	2	0.61	1.16	tr B9S7V3 B9S7V3_RICCO	V-type proton ATPase subunit F
1278	2	27.6	6	0.39	0.95	tr A9PBT2 A9PBT2_POPTR	nuclear transport factor 2 isoform 1
1281	2	29.8	6	0.51	1.43	tr A9PE14 A9PE14_POPTR	nuclear transport factor
1318	2	8.9	5	0.52	0.12	tr F6HF70 F6HF70_VITVI	Putative uncharacterized protein
1320	2	16.7	2	2.07	1.03	tr B9T0W0 B9T0W0_RICCO	heat shock factor-binding protein
1336	1.95	11.3	4	1.67	4.33	tr B9SXV3 B9SXV3_RICCO	Calcium lipid binding protein
1337	1.94	4.5	2	1.96	1.54	tr F6HCT7 F6HCT7_VITVI	heat shock 70 kDa protein
1341	1.92	11.2	2	0.62	0.58	tr B9N560 B9N560_POPTR	Predicted protein
1346	1.91	5.7	2	1.71	3.28	tr B9R7B8 B9R7B8_RICCO	Serine/threonine-protein kinase
1348	1.89	10.3	3	0.33	1.16	tr B9S119 B9S119_RICCO	Putative uncharacterized protein
1353	1.87	7.1	4	0.45	0.51	tr Q949H3 Q949H3_HEVBR	Chitinase, class I
1355	1.86	22	19	2.75	0.78	tr B9H023 B9H023_POPTR	GTP-binding protein
1387	1.77	77.3	20	0.24	0.82	tr B7FLK9 B7FLK9_MEDTR	ubiquitin 11
1404	1.7	7	2	2.94	3.98	tr B9RGW6 B9RGW6_RICCO	Conserved hypothetical protein
1407	1.69	1.5	2	0.59	0.56	tr B9I2G0 B9I2G0_POPTR	Predicted protein

1418	1.65	7.5	3	0.10	0.21	tr B9HBL6 B9HBL6_POPTR	aspartate-tRNA ligase, cytoplasmic
1426	1.61	8.3	3	0.17	0.93	tr F6HI13 F6HI13_VITVI	random slug protein 5 isoform 2
1434	1.58	32.5	19	0.58	0.73	tr Q6QLW8 Q6QLW8_HEVBR	HMG-CoA synthase 2
1437	1.57	5.2	2	3.73	7.78	tr B9IEB9 B9IEB9_POPTR	methyl transferase
1453	1.53	5.9	2	0.64	0.51	tr Q1W6C5 Q1W6C5_9CARY	chitinase Class Ib
1459	1.51	8.9	4	0.60	0.56	tr B9SBH8 B9SBH8_RICCO	Dynamamin, putative
1464	1.5	7.2	3	0.60	0.94	tr A8IKE1 A8IKE1_SOYBN	Alanine aminotransferase 1
1467	1.49	20.7	6	0.52	0.24	tr Q8LBD5 Q8LBD5_ARATH	L-lactate dehydrogenase
1479	1.43	14.7	3	0.64	0.79	tr C6TB50 C6TB50_SOYBN	S-formylglutathione hydrolase-like
1487	1.4	5.1	2	2.25	1.82	tr E0CR92 E0CR92_VITVI	Aminotransferase YbdL-like
1494	1.39	6.5	2	0.13	0.29	tr F6H2P8 F6H2P8_VITVI	Putative uncharacterized protein
1523	1.31	3.1	2	2.11	1.52	tr C6TNV4 C6TNV4_SOYBN	succinyl-CoA ligase subunit alpha-1

Note:

^aThe protein number (I-) obtained from the iTRAQ experiments.

^bThe Unused Score produced by the ProteinPilot™ Software.

^cThe percent of sequence coverage value for the matched peptides with higher than 95% confidence.

^dThe number of matched matched peptides with higher than 95% confidence.

^eThe changed ration of target protein in the E-3 and D-3 rubber latex identified by iTRAQ.

^fAccession numbers and plant species in the Swiss-Prot Database.

Supplementary Table S4 MS identification of the 59 phosphorlated latex proteins

Spot P-^a	Changed ratio^b E3/D3:E3/D0:D3/D0	Thero.^c pI/Mr	M.S.^d Score	NCBI No.^e	Plant species	Protein name
P1	0.26: 0.36: 2.03	5.11/71.6	97	123650	<i>P. hybrida</i>	Heat shock cognate 70 kDa protein
P2	3.75: 7.78: 2.48	5.52/61.4	[54]	249262	<i>M. esculenta</i>	linamarase
P3	0.46: 0.56: 0.92	4.54/46.1	[112]	224100473	<i>P. trichocarpa</i>	predicted protein
P4	1.31: 0.57: 0.45	5.52/61.4	[56]	249262	<i>M. esculenta</i>	linamarase
P5	4.48: 2.82: 0.48	4.61/12.8	[502]	29170601	<i>H. brasiliensis</i>	Small rubber particle protein
P6	15.04: 5.74: 0.21	4.61/12.8	[429]	29170601	<i>H. brasiliensis</i>	Small rubber particle protein
P7	0.46: 1.01: 1.77	5.28/47.1	[75]	224071449	<i>P. trichocarpa</i>	phospholipase A
P8	5.26: 7.09: 2.01	5.31/42.0	[519]	32186890	<i>G. hirsutum</i>	actin
P9	0.28: 0.64: 3.21	4.8/22.3	[384]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
P10	0.36: 0.43: 1.30	5.28/47.1	[71]	224071449	<i>P. trichocarpa</i>	phospholipase A
P11	1.13: 0.45: 0.62	5.28/47.1	[52]	224071449	<i>P. trichocarpa</i>	phospholipase A
P12	0.47: 0.37: 0.46	5.28/47.1	[106]	224071449	<i>P. trichocarpa</i>	phospholipase A
P13	1.95: 2.15: 1.10	5.49/50.3	[51]	1550740	<i>A. thaliana</i>	GDP-associated inhibitor
P14	0.37: 0.37: 1.67	6.5/32.1	[144]	255552291	<i>R. communis</i>	short chain dehydrogenase, putative
P15	0.49: 0.38: 0.87	6.56/39.2	[174]	218157	<i>O. sativa</i>	cytoplasmic aldolase
P16	2.47: 0.73: 0.38	6.56/39.2	[125]	218157	<i>O. sativa</i>	cytoplasmic aldolase
P17	4.66: 15.17: 4.53	4.8/22.3	[171]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
P18	1.15: 2.32: 3.97	8.42/35.9	[74]	118489480	<i>P. trichocarpa</i>	unknown
P19	3.29: 3.33: 1.07	5.04/14.7	[341]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
P20	2.81: 2.11: 0.71	5.04/14.7	[597]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
P21	2.33: 1.87: 0.72	5.04/14.7	[672]	132270	<i>H. brasiliensis</i>	Rubber elongation factor protein
P22	0.18: 0.41: 2.34	4.94/80.3	[197]	38154482	<i>N. benthamiana</i>	Hsp 90-1
P23	1.42: 3.24: 2.76	4.95/81.1	[126]	1708314	<i>I. nil</i>	Heat shock protein 83
P24	2.38: 2.65: 1.37	5.07/71.1	[136]	20559	<i>P. hybrida</i>	hsp70 (AA 6 - 651)
P25	1.55: 2.67: 2.61	5.08/59.1	[118]	255566038	<i>R. communis</i>	Phospholipase C 3 precursor
P26	2.10: 3.98: 1.61	5.01/46.4	[80]	4235430	<i>H. brasiliensis</i>	latex-abundant protein
P27	0.61: 3.71: 6.87	5.21/59.4	[53]	297833008	<i>A. lyrata</i>	phosphoesterase family protein
P28	2.70: 1.93: 0.37	5.23/62.1	[108]	226530579	<i>Z. mays</i>	uncharacterized protein
P29	2.39: 0.75: 0.41	6.75/59.3	[133]	149938954	<i>A. chinensis</i>	G6PD1; glucose-6-phosphate dehydrogenase
P30	1.04: 2.15: 3.11	6.26/38.2	[53]	226493285	<i>Z. mays</i>	flavonol 4-sulfotransferase
P31	0.51: 0.31: 1.34	5.28/47.1	[104]	224071449	<i>P. trichocarpa</i>	phospholipase A
P32	0.93: 1.36: 2.07	5.0/43.0	[219]	1916805	<i>H. brasiliensis</i>	latex patatin homolog
P33	0.51: 0.27: 0.41	5.0/43.1	[196]	6707018	<i>H. brasiliensis</i>	latex protein allergen Hev b 7
P34	0.46: 0.83: 1.33	5.31/41.9	[392]	32186890	<i>G. hirsutum</i>	actin
P35	5.06: 6.54: 0.89	6.5/32.1	[141]	255552291	<i>R. communis</i>	short chain dehydrogenase, putative
P36	3.77: 1.01: 0.22	5.06/19.6	[393]	38122474	<i>H. brasiliensis</i>	Rubber elongation factor protein
P37	0.14: 0.21: 1.29	4.06/15.2	[288]	334854634	<i>H. brasiliensis</i>	elicitor-responsive protein
P38	7.23: 7.56: 2.19	4.8/22.3	[353]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
P39	4.51: 5.10: 1.94	4.8/22.3	[342]	14423933	<i>H. brasiliensis</i>	Small rubber particle protein
P40	2.06: 2.04: 1.51	4.61/12.8	[316]	29170601	<i>H. brasiliensis</i>	Small rubber particle protein
P41	0.88: 9.80: 10.89	5.64/20.9	[261]	2832430	<i>H. brasiliensis</i>	prohevein

P42	2.11: 2.06: 1.12	4.79/29.5	93	388503664	<i>L. japonicus</i>	unknown
P43	2.33: 3.97: 2.19	4.76/29.9	[294]	326694865	<i>H. brasiliensis</i>	14-3-3 protein 2
P44	1.55: 3.01: 2.80	5.84/27.4	[69]	224099853	<i>P. trichocarpa</i>	predicted protein
P45	1.35: 2.18: 1.71	9.4/41.5	[745]	124365253	<i>H. brasiliensis</i>	beta-1,3-glucanase
P46	1.63: 2.23: 1.35	6.11/36.1	[347]	224102193	<i>P. trichocarpa</i>	malate dehydrogenase
P47	0.67: 0.46: 0.74	4.65/41.4	[75]	255578278	<i>R. communis</i>	hypothetical protein
P48	2.41: 6.72: 3.69	6.5/32.1	[201]	255552291	<i>R. communis</i>	short chain dehydrogenase, putative
P49	1.14: 2.77: 2.94	5.17/30.1	[175]	255581753	<i>R. communis</i>	adenosine kinase, putative
P50	1.39: 1.18: 2.23	5.79/66.6	[96]	4588474	<i>B. napus</i>	phosphoinositide phospholipase C
P51	1.43: 5.81: 11.34	4.65/41.4	[95]	255578278	<i>R. communis</i>	hypothetical protein
P52	5.02: 7.38: 1.33	6.5/32.1	[67]	255552291	<i>R. communis</i>	short chain dehydrogenase, putative
P53	1.26: 2.25: 2.17	5.08/36.3	[279]	224057068	<i>P. trichocarpa</i>	predicted protein
P54	0.44: 0.43: 0.89	5.64/20.9	[181]	2832430	<i>H. brasiliensis</i>	prohevein
P55	0.41: 0.46: 0.95	5.28/47.1	[55]	224071449	<i>P. trichocarpa</i>	phospholipase A
P56	0.24: 0.58: 3.23	6.56/39.2	[58]	218157	<i>O. sativa</i>	cytoplasmic aldolase
P57	0.40: 0.50: 1.64	5.49/42.2	[120]	15219412	<i>A. thaliana</i>	phosphoglycerate kinase
P58	5.28: 1.23: 0.22	5.33/63.7	[121]	356513072	<i>G. max</i>	phosphoglucomutase, cytoplasmic
P59	2.65: 1.03: 0.37	5.46/63.7	[95]	255568794	<i>R. communis</i>	nucleoredoxin, putative

Note:

^aAssigned spot number (P1-P59) of the differentially phosphorylated proteins were indicated in Fig. 5.

^bThe relatively changed ratios (E-3/D-3; E-3/D-0; D-3/D-0) of the phosphorylated protein spots among the D-0, D-3 and E-3 latex proteins from the rubber trees treated by water and ethylene. All the protein spots in the 2-DE gels were analyzed by ImageMaster software.

^cThe theoretical values for the *pI* and mass (kDa) of the identified proteins. The theoretical values were retrieved from the protein database.

^dMascot searched scores (M.S.) against NCBIInr for the MS and [MS/MS] searched results.

^eDatabase accession (gi) numbers according to NCBIInr.