**VP 2020 Additional information**

**Helpful links:**

Chlamydomonas strains:

<https://www.chlamycollection.org/>

Chlamydomonas proteins and gen models:

<https://phytozome.jgi.doe.gov/pz/portal.html#!info?alias=Org_Creinhardtii>

<http://fatool.bio.uni-kl.de:8080/>

Mass spectrometry:

<http://www.ionsource.com/>

<http://prospector.ucsf.edu/prospector/mshome.htm>

<https://www.expasy.org/proteomics>

<http://csbweb.bio.uni-kl.de/>

**QconCAT CBC**

MASMTGGQQMGRDPAGAKLGGNEQVTRADLNVPLDKTFNDALADAKLSEL 50

LGKPVTKAVSLVLPSLKVLITAPAKALQNTVLKVMFEGILLKSVVSIPHG 100

PSIIAARVPLFIGSKTLLYGGIYGYPGDAKIYSFNEGNYGLWDDSVKLTN 150

ITGRLLFEALKFLAIDAINKVSTLIGYGSPNKNPDFFNRFIESQVAKGVN 200

PWIEVDGGVTPENAYKSDIIVSPSILSADFSRIYLDISDDIKVAELLDFK 250

GHSLESIKSLFGESNEVVAKLVDELNAGTIPRLANLPEVKLQNIVGVPTS 300

IRTQLSQDELKSGQPAVDLNKASGQPAVDLNKAEAALLVRSNSTPLGSRG 350

ILASDESNATTGKALQSSTLKVSAADVARALQASVLKVTEAAALASGRNL 400

ALELVRSAEGLDASASLRAAWSHHHHHHHKAWASWASKLAAALEHHHHHH 450

|  |  |  |  |
| --- | --- | --- | --- |
| **Protein** | **Sequence** | **Protein** | **Sequence** |
|  | MGRDPAAA |  |  |
| **iRT** | LGGNEQVTR | **TPI1** | SLFGESNEVVAK |
| **PGK** | ADLNVPLDK |  | LVDELNAGTIPR |
|  | TFNDALADAK | **RPI1** | LANLPEVK |
|  | LSELLGKPVTK |  | LQNIVGVPTSIR |
| **Gap3** | AVSLVLPSLK |  | TQLSQDELK |
|  | VLITAPAK | **DP12** | SGQPAVDLNK |
| **FBA3** | ALQNTVLK |  | ASGQPAVDLNK |
|  | VMFEGILLK | **RMT1** | AEAALLVR |
|  | SVVSIPHGPSIIAAR |  | SNSTPLGSR |
| **FBP1** | VPLFIGSK | **FBA1** | GILASDESNATTGK |
|  | TLLYGGIYGYPGDAK |  | ALQSSTLK |
|  | IYSFNEGNYGLWDDSVK | **FBA2** | VSAADVAR |
| **SBP** | LTNITGR |  | ALQASVLK |
|  | LLFEALK | **Cre07.g338451** | VTEAAALASGR |
| **TRK1** | FLAIDAINK | **FBP1** | NLALELVR |
|  | VSTLIGYGSPNK | **CalSciex** | SAEGLDASASLR |
|  | NPDFFNR | **add** | AAWSHHHHHHHKAWASWASKLA |
| **RPE1** | FIESQVAK |  |  |
|  | GVNPWIEVDGGVTPENAYK |  |  |
|  | SDIIVSPSILSADFSR |  |  |
| **PRK1** | IYLDISDDIK |  |  |
|  | VAELLDFK |  |  |
|  | GHSLESIK |  |  |
|  |  |  |  |
|  |  |  |  |

**QconCAT PS**

MASMTGGQQMGRDPSRSALPSNWKSVLPANWRDTDILAAFREVTLGFVDL 50

MRFLFVAEAIYKLTYYTPDYVVRAYVSNESAIRLVAFDNQKYWTMWKAFP 100

DAYVRVPLILGIWGGKIGQQLVNARSLVDEQENVKLGADSGALEFVPKDD 150

YLNAPGETYSVKTPLANLVYWKALYGFDFLLSSKTNFGIGHRLSIFETGI 200

KTAPAFVDLDTRIPAGPDLIVKNILVVGPVPGKIVAITALSEKYPIYFGG 250

NRVLNTWADIINREWELSFRNTWADIINRLIFQYASFNNSRTALPADWRL 300

VFPEEVLPRNILLNEGIRTWFDDADDWLRAAHHHHHHHKLAAALEHHHHH 350

H\*

|  |  |  |  |
| --- | --- | --- | --- |
| Protein | Sequence | Protein | Sequence |
| LCI5 | SALPSNWK | **PCY1** | LGADSGALEFVPK |
| LCI5 | SVLPANWR | **PCY1** | DDYLNAPGETYSVK |
| rbcL | DTDILAAFR | **psaB** | TPLANLVYWK |
| rbcL | EVTLGFVDLMR | **psaB** | ALYGFDFLLSSK |
| rbcL | FLFVAEAIYK | **psaB** | TNFGIGHR |
| rbcL | LTYYTPDYVVR | **atpB** | LSIFETGIK |
| RBCS2 | AYVSNESAIR | **atpB** | TAPAFVDLDTR |
| RBCS2 | LVAFDNQK | **petA** | IPAGPDLIVK |
| RBCS2 | YWTMWK | **petA** | NILVVGPVPGK |
| RBCS2 | AFPDAYVR | **petA** | IVAITALSEK |
| RCA1 | VPLILGIWGGK | **petA** | YPIYFGGNR |
| RCA1 | IGQQLVNAR | **FNR1** | LYSIASSR |
| RCA1 | SLVDEQENVK | **FNR1** | LDYALSR |
| D1 | VLNTWADIINR | **LCI5** | TALPADWR |
| D1 | EWELSFR | **psbD** | LVFPEEVLPR |
| D1 | NTWADIINR | **psbD** | NILLNEGIR |
| D1 | LIFQYASFNNSR | **psbD** | TWFDDADDWLR |