

## ➤ N-terminally extended CDK16; length=613aa

MGSAAATPRSD RSVPRAAVST RIQAGANESG GIARSGQAHG RLSGTPPPPQ PPPPPPPPPP QPAAARAQQP WLKTGTGAC GEQEEKEVAR PHPGPPPQAP PRRPRGSEVA RAPPPIA MDRMKKIKRQ LSMTLRGGRG IDKTNGAPEQ IGLDESGGGG GSDPGEAPTR AAPGELRSAR GPLSSAPEIV HEDLKMGSdg ESDQASATSS DEVQSPVRVR MRNHPPRKIS TEDINKRLSL PADIRLPEGY LEKLTNSPI FDKPLSRRRL RVSLEIGFG KLETYIKLDK LGEPTYATVY KGKSCLTDNL VALKEIRLEH EEGAPCTAIR EVSLLKDLKH ANIVTLHDII HTEKSLTlVF EYLDKDLKQY LDDCGNIINM HNVKLFLFQL LRGLAYCHRQ KVLHRDLKPQ NLLINERGEL KLADFGLARA KSIPTKTYSN EVVTLWYRPP DILLGSTDYS TQIDMWGVGC IFYEMATGRP LFPGSTVEEQ LHFIFRILGT PTEETWPGIL SNEEFKTYNY PKYRAEALLS HAPRLDSDGA DLLTKLLQFE GRNRISAEDA MKHPFFLSLG ERIHKLPDTT SIFALKEIQL QKEASLRSSS MPDSGRPAFR VVDTEF

### targetp v1.1 prediction results #####

Number of query sequences: 1  
 Cleavage site predictions included.  
 Using NON-PLANT networks.

Name	Len	mTP	SP	other	Loc	RC	TPlen
Sequence	40	0.756	0.028	0.316	M	3	24
cutoff		0.000	0.000	0.000			

## ➤ Canonical CDK16 (ENST00000357227.4); length=496aa

MDRMKKIKRQ LSMTLRGGRG IDKTNGAPEQ IGLDESGGGG GSDPGEAPTR AAPGELRSAR GPLSSAPEIV HEDLKMGSdg ESDQASATSS DEVQSPVRVR MRNHPPRKIS TEDINKRLSL PADIRLPEGY LEKLTNSPI FDKPLSRRRL RVSLEIGFG KLETYIKLDK LGEPTYATVY KGKSCLTDNL VALKEIRLEH EEGAPCTAIR EVSLLKDLKH ANIVTLHDII HTEKSLTlVF EYLDKDLKQY LDDCGNIINM HNVKLFLFQL LRGLAYCHRQ KVLHRDLKPQ NLLINERGEL KLADFGLARA KSIPTKTYSN EVVTLWYRPP DILLGSTDYS TQIDMWGVGC IFYEMATGRP LFPGSTVEEQ LHFIFRILGT PTEETWPGIL SNEEFKTYNY PKYRAEALLS HAPRLDSDGA DLLTKLLQFE GRNRISAEDA MKHPFFLSLG ERIHKLPDTT SIFALKEIQL QKEASLRSSS MPDSGRPAFR VVDTEF

### targetp v1.1 prediction results #####

Number of query sequences: 1  
 Cleavage site predictions included.  
 Using NON-PLANT networks.

Name	Len	mTP	SP	other	Loc	RC	TPlen
Sequence	40	0.235	0.047	0.802	_	3	-
cutoff		0.000	0.000	0.000			

## ➤ N-terminally extended NPLOC4; length=651aa

LERRWRRRRE AGAGAEAAAG SARPLGRQAA AARGSSPEAG AAA MAESIIIRVQ SPDGVKRITA TKRETAATFL KKVAKEFGFQ NNGFSVYINR NKTGEITASS NKSLNLLKIK HGDLLFLFPS SLAGPSSEME TSVPPGFKVF GAPNVVEDEI DQYLSKQDGK IYRSRDPQLC RHGPLGKCVH CVPLEPFDED YLNHLEPPVK HMSFHAYIRK LTGGADKGKF VALENISCKI KSGCEGHLPW PNGICTKCQP SAITLNRQKY RHVDNIMFEN HTVADRFLDF WRKTGNQHFG YLYGRYTEHK DIPLGIRAEV AAIYEPPQIG TQNSLELLED PKAEVVDEIA AKLGLRKVGWIFTDLVSEDT RKGTVRYSRN KDTYFLSSEE CITAGDFQNK HPNCRLSPD GHFGSKFVTA VATGGPDNQV HFEGYQVSNQ CMALVRDECL LPCKDAPELG YAKESSSEQY VPDVFYKDVD KFGNEITQLA RPLPVEYLII DITTFPKDP VYTFISQNP FPIENRDVLG ETQDFHSLAT YLSQNTSSVF LDTISDFHLL LFLVTNEVMP LQDSISLLLE AVRTRNEELA QTWKRSEQWA TIEQLCSTVG GQLPGLHEYG AVGGSTHTAT AAMWACQHCT FMNQPGTGHC EMCSLPRT

### targetp v1.1 prediction results #####

Number of query sequences: 1

Cleavage site predictions included.

Using NON-PLANT networks.

Name	Len	mTP	SP	other	Loc	RC	TPlen
Sequence	43	0.879	0.023	0.176	M	2	34
cutoff		0.000	0.000	0.000			

## ➤ Canonical NPLOC4; length=608aa

MAESIIIRVQ SPDGVKRITA TKRETAATFL KKVAKEFGFQ NNGFSVYINR NKTGEITASS NKSLNLLKIK HGDLLFLFPS SLAGPSSEME TSVPPGFKVF GAPNVVEDEI DQYLSKQDGK IYRSRDPQLC RHGPLGKCVH CVPLEPFDED YLNHLEPPVK HMSFHAYIRK LTGGADKGKF VALENISCKI KSGCEGHLPW PNGICTKCQP SAITLNRQKY RHVDNIMFEN HTVADRFLDF WRKTGNQHFG YLYGRYTEHK DIPLGIRAEV AAIYEPPQIG TQNSLELLED PKAEVVDEIA AKLGLRKVGWIFTDLVSEDT RKGTVRYSRN KDTYFLSSEE CITAGDFQNK HPNCRLSPD GHFGSKFVTA VATGGPDNQV HFEGYQVSNQ CMALVRDECL LPCKDAPELG YAKESSSEQY VPDVFYKDVD KFGNEITQLA RPLPVEYLII DITTFPKDP VYTFISQNP FPIENRDVLG ETQDFHSLAT YLSQNTSSVF LDTISDFHLL LFLVTNEVMP LQDSISLLLE AVRTRNEELA QTWKRSEQWA TIEQLCSTVG GQLPGLHEYG AVGGSTHTAT AAMWACQHCT FMNQPGTGHC EMCSLPRT

### targetp v1.1 prediction results #####

Number of query sequences: 1

Cleavage site predictions included.

Using NON-PLANT networks.

Name	Len	mTP	SP	other	Loc	RC	TPlen
Sequence	50	0.262	0.039	0.806	_	3	-
cutoff		0.000	0.000	0.000			

## ➤ N-terminally extended THOP1; length=726aa

VAAVAAVGPR QAASVAEVAG RVAGGRREGA AGADPPA MKPPAACAGD MADAASPCSV VNDLRWDL SA QQIEERTREL IEQTKRVYDQ VGTQEFEDVS YESTLKALAD VEVTYTVQRN ILDFPQHVSP SKDIRTASTE ADKKLSEFDV EMSMREDVYQ RIVWLQEKVQ KDSL RPEAAR YLERLIK LGR RNGLHLPRET QENIKRIKKK LSLLCIDFNK NLNEDTTFLP FTLQELGGLP EDFLNSLEKM EDGKLKVTLK YPHYFPLLKK CHVPETRRKV EEAFCRCKE ENCAILKELV TLRAQKSRL GFHTHADYVL EMNMAKTSQT VATFLDELAQ KLKPLGEQER AVILELKRAE CERRGLPFDG RIRAWDMRYY MNQVEETRYC VDQNLLKEYF PVQVVTHGL GIYQELLGLA FHHEEGASAW HEDVRLYTAR DAASGEVVGK FYLDLYPREG KYGHAACFGL QPGCLRQDG RQIAIAAMVA NFTKPTADAP SLLQHDEVET YFHEFGHVMH QLC SQAEFAM FSGTHVERDF VEAPSQMLEN WVWEQEPLLR MSRHYRTGSA VPRELLEKLI ESRQANTGLF NLRQIVLAKV DQALHTQTDA DPAAEYARLC QEILGVPATP GTNMPATFGH LAGGYDAQYY GYLWSEVYSM DMFHTRFKQE GVLNSKVGMD YRSCILRPGG SEDASAML RR FLGRDPKQDA FLLSKGLQVG GCEPEPQVC

### targetp v1.1 prediction results #####

Number of query sequences: 1  
Cleavage site predictions included.  
Using NON-PLANT networks.

Name	Len	mTP	SP	other	Loc	RC	TPlen
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Sequence	40	0.527	0.059	0.478	M	5	11
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cutoff		0.000	0.000	0.000			

## ➤ Canonical THOP1; length=689aa

MKPPAACAGD MADAASPCSV VNDLRWDL SA QQIEERTREL IEQTKRVYDQ VGTQEFEDVS YESTLKALAD VEVTYTVQRN ILDFPQHVSP SKDIRTASTE ADKKLSEFDV EMSMREDVYQ RIVWLQEKVQ KDSL RPEAAR YLERLIK LGR RNGLHLPRET QENIKRIKKK LSLLCIDFNK NLNEDTTFLP FTLQELGGLP EDFLNSLEKM EDGKLKVTLK YPHYFPLLKK CHVPETRRKV EEAFCRCKE ENCAILKELV TLRAQKSRL GFHTHADYVL EMNMAKTSQT VATFLDELAQ KLKPLGEQER AVILELKRAE CERRGLPFDG RIRAWDMRYY MNQVEETRYC VDQNLLKEYF PVQVVTHGL GIYQELLGLA FHHEEGASAW HEDVRLYTAR DAASGEVVGK FYLDLYPREG KYGHAACFGL QPGCLRQDG RQIAIAAMVA NFTKPTADAP SLLQHDEVET YFHEFGHVMH QLC SQAEFAM FSGTHVERDF VEAPSQMLEN WVWEQEPLLR MSRHYRTGSA VPRELLEKLI ESRQANTGLF NLRQIVLAKV DQALHTQTDA DPAAEYARLC QEILGVPATP GTNMPATFGH LAGGYDAQYY GYLWSEVYSM DMFHTRFKQE GVLNSKVGMD YRSCILRPGG SEDASAML RR FLGRDPKQDA FLLSKGLQVG GCEPEPQVC

### targetp v1.1 prediction results #####

Number of query sequences: 1  
Cleavage site predictions included.  
Using NON-PLANT networks.

Name	Len	mTP	SP	other	Loc	RC	TPlen
-----							
Sequence	40	0.089	0.084	0.886	_	2	-
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cutoff		0.000	0.000	0.000			

## DESCRIPTION

The output is a table in plain text (see the example below). For each input sequence one table row is output. The columns are as follows:

Name	Sequence name truncated to 20 characters
Len	Sequence length
cTP, mTP, SP, other	Final NN scores on which the final prediction is based (Loc, see below). Note that the scores are not really probabilities, and they do not necessarily add to one. However, the location with the highest score is the most likely according to TargetP, and the relationship between the scores (the reliability class, see below) may be an indication of how certain the prediction is.
Loc	<p>Prediction of localization, based on the scores above; the possible values are:</p> <ul style="list-style-type: none"><li>C Chloroplast, i.e. the sequence contains cTP, a chloroplast transit peptide;</li><li>M Mitochondrion, i.e. the sequence contains mTP, a mitochondrial targeting peptide;</li><li>S Secretory pathway, i.e. the sequence contains SP, a signal peptide;</li><li>- Any other location;</li><li>* "don't know"; indicates that cutoff restrictions were set (see instructions) and the winning network output score was below the requested cutoff for that category.</li></ul>
RC	<p>Reliability class, from 1 to 5, where 1 indicates the strongest prediction. RC is a measure of the size of the difference ('diff') between the highest (winning) and the second highest output scores. There are 5 reliability classes, defined as follows:</p> <ul style="list-style-type: none"><li>1 : diff &gt; 0.800</li><li>2 : 0.800 &gt; diff &gt; 0.600</li><li>3 : 0.600 &gt; diff &gt; 0.400</li><li>4 : 0.400 &gt; diff &gt; 0.200</li><li>5 : 0.200 &gt; diff</li></ul> <p>Thus, the lower the value of RC the safer the prediction.</p>
TPlen	Predicted presequence length; it appears only when TargetP was asked to perform cleavage site predictions (see instructions).