



CSpritz - Accurate detection of protein disorder

Version 1.2

Title: PF3D7_1032300.fasta
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Status: finished

NB: The data will be kept for **two weeks**, after which it will be **deleted** without further notice.

Available files: [\(help\)](#)

Your input parameters:

Fasta sequences (amino, secondary structure, disorder, confidence):

Disorder plot:

Graph of PDB homologue(s) found::

Disorder Prediction (with disorder probability):

Protein statistics :

HTML

TXT

PDF

PDF

TXT

TXT

Disordered residues and stats: [\(help\)](#)[illegible]

Total amino acids:	871
Total % disorder:	50.17
Total no. of disordered regions > 30 amino acids:	4
Total no. of disordered regions > 50 amino acids:	2
Number of disordered segments:	16
Length distribution of segments (N to C terminal order):	132 47 3 7 1 1 10 3 11 4 1 137 21 8 42 9

29 ELM motif(s) in total found in disordered residues

```
seq  : YDY
S.S. : HHH
alpha: 565
beta  : 000
coil  : 333
```

Linear motif(s):

SS Motif for disorder segment 7:
(start,end): (328,338)

328337
seq : LGDYEEYDYK
S.S. : HHHHHHHHHH
alpha: 76566666654
beta : 0000000000
coil : 2333222334

SS Motif for disorder segment 8:
(start,end): (343,346)

seq : NILI
S.S. : CEEE
alpha: 1100
beta : 1466
coil : 7322

SS Motif for disorder segment 9:
(start,end): (439,575)

439448458468478488498
seq : RDKHVVNQTSKHIEKAQHNDLYLKKIQCNPNIKNINNKNNNSNNMCFSDKIQYTVPERINNNMNISS
S.S. : CCCCCCCCCCHHHHHCCCCCHCCCCCCCCCHCCCCCCCCCCCCCCCCCHHHCCCCCCCC
alpha: 21111110122445543322344332100013343332221111111112221112456543211333
beta : 21012211000011110000011111110000112222222110123310123321001100001111
coil : 5676667777643333456664445567798865433444556677654466654555432346776554
509518528538548558568
seq : FHNLDNKYAESQONFEESTFNMNNIIKNKTDKKKENIETYYYYKKYQETLSNKQLKDMHINTYNTS
S.S. : CCCCCCCCCCCCCCCCCCHHHHHCCCCCCCCCHHHHHHHHHCCCCCHHHHHCCCCCCCC
alpha: 332112233443333343333445554311122222334444555444322345555443321113
beta : 111000001000000111111000111100000011223333211110000000000012222100
coil : 556777654445555444555432345777666543222233344566644444444456776

SS Motif for disorder segment 10:
(start,end): (649,669)

649658668
seq : ENARKENITYDMDEEEEDILN
S.S. : HCCCHHHCCCCCHHHHCC
alpha: 644454433101034666530
beta : 000000012210000000000
coil : 355544444578865333468

SS Motif for disorder segment 11:
(start,end): (681,688)

seq : YKNEKEK
S.S. : HHHHHHHH
alpha: 88999999
beta : 00000000
coil : 11000000

SS Motif for disorder segment 12:
(start,end): (722,763)

722731741751761
seq : MKINQYDKEANDKYNNNDDDDKIKQTNDNKSNEHHIQNN
S.S. : HHHHCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
alpha: 88754333321111110112233332110011223322111
beta : 000000001000111110000000112100000001000000
coil : 11245665567876677887766555567887765566888

SS Motif for disorder segment 13:
(start,end): (863,871)

seq : EYKLECKN
S.S. : HHHHHCCCC
alpha: 665543210
beta : 011111100
coil : 223334579

Graph of Probability(helix, strand, coil)
[PDF](#)
Amino SS Probability(helix, strand, coil)
[TXT](#)

Linear motif(s):

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Linear motif(s):

residues (461,464) [LIG_SH2_STAT5 = YLKK](#)
residues (493,499) [LIG_FHA_2 = QYTVPER](#)
residues (494,497) [LIG_SH2_STAT5 = YTVP](#)
residues (497,500) [LIG_PDZ_3 = PERI](#)
residues (517,520) [LIG_SH2_SRC = YAES](#)
residues (528,536) [LIG_EH1_1 = TFNMNNIIK](#)
residues (542,546) [LIG_APCC_KENbox_2 = KKENI](#)
residues (543,546) [LIG_PDZ_3 = KENI](#)
residues (556,559) [LIG_PDZ_3 = QETL](#)

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Linear motif(s):

residues (652,656) [LIG_APCC_KENbox_2 = RKENI](#)
residues (653,656) [LIG_PDZ_3 = KENI](#)
residues (664,667) [LIG_PDZ_3 = EEDI](#)

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Linear motif(s):

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[TXT](#)

Linear motif(s):

residues (735,738) [LIG_SH2_GRB2 = YNNN](#)
residues (743,746) [LIG_PDZ_3 = DDKI](#)

Graph of Probability(helix, strand, coil)
[PDF](#)
Amino SS Probability(helix, strand, coil)
[TXT](#)

Linear motif(s):

(c) *Ian Walsh, Alberto J. Martin and Silvio Tosatto for Biocomputing UP*, 11 / 2016