



## CSpritz - Accurate detection of protein disorder

## Version 1.2

**Title:** PF3D7\_0929300.fasta  
**emailaddress:** mubasher.mohammed@su.se  
**pid:** 1976228859

**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]

<b>Total amino acids:</b>	<b>714</b>
<b>Total % disorder:</b>	<b>57.14</b>
<b>Total no. of disordered regions &gt; 30 amino acids:</b>	<b>4</b>
<b>Total no. of disordered regions &gt; 50 amino acids:</b>	<b>1</b>
<b>Number of disordered segments:</b>	<b>15</b>
<b>Length distribution of segments (N to C terminal order):</b>	<b>4 23 1 40 2 22 41 1 5 213 1 1 1 38 15</b>

### Disordered segment motifs: [\(help\)](#)

**28 ELM motif(s) in total found in disordered residues**

**SS Motif for disorder segment 1:**

### Graph of Probability(helix, strand, coil)

(start,end): (1,4)

seq : MEKI  
S.S. : CHHH  
alpha: 0578  
beta : 0000  
coil : 9420

SS Motif for disorder segment 2:  
(start,end): (14,36)

14 23 33  
seq : IRSRLRRHKNNKNEEDRVFIYS  
S.S. : HHHHHHCCCCCCCCCEEEEC  
alpha: 777766532211111111110  
beta : 00000000000000001256653  
coil : 1122234567777877532235

SS Motif for disorder segment 3:  
(start,end): (65,104)

65 74 84 94  
seq : SIKHEKWKIKYEEKQKCEKKLVVEEKEILLKKRIQK  
S.S. : CCCCCCCHCHHHHHCCCCCCCCCHHHHHHHHHHHHHHHHH  
alpha: 22223333344665433222112235678888887766  
beta : 011111222211000000001233310000000000000  
coil : 666554333443356666664333211000112222

SS Motif for disorder segment 4:  
(start,end): (145,166)

145 154 164  
seq : IEIKIKKRRQKQNKRRNIRIS  
S.S. : HHHHHHHHHHCCCCCCCCCEEC  
alpha: 55666666554332221111  
beta : 222210000000000113454  
coil : 211112223445666664334

SS Motif for disorder segment 5:  
(start,end): (212,252)

212 221 231 241 251  
seq : MNKYELSDNGNNMKNSSQLTIITKNEKTKRKKKKRKKKE  
S.S. : CCCCCCCCCCCCCCCCCCEEECCCCCHCCCCCCCCCH  
alpha: 11222211111111333333233333333333333344  
beta : 1112331000000000123432000012221100111112  
coil : 676444678887777654322466554334566544442

SS Motif for disorder segment 6:  
(start,end): (323,327)

seq : KNNSN  
S.S. : CCCCC  
alpha: 11223  
beta : 00000  
coil : 77765

SS Motif for disorder segment 7:  
(start,end): (393,605)

393 402 412 422 432 442 452  
seq : IYKKLNERDKKNKKQNEPHNNMHPIKSVDKKGSFSPHHLKGAYPSNVKKIKEHEKTKQEDVPKKYISQG  
S.S. : HHHHHCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCHHHHHHHCCCCCCCCCCCCCCCCCCCC  
alpha: 77775444333222100111100122110000001233220001334555543322221012221100  
beta : 00000000000000000000011122210001222211000000111100000010001223211  
coil : 222234556666788877888775567888765444568887654323344556667886544578  
463 472 482 492 502 512 522  
seq : TYLIDCEYEDRNRLNKVNTERGDKYKIGCSKELEGVNLHLLHKKDGMNFAFLKDGSLYRNLFNYPKGNEG  
S.S. : CEECCCCCCCCCCCCCCCCCCCCCCCCCCCCCHHCCCCCCCCCHCCCCCHHHHHHHHHHCCCCC  
alpha: 0011112333333221100011101233322333321111112332211245666665421110  
beta : 355542211000001122111002233211111122222210012333210012111101110000  
coil : 53234555555555567788865556765545543334467887533346776321122223467888  
533 542 552 562 572 582 592  
seq : GKKEEEKKKENEGKKKENDCTTCDSDNICNYESMCDKDNDSGNNICDSNSNNSNSSDSYNNYNSNY  
S.S. : CC  
alpha: 011222222221001111111001122223322111111111111111111222332221110  
beta : 01111001111001121111111100022211111000000023321111111111222222333  
coil : 87666666666787766777777777765555456677777876445666777766554445555555  
  
seq : NVG  
S.S. : CCC  
alpha: 011  
beta : 321  
coil : 666

PDF  
Amino SS Probability(helix, strand, coil)  
TXT

Linear motif(s):

residues (1,4) LIG\_PDZ\_3 = MEKI

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

Linear motif(s):

residues (29,32) LIG\_PDZ\_3 = EDRV

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

Linear motif(s):

residues (82,90) LIG\_MAPK\_1 = KCEKKKLVV  
residues (86,90) LIG\_CYCLIN\_1 = KKLVV  
residues (94,97) LIG\_PDZ\_3 = KEIL

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

Linear motif(s):

residues (155,165) LIG\_MAPK\_1 = KQNKRRKNIRI

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

Linear motif(s):

residues (232,238) LIG\_FHA\_2 = IITKNEK

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

Linear motif(s):

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

Linear motif(s):

residues (417,421) LIG\_USP7\_1 = PIKSV  
residues (425,429) LIG\_BRCT\_BRCA1\_1 = GSFSF  
residues (435,439) LIG\_USP7\_1 = AYPNS  
residues (447,453) LIG\_FHA\_2 = EKTKQED  
residues (449,452) LIG\_TRAF2\_1 = TKQE  
residues (451,454) LIG\_PDZ\_3 = QEDV  
residues (458,461) LIG\_SH2\_STAT5 = YISQ  
residues (461,467) LIG\_FHA\_1 = QGTYLID  
residues (464,467) LIG\_SH2\_STAT5 = YLID  
residues (472,480) LIG\_APCC\_Dbox\_1

**SS Motif for disorder segment 8:**  
(start,end): (653,690)

653 662 672 682  
seq : SKYNLKVAKKFGSTLNDESKKKKKRTKDQNTENNNTS  
S.S. : HHHHHHHHCCCCCCCCCCCCCCCCCCCCCCCCCH  
alpha: 6654566654211111222211110111111110134  
beta : 00000010000011110000012222100001100001  
coil : 333432233468766777777666677777788754

**SS Motif for disorder segment 9:**  
(start,end): (700,714)

700 709  
seq : QNFFLVKKVFMNTNK  
S.S. : HHHHHHHHCCCCC  
alpha: 877655444432100  
beta : 000111222211000  
coil : 112223322356899

= DRNRLNKVN  
residues (495,498) LIG\_PDZ\_3 = LEGV  
residues (504,510) LIG\_MAPK\_1 =  
KKDGMNF  
residues (520,523) LIG\_SH2\_GRB2 =  
YRNL  
residues (521,524) LIG\_CYCLIN\_1 =  
RNLF  
residues (526,529) LIG\_SH2\_STAT5 =  
YFKG  
residues (534,538)  
LIG\_APCC\_KENbox\_2 = KENE  
residues (541,545)  
LIG\_APCC\_KENbox\_2 = KENE  
residues (548,552)  
LIG\_APCC\_KENbox\_2 = KKEND  
residues (552,558) LIG\_FHA\_2 =  
DCTTCDD  
residues (593,596) LIG\_SH2\_GRB2 =  
YNNY

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

Linear motif(s):  
  
residues (664,670) LIG\_FHA\_2 =  
GSTLNDE

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

Linear motif(s):