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Bioinformatics Toolkit

Max-Planck Institute for Developmental Biology

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HHpred - Results Job-ID: 8752049 Date: 14:24 on Mar 21 2014

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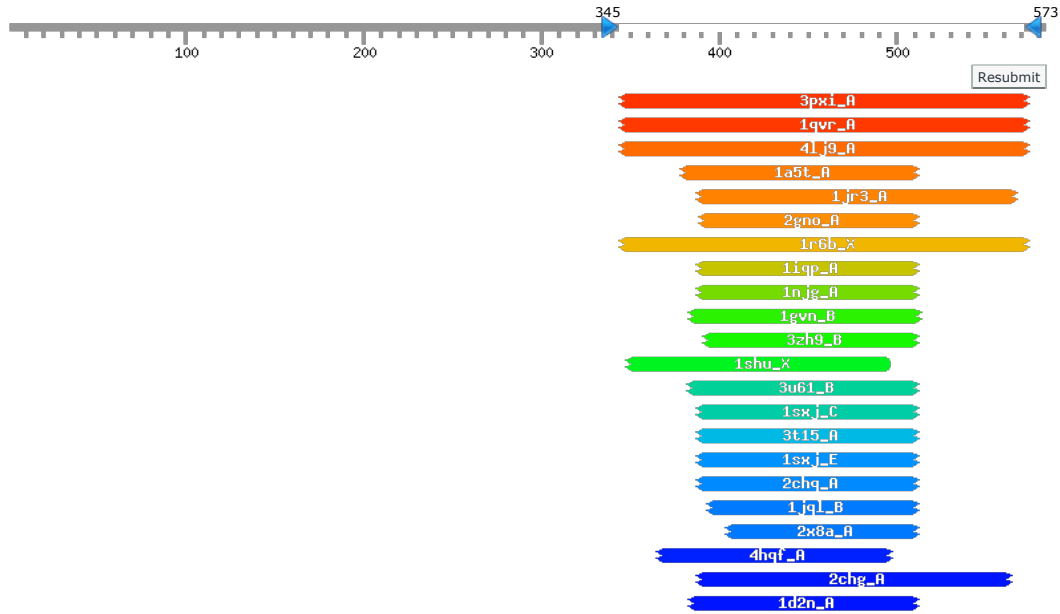
Color alignments

color only SS | color alignments | color alignments

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***Note*:** click [PDBAlert](#) to upload your query sequence and get alerted by email as soon as better PDB templates get available.

Note: Corrupted alignments are the most common source of high-scoring false positives. Check the query alignment by clicking Show Query Alignment above. To check the template alignments use the logos.



HHpred has detected hits to coiled coil-containing proteins. You may consider running a PCOILS prediction on your query.

Query lap1 (seq=MAGDGRRAEA...ENALKRGICL Len=583 Neff=3.3 Nseqs=77)
Parameters score SS:yes search:local realign with MAP:no

No Hit	Prob	E-value	P-value	Score	SS	Cols	Query HMM	Template HMM
<input type="checkbox"/> 1 3pxi_A Negative regulator of g	95.6	0.14	4.4E-06	57.7	14.2	193	345-573	459-661 (758)
<input type="checkbox"/> 2 1qvr_A CLPB protein; coiled co	95.2	0.28	8.7E-06	55.7	15.0	206	345-573	526-756 (854)
<input type="checkbox"/> 3 4lj9_A Chaperone protein CLPB;	91.0	2.3	7.3E-05	42.9	12.3	208	345-573	11-241 (339)
<input type="checkbox"/> 4 1a5t_A Delta prime, HOLB; zinc	89.5	2	6.3E-05	42.1	10.2	123	379-511	4-144 (334)
<input type="checkbox"/> 5 1jr3_A DNA polymerase III subu	89.0	5.9	0.00019	39.1	13.2	158	388-566	22-211 (373)
<input type="checkbox"/> 6 2gno_A DNA polymerase III, gam	88.0	2.4	7.6E-05	41.0	9.5	113	390-511	5-118 (305)
<input type="checkbox"/> 7 1r6b_X CLPA protein; AAA+, N-t	84.2	20	0.00064	40.8	15.6	206	345-573	426-652 (758)
<input type="checkbox"/> 8 1iqp_A RFCS; clamp loader, ext	81.7	4.7	0.00015	39.1	8.3	115	388-511	31-146 (327)
<input type="checkbox"/> 9 1njg_A DNA polymerase III subu	76.9	15	0.00048	34.7	9.9	117	388-511	29-162 (250)
<input type="checkbox"/> 10 1gvn_B Zeta; postsegregational	72.5	37	0.0012	32.1	11.4	119	384-512	10-146 (287)
<input type="checkbox"/> 11 3zh9_B Delta; hydrolase, repli	71.3	9.6	0.0003	37.6	7.2	106	392-511	3-118 (347)
<input type="checkbox"/> 12 1shu_X Anthrax toxin receptor	68.1	9.8	0.00031	33.7	6.0	135	349-496	44-182 (182)
<input type="checkbox"/> 13 3u61_B DNA polymerase accessor	61.0	41	0.0013	32.3	9.3	104	383-511	31-142 (324)
<input type="checkbox"/> 14 1sxj_C Activator 1 40 kDa subu	60.2	28	0.00088	34.2	8.1	115	388-511	31-146 (340)
<input type="checkbox"/> 15 3t15_A Ribulose biphosphate c	56.5	56	0.0017	31.8	9.4	117	388-511	18-161 (293)
<input type="checkbox"/> 16 1sxj_E Activator 1 40 kDa subu	52.4	1.4E+02	0.0045	28.6	11.5	119	388-511	20-170 (354)
<input type="checkbox"/> 17 2chg_A Replication factor C sm	51.6	42	0.0013	31.9	7.5	115	388-511	23-138 (319)
<input type="checkbox"/> 18 1jql_B DNA polymerase III, del	50.3	59	0.0018	28.2	7.7	99	394-511	9-113 (140)
<input type="checkbox"/> 19 2x8a_A Nuclear valosin-contain	50.2	1.3E+02	0.0041	28.9	10.8	100	405-511	42-152 (274)
<input type="checkbox"/> 20 4hqf_A Thrombospondin-related	42.8	1.7E+02	0.0053	27.9	10.3	117	366-496	87-210 (281)
<input type="checkbox"/> 21 2chg_A Replication factor C sm	41.8	2.1E+02	0.0065	25.8	13.0	158	388-563	23-192 (226)
<input type="checkbox"/> 22 1d2n_A N-ethylmaleimide-sensit	41.7	2.7E+02	0.0084	27.0	14.3	120	384-511	43-173 (272)
<input type="checkbox"/> 23 2bjv_A PSP operon transcriptio	37.3	2.5E+02	0.0079	26.9	10.6	127	372-511	1-147 (265)
<input type="checkbox"/> 24 4b4t_H 26S protease regulatory	35.9	1.5E+02	0.0047	31.5	9.5	101	405-511	241-354 (467)
<input type="checkbox"/> 25 2lco_A WALP19-P8 peptide; pro	35.2	27	0.00086	24.0	2.4	17	337-353	3-19 (26)
<input type="checkbox"/> 26 1jr3_D DNA polymerase III, del	33.6	3.7E+02	0.011	26.3	12.1	105	394-512	9-114 (343)
<input type="checkbox"/> 27 2lcn_A WALP19-P10 peptide; pro	33.5	30	0.00095	23.8	2.4	17	337-353	3-19 (26)

T lqvr_A 744 FLNRL-DEIVVFRP 756 (854)
T ss_dssp HHHTC-SBCCBCCC
T ss_pred Hhhc-CeEEeCCc

No 3 [Icons: PDB, SCOP, NCBI, PubMed]

>4lj9_A Chaperone protein CLPb; AAA+ protein, nucleotide binding domain, molecular chaperone disaggregase; HET: ACP; 1.70A {Thermus thermophilus}; PDB: 4lj8_A* 4lja_A* 4lj6_A* 4lj4_A* 4lj5_A* 4lj7_A* 4fd2_A* 4fct_A* 4fc4fcv_A*
Probab=90.98 E-value=2.3 Score=42.90 Aligned_cols=208 Identities=14% Similarity=0.197 Sum_probs=0.0

Q ss_pred HHHHHHHhhcCCcccCchHHHHHHHHHHhhcCCCCHHHHHHHHHHhhcCCCCCceEEEEcCc---ccHHHH
Q lqvr_A 345 AALASGSPWFSTPEVETTAVQEFQNMNQLKNKYQGQDEKLWKRSTFLEKHLNSSHPRSQPALLLTAAR--DABEAL 422 (583)
Q Consensus 345 lai-vg-----Pqv--tave-f-----qLkSkFPsQse-LWkrlr--LekhLnts-Pr-ePAVLLtA-----Ae-TL 422 (583)

Q ss_pred HHHHHHHHHhhccccCceeEecCccccChhh-----HHHHHHHHHHhhcCCcEEEEehhhCCHHHH
Q lqvr_A 423 RCLSEQIADAYSSFRSRAIRIDGTDKATQDSDT-----VKLEVDQELNSGPKNGQAAVHRFESFPAGST 489 (583)
Q Consensus 423 qClae-IAdaysS--s--aI-IDG--a--DSD-----vKleIDeqLks-F--g-kaAVVh-LE-LPP-Aa 489 (583)

Q ss_pred HHHHHhCC-----CCcCcccEEEEEeccccccCChHHHHHHHHHHhhccccccccCChhhchHH
Q lqvr_A 490 LIFKYCDH-----ENAAFKDVALVLTVLEETLGTSLGLKEVEKVRDFLKVKTNSNTPNYNHMDPKLNGLW 561 (583)
Q Consensus 490 LIIFH-YCDH-----ENA-fkDValfLTV-leeetl--s-slkeVEkV-dfL--k-----swN-Md-DklDgLI 561 (583)

Q ss_pred HhhcCeEEec
Q lqvr_A 562 SRISHLVLPVQP 573 (583)
Q Consensus 562 SRISh-VLpVqP 573 (583)
T Consensus 231 -R---i-f-- 241 (339)
T 4lj9_A 231 NRL-DEIVVFRP 241 (339)
T ss_dssp TTS-SEEEeCCc
T ss_pred ccC-CEEEeCCc

No 4 [Icons: PDB, SCOP, NCBI, PubMed]

>1a5t_A Delta prime, HOLB; zinc finger, DNA replication; 2.20A {Escherichia coli K12}; SCOP: a.80.1.1 c.37.1.20
PDB: 1jr3_E* 1xxh_E* 1xxi_E* 3glf_E* 3glg_E* 3glh_E* 3gli_E*
Probab=89.53 E-value=2 Score=42.11 Aligned_cols=123 Identities=11% Similarity=0.056 Sum_probs=0.0

Q ss_pred cCCCCHHHHHHHHHHhhcCCCCCceEEEEcCcccHHHH-HHHHHHH-----HhccccCce
Q lqvr_A 379 YQGDEKLWKRSTFLEKHLNSSHPRSQPALLLTAARDAEAL-RCLSEQIATA-----DAYSSFRSRA 441 (583)
Q Consensus 379 PPsQse-LWkrlr--LekhLnts-Pr-ePAVLLtA--Ae-TL-qClae-IA-----daySS--s--a 441 (583)

Q ss_pred eEecCccccCh-hHHHHHHHHHHhhcCCcEEEEehhhCCHHHHHHHhhcCCCCcCcccEEEEE
Q lqvr_A 442 I-RDGTDKATQDS-DTVKLEVDQELNSGPKNGQAAVHRFESFPAGSTLIFKYCDHENAAFKDVALVLT 511 (583)
Q Consensus 442 I-IDG--a--DS-D-vKleIDeqLks-F--g-kaAVVh-LE-LPP-AaLIIFH-YCDHENA-fkDValfLT 511 (583)

No 5 [Icons: PDB, SCOP, NCBI, PubMed]

>1jr3_A DNA polymerase III subunit gamma; processivity, processivity clamp, clamp loader, AAA+ ATPase, transferase; HET: DNA; 2.70A {Escherichia coli}; SCOP: a.80.1.1 c.37.1.20 PDB: 1xxh_B* 3glh_B* 3glf_B* 3gli_B* 3glg1xxi_B*
Probab=89.00 E-value=5.9 Score=39.15 Aligned_cols=158 Identities=14% Similarity=0.173 Sum_probs=0.0

Q ss_pred HHHHHHHHHhhcCCCCCceEEEEcCcccHHHHHHHHHHHH-----hccccCceEEcCc
Q lqvr_A 388 KRSTFLEKHLNSSHPRSQPALLLTAARDAEALRCLSEQIADA-----YSSFRSRAIRIDGT 447 (583)
Q Consensus 388 krlr--LekhLnts-Pr-ePAVLLtA--Ae-TLqClae-IA-----ySS--s--aI-IDG- 447 (583)

Q ss_pred cccccChHHHHHHHHHHhhcCCcEEEEehhhCCHHHHHHHhhcCCCCcCcccEEEEEeccccccC-----
Q lqvr_A 448 DKATQDSDTVKLEVDQELNSGPKNGQAAVHRFESFPAGSTLIFKYCDHENAAFKDVALVLTVLEETLGT----- 521 (583)
Q Consensus 448 --a--DSD-vKleIDeqLks-F--g-kaAVVh-LE-LPP-AaLIIFH-YCDHENA-fkDValfLTV-leeetl----- 521 (583)

