
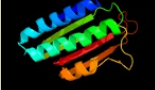

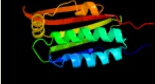

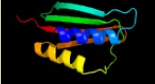


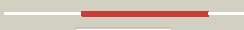





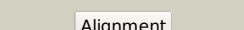









# Phyre2

Email	mdejesus@rockefeller.edu
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Date	Thu Aug 8 16:20:49 BST 2019
Unique Job ID	bea91cda424696c9




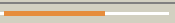
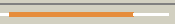
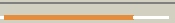
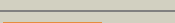
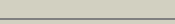

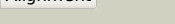
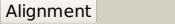


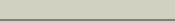

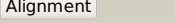
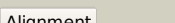


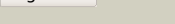
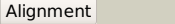



Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">d1th8a_</a>	 Alignment		99.9	16	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase
2	<a href="#">c3ke6A_</a>	 Alignment		99.8	16	<b>PDB header:</b> unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> protein rv1364c/mt1410; <b>PDBTitle:</b> the crystal structure of the rsbu and rsbw domains of rv1364c from2 mycobacterium tuberculosis
3	<a href="#">c4ew8A_</a>	 Alignment		98.9	18	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor protein divl; <b>PDBTitle:</b> crystal structure of a c-terminal part of tyrosine kinase (divl) from2 caulobacter crescentus cb15 at 2.50 a resolution (psi community3 target, shapiro l.)
4	<a href="#">c4gt8A_</a>	 Alignment		98.8	10	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor protein vras; <b>PDBTitle:</b> crystal structure of the catalytic and atp-binding domain from vras in2 complex with adp
5	<a href="#">c4u7nA_</a>	 Alignment		98.8	12	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> histidine protein kinase sensor protein; <b>PDBTitle:</b> inactive structure of histidine kinase
6	<a href="#">c3ehgA_</a>	 Alignment		98.8	11	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor kinase (yocf protein); <b>PDBTitle:</b> crystal structure of the atp-binding domain of desk in complex with2 atp
7	<a href="#">c2c2aA_</a>	 Alignment		98.7	11	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor histidine kinase; <b>PDBTitle:</b> structure of the entire cytoplasmic portion of a sensor2 histidine kinase protein
8	<a href="#">c3d36B_</a>	 Alignment		98.7	14	<b>PDB header:</b> transferase/transferase inhibitor <b>Chain:</b> B: <b>PDB Molecule:</b> sporulation kinase b; <b>PDBTitle:</b> how to switch off a histidine kinase: crystal structure of2 geobacillus stearothermophilus kinb with the inhibitor sda
9	<a href="#">c1qjvA_</a>	 Alignment		98.7	11	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase; <b>PDBTitle:</b> branched-chain alpha-ketoacid dehydrogenase kinase (bck) complexed with2 atp-gamma-s
10	<a href="#">c3tz5A_</a>	 Alignment		98.7	11	<b>PDB header:</b> transferase/transferase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> [3-methyl-2-oxobutanoate dehydrogenase [lipoamide]] kinase, <b>PDBTitle:</b> crystal structure of branched-chain alpha-ketoacid dehydrogenase2 kinase/phenylbutyrate complex with adp
11	<a href="#">c3d2rB_</a>	 Alignment		98.7	15	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> [pyruvate dehydrogenase [lipoamide]] kinase isozyme 4; <b>PDBTitle:</b> crystal structure of pyruvate dehydrogenase kinase isoform 4 in2 complex with adp

12	<a href="#">c4kp4B_</a>	Alignment		98.7	10	<b>PDB header:</b> transferase/signaling protein <b>Chain:</b> B: <b>PDB Molecule:</b> osmolarity sensor protein envz, histidine kinase; <b>PDBTitle:</b> deciphering cis-trans directionality and visualizing2 autophosphorylation in histidine kinases.
13	<a href="#">c4r39A_</a>	Alignment		98.6	13	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> blue-light-activated histidine kinase 2; <b>PDBTitle:</b> histidine kinase domain from erythrobacter litoralis el346 blue-light2 activated histidine kinase
14	<a href="#">c2ch4A_</a>	Alignment		98.6	20	<b>PDB header:</b> transferase/chemotaxis <b>Chain:</b> A: <b>PDB Molecule:</b> chemotaxis protein chea; <b>PDBTitle:</b> complex between bacterial chemotaxis histidine kinase chea2 domains p4 and p5 and receptor-adaptor protein chew
15	<a href="#">c4i5sA_</a>	Alignment		98.6	11	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> putative histidine kinase covs; vick-like protein; <b>PDBTitle:</b> structure and function of sensor histidine kinase
16	<a href="#">c2bu8A_</a>	Alignment		98.6	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> pyruvate dehydrogenase kinase isoenzyme 2; <b>PDBTitle:</b> crystal structures of human pyruvate dehydrogenase kinase 2 containing2 physiological and synthetic ligands
17	<a href="#">c1b3qA_</a>	Alignment		98.6	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> protein (chemotaxis protein chea); <b>PDBTitle:</b> crystal structure of chea-289, a signal transducing histidine kinase
18	<a href="#">d2c2aa2</a>	Alignment		98.5	10	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase
19	<a href="#">c2q8fA_</a>	Alignment		98.5	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> [pyruvate dehydrogenase [lipoamide]] kinase isozyme 1; <b>PDBTitle:</b> structure of pyruvate dehydrogenase kinase isoform 1
20	<a href="#">c3crlB_</a>	Alignment		98.5	16	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> pyruvate dehydrogenase [lipoamide] kinase isozyme 2, <b>PDBTitle:</b> crystal structure of the pdhk2-l2 complex.
21	<a href="#">d1ysra1</a>	Alignment	not modelled	98.5	15	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase
22	<a href="#">c3zxqA_</a>	Alignment	not modelled	98.5	17	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> hypoxia sensor histidine kinase response regulator dost; <b>PDBTitle:</b> crystal structure of the atp-binding domain of mycobacterium2 tuberculosis dost
23	<a href="#">c3gieA_</a>	Alignment	not modelled	98.4	12	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor histidine kinase desk; <b>PDBTitle:</b> crystal structure of deskc_h188e in complex with amp-pcp
24	<a href="#">c3a0tA_</a>	Alignment	not modelled	98.4	8	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor protein; <b>PDBTitle:</b> catalytic domain of histidine kinase thka (tm1359) in complex with adp2 and mg ion (trigonal)
25	<a href="#">d1i58a_</a>	Alignment	not modelled	98.4	22	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase
26	<a href="#">c3a0rA_</a>	Alignment	not modelled	98.4	8	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor protein; <b>PDBTitle:</b> crystal structure of histidine kinase thka (tm1359) in complex with2 response regulator protein trra (tm1360)
27	<a href="#">c1y8oA_</a>	Alignment	not modelled	98.3	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> [pyruvate dehydrogenase [lipoamide]] kinase isozyme 3; <b>PDBTitle:</b> crystal structure of the pdk3-l2 complex
28	<a href="#">c3sl2A_</a>	Alignment	not modelled	98.3	9	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> sensor histidine kinase yycg; <b>PDBTitle:</b> atp forms a stable complex with the essential histidine

					kinase walk2 (yycg) domain
29	<a href="#">c3zxoB</a>	Alignment	not modelled	98.3	15 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> redox sensor histidine kinase response regulator dev5; <b>PDBTitle:</b> crystal structure of the mutant atp-binding domain of2 mycobacterium tuberculosis doss
30	<a href="#">c6blkB</a>	Alignment	not modelled	98.3	10 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> signal transduction histidine-protein kinase/phosphatase <b>PDBTitle:</b> mycobacterial sensor histidine kinase mprb
31	<a href="#">c3jz3B</a>	Alignment	not modelled	98.3	10 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> sensor protein qsec; <b>PDBTitle:</b> structure of the cytoplasmic segment of histidine kinase qsec
32	<a href="#">d1gkza2</a>	Alignment	not modelled	98.2	13 <b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> alpha-ketoacid dehydrogenase kinase, C-terminal domain
33	<a href="#">d1jm6a2</a>	Alignment	not modelled	98.2	16 <b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> alpha-ketoacid dehydrogenase kinase, C-terminal domain
34	<a href="#">c4biyD</a>	Alignment	not modelled	98.1	10 <b>PDB header:</b> transferase <b>Chain:</b> D: <b>PDB Molecule:</b> sensor protein cpxa; <b>PDBTitle:</b> crystal structure of cpxahdc (monoclinic form 2)
35	<a href="#">c4gczB</a>	Alignment	not modelled	98.1	10 <b>PDB header:</b> signaling protein, de novo protein <b>Chain:</b> B: <b>PDB Molecule:</b> blue-light photoreceptor, sensor protein fixl; <b>PDBTitle:</b> structure of a blue-light photoreceptor
36	<a href="#">d1id0a</a>	Alignment	not modelled	98.0	8 <b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase
37	<a href="#">c4biuB</a>	Alignment	not modelled	98.0	9 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> sensor protein cpxa; <b>PDBTitle:</b> crystal structure of cpxahdc (orthorhombic form 1)
38	<a href="#">d1bxda</a>	Alignment	not modelled	98.0	8 <b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase
39	<a href="#">c5epvB</a>	Alignment	not modelled	97.8	16 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> blue-light-activated histidine kinase; <b>PDBTitle:</b> histidine kinase domain from the lov-hk blue-light receptor from2 brucella abortus
40	<a href="#">c5idjA</a>	Alignment	not modelled	97.8	20 <b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> cell cycle histidine kinase ccka; <b>PDBTitle:</b> bifunctional histidine kinase ccka (domains dhp-ca) in complex with2 adp/mg2+
41	<a href="#">c4r3aA</a>	Alignment	not modelled	97.7	11 <b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> blue-light-activated histidine kinase 2; <b>PDBTitle:</b> erythrobacter litoralis el346 blue-light activated histidine kinase
42	<a href="#">c4qpkA</a>	Alignment	not modelled	97.6	6 <b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> phosphotransferase; <b>PDBTitle:</b> 1.7 angstrom structure of a bacterial phosphotransferase
43	<a href="#">c4pl9A</a>	Alignment	not modelled	97.6	3 <b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> ethylene receptor 1; <b>PDBTitle:</b> structure of the catalytic domain of etr1 from arabidopsis thaliana
44	<a href="#">c5idmA</a>	Alignment	not modelled	97.5	18 <b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> cell cycle histidine kinase ccka; <b>PDBTitle:</b> bifunctional histidine kinase ccka (domain, ca) in complex with c-di-2 gmp and amppnp/mg2+
45	<a href="#">c4fmtB</a>	Alignment	not modelled	97.3	10 <b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> chpt protein; <b>PDBTitle:</b> crystal structure of a chpt protein (cc_3470) from caulobacter2 crescentus cb15 at 2.30 a resolution
46	<a href="#">c4bxiA</a>	Alignment	not modelled	97.2	13 <b>PDB header:</b> atp-binding protein <b>Chain:</b> A: <b>PDB Molecule:</b> accessory gene regulator protein c; <b>PDBTitle:</b> crystal structure of atp binding domain of agrc from2 staphylococcus aureus
47	<a href="#">c6e95A</a>	Alignment	not modelled	97.2	11 <b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> staphylococcus aureus agrc histidine kinase module fused to <b>PDBTitle:</b> chimeric structure of saccharomyces cerevisiae gcn4 leucine zipper2 fused to staphylococcus aureus agrc cytoplasmic histidine kinase3 module (dataset isotropically truncated by hkl2000)
48	<a href="#">c4ctiA</a>	Alignment	not modelled	97.0	10 <b>PDB header:</b> signaling protein <b>Chain:</b> A: <b>PDB Molecule:</b> osmolarity sensor protein envz, af1503; <b>PDBTitle:</b> escherichia coli envz histidine kinase catalytic part fused to2 archaeoglobus fulgidus af1503 hamp domain
49	<a href="#">c6dk8B</a>	Alignment	not modelled	96.8	10 <b>PDB header:</b> signaling protein <b>Chain:</b> B: <b>PDB Molecule:</b> rets (regulator of exopolysaccharide and type iii <b>PDBTitle:</b> rets kinase region without cobalt
50	<a href="#">c4geeA</a>	Alignment	not modelled	96.7	20 <b>PDB header:</b> isomerase/isomerase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> dna gyrase subunit b; <b>PDBTitle:</b> pyrrolopyrimidine inhibitors of dna gyrase b and topoisomerase iv,2 part i: structure guided discovery and optimization of dual targeting3 agents with potent, broad-spectrum enzymatic activity.
51	<a href="#">d1r62a</a>	Alignment	not modelled	96.6	10 <b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Histidine kinase <b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase

52	<a href="#">d2hkja3</a>	Alignment	not modelled	96.5	10	II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
53	<a href="#">d1y8oa2</a>	Alignment	not modelled	96.3	13	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> alpha-ketoacid dehydrogenase kinase, C-terminal domain
54	<a href="#">c4emvA_</a>	Alignment	not modelled	96.2	22	<b>PDB header:</b> isomerase/isomerase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> dna topoisomerase iv, b subunit; <b>PDBTitle:</b> crystal structure of a topoisomerase atp inhibitor
55	<a href="#">c4b6cB_</a>	Alignment	not modelled	95.7	20	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> dna gyrase subunit b,dna gyrase subunit b,dna gyrase <b>PDBTitle:</b> structure of the m. smegmatis gyrb atpase domain in complex with an2 aminopyrazinamide
56	<a href="#">d1h7sa2</a>	Alignment	not modelled	95.6	20	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
57	<a href="#">d1pvga2</a>	Alignment	not modelled	95.2	15	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
58	<a href="#">c1zxnB_</a>	Alignment	not modelled	95.0	13	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> dna topoisomerase ii, alpha isozyyme; <b>PDBTitle:</b> human dna topoisomerase iia atpase/adp
59	<a href="#">c3zm7E_</a>	Alignment	not modelled	94.8	19	<b>PDB header:</b> isomerase <b>Chain:</b> E: <b>PDB Molecule:</b> dna gyrase subunit b; <b>PDBTitle:</b> crystal structure of the atpase region of mycobacterium2 tuberculosis gyrb with amppcp
60	<a href="#">c5j5pB_</a>	Alignment	not modelled	94.7	22	<b>PDB header:</b> isomerase/dna <b>Chain:</b> B: <b>PDB Molecule:</b> dna topoisomerase 4 subunit b; <b>PDBTitle:</b> amp-pnp-stabilized atpase domain of topoisomerase iv from2 streptococcus pneumoniae, complex type i
61	<a href="#">c1qzrA_</a>	Alignment	not modelled	94.4	15	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> dna topoisomerase ii; <b>PDBTitle:</b> crystal structure of the atpase region of saccharomyces cerevisiae2 topoisomerase ii bound to icrf-187 (dexrazoxane)
62	<a href="#">d1ixma_</a>	Alignment	not modelled	94.3	10	<b>Fold:</b> Sporulation response regulatory protein Spo0B <b>Superfamily:</b> Sporulation response regulatory protein Spo0B <b>Family:</b> Sporulation response regulatory protein Spo0B
63	<a href="#">c4hymA_</a>	Alignment	not modelled	94.3	15	<b>PDB header:</b> isomerase/isomerase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> topoisomerase iv, subunit b; <b>PDBTitle:</b> pyrrolopyrimidine inhibitors of dna gyrase b and topoisomerase iv,2 part i: structure guided discovery and optimization of dual targeting3 agents with potent, broad-spectrum enzymatic activity.
64	<a href="#">c3g7bB_</a>	Alignment	not modelled	94.0	20	<b>PDB header:</b> isomerase/isomerase inhibitor <b>Chain:</b> B: <b>PDB Molecule:</b> dna gyrase subunit b; <b>PDBTitle:</b> staphylococcus aureus gyrase b co-complex with methyl ({5-[4-(4-2 hydroxypiperidin-1-yl)-2-phenyl-1,3-thiazol-5-yl]-1h-pyrazol-3-3 yl)methyl}carbamate inhibitor
65	<a href="#">d1s14a_</a>	Alignment	not modelled	93.5	23	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
66	<a href="#">d1kija2</a>	Alignment	not modelled	93.5	11	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
67	<a href="#">d1ei1a2</a>	Alignment	not modelled	93.2	16	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
68	<a href="#">c3lnuA_</a>	Alignment	not modelled	93.0	25	<b>PDB header:</b> isomerase <b>Chain:</b> A: <b>PDB Molecule:</b> topoisomerase iv subunit b; <b>PDBTitle:</b> crystal structure of pare subunit
69	<a href="#">d1bkna2</a>	Alignment	not modelled	92.9	6	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
70	<a href="#">c6gauB_</a>	Alignment	not modelled	91.3	19	<b>PDB header:</b> dna binding protein <b>Chain:</b> B: <b>PDB Molecule:</b> dna gyrase subunit b,dna gyrase subunit a; <b>PDBTitle:</b> extremely 'open' clamp structure of dna gyrase: role of the2 corynebacteriales gyrb specific insert
71	<a href="#">c2zkbB_</a>	Alignment	not modelled	91.3	11	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> type 2 dna topoisomerase 6 subunit b; <b>PDBTitle:</b> crystal structure of an intact type ii dna topoisomerase:2 insights into dna transfer mechanisms
72	<a href="#">d1b63a2</a>	Alignment	not modelled	91.1	8	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain
73	<a href="#">c1ei1B_</a>	Alignment	not modelled	91.0	17	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> dna gyrase b; <b>PDBTitle:</b> dimerization of e. coli dna gyrase b provides a structural mechanism2 for activating the atpase catalytic center
74	<a href="#">c1mx0D_</a>	Alignment	not modelled	90.9	10	<b>PDB header:</b> isomerase <b>Chain:</b> D: <b>PDB Molecule:</b> type ii dna topoisomerase vi subunit b; <b>PDBTitle:</b> structure of topoisomerase subunit

75	<a href="#">d1s16a2</a>	 Alignment	not modelled	90.5	15	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> DNA gyrase/MutL, N-terminal domain <b>PDB header:</b> isomerase
76	<a href="#">c1s16B</a>	 Alignment	not modelled	90.2	15	<b>Chain:</b> B: <b>PDB Molecule:</b> topoisomerase iv subunit b; <b>PDBTitle:</b> crystal structure of e. coli topoisomerase iv pare 43kda subunit2 complexed with adppnp
77	<a href="#">c1kijB</a>	 Alignment	not modelled	90.1	11	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> dna gyrase subunit b; <b>PDBTitle:</b> crystal structure of the 43k atpase domain of thermus thermophilus2 gyrase b in complex with novobiocin
78	<a href="#">c3na3A</a>	 Alignment	not modelled	89.1	10	<b>PDB header:</b> protein binding <b>Chain:</b> A: <b>PDB Molecule:</b> dna mismatch repair protein mlh1; <b>PDBTitle:</b> mutl protein homolog 1 isoform 1 from homo sapiens
79	<a href="#">c4gfhA</a>	 Alignment	not modelled	89.0	13	<b>PDB header:</b> isomerase/dna <b>Chain:</b> A: <b>PDB Molecule:</b> dna topoisomerase 2; <b>PDBTitle:</b> topoisomerase ii-dna-amppnp complex
80	<a href="#">c6nb0A</a>	 Alignment	not modelled	87.7	15	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> histidine kinase; <b>PDBTitle:</b> crystal structure of histidine kinase from burkholderia phymatum2 stm815
81	<a href="#">c3h4IB</a>	 Alignment	not modelled	87.6	18	<b>PDB header:</b> dna binding protein, protein binding <b>Chain:</b> B: <b>PDB Molecule:</b> dna mismatch repair protein pms1; <b>PDBTitle:</b> crystal structure of n terminal domain of a dna repair protein
82	<a href="#">c1ea6A</a>	 Alignment	not modelled	87.3	18	<b>PDB header:</b> dna repair <b>Chain:</b> A: <b>PDB Molecule:</b> pms1 protein homolog 2; <b>PDBTitle:</b> n-terminal 40kda fragment of nhpms2 complexed with adp
83	<a href="#">c2q2eB</a>	 Alignment	not modelled	81.9	14	<b>PDB header:</b> isomerase <b>Chain:</b> B: <b>PDB Molecule:</b> type 2 dna topoisomerase 6 subunit b; <b>PDBTitle:</b> crystal structure of the topoisomerase vi holoenzyme from2 methanosarcina mazei
84	<a href="#">c3lmmA</a>	 Alignment	not modelled	79.0	17	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of the dip2311 protein from corynebacterium2 diphtheriae, northeast structural genomics consortium target cdr35
85	<a href="#">c3lmmB</a>	 Alignment	not modelled	77.8	17	<b>PDB header:</b> structural genomics, unknown function <b>Chain:</b> B: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of the dip2311 protein from corynebacterium2 diphtheriae, northeast structural genomics consortium target cdr35
86	<a href="#">c1bknA</a>	 Alignment	not modelled	77.0	13	<b>PDB header:</b> dna repair <b>Chain:</b> A: <b>PDB Molecule:</b> mutl; <b>PDBTitle:</b> crystal structure of an n-terminal 40kd fragment of e. coli2 dna mismatch repair protein mutl
87	<a href="#">c5ix1A</a>	 Alignment	not modelled	70.3	9	<b>PDB header:</b> transcription <b>Chain:</b> A: <b>PDB Molecule:</b> morc family cw-type zinc finger protein 3; <b>PDBTitle:</b> crystal structure of mouse morc3 atpase-cw cassette in complex with2 amppnp and h3k4me3 peptide
88	<a href="#">d1uy1a</a>	 Alignment	not modelled	63.1	12	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Heat shock protein 90, HSP90, N-terminal domain <b>PDB header:</b> chaperone
89	<a href="#">c2fwyA</a>	 Alignment	not modelled	63.1	12	<b>Chain:</b> A: <b>PDB Molecule:</b> heat shock protein hsp 90-alpha; <b>PDBTitle:</b> structure of human hsp90-alpha bound to the potent water2 soluble inhibitor pu-h64
90	<a href="#">c4i3hA</a>	 Alignment	not modelled	60.9	22	<b>PDB header:</b> isomerase/dna <b>Chain:</b> A: <b>PDB Molecule:</b> topoisomerase iv subunit b, dna topoisomerase 4 subunit a <b>PDBTitle:</b> a three-gate structure of topoisomerase iv from streptococcus2 pneumoniae
91	<a href="#">c1zwhA</a>	 Alignment	not modelled	55.9	16	<b>PDB header:</b> chaperone <b>Chain:</b> A: <b>PDB Molecule:</b> atp-dependent molecular chaperone hsp82; <b>PDBTitle:</b> yeast hsp82 in complex with the novel hsp90 inhibitor radester amine
92	<a href="#">c2akpA</a>	 Alignment	not modelled	55.9	16	<b>PDB header:</b> chaperone <b>Chain:</b> A: <b>PDB Molecule:</b> atp-dependent molecular chaperone hsp82; <b>PDBTitle:</b> hsp90 delta24-n210 mutant
93	<a href="#">d2iwxa1</a>	 Alignment	not modelled	55.5	16	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Heat shock protein 90, HSP90, N-terminal domain <b>PDB header:</b> chaperone
94	<a href="#">c3iedA</a>	 Alignment	not modelled	53.8	14	<b>Chain:</b> A: <b>PDB Molecule:</b> heat shock protein; <b>PDBTitle:</b> crystal structure of n-terminal domain of plasmodium falciparum hsp902 (pf14_0417) in complex with amppn
95	<a href="#">c3omuB</a>	 Alignment	not modelled	51.7	14	<b>PDB header:</b> chaperone <b>Chain:</b> B: <b>PDB Molecule:</b> heat shock protein 83; <b>PDBTitle:</b> crystal structure of the n-terminal domain of an hsp90 from2 trypanosoma brucei, tb10.26.1080 in the presence of a3 thienopyrimidine derivative
96	<a href="#">d1uyma</a>	 Alignment	not modelled	50.8	14	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Heat shock protein 90, HSP90, N-terminal domain <b>PDB header:</b> chaperone
97	<a href="#">c5x9yC</a>	 Alignment	not modelled	40.6	8	<b>Chain:</b> C: <b>PDB Molecule:</b> dna mismatch repair protein mutl; <b>PDBTitle:</b> crystal structure of the atpase domain from bacterial mismatch repair2 endonuclease aquifex aeolicus mutl.
98	<a href="#">c2ierA</a>	 Alignment	not modelled	33.6	22	<b>PDB header:</b> chaperone <b>Chain:</b> A: <b>PDB Molecule:</b> chaperone protein htpg;



98	<a href="#">c20rA_</a>	Alignment	not modelled	33.0	43	<b>PDBTitle:</b> crystal structure of the n-terminal domain of htpg, the2 escherichia coli hsp90, bound to adp <b>PDB header:</b> chaperone
99	<a href="#">c2o1wB_</a>	Alignment	not modelled	33.5	9	<b>Chain:</b> B: <b>PDB Molecule:</b> endoplasmin; <b>PDBTitle:</b> structure of n-terminal plus middle domains (n+m) of grp94
100	<a href="#">c2iopD_</a>	Alignment	not modelled	30.0	21	<b>PDB header:</b> chaperone <b>Chain:</b> D: <b>PDB Molecule:</b> chaperone protein htpg; <b>PDBTitle:</b> crystal structure of full-length htpg, the escherichia coli2 hsp90, bound to adp
101	<a href="#">c2o1uA_</a>	Alignment	not modelled	28.1	10	<b>PDB header:</b> chaperone <b>Chain:</b> A: <b>PDB Molecule:</b> endoplasmin; <b>PDBTitle:</b> structure of full length grp94 with amp-pnp bound
102	<a href="#">d1qy5a_</a>	Alignment	not modelled	27.2	9	<b>Fold:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Superfamily:</b> ATPase domain of HSP90 chaperone/DNA topoisomerase II/histidine kinase <b>Family:</b> Heat shock protein 90, HSP90, N-terminal domain
103	<a href="#">c1y4sA_</a>	Alignment	not modelled	24.1	20	<b>PDB header:</b> chaperone <b>Chain:</b> A: <b>PDB Molecule:</b> chaperone protein htpg; <b>PDBTitle:</b> conformation rearrangement of heat shock protein 90 upon2 adp binding
104	<a href="#">c3pehB_</a>	Alignment	not modelled	23.3	7	<b>PDB header:</b> chaperone <b>Chain:</b> B: <b>PDB Molecule:</b> endoplasmin homolog; <b>PDBTitle:</b> crystal structure of the n-terminal domain of an hsp90 from plasmodium2 falciparum, pfl1070c in the presence of a thienopyrimidine derivative
105	<a href="#">c4j0bB_</a>	Alignment	not modelled	21.9	5	<b>PDB header:</b> chaperone <b>Chain:</b> B: <b>PDB Molecule:</b> tnf receptor-associated protein 1; <b>PDBTitle:</b> structure of mitochondrial hsp90 (trap1) with adp-bef3