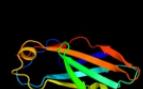
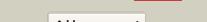
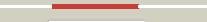
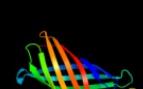
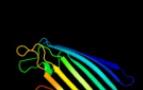


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P39165
Date	Thu Jan 5 11:58:19 GMT 2012
Unique Job ID	3a114e247d0e1c71

Detailed template information

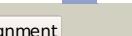
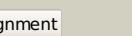
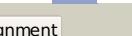
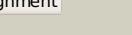
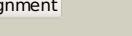
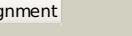
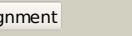
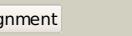
#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3pdgA_			97.0	13	PDB header: unknown function Chain: A: PDB Molecule: fibronectin(iii)-like module; PDBTitle: structures of clostridium thermocellum cbha fibronectin(iii)-like2 modules
2	c3pe9A_			97.0	8	PDB header: unknown function Chain: A: PDB Molecule: fibronectin(iii)-like module; PDBTitle: structures of clostridium thermocellum cbha fibronectin(iii)-like2 modules
3	c3pe9C_			96.9	8	PDB header: unknown function Chain: C: PDB Molecule: fibronectin(iii)-like module; PDBTitle: structures of clostridium thermocellum cbha fibronectin(iii)-like2 modules
4	c3pe9D_			96.5	9	PDB header: unknown function Chain: D: PDB Molecule: fibronectin(iii)-like module; PDBTitle: structures of clostridium thermocellum cbha fibronectin(iii)-like2 modules
5	c3pe9B_			96.1	8	PDB header: unknown function Chain: B: PDB Molecule: fibronectin(iii)-like module; PDBTitle: structures of clostridium thermocellum cbha fibronectin(iii)-like2 modules
6	c3nb3C_			95.9	19	PDB header: virus Chain: C: PDB Molecule: outer membrane protein a; PDBTitle: the host outer membrane proteins ompa and ompc are packed at specific2 sites in the shigella phage sf6 virion as structural components
7	d1qj8a_			95.7	14	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
8	c3graA_			94.6	15	PDB header: cell invasion Chain: A: PDB Molecule: attachment invasion locus protein; PDBTitle: the crystal structure of ail, the attachment invasion locus protein of2 yersinia pestis
9	d1phoa_			94.2	11	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
10	c3pddA_			93.0	11	PDB header: unknown function Chain: A: PDB Molecule: glycoside hydrolase, family 9; PDBTitle: structures of clostridium thermocellum cbha fibronectin(iii)-like2 modules
11	d1osma_			92.9	14	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin

12	c2f1tB			92.6	15	PDB header: membrane protein Chain: B: PDB Molecule: outer membrane protein w; PDBTitle: outer membrane protein ompw
13	c2x4mD			92.5	17	PDB header: hydrolase Chain: D: PDB Molecule: coagulase/fibrinolysin; PDBTitle: yersinia pestis plasminogen activator pla
14	d2zfga1			91.9	12	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
15	c2k0IA			91.6	19	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein a; PDBTitle: nmr structure of the transmembrane domain of the outer2 membrane protein a from klebsiella pneumoniae in dhpc3 micelles.
16	c2jmmA			90.9	14	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein a; PDBTitle: nmr solution structure of a minimal transmembrane beta-2 barrel platform protein
17	d1t16a			90.1	14	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Outer membrane protein transport protein
18	d1g90a			89.8	18	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
19	d1qjpa			89.8	14	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
20	c2qomB			89.7	13	PDB header: hydrolase Chain: B: PDB Molecule: serine protease espp; PDBTitle: the crystal structure of the e.coli espp autotransporter beta-domain.
21	c3bryB		not modelled	88.4	9	PDB header: transport protein Chain: B: PDB Molecule: tbox; PDBTitle: crystal structure of the ralstonia pickettii toluene2 transporter tbox
22	c3brzA		not modelled	87.7	11	PDB header: transport protein Chain: A: PDB Molecule: tdx; PDBTitle: crystal structure of the pseudomonas putida toluene2 transporter tdx
23	c3aehb		not modelled	87.3	10	PDB header: hydrolase Chain: B: PDB Molecule: hemoglobin-binding protease hbp autotransporter; PDBTitle: integral membrane domain of autotransporter hbp
24	d1uynx		not modelled	81.7	11	Fold: Transmembrane beta-barrels Superfamily: Autotransporter Family: Autotransporter
25	c2yrlA		not modelled	81.4	16	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: kiaa1837 protein; PDBTitle: solution structure of the pkd domain from kiaa 1837 protein
26	c2x27X		not modelled	80.7	12	PDB header: membrane protein Chain: X: PDB Molecule: outer membrane protein oprg; PDBTitle: crystal structure of the outer membrane protein oprg from2 pseudomonas aeruginosa
27	d1p4ta		not modelled	79.2	13	Fold: Transmembrane beta-barrels Superfamily: OMPA-like Family: Outer membrane protein
28	d1i78a		not modelled	77.2	12	Fold: Transmembrane beta-barrels Superfamily: OMPT-like Family: Outer membrane protease OMPT
						Fold: Immunoglobulin-like beta-sandwich

29	d1wgoa	Alignment	not modelled	75.7	18	Superfamily: PKD domain Family: PKD domain
30	d2fcba2	Alignment	not modelled	72.2	19	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: I set domains
31	d1l0qa1	Alignment	not modelled	71.8	11	Fold: immunoglobulin-like beta-sandwich Superfamily: PKD domain Family: PKD domain
32	c3dwoX	Alignment	not modelled	71.5	14	PDB header: membrane protein Chain: X: PDB Molecule: probable outer membrane protein; PDBTitle: crystal structure of a pseudomonas aeruginosa fadl homologue
33	c2kzwA	Alignment	not modelled	68.5	18	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: solution nmr structure of q8psa4 from methanoscincina mazei, northeast2 structural genomics consortium target mar143a
34	d1fnla2	Alignment	not modelled	67.9	13	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: I set domains
35	d1f2qa2	Alignment	not modelled	65.4	12	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: I set domains
36	c3nsgA	Alignment	not modelled	61.5	13	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein f; PDBTitle: crystal structure of ompf, an outer membrane protein from salmonella2 typhi
37	c3qq2C	Alignment	not modelled	61.4	12	PDB header: membrane protein/protein transport Chain: C: PDB Molecule: brka autotransporter; PDBTitle: crystal structure of the beta domain of the bordetella autotransporter2 brka
38	c2lhfa	Alignment	not modelled	59.1	16	PDB header: membrane protein Chain: A: PDB Molecule: outer membrane protein h1; PDBTitle: solution structure of outer membrane protein h (oprh) from p.2 aeruginosa in dhpc micelles
39	c2e7mA	Alignment	not modelled	58.0	12	PDB header: structural protein Chain: A: PDB Molecule: protein kiaa0319; PDBTitle: solution structure of the pkd domain (329-428) from human2 kiaa0319
40	c3o3uN	Alignment	not modelled	57.5	15	PDB header: transport protein, signaling protein Chain: N: PDB Molecule: maltose-binding periplasmic protein, advanced glycosylation PDBTitle: crystal structure of human receptor for advanced glycation endproducts2 (rage)
41	d1epfa1	Alignment	not modelled	56.2	16	Fold: immunoglobulin-like beta-sandwich Superfamily: immunoglobulin Family: I set domains
42	c2a74B	Alignment	not modelled	55.8	9	PDB header: immune system Chain: B: PDB Molecule: complement component c3c; PDBTitle: human complement component c3c
43	d1pama3	Alignment	not modelled	55.6	19	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: alpha-Amylases, C-terminal beta-sheet domain
44	d1w8oa1	Alignment	not modelled	55.5	20	Fold: immunoglobulin-like beta-sandwich Superfamily: E set domains Family: E-set domains of sugar-utilizing enzymes
45	c2wxXB	Alignment		53.3	17	PDB header: chitin-binding protein Chain: B: PDB Molecule: glcnac-binding protein a; PDBTitle: vibrio cholerae colonization factor gbpA crystal structure
46	c2e7bA	Alignment	not modelled	51.4	13	PDB header: structural protein Chain: A: PDB Molecule: obscurin; PDBTitle: solution structure of the 6th ig-like domain from human2 kiaa1556
47	c2c26A	Alignment	not modelled	50.6	21	PDB header: hydrolase Chain: A: PDB Molecule: endoglucanase; PDBTitle: structural basis for the promiscuous specificity of the2 carbohydrate-binding modules from the beta-sandwich super3 family
48	c2ensA	Alignment	not modelled	50.5	22	PDB header: signaling protein Chain: A: PDB Molecule: advanced glycosylation end product-specific PDBTitle: solution structure of the third ig-like domain from human2 advanced glycosylation end product-specific receptor
49	d3bmva3	Alignment	not modelled	50.5	24	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: alpha-Amylases, C-terminal beta-sheet domain
50	d1qhoa3	Alignment	not modelled	49.7	19	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: alpha-Amylases, C-terminal beta-sheet domain
51	c3ubfA	Alignment	not modelled	49.1	19	PDB header: cell adhesion Chain: A: PDB Molecule: neural-cadherin; PDBTitle: crystal structure of drosophila n-cadherin ec1-3, i
52	c3jqua	Alignment	not modelled	48.5	14	PDB header: cell adhesion Chain: A: PDB Molecule: collagenase; PDBTitle: crystal structure of clostridium histolyticum colg collagenase2 polycystic kidney disease domain at 1.4 angstrom resolution
53	d1cyga3	Alignment	not modelled	47.2	19	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: alpha-Amylases, C-terminal beta-sheet domain

54	d1cxla3		Alignment	not modelled	46.4	22	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: alpha-Amylases, C-terminal beta-sheet domain
55	d1bih3		Alignment	not modelled	46.1	13	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
56	d1tiua_		Alignment	not modelled	45.2	14	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
57	c2ee0A_		Alignment	not modelled	45.1	9	PDB header: signaling protein Chain: A: PDB Molecule: protocadherin-9; PDBTitle: solution structures of the ca domain of human protocadherin 9
58	d2fdbp2		Alignment	not modelled	44.6	14	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
59	d1cgta3		Alignment	not modelled	43.8	15	Fold: Glycosyl hydrolase domain Superfamily: Glycosyl hydrolase domain Family: alpha-Amylases, C-terminal beta-sheet domain
60	c3ottB_		Alignment	not modelled	43.0	14	PDB header: transcription Chain: B: PDB Molecule: two-component system sensor histidine kinase; PDBTitle: crystal structure of the extracellular domain of the putative one2 component system bt4673 from b. thetaiotaomicron
61	c2wjqa_		Alignment	not modelled	41.9	11	PDB header: transport protein Chain: A: PDB Molecule: probable n-acetylneurameric acid outer membrane channel PDBTitle: nanc porin structure in hexagonal crystal form.
62	d1fcga2		Alignment	not modelled	41.9	20	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
63	c2k1mA_		Alignment	not modelled	41.4	11	PDB header: structural protein Chain: A: PDB Molecule: myosin-binding protein c, cardiac-type; PDBTitle: 3d nmr structure of domain cc0 of cardiac myosin binding2 protein c (mybpc)
64	c2o4vA_		Alignment	not modelled	40.9	14	PDB header: membrane protein Chain: A: PDB Molecule: porin p; PDBTitle: an arginine ladder in oprp mediates phosphate specific transfer across2 the outer membrane
65	c3ff7B_		Alignment	not modelled	40.6	16	PDB header: cell adhesion/immunee system Chain: B: PDB Molecule: epithelial cadherin; PDBTitle: structure of nk cell receptor klrg1 bound to e-cadherin
66	c1l0qC_		Alignment	not modelled	40.0	10	PDB header: protein binding Chain: C: PDB Molecule: surface layer protein; PDBTitle: tandem yvtn beta-propeller and pkd domains from an archaeal surface2 layer protein
67	c3s37X_		Alignment	not modelled	39.8	12	PDB header: immune system/transferase Chain: X: PDB Molecule: vascular endothelial growth factor receptor 2; PDBTitle: structural basis for the function of two anti-vegf receptor antibodies
68	c2enyA_		Alignment	not modelled	39.6	11	PDB header: contractile protein Chain: A: PDB Molecule: obscurin; PDBTitle: solution structure of the ig-like domain (2735-2825) of2 human obscurin
69	c3ppeB_		Alignment	not modelled	39.6	16	PDB header: cell adhesion Chain: B: PDB Molecule: vascular endothelial cadherin; PDBTitle: crystal structure of chicken ve-cadherin ec1-2
70	c2cr6A_		Alignment	not modelled	37.9	13	PDB header: contractile protein Chain: A: PDB Molecule: kiaa1556 protein; PDBTitle: solution structure of the ig domain (2998-3100) of human2 obscurin
71	c2gqhA_		Alignment	not modelled	37.4	12	PDB header: contractile protein Chain: A: PDB Molecule: kiaa1556 protein; PDBTitle: solution structure of the 15th ig-like domain of human2 kiaa1556 protein
72	c2jjsB_		Alignment	not modelled	37.4	10	PDB header: cell adhesion Chain: B: PDB Molecule: tyrosine-protein phosphatase non-receptor type PDBTitle: structure of human cd47 in complex with human signal2 regulatory protein (sirp) alpha
73	d2fgqx1		Alignment	not modelled	36.9	15	Fold: Transmembrane beta-barrels Superfamily: Porins Family: Porin
74	d1epfa2		Alignment	not modelled	36.8	13	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
75	c2cknA_		Alignment	not modelled	36.6	13	PDB header: transferase Chain: A: PDB Molecule: basic fibroblast growth factor receptor 1; PDBTitle: nmr structure of the first ig module of mouse fgfr1
76	c2dkuA_		Alignment	not modelled	36.6	11	PDB header: contractile protein Chain: A: PDB Molecule: kiaa1556 protein; PDBTitle: solution structure of the third ig-like domain of human2 kiaa1556 protein
77	d1gl4b_		Alignment	not modelled	36.1	13	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
78	d2nqda1		Alignment	not modelled	35.2	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: ICP-like Family: ICP-like
79	c2nmsA_		Alignment	not modelled	34.3	9	PDB header: immune system Chain: A: PDB Molecule: cmrf35-like-molecule 1; PDBTitle: the crystal structure of the extracellular domain of the2 inhibitor receptor expressed on myeloid cells irem-1

80	d1l3wa5	Alignment	not modelled	33.5	10	Fold: Immunoglobulin-like beta-sandwich Superfamily: Cadherin-like Family: Cadherin
81	c2e6pA_	Alignment	not modelled	32.9	14	PDB header: structural protein Chain: A: PDB Molecule: obscurin-like protein 1; PDBTitle: solution structure of the ig-like domain (714-804) from2 human obscurin-like protein 1
82	d1pd6a_	Alignment	not modelled	31.9	14	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
83	d1l3wa4	Alignment	not modelled	31.9	18	Fold: Immunoglobulin-like beta-sandwich Superfamily: Cadherin-like Family: Cadherin
84	c3hs0B_	Alignment	not modelled	31.8	11	PDB header: immune system Chain: B: PDB Molecule: cobra venom factor; PDBTitle: cobra venom factor (cvf) in complex with human factor b
85	c2bk8A_	Alignment	not modelled	31.2	14	PDB header: ig domain Chain: A: PDB Molecule: titin heart isoform n2-b; PDBTitle: m1 domain from titin
86	c1ncjA_	Alignment	not modelled	30.4	13	PDB header: cell adhesion protein Chain: A: PDB Molecule: protein (n-cadherin); PDBTitle: n-cadherin, two-domain fragment
87	c1gzpA_	Alignment	not modelled	30.1	15	PDB header: glycoprotein Chain: A: PDB Molecule: t-cell surface glycoprotein cd1b; PDBTitle: cd1b in complex with gm2 ganglioside
88	d1o75a1	Alignment	not modelled	29.4	15	Fold: Immunoglobulin-like beta-sandwich Superfamily: Tp47 lipoprotein, middle and C-terminal domains Family: Tp47 lipoprotein, middle and C-terminal domains
89	c1nchB_	Alignment	not modelled	28.8	16	PDB header: cell adhesion protein Chain: B: PDB Molecule: n-cadherin; PDBTitle: structural basis of cell-cell adhesion by cadherins
90	d1f97a2	Alignment	not modelled	28.8	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
91	c3m86B_	Alignment	not modelled	28.6	17	PDB header: protein binding Chain: B: PDB Molecule: amoebiasin-2; PDBTitle: crystal structure of the cysteine protease inhibitor, ehicp2, from2 entamoeba histolytica
92	c1bqsA_	Alignment	not modelled	27.6	16	PDB header: membrane protein Chain: A: PDB Molecule: protein (mucosal addressin cell adhesion PDBTitle: the crystal structure of mucosal addressin cell adhesion2 molecule-1 (madcam-1)
93	c3ff8B_	Alignment	not modelled	27.6	14	PDB header: cell adhesion/immune system Chain: B: PDB Molecule: epithelial cadherin; PDBTitle: structure of nk cell receptor klrg1 bound to e-cadherin
94	c1q5cA_	Alignment	not modelled	26.6	10	PDB header: structural protein Chain: A: PDB Molecule: ep-cadherin; PDBTitle: s-s-lambda-shaped trans and cis interactions of cadherins model based2 on fitting c-cadherin (1l3w) to 3d map of desmosomes obtained by3 electron tomography
95	c2edoA_	Alignment	not modelled	26.0	14	PDB header: cell adhesion Chain: A: PDB Molecule: cd48 antigen; PDBTitle: solution structure of the first ig-like domain from human2 cd48 antigen
96	c3a2rX_	Alignment	not modelled	25.9	15	PDB header: membrane protein Chain: X: PDB Molecule: outer membrane protein ii; PDBTitle: crystal structure of outer membrane protein porb from neisseria2 meningitidis
97	d1tlya_	Alignment	not modelled	25.7	19	Fold: Transmembrane beta-barrels Superfamily: Tsx-like channel Family: Tsx-like channel
98	c2y25C_	Alignment	not modelled	25.7	14	PDB header: structural protein Chain: C: PDB Molecule: myomesin; PDBTitle: crystal structure of the myomesin domains my11-my13
99	c2oxgE_	Alignment	not modelled	25.1	19	PDB header: transport protein Chain: E: PDB Molecule: soxz protein; PDBTitle: the soxz complex of paracoccus pantotrophus
100	c2yuvA_	Alignment	not modelled	25.0	11	PDB header: cell adhesion Chain: A: PDB Molecule: myosin-binding protein c, slow-type; PDBTitle: solution structure of 2nd immunoglobulin domain of slow2 type myosin-binding protein c
101	d1l3wa1	Alignment	not modelled	24.9	19	Fold: Immunoglobulin-like beta-sandwich Superfamily: Cadherin-like Family: Cadherin
102	c2nplX_	Alignment	not modelled	24.7	13	PDB header: cell adhesion Chain: X: PDB Molecule: coxsackievirus and adenovirus receptor; PDBTitle: nmr structure of card d2 domain
103	d1b4ra_	Alignment	not modelled	24.5	9	Fold: Immunoglobulin-like beta-sandwich Superfamily: PKD domain Family: PKD domain
104	d1bihal	Alignment	not modelled	23.1	13	Fold: Immunoglobulin-like beta-sandwich Superfamily: Immunoglobulin Family: I set domains
105	c3g6jB_	Alignment	not modelled	23.0	9	PDB header: immune system Chain: B: PDB Molecule: complement c3 alpha chain; PDBTitle: c3b in complex with a c3b specific fab
106	c2if7C_	Alignment	not modelled	22.8	21	PDB header: immune system Chain: C: PDB Molecule: slam family member 6; PDBTitle: crystal structure of ntb-a

107	d1u2ca1		not modelled	22.6	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: Cadherin-like Family: Dystroglycan, N-terminal domain
108	c1zvnA_		not modelled	22.2	13	PDB header: ---- Chain: A: PDB Molecule: mn-cadherin; PDBTitle: crystal structure of chick mn-cadherin ec1
109	c2yuzA_		not modelled	21.7	7	PDB header: immune system Chain: A: PDB Molecule: myosin-binding protein c, slow-type; PDBTitle: solution structure of 4th immunoglobulin domain of slow2 type myosin-binding protein c
110	c1hngB_		not modelled	21.5	15	PDB header: t lymphocyte adhesion glycoprotein Chain: B: PDB Molecule: cd2; PDBTitle: crystal structure at 2.8 angstroms resolution of a soluble2 form of the cell adhesion molecule cd2
111	c2a73B_		not modelled	21.3	10	PDB header: immune system Chain: B: PDB Molecule: complement c3; PDBTitle: human complement component c3
112	c3IndC_		not modelled	21.2	19	PDB header: cell adhesion Chain: C: PDB Molecule: cdh6 protein; PDBTitle: crystal structure of cadherin-6 ec12 w4a
113	c3mpcB_		not modelled	20.9	19	PDB header: unknown function Chain: B: PDB Molecule: fn3-like protein; PDBTitle: the crystal structure of a fn3-like protein from clostridium2 thermocellum
114	c1ncia_		not modelled	20.8	16	PDB header: cell adhesion protein Chain: A: PDB Molecule: n-cadherin; PDBTitle: structural basis of cell-cell adhesion by cadherins
115	d1ncia_		not modelled	20.8	16	Fold: Immunoglobulin-like beta-sandwich Superfamily: Cadherin-like Family: Cadherin
116	c2wd0C_		not modelled	20.2	9	PDB header: cell adhesion Chain: C: PDB Molecule: cadherin-23; PDBTitle: crystal structure of nonsyndromic deafness (dfnb12)2 associated mutant d124g of mouse cadherin-23 ec1-2