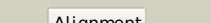
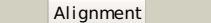
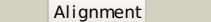
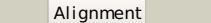
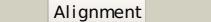
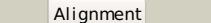


Phyre²

Email	i.a.kelley@imperial.ac.uk
Description	P0A8M3
Date	Thu Jan 5 11:08:11 GMT 2012
Unique Job ID	21bd3ef6b59ac1d9

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c1qf6A_			100.0	100	PDB header: ligase/rna Chain: A; PDB Molecule: threonyl-tRNA synthetase; PDBTitle: structure of e. coli threonyl-tRNA synthetase complexed with its2 cognate tRNA
2	c1nyqA_			100.0	44	PDB header: ligase Chain: A; PDB Molecule: threonyl-tRNA synthetase 1; PDBTitle: structure of staphylococcus aureus threonyl-tRNA synthetase2 complexed with an analogue of threonyl adenylate
3	c3a32A_			100.0	30	PDB header: ligase Chain: A; PDB Molecule: probable threonyl-tRNA synthetase 1; PDBTitle: crystal structure of putative threonyl-tRNA synthetase2 thrrs-1 from aeropyrum pernix
4	c1fyfB_			100.0	100	PDB header: ligase Chain: B; PDB Molecule: threonyl-tRNA synthetase; PDBTitle: crystal structure of a truncated form of threonyl-tRNA synthetase complexed with a seryl adenylate analog
5	c2i4IC_			100.0	22	PDB header: ligase Chain: C; PDB Molecule: proline-tRNA ligase; PDBTitle: rhodopseudomonas palustris prolyl-tRNA synthetase
6	d1nyra4			100.0	41	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
7	c2j3mA_			100.0	22	PDB header: ligase Chain: A; PDB Molecule: prolyl-tRNA synthetase; PDBTitle: prolyl-tRNA synthetase from enterococcus faecalis complexed with ATP, manganese and prolinol
8	d1qf6a4			100.0	100	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
9	c1ggmB_			100.0	19	PDB header: ligase Chain: B; PDB Molecule: protein (glycyl-tRNA synthetase); PDBTitle: glycyl-tRNA synthetase from thermus thermophilus complexed with 2 glycyl-adenylate
10	c3ialB_			100.0	21	PDB header: ligase Chain: B; PDB Molecule: prolyl-tRNA synthetase; PDBTitle: giardia lamblia prolyl-tRNA synthetase in complex with prolyl-2 adenylate
11	c1atiA_			100.0	18	PDB header: protein biosynthesis Chain: A; PDB Molecule: glycyl-tRNA synthetase; PDBTitle: crystal structure of glycyl-tRNA synthetase from thermus thermophilus

12	c1nj8C			100.0	21	PDB header: ligase Chain: C; PDB Molecule: proline-tRNA synthetase; PDB Title: crystal structure of prolyl-tRNA synthetase from2 methanocaldococcus janaschii
13	c1h4tD			100.0	23	PDB header: aminoacyl-tRNA synthetase Chain: D; PDB Molecule: prolyl-tRNA synthetase; PDB Title: prolyl-tRNA synthetase from thermus thermophilus complexed2 with l-proline
14	c1nj2A			100.0	22	PDB header: ligase Chain: A; PDB Molecule: proline-tRNA synthetase; PDB Title: crystal structure of prolyl-tRNA synthetase from methanothermobacter2 thermautrophicus
15	c1g5hA			100.0	14	PDB header: dna binding protein Chain: A; PDB Molecule: mitochondrial dna polymerase accessory subunit; PDB Title: crystal structure of the accessory subunit of murine mitochondrial2 polymerase gamma
16	c2pmfA			100.0	20	PDB header: ligase Chain: A; PDB Molecule: glycyl-tRNA synthetase; PDB Title: the crystal structure of a human glycyl-tRNA synthetase mutant
17	c1tkeA			100.0	100	PDB header: ligase Chain: A; PDB Molecule: threonyl-tRNA synthetase; PDB Title: crystal structure of the editing domain of threonyl-tRNA synthetase complexed with serine
18	c3ikmC			100.0	15	PDB header: transferase Chain: C; PDB Molecule: dNA polymerase subunit gamma-2; PDB Title: crystal structure of human mitochondrial dNA polymerase2 holoenzyme
19	c2el9B			100.0	16	PDB header: ligase Chain: B; PDB Molecule: histidyl-tRNA synthetase; PDB Title: crystal structure of e.coli histidyl-tRNA synthetase2 complexed with a histidyl-adenylate analogue
20	c1qe0B			100.0	18	PDB header: ligase Chain: B; PDB Molecule: histidyl-tRNA synthetase; PDB Title: crystal structure of apo s. aureus histidyl-tRNA synthetase
21	c1adyA		not modelled	100.0	21	PDB header: tRNA synthetase Chain: A; PDB Molecule: histidyl-tRNA synthetase; PDB Title: histidyl-tRNA synthetase in complex with histidyl-adenylate
22	c3netB		not modelled	100.0	14	PDB header: ligase Chain: B; PDB Molecule: histidyl-tRNA synthetase; PDB Title: crystal structure of histidyl-tRNA synthetase from nostoc sp. pcc 7120
23	c3hriF		not modelled	100.0	15	PDB header: ligase Chain: F; PDB Molecule: histidyl-tRNA synthetase; PDB Title: histidyl-tRNA synthetase (apo) from trypanosoma brucei
24	c2cj9A		not modelled	100.0	15	PDB header: ligase Chain: A; PDB Molecule: seryl-tRNA synthetase; PDB Title: crystal structure of methanoscincus Barkeri seryl-tRNA synthetase complexed with an analog of seryladenylate
25	c3qo8A		not modelled	100.0	16	PDB header: ligase Chain: A; PDB Molecule: seryl-tRNA synthetase, cytoplasmic; PDB Title: crystal structure of seryl-tRNA synthetase from candida albicans
26	c2dq0A		not modelled	100.0	14	PDB header: ligase Chain: A; PDB Molecule: seryl-tRNA synthetase; PDB Title: crystal structure of seryl-tRNA synthetase from pyrococcus horikoshii complexed with a seryl-adenylate analog
27	c1wu7A		not modelled	100.0	17	PDB header: ligase Chain: A; PDB Molecule: histidyl-tRNA synthetase; PDB Title: crystal structure of histidyl-tRNA synthetase from2 thermoplasma acidophilum
28	c1sryB		not modelled	100.0	13	PDB header: ligase(synthetase) Chain: B; PDB Molecule: seryl-tRNA synthetase; PDB Title: refined crystal structure of the seryl-tRNA synthetase from2 thermus thermophilus at 2.5 angstroms resolution

29	d1seta2	Alignment	not modelled	100.0	16	Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
30	c1wleB	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B; PDB Molecule: seryl-tRNA synthetase; PDBTitle: crystal structure of mammalian mitochondrial seryl-tRNA synthetase complexed with seryl-adenylate
31	c2dq3A	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A; PDB Molecule: seryl-tRNA synthetase; PDBTitle: crystal structure of aq_298
32	d1nj8a3	Alignment	not modelled	100.0	19	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
33	c3IssA	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A; PDB Molecule: seryl-tRNA synthetase; PDBTitle: trypanosoma brucei seryl-tRNA synthetase in complex with atp
34	d1nyra3	Alignment	not modelled	100.0	51	Fold: RRF/tRNA synthetase additional domain-like Superfamily: ThrRS/AlaRS common domain Family: Threonyl-tRNA synthetase (ThrRS), second 'additional' domain
35	d1hc7a2	Alignment	not modelled	100.0	20	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
36	d1tke2	Alignment	not modelled	100.0	100	Fold: RRF/tRNA synthetase additional domain-like Superfamily: ThrRS/AlaRS common domain Family: Threonyl-tRNA synthetase (ThrRS), second 'additional' domain
37	d1nj1a3	Alignment	not modelled	100.0	20	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
38	c3errB	Alignment	not modelled	100.0	16	PDB header: ligase Chain: B; PDB Molecule: fusion protein of microtubule binding domain from PDBTitle: microtubule binding domain from mouse cytoplasmic dynein as2 a fusion with seryl-tRNA synthetase
39	c3od1A	Alignment	not modelled	100.0	13	PDB header: transferase Chain: A; PDB Molecule: atp phosphoribosyltransferase regulatory subunit; PDBTitle: the crystal structure of an atp phosphoribosyltransferase regulatory2 subunit/histidyl-tRNA synthetase from bacillus halodurans c
40	d1b76a2	Alignment	not modelled	100.0	16	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
41	d1latia2	Alignment	not modelled	100.0	17	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
42	c3mf2B	Alignment	not modelled	100.0	17	PDB header: ligase Chain: B; PDB Molecule: blI0957 protein; PDBTitle: crystal structure of class ii aars homologue (blI0957) complexed with2 amp
43	d1g5ha2	Alignment	not modelled	100.0	15	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
44	d1wu7a2	Alignment	not modelled	100.0	15	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
45	d2g4ca2	Alignment	not modelled	100.0	12	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
46	d1kmma2	Alignment	not modelled	100.0	18	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
47	c2zimA	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A; PDB Molecule: pyrrolylsyl-tRNA synthetase; PDBTitle: pyrrolylsyl-tRNA synthetase bound to adenylated pyrrolysine and2 pyrophosphate
48	d1qf6a1	Alignment	not modelled	100.0	100	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
49	c2znjB	Alignment	not modelled	100.0	16	PDB header: ligase Chain: B; PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of pyrrolylsyl-tRNA synthetase from2 desulfobacterium haefnicense
50	d1nyra1	Alignment	not modelled	100.0	44	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
51	c3racA	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A; PDB Molecule: histidine-tRNA ligase; PDBTitle: crystal structure of histidine-tRNA ligase subunit from2 alicyclobacillus acidocaldarius subsp. acidocaldarius dsm 446.
52	c2ztgA	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A; PDB Molecule: alanyl-tRNA synthetase; PDBTitle: crystal structure of archaeoglobus fulgidus alanyl-tRNA synthetase lacking the c-terminal dimerization domain in3 complex with ala-sa
53	c2zzfA	Alignment	not modelled	100.0	14	PDB header: ligase Chain: A; PDB Molecule: alanyl-tRNA synthetase; PDBTitle: crystal structure of alanyl-tRNA synthetase without2 oligomerization domain
						Fold: Class II aaRS and biotin synthetases

54	d1z7ma1	Alignment	not modelled	100.0	18	Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
55	d1v4pa_	Alignment	not modelled	100.0	20	Fold: RRF/tRNA synthetase additional domain-like Superfamily: ThrRS/AlaRS common domain Family: AlaX-like
56	d1h4vb2	Alignment	not modelled	99.9	19	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
57	c1z7nB_	Alignment	not modelled	99.9	18	PDB header: transferase Chain: B: PDB Molecule: atp phosphoribosyltransferase regulatory subunit; PDBTitle: atp phosphoribosyl transferase (hiszg atp-prtase) from2 lactococcus lactis with bound prpp substrate
58	d1nj8a1	Alignment	not modelled	99.9	25	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
59	d1nj1a1	Alignment	not modelled	99.9	28	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
60	d1qe0a2	Alignment	not modelled	99.9	20	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
61	c3kewA_	Alignment	not modelled	99.9	17	PDB header: transferase Chain: A: PDB Molecule: dhha1 domain protein; PDBTitle: crystal structure of probable alanyl-trna-synthase from clostridium2 perfringens
62	d1hc7a1	Alignment	not modelled	99.9	29	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
63	d1g5hal	Alignment	not modelled	99.9	17	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
64	d1atia1	Alignment	not modelled	99.9	23	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
65	d2g4ca1	Alignment	not modelled	99.9	17	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
66	d1usya_	Alignment	not modelled	99.9	11	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
67	d1wu7a1	Alignment	not modelled	99.9	18	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
68	d1kmma1	Alignment	not modelled	99.9	14	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
69	d1qe0a1	Alignment	not modelled	99.8	19	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
70	c3g1zB_	Alignment	not modelled	99.8	14	PDB header: ligase Chain: B: PDB Molecule: putative lysyl-trna synthetase; PDBTitle: structure of ipd01693/yjea, a potential t-rna synthetase from2 salmonella typhimurium
71	d2e1ba2	Alignment	not modelled	99.8	20	Fold: RRF/tRNA synthetase additional domain-like Superfamily: ThrRS/AlaRS common domain Family: AlaX-like
72	c2e1ba_	Alignment	not modelled	99.8	18	PDB header: ligase, hydrolase Chain: A: PDB Molecule: 216aa long hypothetical alanyl-trna synthetase; PDBTitle: crystal structure of the alax-m trans-editing enzyme from2 pyrococcus horikoshii
73	d1h4vb1	Alignment	not modelled	99.8	17	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
74	d1leoa2	Alignment	not modelled	99.8	13	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
75	d1bbua2	Alignment	not modelled	99.8	13	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
76	c1wwtA_	Alignment	not modelled	99.8	28	PDB header: ligase Chain: A: PDB Molecule: threonyl-trna synthetase, cytoplasmic; PDBTitle: solution structure of the tgs domain from human threonyl-2 trna synthetase
77	d1c0aa3	Alignment	not modelled	99.7	17	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
78	c1b70A_	Alignment	not modelled	99.7	16	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase; PDBTitle: phenylalanyl trna synthetase complexed with phenylalanine
79	d1jjca_	Alignment	not modelled	99.7	18	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
						Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain

80	d1eova2	Alignment	not modelled	99.7	17	Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
81	d1nnha	Alignment	not modelled	99.7	14	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
82	d1b8aa2	Alignment	not modelled	99.6	17	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
83	d1tkeal1	Alignment	not modelled	99.6	100	Fold: beta-Grasp (ubiquitin-like) Superfamily: TGS-like Family: TGS domain
84	c3l4gl	Alignment	not modelled	99.6	12	PDB header: ligase Chain: I: PDB Molecule: phenylalanyl-trna synthetase alpha chain; PDB Title: crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
85	d1l0wa3	Alignment	not modelled	99.6	21	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
86	d1nyra2	Alignment	not modelled	99.4	37	Fold: beta-Grasp (ubiquitin-like) Superfamily: TGS-like Family: TGS domain
87	c3e9hb	Alignment	not modelled	99.3	17	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDB Title: lysyl-trna synthetase from bacillus stearothermophilus2 complexed with l-lysylsulfamoyl adenosine
88	c1e22A	Alignment	not modelled	99.3	14	PDB header: ligase Chain: A: PDB Molecule: lysyl-trna synthetase; PDB Title: lysyl-trna synthetase (lys) hexagonal form complexed with2 lysine and the non-hydrolysable atp analogue amp-pcp
89	c2du4B	Alignment	not modelled	99.2	16	PDB header: ligase/rna Chain: B: PDB Molecule: o-phosphoseryl-trna synthetase; PDB Title: crystal structure of archaeoglobus fulgidus o-phosphoseryl-2 trna synthetase complexed with trnacs
90	c2rhqA	Alignment	not modelled	99.1	11	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase alpha chain; PDB Title: phers from staphylococcus haemolyticus- rational protein2 engineering and inhibitor studies
91	c2kmmA	Alignment	not modelled	99.1	22	PDB header: hydrolase Chain: A: PDB Molecule: guanosine-3',5'-bis(diphosphate) 3'- PDB Title: solution nmr structure of the tgs domain of pg1808 from2 porphyromonas gingivalis. northeast structural genomics3 consortium target pgr122a (418-481)
92	c3biuB	Alignment	not modelled	99.0	18	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDB Title: crystal structure of tetrameric form of human lysyl-trna2 synthetase
93	c1egrC	Alignment	not modelled	99.0	19	PDB header: ligase Chain: C: PDB Molecule: aspartyl-trna synthetase; PDB Title: crystal structure of free aspartyl-trna synthetase from2 escherichia coli
94	c1efwA	Alignment	not modelled	98.9	19	PDB header: ligase/rna Chain: A: PDB Molecule: aspartyl-trna synthetase; PDB Title: crystal structure of aspartyl-trna synthetase from thermus2 thermophilus complexed to trnaasp from escherichia coli
95	c3hvzb	Alignment	not modelled	98.9	18	PDB header: structural genomics, unknown function Chain: B: PDB Molecule: uncharacterized protein; PDB Title: crystal structure of the tgs domain of the cloleop_03100 protein from2 clostridium leptum, northeast structural genomics consortium target3 qlr13a
96	c2xgtB	Alignment	not modelled	98.9	13	PDB header: ligase Chain: B: PDB Molecule: asparaginyl-trna synthetase, cytoplasmic; PDB Title: asparaginyl-trna synthetase from brugia malayi complexed2 with the sulphamoyl analogue of asparaginyl-adenylate
97	c1x55A	Alignment	not modelled	98.9	13	PDB header: ligase Chain: A: PDB Molecule: asparaginyl-trna synthetase; PDB Title: crystal structure of asparaginyl-trna synthetase from pyrococcus2 horikoshii complexed with asparaginyl-adenylate analogue
98	c1wydB	Alignment	not modelled	98.8	12	PDB header: ligase Chain: B: PDB Molecule: hypothetical aspartyl-trna synthetase; PDB Title: crystal structure of aspartyl-trna synthetase from sulfolobus tokodaii
99	c1asyA	Alignment	not modelled	98.8	17	PDB header: complex (aminoacyl-trna synthetase/trna) Chain: A: PDB Molecule: aspartyl-trna synthetase; PDB Title: class ii aminoacyl transfer rna synthetases: crystal2 structure of yeast aspartyl-trna synthetase complexed with3 trna asp
100	c3pcoC	Alignment	not modelled	98.8	16	PDB header: ligase Chain: C: PDB Molecule: phenylalanyl-trna synthetase, alpha subunit; PDB Title: crystal structure of e. coli phenylalanine-trna synthetase complexed2 with phenylalanine and amp
101	c1b8ab	Alignment	not modelled	98.8	15	PDB header: ligase Chain: B: PDB Molecule: protein (aspartyl-trna synthetase); PDB Title: aspartyl-trna synthetase
102	c2du7C	Alignment	not modelled	98.8	18	PDB header: ligase Chain: C: PDB Molecule: o-phosphoseryl-trna synthetase; PDB Title: crystal structure of methanococcus jannaschii o-phosphoseryl-trna2 synthetase
103	c3m4qA	Alignment	not modelled	98.7	16	PDB header: ligase Chain: A: PDB Molecule: asparaginyl-trna synthetase, putative; PDB Title: entamoeba histolytica asparaginyl-trna synthetase (asnrs)

104	d1v95a_	Alignment	not modelled	98.6	12	Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
105	c3ig2B_	Alignment	not modelled	98.4	12	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: the crystal structure of a putative phenylalanyl-trna synthetase2 (phers) beta chain domain from bacteroides fragilis to 2.1a
106	c3l4gL_	Alignment	not modelled	98.3	13	PDB header: ligase Chain: L: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
107	c3icaB_	Alignment	not modelled	98.2	14	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: the crystal structure of the beta subunit of a phenylalanyl-trna2 synthetase from porphyromonas gingivalis w83
108	d1jjcb5	Alignment	not modelled	98.0	16	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
109	c3i7fA_	Alignment	not modelled	97.9	16	PDB header: ligase Chain: A: PDB Molecule: aspartyl-trna synthetase; PDBTitle: aspartyl trna synthetase from entamoeba histolytica
110	c2rhsB_	Alignment	not modelled	97.5	8	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: phers from staphylococcus haemolyticus- rational protein2 engineering and inhibitor studies
111	c3cmqA_	Alignment	not modelled	97.5	14	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase, mitochondrial; PDBTitle: crystal structure of human mitochondrial phenylalanine trna2 synthetase
112	d1wxqa2	Alignment	not modelled	97.3	17	Fold: beta-Grasp (ubiquitin-like) Superfamily: TGS-like Family: G domain-linked domain
113	c2ekia_	Alignment	not modelled	97.2	20	PDB header: signaling protein Chain: A: PDB Molecule: developmentally-regulated gtp-binding protein 1; PDBTitle: solution structures of the tgs domain of human2 developmentally-regulated gtp-binding protein 1
114	c1n9wA_	Alignment	not modelled	97.1	20	PDB header: biosynthetic protein Chain: A: PDB Molecule: aspartyl-trna synthetase 2; PDBTitle: crystal structure of the non-discriminating and archaeal-2 type aspartyl-trna synthetase from thermus thermophilus
115	d1n9wa2	Alignment	not modelled	97.0	21	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
116	c3pcoD_	Alignment	not modelled	96.9	16	PDB header: ligase Chain: D: PDB Molecule: phenylalanyl-trna synthetase, beta chain; PDBTitle: crystal structure of e. coli phenylalanine-trna synthetase complexed2 with phenylalanine and amp
117	c2akwB_	Alignment	not modelled	96.3	21	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-trna synthetase beta chain; PDBTitle: crystal structure of t.thermophilus phenylalanyl-trna synthetase2 complexed with p-cl-phenylalanine
118	d1zud21	Alignment	not modelled	95.5	12	Fold: beta-Grasp (ubiquitin-like) Superfamily: MoaD/ThiS Family: ThiS
119	d3c8ya2	Alignment	not modelled	94.8	25	Fold: beta-Grasp (ubiquitin-like) Superfamily: 2Fe-2S ferredoxin-like Family: 2Fe-2S ferredoxin domains from multidomain proteins
120	d1tygb_	Alignment	not modelled	93.9	13	Fold: beta-Grasp (ubiquitin-like) Superfamily: MoaD/ThiS Family: ThiS