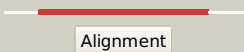

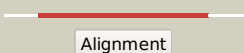

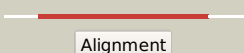

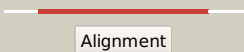

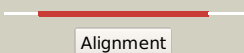
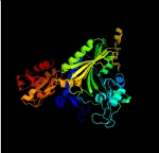
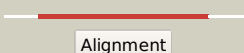
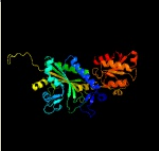
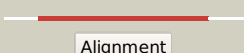
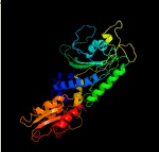




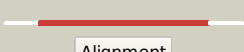

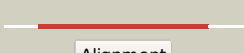
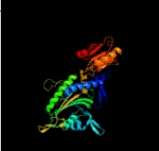


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2357c_(glyS)_2639683_2641074
Date	Mon Aug 5 13:25:51 BST 2019
Unique Job ID	62930884faf8002c

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c4kqeA_	 Alignment		100.0	36	PDB header: ligase Chain: A: PDB Molecule: glycine--trna ligase; PDBTitle: the mutant structure of the human glycyl-trna synthetase e71g
2	c1ggmB_	 Alignment		100.0	50	PDB header: ligase Chain: B: PDB Molecule: glycine--trna ligase; PDBTitle: glycyl-trna synthetase from thermus thermophilus complexed with2 glycyl-adenylate
3	c1atiA_	 Alignment		100.0	50	PDB header: protein biosynthesis Chain: A: PDB Molecule: glycyl-trna synthetase; PDBTitle: crystal structure of glycyl-trna synthetase from thermus thermophilus
4	c5z5eB_	 Alignment		100.0	36	PDB header: ligase Chain: B: PDB Molecule: neq417; PDBTitle: crystal structure of the glycyl-trna synthetase (glyrs) in2 nanoarchaeum equitans
5	c2pmfA_	 Alignment		100.0	36	PDB header: ligase Chain: A: PDB Molecule: glycyl-trna synthetase; PDBTitle: the crystal structure of a human glycyl-trna synthetase mutant
6	c4kr3A_	 Alignment		100.0	38	PDB header: ligase/rna Chain: A: PDB Molecule: glycine--trna ligase; PDBTitle: glycyl-trna synthetase mutant e71g in complex with trna-gly
7	c3ikmC_	 Alignment		100.0	25	PDB header: transferase Chain: C: PDB Molecule: dna polymerase subunit gamma-2; PDBTitle: crystal structure of human mitochondrial dna polymerase holoenzyme
8	c5e6mA_	 Alignment		100.0	38	PDB header: ligase/rna Chain: A: PDB Molecule: glycine--trna ligase; PDBTitle: crystal structure of human wild type glyrs bound with trnagly
9	c1g5hA_	 Alignment		100.0	23	PDB header: dna binding protein Chain: A: PDB Molecule: mitochondrial dna polymerase accessory subunit; PDBTitle: crystal structure of the accessory subunit of murine mitochondrial2 polymerase gamma
10	c5ucmB_	 Alignment		100.0	21	PDB header: ligase Chain: B: PDB Molecule: proline--trna ligase; PDBTitle: crystal structure of prolyl-trna synthetase from pseudomonas2 aeruginosa
11	c2j3mA_	 Alignment		100.0	22	PDB header: ligase Chain: A: PDB Molecule: prolyl-trna synthetase; PDBTitle: prolyl-trna synthetase from enterococcus faecalis complexed2 with atp, manganese and prolinol

12	c5znpjA_	Alignment		100.0	24	PDB header: ligase Chain: A: PDB Molecule: proline--trna ligase; PDBTitle: crystal structure of a bacterial prors with ligands
13	c3iklA_	Alignment		100.0	26	PDB header: transferase Chain: A: PDB Molecule: dna polymerase subunit gamma-2, mitochondrial; PDBTitle: crystal structure of pol gb delta-i4.
14	c2i4lC_	Alignment		100.0	21	PDB header: ligase Chain: C: PDB Molecule: proline-trna ligase; PDBTitle: rhodopseudomonas palustris prolyl-trna synthetase
15	c3ialB_	Alignment		100.0	19	PDB header: ligase Chain: B: PDB Molecule: prolyl-trna synthetase; PDBTitle: giardia lamblia prolyl-trna synthetase in complex with prolyl-2 adenylate
16	c1nyqA_	Alignment		100.0	20	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
17	c1qf6A_	Alignment		100.0	17	PDB header: ligase/rna Chain: A: PDB Molecule: threonyl-trna synthetase; PDBTitle: structure of e. coli threonyl-trna synthetase complexed with its2 cognate trna
18	d1b76a2	Alignment		100.0	52	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
19	c6nabB_	Alignment		100.0	17	PDB header: ligase Chain: B: PDB Molecule: prolyl-trna synthetase; PDBTitle: crystal structure of prolyl-trna synthetase from naegleria fowleri in2 complex with proline and adenosine monophosphphate (amp)
20	d1atia2	Alignment		100.0	52	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
21	c4hvcB_	Alignment	not modelled	100.0	19	PDB header: ligase/ligase inhibitor Chain: B: PDB Molecule: bifunctional glutamate/proline--trna ligase; PDBTitle: crystal structure of human prolyl-trna synthetase in complex with2 halofuginone and atp analogue
22	c4twaA_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: proline--trna ligase; PDBTitle: crystal structure of prolyl-trna synthetase (prs) from plasmodium2 falciparum
23	c1nj8C_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: C: PDB Molecule: proline-trna synthetase; PDBTitle: crystal structure of prolyl-trna synthetase from2 methanocaldococcus janaschii
24	c5f9yB_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: B: PDB Molecule: aminoacyl-trna synthetase; PDBTitle: crystal structure of prolyl-trna synthetase from cryptosporidium2 parvum complexed with l-proline and amp
25	c5xiiC_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: C: PDB Molecule: prolyl-trna synthetase (prors); PDBTitle: crystal structure of toxoplasma gondii prolyl-trna synthetase (tgprs)2 in complex with inhibitor 6
26	c6mn8A_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of prolyl-trna synthetase from onchocerca volvulus2 with bound halofuginone and nucleotide
27	c1h4tD_	Alignment	not modelled	100.0	19	PDB header: aminoacyl-trna synthetase Chain: D: PDB Molecule: prolyl-trna synthetase; PDBTitle: prolyl-trna synthetase from thermus thermophilus complexed2 with l-proline
28	c1nj2A_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: proline-trna synthetase; PDBTitle: crystal structure of prolyl-trna synthetase from methanothermobacter2 thermautotrophicus

29	c3a32A	Alignment	not modelled	100.0	16	PDB header: ligase Chain: A: PDB Molecule: probable threonyl-trna synthetase 1; PDBTitle: crystal structure of putative threonyl-trna synthetase thrrs-1 from2 aeropyrum pernix
30	c1fyfB	Alignment	not modelled	100.0	16	PDB header: ligase Chain: B: PDB Molecule: threonyl-trna synthetase; PDBTitle: crystal structure of a truncated form of threonyl-trna2 synthetase complexed with a seryl adenylate analog
31	c5zy9D	Alignment	not modelled	100.0	16	PDB header: ligase Chain: D: PDB Molecule: threonyl-trna synthase; PDBTitle: structural basis for a trna synthetase
32	c3ugtD	Alignment	not modelled	100.0	18	PDB header: ligase Chain: D: PDB Molecule: threonyl-trna synthetase, mitochondrial; PDBTitle: crystal structure of the yeast mitochondrial threonyl-trna synthetase2 - orthorhombic crystal form
33	c4hwtA	Alignment	not modelled	100.0	18	PDB header: ligase/ligase inhibitor Chain: A: PDB Molecule: threonine--trna ligase, cytoplasmic; PDBTitle: crystal structure of human threonyl-trna synthetase bound to a novel2 inhibitor
34	d2g4ca2	Alignment	not modelled	100.0	23	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
35	d1g5ha2	Alignment	not modelled	100.0	26	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	c5xilA	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: putative prolyl-trna synthetase; PDBTitle: crystal structure of leishmania major prolyl-trna synthetase (lmprrs)
37	c2el9B	Alignment	not modelled	100.0	19	PDB header: ligase Chain: B: PDB Molecule: histidyl-trna synthetase; PDBTitle: crystal structure of e.coli histidyl-trna synthetase2 complexed with a histidyl-adenylate analogue
38	c1adyA	Alignment	not modelled	100.0	18	PDB header: trna synthetase Chain: A: PDB Molecule: histidyl-trna synthetase; PDBTitle: histidyl-trna synthetase in complex with histidyl-adenylate
39	c3netB	Alignment	not modelled	100.0	19	PDB header: ligase Chain: B: PDB Molecule: histidyl-trna synthetase; PDBTitle: crystal structure of histidyl-trna synthetase from nostoc sp. pcc 7120
40	c1wu7A	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: histidyl-trna synthetase; PDBTitle: crystal structure of histidyl-trna synthetase from2 thermoplasma acidophilum
41	c3hrif	Alignment	not modelled	100.0	17	PDB header: ligase Chain: F: PDB Molecule: histidyl-trna synthetase; PDBTitle: histidyl-trna synthetase (apo) from trypanosoma brucei
42	c6nhia	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A: PDB Molecule: histidine--trna ligase; PDBTitle: crystal structure of histidine--trna ligase from elizabethkingia sp.2 ccug 26117
43	c5e3ia	Alignment	not modelled	100.0	14	PDB header: ligase Chain: A: PDB Molecule: histidine--trna ligase; PDBTitle: crystal structure of a histidyl-trna synthetase from acinetobacter2 baumannii with bound l-histidine and atp
44	c1qe0B	Alignment	not modelled	100.0	14	PDB header: ligase Chain: B: PDB Molecule: histidine--trna ligase; PDBTitle: crystal structure of apo s. aureus histidyl-trna synthetase
45	c4g84B	Alignment	not modelled	100.0	19	PDB header: ligase Chain: B: PDB Molecule: histidine--trna ligase, cytoplasmic; PDBTitle: crystal structure of human hisrs
46	c4g85A	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: histidine-trna ligase, cytoplasmic; PDBTitle: crystal structure of human hisrs
47	c4x5oB	Alignment	not modelled	100.0	19	PDB header: ligase Chain: B: PDB Molecule: histidine--trna ligase, cytoplasmic; PDBTitle: human histidine trna synthetase
48	c4e51B	Alignment	not modelled	100.0	17	PDB header: ligase Chain: B: PDB Molecule: histidine--trna ligase; PDBTitle: crystal structure of a histidyl-trna synthetase hisrs from2 burkholderia thailandensis bound to histidine
49	c3w3sA	Alignment	not modelled	100.0	16	PDB header: ligase/rna Chain: A: PDB Molecule: type-2 serine--trna ligase; PDBTitle: crystal structure of a. aeolicus trnasec in complex with m. kandleri2 serrs
50	d1nj1a3	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
51	d1nj8a3	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
52	d1nyra4	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
53	d1hc7a2	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
54	d1qf6a4	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
						PDB header: ligase

55	c2cj9A_	Alignment	not modelled	100.0	18	Chain: A: PDB Molecule: seryl-trna synthetase; PDBTitle: crystal structure of methanosarcina barkeri seryl-trna synthetase2 complexed with an analog of seryladenylate
56	d1seta2	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
57	c3qo8A_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of seryl-trna synthetase from candida albicans
58	c1sryB_	Alignment	not modelled	100.0	19	PDB header: ligase(synthetase) Chain: B: PDB Molecule: seryl-trna synthetase; PDBTitle: refined crystal structure of the seryl-trna synthetase from2 thermus thermophilus at 2.5 angstroms resolution
59	c1wleB_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: B: PDB Molecule: seryl-trna synthetase; PDBTitle: crystal structure of mammalian mitochondrial seryl-trna2 synthetase complexed with seryl-adenylate
60	c6h9xA_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: serine--trna ligase; PDBTitle: klebsiella pneumoniae seryl-trna synthetase in complex with the2 intermediate analog 5'-o-(n-(l-seryl)-sulfamoyl)adenosine
61	c3mf2B_	Alignment	not modelled	100.0	14	PDB header: ligase Chain: B: PDB Molecule: blI0957 protein; PDBTitle: crystal structure of class ii aars homologue (blI0957) complexed with2 amp
62	c3lssA_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase; PDBTitle: trypanosoma brucei seryl-trna synthetase in complex with atp
63	c2dq0A_	Alignment	not modelled	100.0	24	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase; PDBTitle: crystal structure of seryl-trna synthetase from pyrococcus2 horikoshii complexed with a seryl-adenylate analog
64	c3vbbB_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: B: PDB Molecule: seryl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of seryl-trna synthetase from human at 2.9 angstroms
65	c2dq3A_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase; PDBTitle: crystal structure of aq_298
66	c6bljC_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: C: PDB Molecule: serine-trna ligase; PDBTitle: crystal structure of cytoplasmic serine-trna ligase from naegleria2 fowleri in complex with amp
67	c6oteA_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of seryl-trna synthetase (serrs) from2 cryptosporidium parvum complexed with l-serylsulfamoyl adenosine
68	c3od1A_	Alignment	not modelled	100.0	14	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
69	c5m8hB_	Alignment	not modelled	100.0	14	PDB header: transferase Chain: B: PDB Molecule: atp phosphoribosyltransferase regulatory subunit; PDBTitle: atp phosphoribosyltransferase (hiszq atpprt) from psychrobacter2 arcticus
70	c6girA_	Alignment	not modelled	100.0	22	PDB header: cytosolic protein Chain: A: PDB Molecule: serine--trna ligase, cytoplasmic; PDBTitle: arabidopsis thaliana cytosolic seryl-trna synthetase
71	c3errB_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: B: PDB Molecule: fusion protein of microtubule binding domain from mouse PDBTitle: microtubule binding domain from mouse cytoplasmic dynein as a fusion2 with seryl-trna synthetase
72	d1nj8a1	Alignment	not modelled	99.9	22	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
73	d1nj1a1	Alignment	not modelled	99.9	21	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
74	d1g5ha1	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
75	d1hc7a1	Alignment	not modelled	99.9	21	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
76	d1qf6a1	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
77	d1nyra1	Alignment	not modelled	99.9	21	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
78	d2g4ca1	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
79	d1atia1	Alignment	not modelled	99.9	43	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
80	d1z7ma1	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
81	d1kmma2	Alignment	not modelled	99.9	23	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	d1wu7a2	Alignment	not modelled	99.9	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	c1z7nB_	Alignment	not modelled	99.9	16	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
84	c6ezdD_	Alignment	not modelled	99.8	19	PDB header: ligase Chain: D: PDB Molecule: pyrrolysyl-trna synthetase; PDBTitle: pyrrolysyl-trna synthetase from candidatus methanomethylophilus alvus2 (mmapyrls)
85	c3racA_	Alignment	not modelled	99.8	18	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.
86	d1h4vb1	Alignment	not modelled	99.8	21	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
87	d1kmma1	Alignment	not modelled	99.8	24	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
88	d1h4vb2	Alignment	not modelled	99.8	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
89	d1wu7a1	Alignment	not modelled	99.8	18	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
90	c2zimA_	Alignment	not modelled	99.8	17	PDB header: ligase Chain: A: PDB Molecule: pyrrolysyl-trna synthetase; PDBTitle: pyrrolysyl-trna synthetase bound to adenylated pyrrolysine and2 pyrophosphate
91	d1qe0a1	Alignment	not modelled	99.8	16	Fold: Anticodon-binding domain-like Superfamily: Class II aaRS ABD-related Family: Anticodon-binding domain of Class II aaRS
92	d1qe0a2	Alignment	not modelled	99.8	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
93	c2znjB_	Alignment	not modelled	99.7	18	PDB header: ligase Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of pyrrolysyl-trna synthetase from2 desulfitobacterium hafniense
94	c2lw7A_	Alignment	not modelled	99.7	15	PDB header: ligase Chain: A: PDB Molecule: histidine--trna ligase, cytoplasmic; PDBTitle: nmr solution structure of human hisrs splice variant
95	d1e1oa2	Alignment	not modelled	99.6	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
96	d1bbua2	Alignment	not modelled	99.6	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
97	c3g1zB_	Alignment	not modelled	99.5	17	PDB header: ligase Chain: B: PDB Molecule: putative lysyl-trna synthetase; PDBTitle: structure of idp01693/yjea, a potential t-rna synthetase from2 salmonella typhimurium
98	d1usya_	Alignment	not modelled	99.5	9	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
99	d1eova2	Alignment	not modelled	99.3	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
100	d1nnha_	Alignment	not modelled	99.3	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
101	c1b70A_	Alignment	not modelled	99.3	16	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase; PDBTitle: phenylalanyl trna synthetase complexed with phenylalanine
102	d1c0aa3	Alignment	not modelled	99.2	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
103	d1jjca_	Alignment	not modelled	99.2	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
104	d1b8aa2	Alignment	not modelled	99.2	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
105	d1l0wa3	Alignment	not modelled	99.2	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
106	c34ad	Alignment	not modelled	99.1	16	PDB header: ligase Chain: I: PDB Molecule: phenylalanyl-trna synthetase alpha chain;

106	c3HqL_	Alignment	not modelled	99.1	10	PDBTitle: crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase PDB header: ligase
107	c6pqhA_	Alignment	not modelled	99.0	17	Chain: A: PDB Molecule: asparagine--trna ligase; PDBTitle: crystal structure of asparagine-trna ligase from elizabethkingia sp.2 ccug 26117
108	c2odrB_	Alignment	not modelled	99.0	15	PDB header: ligase Chain: B: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
109	c1e22A_	Alignment	not modelled	98.9	19	PDB header: ligase Chain: A: PDB Molecule: lysyl-trna synthetase; PDBTitle: lysyl-trna synthetase (lysu) hexagonal form complexed with2 lysine and the non-hydrolysable atp analogue amp-pcp
110	c3e9hB_	Alignment	not modelled	98.9	17	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDBTitle: lysyl-trna synthetase from bacillus stearotherophilus2 complexed with l-lysylsulfamoyl adenosine
111	c2odrD_	Alignment	not modelled	98.9	12	PDB header: ligase Chain: D: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
112	c4up8A_	Alignment	not modelled	98.8	17	PDB header: ligase Chain: A: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of entamoeba histolytica lysyl-trna synthetase apo2 form
113	c4p74D_	Alignment	not modelled	98.8	13	PDB header: ligase/ligase inhibitor Chain: D: PDB Molecule: phenylalanine--trna ligase alpha subunit; PDBTitle: phers in complex with compound 3a
114	c3bjuB_	Alignment	not modelled	98.7	19	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDBTitle: crystal structure of tetrameric form of human lysyl-trna synthetase
115	c6ns0A_	Alignment	not modelled	98.7	16	PDB header: ligase Chain: A: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of lysyl-trna synthetase from chlamydia trachomatis2 complexed with l-lysine and cladosporin
116	c1efwA_	Alignment	not modelled	98.7	24	PDB header: ligase/rna Chain: A: PDB Molecule: aspartyl-trna synthetase; PDBTitle: crystal structure of aspartyl-trna synthetase from thermus2 thermophilus complexed to trnaasp from escherichia coli
117	c5hgqD_	Alignment	not modelled	98.7	18	PDB header: ligase/ligase inhibitor Chain: D: PDB Molecule: lysine--trna ligase; PDBTitle: loa loa lysyl-trna synthetase in complex with cladosporin.
118	c2odrC_	Alignment	not modelled	98.7	12	PDB header: ligase Chain: C: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
119	c1eqrC_	Alignment	not modelled	98.7	18	PDB header: ligase Chain: C: PDB Molecule: aspartyl-trna synthetase; PDBTitle: crystal structure of free aspartyl-trna synthetase from2 escherichia coli
120	c5elnC_	Alignment	not modelled	98.7	18	PDB header: ligase Chain: C: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of lysyl-trna synthetase from cryptosporidium parvum2 complexed with l-lysine