







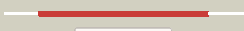







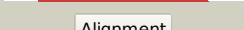

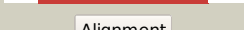


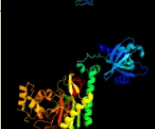


Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD3598c_(lysS)_4041602_4043119
Date	Fri Aug 9 18:20:28 BST 2019
Unique Job ID	c9bf1fe2efd70970

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5vl1D_	 Alignment		100.0	85	PDB header: ligase Chain: D: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of lysyl-trna synthetase from mycobacterium ulcerans2 complexed with l-lysine
2	c4upaA_	 Alignment		100.0	37	PDB header: ligase Chain: A: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of entamoeba histolytica lysyl-trna synthetase in2 complex with amppnp
3	c6ns0A_	 Alignment		100.0	35	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
4	c4up8A_	 Alignment		100.0	38	PDB header: ligase Chain: A: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of entamoeba histolytica lysyl-trna synthetase apo2 form
5	c3bjbB_	 Alignment		100.0	36	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDBTitle: crystal structure of tetrameric form of human lysyl-trna synthetase
6	c1e22A_	 Alignment		100.0	40	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
7	c4ex5A_	 Alignment		100.0	43	PDB header: transferase Chain: A: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of lysyl-trna synthetase lysrs from burkholderia2 thailandensis bound to lysine
8	c5elnC_	 Alignment		100.0	35	PDB header: ligase Chain: C: PDB Molecule: lysine--trna ligase; PDBTitle: crystal structure of lysyl-trna synthetase from cryptosporidium parvum2 complexed with l-lysine
9	c3e9hB_	 Alignment		100.0	42	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDBTitle: lysyl-trna synthetase from bacillus stearothermophilus2 complexed with l-lysylsulfamoyl adenosine
10	c5hggD_	 Alignment		100.0	38	PDB header: ligase/ligase inhibitor Chain: D: PDB Molecule: lysine--trna ligase; PDBTitle: loa loa lysyl-trna synthetase in complex with cladosporin.
11	c4h02B_	 Alignment		100.0	33	PDB header: ligase Chain: B: PDB Molecule: lysyl-trna synthetase; PDBTitle: crystal structure of p. falciparum lysyl-trna synthetase

12	c4ah6B_	Alignment		100.0	27	PDB header: ligase Chain: B: PDB Molecule: aspartate--trna ligase, mitochondrial; PDBTitle: human mitochondrial aspartyl-trna synthetase
13	c1efwA_	Alignment		100.0	31	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
14	c1eqrC_	Alignment		100.0	28	PDB header: ligase Chain: C: PDB Molecule: aspartyl-trna synthetase; PDBTitle: crystal structure of free aspartyl-trna synthetase from2 escherichia coli
15	c4wj4A_	Alignment		100.0	28	PDB header: ligase/rna Chain: A: PDB Molecule: aspartate--trna(asp/asn) ligase; PDBTitle: crystal structure of non-discriminating aspartyl-trna synthetase from2 pseudomonas aeruginosa complexed with trna(asn) and aspartic acid
16	c6od8A_	Alignment		100.0	22	PDB header: ligase Chain: A: PDB Molecule: putative aspartyl-trna synthetase; PDBTitle: crystal structure of a putative aspartyl-trna synthetase from2 leishmania major friedlin
17	c1b8aB_	Alignment		100.0	25	PDB header: ligase Chain: B: PDB Molecule: protein (aspartyl-trna synthetase); PDBTitle: aspartyl-trna synthetase
18	c1asyA_	Alignment		100.0	23	PDB header: complex (aminoacyl-trna synthase/trna) Chain: A: PDB Molecule: aspartyl-trna synthetase; PDBTitle: class ii aminoacyl transfer rna synthetases: crystal2 structure of yeast aspartyl-trna synthetase complexed with3 trna asp
19	c1wydB_	Alignment		100.0	24	PDB header: ligase Chain: B: PDB Molecule: hypothetical aspartyl-trna synthetase; PDBTitle: crystal structure of aspartyl-trna synthetase from sulfolobus tokodaii
20	c1x55A_	Alignment		100.0	24	PDB header: ligase Chain: A: PDB Molecule: asparaginyl-trna synthetase; PDBTitle: crystal structure of asparaginyl-trna synthetase from pyrococcus2 horikoshii complexed with asparaginyl-adenylate analogue
21	c2xgtB_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: B: PDB Molecule: asparaginyl-trna synthetase, cytoplasmic; PDBTitle: asparaginyl-trna synthetase from brugia malayi complexed2 with the sulphamoyl analogue of asparaginyl-adenylate
22	c4o2dB_	Alignment	not modelled	100.0	27	PDB header: ligase Chain: B: PDB Molecule: aspartate--trna ligase; PDBTitle: crystal structure of aspartyl-trna synthetase from mycobacterium2 smegmatis with bound aspartic acid
23	c6pqhA_	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: asparagine--trna ligase; PDBTitle: crystal structure of asparagine-trna ligase from elizabethkingia sp.2 ccug 26117
24	c5xixD_	Alignment	not modelled	100.0	21	PDB header: ligase Chain: D: PDB Molecule: asparagine--trna ligase, cytoplasmic; PDBTitle: the canonical domain of human asparaginyl-trna synthetase
25	c5zg8A_	Alignment	not modelled	100.0	22	PDB header: ligase Chain: A: PDB Molecule: asparagine--trna ligase; PDBTitle: crystal structure of ttnrs
26	c3m4gA_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A: PDB Molecule: asparaginyl-trna synthetase, putative; PDBTitle: entamoeba histolytica asparaginyl-trna synthetase (asnrs)
27	c3i7fA_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A: PDB Molecule: aspartyl-trna synthetase; PDBTitle: aspartyl trna synthetase from entamoeba histolytica
28	c4j15A_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: A: PDB Molecule: aspartate--trna ligase, cytoplasmic; PDBTitle: crystal structure of human cytosolic aspartyl-trna synthetase, a2 component of multi-trna synthetase complex PDB header: biosynthetic protein

29	c1n9wA_	Alignment	not modelled	100.0	28	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
30	d1l0wa3	Alignment	not modelled	100.0	28	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
31	d1c0aa3	Alignment	not modelled	100.0	25	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
32	d1eova2	Alignment	not modelled	100.0	22	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	d1b8aa2	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
34	d1e1oa2	Alignment	not modelled	100.0	43	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	d1bbua2	Alignment	not modelled	100.0	43	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	c4lnsA_	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A: PDB Molecule: asparagine synthetase a; PDBTitle: crystal structure of asparagine synthetase a (asna) from trypanosoma2 brucei
37	d1n9wa2	Alignment	not modelled	100.0	28	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	d1nnha_	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
39	c3glzB_	Alignment	not modelled	100.0	30	PDB header: ligase Chain: B: PDB Molecule: putative lysyl-trna synthetase; PDBTitle: structure of idp01693/yjea, a potential t-rna synthetase from2 salmonella typhimurium
40	d1bbua1	Alignment	not modelled	100.0	34	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
41	d1e1oa1	Alignment	not modelled	100.0	33	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
42	c2znbB_	Alignment	not modelled	100.0	23	PDB header: ligase Chain: B: PDB Molecule: putative uncharacterized protein; PDBTitle: crystal structure of pyrrolysyl-trna synthetase from2 desulfitobacterium hafniense
43	c2zimA_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: pyrrolysyl-trna synthetase; PDBTitle: pyrrolysyl-trna synthetase bound to adenylated pyrrolysine and2 pyrophosphate
44	c6ezdD_	Alignment	not modelled	100.0	29	PDB header: ligase Chain: D: PDB Molecule: pyrrolysyl-trna synthetase; PDBTitle: pyrrolysyl-trna synthetase from candidatus methanomethylophilus alvus2 (mmapylrs)
45	d1kmma2	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
46	d1h4vb2	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
47	c1z7nB_	Alignment	not modelled	100.0	15	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
48	d1qe0a2	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
49	c2rhqA_	Alignment	not modelled	99.9	18	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase alpha chain; PDBTitle: phers from staphylococcus haemolyticus- rational protein engineering2 and inhibitor studies
50	d1krta_	Alignment	not modelled	99.9	31	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
51	c3racA_	Alignment	not modelled	99.9	14	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	d1wu7a2	Alignment	not modelled	99.9	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
53	c1eiyA_	Alignment	not modelled	99.9	30	PDB header: ligase/rna Chain: A: PDB Molecule: phenylalanyl-trna synthetase; PDBTitle: the crystal structure of phenylalanyl-trna synthetase from thermus2 thermophilus complexed with cognate trnaphe
54	d1jjca_	Alignment	not modelled	99.9	24	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain

55	c1b70A_	Alignment	not modelled	99.9	29	PDB header: ligase Chain: A: PDB Molecule: phenylalanyl-trna synthetase; PDBTitle: phenylalanyl trna synthetase complexed with phenylalanine
56	c3pcoC_	Alignment	not modelled	99.9	21	PDB header: ligase Chain: C: PDB Molecule: phenylalanyl-trna synthetase, alpha subunit; PDBTitle: crystal structure of e. coli phenylalanine-trna synthetase complexed2 with phenylalanine and amp
57	c4gn5A_	Alignment	not modelled	99.9	23	PDB header: de novo protein/hydrolase Chain: A: PDB Molecule: obody am3115; PDBTitle: obody am3115 bound to hen egg-white lysozyme
58	d1l0wa1	Alignment	not modelled	99.9	25	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
59	d1c0aa1	Alignment	not modelled	99.9	27	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
60	d1b8aa1	Alignment	not modelled	99.9	25	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
61	c5groA_	Alignment	not modelled	99.9	26	PDB header: ligase Chain: A: PDB Molecule: aspartate--trna(asp/asn) ligase; PDBTitle: crystal structure of the n-terminal anticodon-binding domain of non-2 discriminating aspartyl-trna synthetase from helicobacter pylori
62	d1eova1	Alignment	not modelled	99.9	23	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
63	d1n9wa1	Alignment	not modelled	99.8	27	Fold: OB-fold Superfamily: Nucleic acid-binding proteins Family: Anticodon-binding domain
64	c4p74D_	Alignment	not modelled	99.8	25	PDB header: ligase/ligase inhibitor Chain: D: PDB Molecule: phenylalanine--trna ligase alpha subunit; PDBTitle: phers in complex with compound 3a
65	c4glaD_	Alignment	not modelled	99.8	20	PDB header: hydrolase/de novo protein Chain: D: PDB Molecule: obody n18; PDBTitle: obody n18 bound to hen egg-white lysozyme
66	c2odrD_	Alignment	not modelled	99.7	29	PDB header: ligase Chain: D: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
67	c3l4gl_	Alignment	not modelled	99.7	31	PDB header: ligase Chain: I: PDB Molecule: phenylalanyl-trna synthetase alpha chain; PDBTitle: crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
68	c2odrC_	Alignment	not modelled	99.7	27	PDB header: ligase Chain: C: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
69	c2du4B_	Alignment	not modelled	99.6	26	PDB header: ligase/rna Chain: B: PDB Molecule: o-phosphoseryl-trna synthetase; PDBTitle: crystal structure of archaeoglobus fulgidus o-phosphoseryl-2 trna synthetase complexed with trnacys
70	c3l4gC_	Alignment	not modelled	99.6	29	PDB header: ligase Chain: C: PDB Molecule: phenylalanyl-trna synthetase alpha chain; PDBTitle: crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
71	c2odrB_	Alignment	not modelled	99.6	23	PDB header: ligase Chain: B: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
72	c2du3A_	Alignment	not modelled	99.6	34	PDB header: ligase/rna Chain: A: PDB Molecule: o-phosphoseryl-trna synthetase; PDBTitle: crystal structure of archaeoglobus fulgidus o-phosphoseryl-2 trna synthetase complexed with trnacys and o-phosphoserine
73	c2odrA_	Alignment	not modelled	99.5	23	PDB header: ligase Chain: A: PDB Molecule: phosphoseryl-trna synthetase; PDBTitle: methanococcus maripaludis phosphoseryl-trna synthetase
74	c2du7C_	Alignment	not modelled	99.5	29	PDB header: ligase Chain: C: PDB Molecule: o-phosphoseryl-trna synthetase; PDBTitle: crystal structure of methanococcus jannacshii o-phosphoseryl-trna2 synthetase
75	d1z7ma1	Alignment	not modelled	99.4	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
76	c3od1A_	Alignment	not modelled	99.4	17	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
77	cladyA_	Alignment	not modelled	99.3	19	PDB header: trna synthetase Chain: A: PDB Molecule: histidyl-trna synthetase; PDBTitle: histidyl-trna synthetase in complex with histidyl-adenylate
78	c1wu7A_	Alignment	not modelled	99.3	11	PDB header: ligase Chain: A: PDB Molecule: histidyl-trna synthetase; PDBTitle: crystal structure of histidyl-trna synthetase from2 thermoplasma acidophilum
79	c6mn8A_	Alignment	not modelled	99.2	16	PDB header: ligase Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of prolyl-trna synthetase from onchocerca volvulus2 with bound halofuginone and nucleotide PDB header: ligase

80	c3cmqA_	Alignment	not modelled	99.2	22	Chain: A: PDB Molecule: phenylalanyl-trna synthetase, mitochondrial; PDBTitle: crystal structure of human mitochondrial phenylalanine trna synthetase
81	d1nyra4	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
82	c2i4IC_	Alignment	not modelled	99.2	15	PDB header: ligase Chain: C: PDB Molecule: proline-trna ligase; PDBTitle: rhodopseudomonas palustris prolyl-trna synthetase
83	c5zy9D_	Alignment	not modelled	99.2	16	PDB header: ligase Chain: D: PDB Molecule: threonyl-trna synthase; PDBTitle: structural basis for a trna synthetase
84	d1hc7a2	Alignment	not modelled	99.2	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
85	c1nyqA_	Alignment	not modelled	99.2	16	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
86	c2ei9B_	Alignment	not modelled	99.2	12	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
87	c3a32A_	Alignment	not modelled	99.2	18	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
88	d12asa_	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
89	c5ucmB_	Alignment	not modelled	99.2	16	PDB header: ligase Chain: B: PDB Molecule: proline--trna ligase; PDBTitle: crystal structure of prolyl-trna synthetase from pseudomonas2 aeruginosa
90	c3hrif_	Alignment	not modelled	99.1	18	PDB header: ligase Chain: F: PDB Molecule: histidyl-trna synthetase; PDBTitle: histidyl-trna synthetase (apo) from trypanosoma brucei
91	c5znjA_	Alignment	not modelled	99.1	18	PDB header: ligase Chain: A: PDB Molecule: proline--trna ligase; PDBTitle: crystal structure of a bacterial prors with ligands
92	c1fyfB_	Alignment	not modelled	99.1	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
93	d1qf6a4	Alignment	not modelled	99.1	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
94	c5e3iA_	Alignment	not modelled	99.1	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
95	c3mf2B_	Alignment	not modelled	99.1	20	PDB header: ligase Chain: B: PDB Molecule: bl0957 protein; PDBTitle: crystal structure of class ii aars homologue (bl0957) complexed with2 amp
96	c2j3mA_	Alignment	not modelled	99.1	14	PDB header: ligase Chain: A: PDB Molecule: prolyl-trna synthetase; PDBTitle: prolyl-trna synthetase from enterococcus faecalis complexed2 with atp, manganese and prolinol
97	c4e51B_	Alignment	not modelled	99.1	14	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
98	c3ugtD_	Alignment	not modelled	99.1	14	PDB header: ligase Chain: D: PDB Molecule: threonyl-trna synthetase, mitochondrial; PDBTitle: crystal structure of the yeast mitochondrial threonyl-trna synthetase2 - orthorhombic crystal form
99	c5m8hB_	Alignment	not modelled	99.0	11	PDB header: transferase Chain: B: PDB Molecule: atp phosphoribosyltransferase regulatory subunit; PDBTitle: atp phosphoribosyltransferase (hiszg atppt) from psychrobacter2 arcticus
100	c1h4tD_	Alignment	not modelled	99.0	13	PDB header: aminoacyl-trna synthetase Chain: D: PDB Molecule: prolyl-trna synthetase; PDBTitle: prolyl-trna synthetase from thermus thermophilus complexed2 with l-proline
101	c4hwtA_	Alignment	not modelled	99.0	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
102	c1ggmB_	Alignment	not modelled	99.0	18	PDB header: ligase Chain: B: PDB Molecule: glycine--trna ligase; PDBTitle: glycyl-trna synthetase from thermus thermophilus complexed with2 glycyl-adenylate
103	c5xiiC_	Alignment	not modelled	99.0	15	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
104	d1nj8a3	Alignment	not modelled	99.0	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
105	c5f9yB_	Alignment	not modelled	99.0	15	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 PDB header: protein biosynthesis Chain: A: PDB Molecule: glycyl-trna synthetase; PDBTitle: crystal structure of glycyl-trna synthetase from thermus thermophilus
106	c1atiA_	Alignment	not modelled	99.0	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
107	c1qf6A_	Alignment	not modelled	99.0	17	PDB header: ligase Chain: B: PDB Molecule: prolyl-trna synthetase; PDBTitle: giardia lamblia prolyl-trna synthetase in complex with prolyl-2 adenylate
108	c3ialB_	Alignment	not modelled	99.0	14	PDB header: ligase Chain: A: PDB Molecule: histidine--trna ligase; PDBTitle: crystal structure of histidine--trna ligase from elizabethkingia sp.2 ccug 26117
109	c6nhiA_	Alignment	not modelled	98.9	20	PDB header: ligase Chain: A: PDB Molecule: seryl-trna synthetase; PDBTitle: trypanosoma brucei seryl-trna synthetase in complex with atp
110	c3lssA_	Alignment	not modelled	98.9	18	PDB header: ligase Chain: A: PDB Molecule: serine--trna ligase, cytoplasmic; PDBTitle: arabidopsis thaliana cytosolic seryl-trna synthetase
111	c6girA_	Alignment	not modelled	98.9	18	PDB header: ligase Chain: B: PDB Molecule: histidyl-trna synthetase; PDBTitle: crystal structure of histidyl-trna synthetase from nostoc sp. pcc 7120
112	c3netB_	Alignment	not modelled	98.9	16	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
113	c4hvcB_	Alignment	not modelled	98.9	15	PDB header: ligase/rna Chain: A: PDB Molecule: glycine--trna ligase; PDBTitle: glycyl-trna synthetase mutant e71g in complex with trna-gly
114	c4kr3A_	Alignment	not modelled	98.9	18	PDB header: ligase Chain: B: PDB Molecule: neq417; PDBTitle: crystal structure of the glycyl-trna synthetase (glyrs) in2 nanoarchaeum equitans
115	c5z5eB_	Alignment	not modelled	98.9	25	PDB header: ligase Chain: A: PDB Molecule: histidine-trna ligase, cytoplasmic; PDBTitle: crystal structure of human hisrs
116	c4g85A_	Alignment	not modelled	98.8	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
117	d1atia2	Alignment	not modelled	98.8	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
118	d1nj1a3	Alignment	not modelled	98.8	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
119	c6nabB_	Alignment	not modelled	98.8	15	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)
120	c1nj2A_	Alignment	not modelled	98.8	17	PDB header: ligase Chain: A: PDB Molecule: proline-trna synthetase; PDBTitle: crystal structure of prolyl-trna synthetase from methanothermobacter2 thermautotrophicus