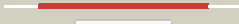



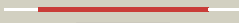




























# Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD1649_(pheS)_1858740_1859765
Date	Fri Aug 2 13:30:24 BST 2019
Unique Job ID	8a5f1db7ed8610ed

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c1eiyA_</a>	 Alignment		100.0	44	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> phenylalanyl-trna synthetase; <b>PDBTitle:</b> the crystal structure of phenylalanyl-trna synthetase from thermus2 thermophilus complexed with cognate trnaphe
2	<a href="#">c3pcoC_</a>	 Alignment		100.0	47	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> phenylalanyl-trna synthetase, alpha subunit; <b>PDBTitle:</b> crystal structure of e. coli phenylalanine-trna synthetase complexed2 with phenylalanine and amp
3	<a href="#">c3l4gC_</a>	 Alignment		100.0	30	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> phenylalanyl-trna synthetase alpha chain; <b>PDBTitle:</b> crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
4	<a href="#">c3l4gl_</a>	 Alignment		100.0	34	<b>PDB header:</b> ligase <b>Chain:</b> I: <b>PDB Molecule:</b> phenylalanyl-trna synthetase alpha chain; <b>PDBTitle:</b> crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
5	<a href="#">d1jjca_</a>	 Alignment		100.0	49	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
6	<a href="#">c2du3A_</a>	 Alignment		100.0	24	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> o-phosphoseryl-trna synthetase; <b>PDBTitle:</b> crystal structure of archaeoglobus fulgidus o-phosphoseryl-2 trna synthetase complexed with trnacys and o-phosphoserine
7	<a href="#">c1b70A_</a>	 Alignment		100.0	48	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> phenylalanyl-trna synthetase; <b>PDBTitle:</b> phenylalanyl trna synthetase complexed with phenylalanine
8	<a href="#">c2du7C_</a>	 Alignment		100.0	26	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> o-phosphoseryl-trna synthetase; <b>PDBTitle:</b> crystal structure of methanococcus jannacsii o-phosphoseryl-trna2 synthetase
9	<a href="#">c2du4B_</a>	 Alignment		100.0	23	<b>PDB header:</b> ligase/rna <b>Chain:</b> B: <b>PDB Molecule:</b> o-phosphoseryl-trna synthetase; <b>PDBTitle:</b> crystal structure of archaeoglobus fulgidus o-phosphoseryl-2 trna synthetase complexed with trnacys
10	<a href="#">c4p74D_</a>	 Alignment		100.0	52	<b>PDB header:</b> ligase/ligase inhibitor <b>Chain:</b> D: <b>PDB Molecule:</b> phenylalanine--trna ligase alpha subunit; <b>PDBTitle:</b> phers in complex with compound 3a
11	<a href="#">c2odrD_</a>	 Alignment		100.0	20	<b>PDB header:</b> ligase <b>Chain:</b> D: <b>PDB Molecule:</b> phosphoseryl-trna synthetase; <b>PDBTitle:</b> methanococcus maripaludis phosphoseryl-trna synthetase

12	<a href="#">c2odrC_</a>	Alignment		100.0	20	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> phosphoseryl-trna synthetase; <b>PDBTitle:</b> methanococcus maripaludis phosphoseryl-trna synthetase
13	<a href="#">c2odrA_</a>	Alignment		100.0	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> phosphoseryl-trna synthetase; <b>PDBTitle:</b> methanococcus maripaludis phosphoseryl-trna synthetase
14	<a href="#">c2odrB_</a>	Alignment		100.0	22	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> phosphoseryl-trna synthetase; <b>PDBTitle:</b> methanococcus maripaludis phosphoseryl-trna synthetase
15	<a href="#">c3cmqA_</a>	Alignment		100.0	33	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> phenylalanyl-trna synthetase, mitochondrial; <b>PDBTitle:</b> crystal structure of human mitochondrial phenylalanine trna synthetase
16	<a href="#">c2rhqA_</a>	Alignment		100.0	48	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> phenylalanyl-trna synthetase alpha chain; <b>PDBTitle:</b> phers from staphylococcus haemolyticus- rational protein engineering2 and inhibitor studies
17	<a href="#">c2zimA_</a>	Alignment		100.0	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> pyrrolysyl-trna synthetase; <b>PDBTitle:</b> pyrrolysyl-trna synthetase bound to adenylated pyrrolysine and2 pyrophosphate
18	<a href="#">c6ezdD_</a>	Alignment		100.0	19	<b>PDB header:</b> ligase <b>Chain:</b> D: <b>PDB Molecule:</b> pyrrolysyl-trna synthetase; <b>PDBTitle:</b> pyrrolysyl-trna synthetase from candidatus methanomethylophilus alvus2 (mmapylrs)
19	<a href="#">c2znbB_</a>	Alignment		100.0	19	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> putative uncharacterized protein; <b>PDBTitle:</b> crystal structure of pyrrolysyl-trna synthetase from2 desulfotribacterium hafniense
20	<a href="#">c4up8A_</a>	Alignment		99.9	22	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> crystal structure of entamoeba histolytica lysyl-trna synthetase apo2 form
21	<a href="#">c6ns0A_</a>	Alignment	not modelled	99.8	19	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> crystal structure of lysyl-trna synthetase from chlamydia trachomatis2 complexed with l-lysine and cladosporin
22	<a href="#">c5hggD_</a>	Alignment	not modelled	99.8	21	<b>PDB header:</b> ligase/ligase inhibitor <b>Chain:</b> D: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> loa loa lysyl-trna synthetase in complex with cladosporin.
23	<a href="#">c3bjuB_</a>	Alignment	not modelled	99.8	19	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> lysyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tetrameric form of human lysyl-trna synthetase
24	<a href="#">c1e22A_</a>	Alignment	not modelled	99.8	22	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> lysyl-trna synthetase; <b>PDBTitle:</b> lysyl-trna synthetase (lysu) hexagonal form complexed with2 lysine and the non-hydrolysable atp analogue amp-pcp
25	<a href="#">c4upaA_</a>	Alignment	not modelled	99.8	22	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> crystal structure of entamoeba histolytica lysyl-trna synthetase in2 complex with amppnp
26	<a href="#">c4ex5A_</a>	Alignment	not modelled	99.8	22	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> crystal structure of lysyl-trna synthetase lysrs from burkholderia2 thailandensis bound to lysine
27	<a href="#">c5elnC_</a>	Alignment	not modelled	99.8	24	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> crystal structure of lysyl-trna synthetase from cryptosporidium parvum2 complexed with l-lysine
28	<a href="#">d1jcb5</a>	Alignment	not modelled	99.8	21	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
						<b>PDB header:</b> ligase

29	<a href="#">c3icaB</a>	Alignment	not modelled	99.8	14	<b>Chain:</b> B: <b>PDB Molecule:</b> phenylalanyl-trna synthetase beta chain; <b>PDBTitle:</b> the crystal structure of the beta subunit of a phenylalanyl-trna2 synthetase from porphyromonas gingivalis w83
30	<a href="#">c5vl1D</a>	Alignment	not modelled	99.8	22	<b>PDB header:</b> ligase <b>Chain:</b> D: <b>PDB Molecule:</b> lysine--trna ligase; <b>PDBTitle:</b> crystal structure of lysyl-trna synthetase from mycobacterium ulcerans2 complexed with l-lysine
31	<a href="#">d1c0aa3</a>	Alignment	not modelled	99.8	23	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
32	<a href="#">d1nnha</a>	Alignment	not modelled	99.8	17	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
33	<a href="#">c3l4gL</a>	Alignment	not modelled	99.8	18	<b>PDB header:</b> ligase <b>Chain:</b> L: <b>PDB Molecule:</b> phenylalanyl-trna synthetase beta chain; <b>PDBTitle:</b> crystal structure of homo sapiens cytoplasmic phenylalanyl-trna2 synthetase
34	<a href="#">c3e9hB</a>	Alignment	not modelled	99.8	19	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> lysyl-trna synthetase; <b>PDBTitle:</b> lysyl-trna synthetase from bacillus stearothermophilus2 complexed with l-lysylsulfamoyl adenosine
35	<a href="#">c1eqrC</a>	Alignment	not modelled	99.8	34	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> aspartyl-trna synthetase; <b>PDBTitle:</b> crystal structure of free aspartyl-trna synthetase from2 escherichia coli
36	<a href="#">c4h02B</a>	Alignment	not modelled	99.8	21	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> lysyl-trna synthetase; <b>PDBTitle:</b> crystal structure of p. falciparum lysyl-trna synthetase
37	<a href="#">c6od8A</a>	Alignment	not modelled	99.8	24	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> putative aspartyl-trna synthetase; <b>PDBTitle:</b> crystal structure of a putative aspartyl-trna synthetase from2 leishmania major friedlin
38	<a href="#">c4ah6B</a>	Alignment	not modelled	99.8	23	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> aspartate--trna ligase, mitochondrial; <b>PDBTitle:</b> human mitochondrial aspartyl-trna synthetase
39	<a href="#">c1b8aB</a>	Alignment	not modelled	99.8	18	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> protein (aspartyl-trna synthetase); <b>PDBTitle:</b> aspartyl-trna synthetase
40	<a href="#">c1efwA</a>	Alignment	not modelled	99.8	30	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> aspartyl-trna synthetase; <b>PDBTitle:</b> crystal structure of aspartyl-trna synthetase from thermus2 thermophilus complexed to trnaasp from escherichia coli
41	<a href="#">d1b8aa2</a>	Alignment	not modelled	99.7	19	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
42	<a href="#">c1asyA</a>	Alignment	not modelled	99.7	19	<b>PDB header:</b> complex (aminoacyl-trna synthase/trna) <b>Chain:</b> A: <b>PDB Molecule:</b> aspartyl-trna synthetase; <b>PDBTitle:</b> class ii aminoacyl transfer rna synthetases: crystal2 structure of yeast aspartyl-trna synthetase complexed with3 trna asp
43	<a href="#">c4o2dB</a>	Alignment	not modelled	99.7	21	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> aspartate--trna ligase; <b>PDBTitle:</b> crystal structure of aspartyl-trna synthetase from mycobacterium2 smegmatis with bound aspartic acid
44	<a href="#">c3g1zB</a>	Alignment	not modelled	99.7	20	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> putative lysyl-trna synthetase; <b>PDBTitle:</b> structure of idp01693/yjea, a potential t-rna synthetase from2 salmonella typhimurium
45	<a href="#">c3ig2B</a>	Alignment	not modelled	99.7	11	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> phenylalanyl-trna synthetase beta chain; <b>PDBTitle:</b> the crystal structure of a putative phenylalanyl-trna synthetase2 (phers) beta chain domain from bacteroides fragilis to 2.1a
46	<a href="#">c3pcoD</a>	Alignment	not modelled	99.7	15	<b>PDB header:</b> ligase <b>Chain:</b> D: <b>PDB Molecule:</b> phenylalanyl-trna synthetase, beta chain; <b>PDBTitle:</b> crystal structure of e. coli phenylalanine-trna synthetase complexed2 with phenylalanine and amp
47	<a href="#">c4wj4A</a>	Alignment	not modelled	99.7	28	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> aspartate--trna(asp/asn) ligase; <b>PDBTitle:</b> crystal structure of non-discriminating aspartyl-trna synthetase from2 pseudomonas aeruginosa complexed with trna(asn) and aspartic acid
48	<a href="#">c1wydB</a>	Alignment	not modelled	99.7	18	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> hypothetical aspartyl-trna synthetase; <b>PDBTitle:</b> crystal structure of aspartyl-trna synthetase from sulfobolus tokodaii
49	<a href="#">c4p71B</a>	Alignment	not modelled	99.7	16	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> phenylalanine--trna ligase beta subunit; <b>PDBTitle:</b> apo phers from p. aeruginosa
50	<a href="#">c2rhsB</a>	Alignment	not modelled	99.7	18	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> phenylalanyl-trna synthetase beta chain; <b>PDBTitle:</b> phers from staphylococcus haemolyticus- rational protein engineering2 and inhibitor studies
51	<a href="#">d1l0wa3</a>	Alignment	not modelled	99.7	21	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
52	<a href="#">c1x55A</a>	Alignment	not modelled	99.7	19	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> asparaginyln-trna synthetase; <b>PDBTitle:</b> crystal structure of asparaginyln-trna synthetase from pyrococcus2 horikoshii complexed with asparaginyln-adenylate analogue
53	<a href="#">c4lnsA</a>	Alignment	not modelled	99.7	12	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> asparagine synthetase a; <b>PDBTitle:</b> crystal structure of asparagine synthetase a (asna) from trypanosoma2 brucei
54	<a href="#">d1cpv2</a>	Alignment	not modelled	99.7	19	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases

54	<a href="#">d1e0va2</a>	Alignment	not modelled	99.7	10	<b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain <b>PDB header:</b> ligase
55	<a href="#">c2xgtB</a>	Alignment	not modelled	99.6	20	<b>Chain:</b> B: <b>PDB Molecule:</b> asparaginyl-trna synthetase, cytoplasmic; <b>PDBTitle:</b> asparaginyl-trna synthetase from brugia malayi complexed2 with the sulphamoyl analogue of asparaginyl-adenylate <b>PDB header:</b> ligase
56	<a href="#">c5xixD</a>	Alignment	not modelled	99.6	26	<b>Chain:</b> D: <b>PDB Molecule:</b> asparagine--trna ligase, cytoplasmic; <b>PDBTitle:</b> the canonical domain of human asparaginyl-trna synthetase <b>PDB header:</b> ligase
57	<a href="#">c3i7fA</a>	Alignment	not modelled	99.6	23	<b>Chain:</b> A: <b>PDB Molecule:</b> aspartyl-trna synthetase; <b>PDBTitle:</b> aspartyl trna synthetase from entamoeba histolytica <b>PDB header:</b> ligase
58	<a href="#">c3m4qA</a>	Alignment	not modelled	99.5	20	<b>Chain:</b> A: <b>PDB Molecule:</b> asparaginyl-trna synthetase, putative; <b>PDBTitle:</b> entamoeba histolytica asparaginyl-trna synthetase (asnrs) <b>PDB header:</b> ligase
59	<a href="#">c2akwB</a>	Alignment	not modelled	99.5	23	<b>Chain:</b> B: <b>PDB Molecule:</b> phenylalanyl-trna synthetase beta chain; <b>PDBTitle:</b> crystal structure of t.thermophilus phenylalanyl-trna synthetase2 complexed with p-cl-phenylalanine <b>PDB header:</b> ligase
60	<a href="#">c5zg8A</a>	Alignment	not modelled	99.4	21	<b>Chain:</b> A: <b>PDB Molecule:</b> asparagine--trna ligase; <b>PDBTitle:</b> crystal structure of ttnrs <b>PDB header:</b> ligase
61	<a href="#">d1bbua2</a>	Alignment	not modelled	99.4	19	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
62	<a href="#">d1kmma2</a>	Alignment	not modelled	99.4	17	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
63	<a href="#">d1eiya1</a>	Alignment	not modelled	99.4	28	<b>Fold:</b> Long alpha-hairpin <b>Superfamily:</b> tRNA-binding arm <b>Family:</b> Phenylalanyl-tRNA synthetase (PheRS)
64	<a href="#">d1e1oa2</a>	Alignment	not modelled	99.4	22	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
65	<a href="#">c4j15A</a>	Alignment	not modelled	99.3	22	<b>Chain:</b> A: <b>PDB Molecule:</b> aspartate--trna ligase, cytoplasmic; <b>PDBTitle:</b> crystal structure of human cytosolic aspartyl-trna synthetase, a2 component of multi-trna synthetase complex <b>PDB header:</b> ligase
66	<a href="#">d1qf6a4</a>	Alignment	not modelled	99.2	16	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
67	<a href="#">d2iy5a1</a>	Alignment	not modelled	99.2	27	<b>Fold:</b> Long alpha-hairpin <b>Superfamily:</b> tRNA-binding arm <b>Family:</b> Phenylalanyl-tRNA synthetase (PheRS)
68	<a href="#">c1fyfB</a>	Alignment	not modelled	99.2	14	<b>Chain:</b> B: <b>PDB Molecule:</b> threonyl-trna synthetase; <b>PDBTitle:</b> crystal structure of a truncated form of threonyl-trna2 synthetase complexed with a seryl adenylate analog <b>PDB header:</b> ligase
69	<a href="#">c6h9xA</a>	Alignment	not modelled	99.2	18	<b>Chain:</b> A: <b>PDB Molecule:</b> serine--trna ligase; <b>PDBTitle:</b> klebsiella pneumoniae seryl-trna synthetase in complex with the2 intermediate analog 5'-o-(n-(l-seryl)-sulfamoyl)adenosine <b>PDB header:</b> ligase
70	<a href="#">c6bjjC</a>	Alignment	not modelled	99.1	18	<b>Chain:</b> C: <b>PDB Molecule:</b> serine-trna ligase; <b>PDBTitle:</b> crystal structure of cytoplasmic serine-trna ligase from naegleria2 fowleri in complex with amp <b>PDB header:</b> ligase
71	<a href="#">c2dq0A</a>	Alignment	not modelled	99.1	17	<b>Chain:</b> A: <b>PDB Molecule:</b> seryl-trna synthetase; <b>PDBTitle:</b> crystal structure of seryl-trna synthetase from pyrococcus2 horikoshii complexed with a seryl-adenylate analog <b>PDB header:</b> ligase
72	<a href="#">d1n9wa2</a>	Alignment	not modelled	99.1	24	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
73	<a href="#">c6oteA</a>	Alignment	not modelled	99.0	19	<b>Chain:</b> A: <b>PDB Molecule:</b> seryl-trna synthetase, cytoplasmic; <b>PDBTitle:</b> crystal structure of seryl-trna synthetase (serrs) from2 cryptosporidium parvum complexed with l-serylsulfamoyl adenosine <b>PDB header:</b> biosynthetic protein
74	<a href="#">c1n9wA</a>	Alignment	not modelled	99.0	20	<b>Chain:</b> A: <b>PDB Molecule:</b> aspartyl-trna synthetase 2; <b>PDBTitle:</b> crystal structure of the non-discriminating and archaeal-2 type aspartyl-trna synthetase from thermus thermophilus <b>PDB header:</b> ligase
75	<a href="#">c5zy9D</a>	Alignment	not modelled	99.0	15	<b>Chain:</b> D: <b>PDB Molecule:</b> threonyl-trna synthase; <b>PDBTitle:</b> structural basis for a trna synthetase <b>PDB header:</b> ligase
76	<a href="#">c3qo8A</a>	Alignment	not modelled	99.0	16	<b>Chain:</b> A: <b>PDB Molecule:</b> seryl-trna synthetase, cytoplasmic; <b>PDBTitle:</b> crystal structure of seryl-trna synthetase from candida albicans <b>PDB header:</b> transferase
77	<a href="#">c1z7nB</a>	Alignment	not modelled	99.0	10	<b>Chain:</b> B: <b>PDB Molecule:</b> atp phosphoribosyltransferase regulatory subunit; <b>PDBTitle:</b> atp phosphoribosyl transferase (hiszg atp-ptase) from2 lactococcus lactis with bound prpp substrate <b>PDB header:</b> ligase
78	<a href="#">c1nyqA</a>	Alignment	not modelled	99.0	13	<b>Chain:</b> A: <b>PDB Molecule:</b> threonyl-trna synthetase 1; <b>PDBTitle:</b> structure of staphylococcus aureus threonyl-trna synthetase2 complexed with an analogue of threonyl adenylate <b>PDB header:</b> ligase(synthetase)
79	<a href="#">c1sryB</a>	Alignment	not modelled	99.0	16	<b>Chain:</b> B: <b>PDB Molecule:</b> seryl-trna synthetase; <b>PDBTitle:</b> refined crystal structure of the seryl-trna synthetase from2 thermus thermophilus at 2.5 angstroms resolution <b>PDB header:</b> cytosolic protein

80	<a href="#">c6girA_</a>	Alignment	not modelled	99.0	14	<b>Chain:</b> A: <b>PDB Molecule:</b> serine--trna ligase, cytoplasmic; <b>PDBTitle:</b> arabidopsis thaliana cytosolic seryl-trna synthetase
81	<a href="#">c2dq3A_</a>	Alignment	not modelled	98.9	15	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> seryl-trna synthetase; <b>PDBTitle:</b> crystal structure of aq_298
82	<a href="#">d1seta2</a>	Alignment	not modelled	98.9	17	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
83	<a href="#">c3lssA_</a>	Alignment	not modelled	98.9	15	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> seryl-trna synthetase; <b>PDBTitle:</b> trypanosoma brucei seryl-trna synthetase in complex with atp
84	<a href="#">c4hwtA_</a>	Alignment	not modelled	98.9	16	<b>PDB header:</b> ligase/ligase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> threonine--trna ligase, cytoplasmic; <b>PDBTitle:</b> crystal structure of human threonyl-trna synthetase bound to a novel2 inhibitor
85	<a href="#">d1wu7a2</a>	Alignment	not modelled	98.9	15	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
86	<a href="#">c1qf6A_</a>	Alignment	not modelled	98.8	12	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> threonyl-trna synthetase; <b>PDBTitle:</b> structure of e. coli threonyl-trna synthetase complexed with its2 cognate trna
87	<a href="#">c6mn8A_</a>	Alignment	not modelled	98.8	13	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> uncharacterized protein; <b>PDBTitle:</b> crystal structure of prolyl-trna synthetase from onchocerca volvulus2 with bound halofuginone and nucleotide
88	<a href="#">c3racA_</a>	Alignment	not modelled	98.8	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> histidine-trna ligase; <b>PDBTitle:</b> crystal structure of histidine--trna ligase subunit from2 alicyclobacillus acidocaldarius subsp. acidocaldarius dsm 446.
89	<a href="#">c5e3iA_</a>	Alignment	not modelled	98.8	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> histidine--trna ligase; <b>PDBTitle:</b> crystal structure of a histidyl-trna synthetase from acinetobacter2 baumannii with bound l-histidine and atp
90	<a href="#">c3vbbB_</a>	Alignment	not modelled	98.8	17	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> seryl-trna synthetase, cytoplasmic; <b>PDBTitle:</b> crystal structure of seryl-trna synthetase from human at 2.9 angstroms
91	<a href="#">c2el9B_</a>	Alignment	not modelled	98.8	18	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> histidyl-trna synthetase; <b>PDBTitle:</b> crystal structure of e.coli histidyl-trna synthetase2 complexed with a histidyl-adenylate analogue
92	<a href="#">d1nj8a3</a>	Alignment	not modelled	98.7	19	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
93	<a href="#">c3a32A_</a>	Alignment	not modelled	98.7	19	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> probable threonyl-trna synthetase 1; <b>PDBTitle:</b> crystal structure of putative threonyl-trna synthetase thrs-1 from2 aeropyrum pernix
94	<a href="#">d1hc7a2</a>	Alignment	not modelled	98.7	16	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
95	<a href="#">c4hvcB_</a>	Alignment	not modelled	98.7	13	<b>PDB header:</b> ligase/ligase inhibitor <b>Chain:</b> B: <b>PDB Molecule:</b> bifunctional glutamate/proline--trna ligase; <b>PDBTitle:</b> crystal structure of human prolyl-trna synthetase in complex with2 halofuginone and atp analogue
96	<a href="#">d1b76a2</a>	Alignment	not modelled	98.7	14	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
97	<a href="#">d1nyra4</a>	Alignment	not modelled	98.7	16	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
98	<a href="#">c5xiiC_</a>	Alignment	not modelled	98.7	13	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> prolyl-trna synthetase (prors); <b>PDBTitle:</b> crystal structure of toxoplasma gondii prolyl-trna synthetase (tgprs)2 in complex with inhibitor 6
99	<a href="#">c1adyA_</a>	Alignment	not modelled	98.7	16	<b>PDB header:</b> trna synthetase <b>Chain:</b> A: <b>PDB Molecule:</b> histidyl-trna synthetase; <b>PDBTitle:</b> histidyl-trna synthetase in complex with histidyl-adenylate
100	<a href="#">c3mf2B_</a>	Alignment	not modelled	98.6	13	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> blI0957 protein; <b>PDBTitle:</b> crystal structure of class ii aars homologue (blI0957) complexed with2 amp
101	<a href="#">c3hrif_</a>	Alignment	not modelled	98.6	20	<b>PDB header:</b> ligase <b>Chain:</b> F: <b>PDB Molecule:</b> histidyl-trna synthetase; <b>PDBTitle:</b> histidyl-trna synthetase (apo) from trypanosoma brucei
102	<a href="#">c3ugtD_</a>	Alignment	not modelled	98.6	15	<b>PDB header:</b> ligase <b>Chain:</b> D: <b>PDB Molecule:</b> threonyl-trna synthetase, mitochondrial; <b>PDBTitle:</b> crystal structure of the yeast mitochondrial threonyl-trna synthetase2 - orthorhombic crystal form
103	<a href="#">d1nj1a3</a>	Alignment	not modelled	98.6	16	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
104	<a href="#">c6nabB_</a>	Alignment	not modelled	98.6	14	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> prolyl-trna synthetase; <b>PDBTitle:</b> crystal structure of prolyl-trna synthetase from naegleria fowleri in2 complex with proline and adenosine monophosphate (amp)
105	<a href="#">c1h4tD_</a>	Alignment	not modelled	98.6	15	<b>PDB header:</b> aminoacyl-trna synthetase <b>Chain:</b> D: <b>PDB Molecule:</b> prolyl-trna synthetase; <b>PDBTitle:</b> prolyl-trna synthetase from thermus thermophilus complexed2 with l-proline



106	<a href="#">d1atia2</a>	Alignment	not modelled	98.6	15	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
107	<a href="#">c1atiA_</a>	Alignment	not modelled	98.6	16	<b>PDB header:</b> protein biosynthesis <b>Chain:</b> A: <b>PDB Molecule:</b> glycyl-trna synthetase; <b>PDBTitle:</b> crystal structure of glycyl-trna synthetase from thermus thermophilus
108	<a href="#">c5m8hB_</a>	Alignment	not modelled	98.6	14	<b>PDB header:</b> transferase <b>Chain:</b> B: <b>PDB Molecule:</b> atp phosphoribosyltransferase regulatory subunit; <b>PDBTitle:</b> atp phosphoribosyltransferase (hiszg atpprt) from psychrobacter2 arcticus
109	<a href="#">c1ggmB_</a>	Alignment	not modelled	98.5	15	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> glycine--trna ligase; <b>PDBTitle:</b> glycyl-trna synthetase from thermus thermophilus complexed with2 glycyl-adenylate
110	<a href="#">c1wleB_</a>	Alignment	not modelled	98.5	16	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> seryl-trna synthetase; <b>PDBTitle:</b> crystal structure of mammalian mitochondrial seryl-trna2 synthetase complexed with seryl-adenylate
111	<a href="#">c1nj2A_</a>	Alignment	not modelled	98.5	14	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> proline-trna synthetase; <b>PDBTitle:</b> crystal structure of prolyl-trna synthetase from methanothermobacter2 thermautotrophicus
112	<a href="#">c2i4IC_</a>	Alignment	not modelled	98.5	13	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> proline-trna ligase; <b>PDBTitle:</b> rhodopseudomonas palustris prolyl-trna synthetase
113	<a href="#">d1h4vb2</a>	Alignment	not modelled	98.5	17	<b>Fold:</b> Class II aaRS and biotin synthetases <b>Superfamily:</b> Class II aaRS and biotin synthetases <b>Family:</b> Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
114	<a href="#">c2cj9A_</a>	Alignment	not modelled	98.5	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> seryl-trna synthetase; <b>PDBTitle:</b> crystal structure of methanosarcina barkeri seryl-trna synthetase2 complexed with an analog of seryladenylate
115	<a href="#">c3w3sA_</a>	Alignment	not modelled	98.5	17	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> type-2 serine--trna ligase; <b>PDBTitle:</b> crystal structure of a. aeolic trnasec in complex with m. kandleri2 serrs
116	<a href="#">c1nj8C_</a>	Alignment	not modelled	98.5	17	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> proline-trna synthetase; <b>PDBTitle:</b> crystal structure of prolyl-trna synthetase from2 methanocaldococcus janaschii
117	<a href="#">c3od1A_</a>	Alignment	not modelled	98.5	14	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> atp phosphoribosyltransferase regulatory subunit; <b>PDBTitle:</b> the crystal structure of an atp phosphoribosyltransferase regulatory2 subunit/histidyl-trna synthetase from bacillus halodurans c
118	<a href="#">c1wu7A_</a>	Alignment	not modelled	98.5	14	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> histidyl-trna synthetase; <b>PDBTitle:</b> crystal structure of histidyl-trna synthetase from2 thermoplasma acidophilum
119	<a href="#">c4e51B_</a>	Alignment	not modelled	98.4	22	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> histidine--trna ligase; <b>PDBTitle:</b> crystal structure of a histidyl-trna synthetase hisrs from2 burkholderia thailandensis bound to histidine
120	<a href="#">c4x5oB_</a>	Alignment	not modelled	98.4	14	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> histidine--trna ligase, cytoplasmic; <b>PDBTitle:</b> human histidine trna synthetase