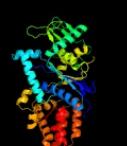
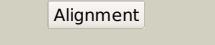
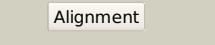
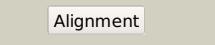


# Phyre<sup>2</sup>

Email	mdejesus@rockefeller.edu
Description	RVBD3580c_(cysS)_4022573_4023982
Date	Fri Aug 9 18:20:26 BST 2019
Unique Job ID	c157f525de3b8ec6

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	<a href="#">c1u0bB_</a>			100.0	41	<b>PDB header:</b> ligase/rna <b>Chain:</b> B; <b>PDB Molecule:</b> cysteinyl trna; <b>PDBTitle:</b> crystal structure of cysteinyl-trna synthetase binary2 complex with trnacys
2	<a href="#">c3sp1B_</a>			100.0	29	<b>PDB header:</b> ligase <b>Chain:</b> B; <b>PDB Molecule:</b> cysteinyl-trna synthetase; <b>PDBTitle:</b> crystal structure of cysteinyl-trna synthetase (cyss) from borrelia2 burgdorferi
3	<a href="#">c3c8zB_</a>			100.0	34	<b>PDB header:</b> ligase <b>Chain:</b> B; <b>PDB Molecule:</b> cysteinyl-trna synthetase; <b>PDBTitle:</b> the 1.6 a crystal structure of mshc: the rate limiting2 enzyme in the mycothiol biosynthetic pathway
4	<a href="#">c3tqoA_</a>			100.0	42	<b>PDB header:</b> ligase <b>Chain:</b> A; <b>PDB Molecule:</b> cysteinyl-trna synthetase; <b>PDBTitle:</b> structure of the cysteinyl-trna synthetase (cyss) from coxiella2 burnetii.
5	<a href="#">d1li5a2</a>			100.0	49	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
6	<a href="#">c5gl7A_</a>			100.0	16	<b>PDB header:</b> ligase <b>Chain:</b> A; <b>PDB Molecule:</b> methionine--trna ligase, cytoplasmic; <b>PDBTitle:</b> crystal structure of a truncated human cytosolic methionyl-trna2 synthetase
7	<a href="#">c2ct8A_</a>			100.0	23	<b>PDB header:</b> ligase/rna <b>Chain:</b> A; <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> crystal structure of aquifex aeolicus methionyl-trna2 synthetase complexed with tRNA(met) and methionyl-adenylate3 analogue
8	<a href="#">c4grdA_</a>			100.0	25	<b>PDB header:</b> ligase/ligase inhibitor <b>Chain:</b> A; <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> structure of methionyl-trna synthetase in complex with n-(1h-2 benzimidazol-2-ylmethyl)-n'-(2,4-dichlorophenyl)-6-(morpholin-4-yl)-3 1,3,5-triazine-2,4-diamine
9	<a href="#">c1woyA_</a>			100.0	26	<b>PDB header:</b> ligase <b>Chain:</b> A; <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> crystal structure of methionyl trna synthetase y225f mutant2 from thermus thermophilus
10	<a href="#">c1pfuA_</a>			100.0	18	<b>PDB header:</b> ligase <b>Chain:</b> A; <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> methionyl-trna synthetase from escherichia coli complexed2 with methionine phosphinate
11	<a href="#">c1rqgA_</a>			100.0	21	<b>PDB header:</b> ligase <b>Chain:</b> A; <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> methionyl-trna synthetase from pyrococcus abyssi

12	<a href="#">c3kflA</a>	Alignment		100.0	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> leishmania major methionyl-trna synthetase in complex with2 methionyladenylate and pyrophosphate
13	<a href="#">c4dlpB</a>	Alignment		100.0	22	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> aminoacyl-trna synthetase, class i:aminoacyl-trna <b>PDBTitle:</b> crystal structure of methionyl-trna synthetase metrs from brucella2 melitensis bound to selenomethionine
14	<a href="#">c2x1IC</a>	Alignment		100.0	24	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> crystal structure of mycobacterium smegmatis methionyl-trna synthetase2 in complex with methionine and adenosine
15	<a href="#">c3tunA</a>	Alignment		100.0	19	<b>PDB header:</b> ligase/ligase inhibitor <b>Chain:</b> A: <b>PDB Molecule:</b> methionyl-trna synthetase; <b>PDBTitle:</b> trypanosoma brucei methionyl-trna synthetase in complex with inhibitor2 chem 1356
16	<a href="#">c5urbB</a>	Alignment		100.0	19	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> methionine--trna ligase; <b>PDBTitle:</b> crystal structure of methionyl-trna synthetase (metrs) from2 acinetobacter baumannii with bound l-methionine
17	<a href="#">c4dlpA</a>	Alignment		100.0	23	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> aminoacyl-trna synthetase, class i:aminoacyl-trna <b>PDBTitle:</b> crystal structure of methionyl-trna synthetase metrs from brucella2 melitensis bound to selenomethionine
18	<a href="#">c3fnrA</a>	Alignment		100.0	20	<b>PDB header:</b> transferase <b>Chain:</b> A: <b>PDB Molecule:</b> arginyl-trna synthetase; <b>PDBTitle:</b> crystal structure of putative arginyl t-rna synthetase from2 campylobacter jejuni;
19	<a href="#">c3ziuB</a>	Alignment		100.0	18	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> leucyl-trna synthetase; <b>PDBTitle:</b> crystal structure of mycoplasma mobile leucyl-trna2 synthetase with leu-ams in the active site
20	<a href="#">c3ziuA</a>	Alignment		100.0	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> leucyl-trna synthetase; <b>PDBTitle:</b> crystal structure of mycoplasma mobile leucyl-trna2 synthetase with leu-ams in the active site
21	<a href="#">d1rqga2</a>	Alignment	not modelled	100.0	20	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
22	<a href="#">c6ao8A</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> arginine--trna ligase; <b>PDBTitle:</b> crystal structure of arginyl-trna synthetase from neisseria2 gonorrhoeae in complex with arginine
23	<a href="#">d2d5ba2</a>	Alignment	not modelled	100.0	26	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
24	<a href="#">d1pfva2</a>	Alignment	not modelled	100.0	18	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
25	<a href="#">c5xgqB</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> methionine-trna ligase; <b>PDBTitle:</b> crystal structure of apo form (free-state) mycobacterium tuberculosis2 methionyl-trna synthetase
26	<a href="#">c4obyA</a>	Alignment	not modelled	100.0	15	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> arginine--trna ligase; <b>PDBTitle:</b> crystal structure of e.coli arginyl-trna synthetase and ligand binding2 studies revealed key residues in arginine recognition
27	<a href="#">d1ffya3</a>	Alignment	not modelled	100.0	22	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
28	<a href="#">c5jldA</a>	Alignment	not modelled	100.0	9	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> arginyl-trna synthetase, putative; <b>PDBTitle:</b> crystal structure of arginyl-trna synthetase from plasmodium2 falciparum (pfrs)
						<b>Fold:</b> Adenine nucleotide alpha hydrolase-like

29	<a href="#">d1ilea3</a>	Alignment	not modelled	100.0	23	<b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
30	<a href="#">d1ivsa4</a>	Alignment	not modelled	100.0	19	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
31	<a href="#">c2zufA_</a>	Alignment	not modelled	100.0	15	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> arginyl-trna synthetase; <b>PDBTitle:</b> crystal structure of pyrococcus horikoshii arginyl-trna2 synthetase complexed with trna(arg)
32	<a href="#">d1irxa2</a>	Alignment	not modelled	100.0	15	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
33	<a href="#">c1gaxB_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> ligase/rna <b>Chain:</b> B: <b>PDB Molecule:</b> valyl-trna synthetase; <b>PDBTitle:</b> crystal structure of thermus thermophilus valyl-trna2 synthetase complexed with trna(val) and valyl-adenylate3 analogue
34	<a href="#">d1h3na3</a>	Alignment	not modelled	100.0	21	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
35	<a href="#">c5ah5B_</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> ligase/rna <b>Chain:</b> B: <b>PDB Molecule:</b> leucine--trna ligase; <b>PDBTitle:</b> crystal structure of the ternary complex of agrobacterium2 radiobacter k84 agnb2 leurs-trna-leuams
36	<a href="#">c1f7uA_</a>	Alignment	not modelled	100.0	16	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> arginyl-trna synthetase; <b>PDBTitle:</b> crystal structure of the arginyl-trna synthetase complexed with the2 trna(arg) and l-arg
37	<a href="#">c4r3zB_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> protein binding/ligase <b>Chain:</b> B: <b>PDB Molecule:</b> arginine--trna ligase, cytoplasmic; <b>PDBTitle:</b> crystal structure of human argrs-glnrs-aimp1 complex
38	<a href="#">c1ileA_</a>	Alignment	not modelled	100.0	23	<b>PDB header:</b> aminoacyl-trna synthetase <b>Chain:</b> A: <b>PDB Molecule:</b> isoleucyl-trna synthetase; <b>PDBTitle:</b> isoleucyl-trna synthetase
39	<a href="#">c1iq0A_</a>	Alignment	not modelled	100.0	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> arginyl-trna synthetase; <b>PDBTitle:</b> thermus thermophilus arginyl-trna synthetase
40	<a href="#">c1qu2A_</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> isoleucyl-trna synthetase; <b>PDBTitle:</b> insights into editing from an ile-trna synthetase structure2 with trna(ile) and mupirocin
41	<a href="#">c1wz2B_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> ligase/rna <b>Chain:</b> B: <b>PDB Molecule:</b> leucyl-trna synthetase; <b>PDBTitle:</b> the crystal structure of leucyl-trna synthetase and trna(leucine)2 complex
42	<a href="#">c1wkba_</a>	Alignment	not modelled	100.0	19	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> leucyl-trna synthetase; <b>PDBTitle:</b> crystal structure of leucyl-trna synthetase from the2 archaeon pyrococcus horikoshii reveals a novel editing3 domain orientation
43	<a href="#">c4ariA_</a>	Alignment	not modelled	100.0	22	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> leucine--trna ligase; <b>PDBTitle:</b> ternary complex of e. coli leucyl-trna synthetase, trna(leu) and the2 benzoxaborole an2679 in the editing conformation
44	<a href="#">d1f7ua2</a>	Alignment	not modelled	100.0	18	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
45	<a href="#">c4q2tB_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> arginine--trna ligase, cytoplasmic; <b>PDBTitle:</b> crystal structure of arginyl-trna synthetase complexed with l-arginine
46	<a href="#">c1obhA_</a>	Alignment	not modelled	100.0	24	<b>PDB header:</b> synthetase <b>Chain:</b> A: <b>PDB Molecule:</b> leucyl-trna synthetase; <b>PDBTitle:</b> leucyl-trna synthetase from thermus thermophilus complexed2 with a pre-transfer editing substrate analogue in both3 synthetic active site and editing site
47	<a href="#">c2bytD_</a>	Alignment	not modelled	100.0	20	<b>PDB header:</b> synthetase <b>Chain:</b> D: <b>PDB Molecule:</b> leucyl-trna synthetase; <b>PDBTitle:</b> thermus thermophilus leucyl-trna synthetase complexed with2 a trnaile transcript in the post-editing conformation
48	<a href="#">c6q8aA_</a>	Alignment	not modelled	100.0	24	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> leucine--trna ligase; <b>PDBTitle:</b> neisseria gonorrhoeae leucyl-trna synthetase in complex with 5'-o-(n-2 (l-leucyl)-sulfamoyl)cytidine
49	<a href="#">c1g59A_</a>	Alignment	not modelled	100.0	17	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-trna synthetase; <b>PDBTitle:</b> glutamyl-trna synthetase complexed with trna(glu).
50	<a href="#">d1iq0a2</a>	Alignment	not modelled	100.0	17	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
51	<a href="#">c1irxA_</a>	Alignment	not modelled	100.0	14	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> lysyl-trna synthetase; <b>PDBTitle:</b> crystal structure of class i lysyl-trna synthetase
52	<a href="#">d1gtra2</a>	Alignment	not modelled	100.0	13	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
53	<a href="#">c5h4vE_</a>	Alignment	not modelled	100.0	16	<b>PDB header:</b> ligase <b>Chain:</b> E: <b>PDB Molecule:</b> glutamate--trna ligase; <b>PDBTitle:</b> structure of glutamyl-trna synthetase (xoo1504) from xanthomonas2 oryzae pv. oryzae
54	<a href="#">c6b1pA_</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamate--trna ligase 1; <b>PDBTitle:</b> crystal structure of glutamate-trna synthetase from helicobacter2 pylori
						<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-trna synthetase 2;

55	<a href="#">c3afhA</a>	Alignment	not modelled	100.0	14	<b>PDBTitle:</b> crystal structure of thermotoga maritima nondiscriminating glutamyl-tRNA synthetase in complex with a glutamyl-amp analog <b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-tRNA synthetase; <b>PDBTitle:</b> non-discriminating glutamyl-tRNA synthetase from2 thermosynechococcus elongatus in complex with glu
56	<a href="#">c2cfoA</a>	Alignment	not modelled	100.0	14	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-tRNA synthetase; <b>PDBTitle:</b> mycobacterium tuberculosis glutamyl-tRNA synthetase
57	<a href="#">c2ja2A</a>	Alignment	not modelled	100.0	18	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of glytamyl-tRNA synthetase glurs from pseudomonas2 aeruginosa
58	<a href="#">c5tgtA</a>	Alignment	not modelled	100.0	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamate-tRNA ligase; <b>PDBTitle:</b> crystal structure of glutamyl-tRNA synthetase glurs from pseudomonas2 aeruginosa
59	<a href="#">c2o5rA</a>	Alignment	not modelled	100.0	21	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-tRNA synthetase 1; <b>PDBTitle:</b> crystal structure of glutamyl-tRNA synthetase 1 (ec 6.1.1.17)2 (glutamate-tRNA ligase 1) (glurs 1) (tm1351) from thermotoga maritima3 at 2.5 a resolution
60	<a href="#">c4griB</a>	Alignment	not modelled	99.9	13	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> glutamate-tRNA ligase; <b>PDBTitle:</b> crystal structure of a glutamyl-tRNA synthetase glurs from borrelia2 burgdorferi bound to glutamic acid and zinc
61	<a href="#">c6b1zA</a>	Alignment	not modelled	99.9	15	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamate-tRNA ligase; <b>PDBTitle:</b> crystal structure of glutamate-tRNA synthetase from elizabethkingia2 anophelis
62	<a href="#">c1exdA</a>	Alignment	not modelled	99.9	14	<b>PDB header:</b> ligase/rna <b>Chain:</b> A: <b>PDB Molecule:</b> glutaminyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of a tight-binding glutamine tRNA bound2 to glutamine aminoacyl tRNA synthetase
63	<a href="#">d1u0bb1</a>	Alignment	not modelled	99.9	28	<b>Fold:</b> Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases <b>Superfamily:</b> Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases <b>Family:</b> Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases
64	<a href="#">c3al0C</a>	Alignment	not modelled	99.9	15	<b>PDB header:</b> ligase/rna <b>Chain:</b> C: <b>PDB Molecule:</b> glutamyl-tRNA(gln) amidotransferase subunit c,linker, <b>PDBTitle:</b> crystal structure of the glutamine transamidosome from thermotoga2 maritima in the glutamylation state.
65	<a href="#">c2hz7A</a>	Alignment	not modelled	99.9	18	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutaminyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of the glutaminyl-tRNA synthetase from deinococcus2 radiodurans
66	<a href="#">c4p2bA</a>	Alignment	not modelled	99.8	15	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamine aminoacyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of the apo form of the glutaminyl-tRNA synthetase2 catalytic domain from toxoplasma gondii.
67	<a href="#">c4g6zA</a>	Alignment	not modelled	99.8	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamate-tRNA ligase; <b>PDBTitle:</b> crystal structure of a glutamyl-tRNA synthetase glurs from2 burkholderia thailandensis bound to l-glutamate
68	<a href="#">c5zdoA</a>	Alignment	not modelled	99.7	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamine-tRNA ligase; <b>PDBTitle:</b> crystal structure analysis of ttqrs in co-crystallised with atp
69	<a href="#">c5bnzA</a>	Alignment	not modelled	99.7	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamine-tRNA ligase; <b>PDBTitle:</b> crystal structure of glutamine-tRNA ligase /glutaminyl-tRNA synthetase2 (glnrs) from pseudomonas aeruginosa
70	<a href="#">c4r3zC</a>	Alignment	not modelled	99.7	15	<b>PDB header:</b> protein binding/ligase <b>Chain:</b> C: <b>PDB Molecule:</b> glutamine-tRNA ligase; <b>PDBTitle:</b> crystal structure of human argrs-glnrs-aimp1 complex
71	<a href="#">c4h3sA</a>	Alignment	not modelled	99.7	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamine-tRNA ligase; <b>PDBTitle:</b> the structure of glutaminyl-tRNA synthetase from saccharomyces2 cerevisiae
72	<a href="#">c4ye6A</a>	Alignment	not modelled	99.7	13	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamine-tRNA ligase; <b>PDBTitle:</b> the crystal structure of the intact human glnrs
73	<a href="#">d1j09a2</a>	Alignment	not modelled	99.6	18	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
74	<a href="#">d1nzja</a>	Alignment	not modelled	99.6	14	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
75	<a href="#">c3aiIA</a>	Alignment	not modelled	99.5	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> glutamyl-tRNA synthetase; <b>PDBTitle:</b> archaeal non-discriminating glutamyl-tRNA synthetase from2 methanothermobacter thermautotrophicus
76	<a href="#">c2cybA</a>	Alignment	not modelled	99.2	19	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of tyrosyl-tRNA synthetase complexed with2 l-tyrosine from archaeoglobus fulgidus
77	<a href="#">c6mtkA</a>	Alignment	not modelled	98.9	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophanyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-tRNA synthetase from elizabethkingia2 anophelis nuhp1
78	<a href="#">c1h3eA</a>	Alignment	not modelled	98.8	22	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosyl-tRNA synthetase from thermus thermophilus complexed with wild-2 type trnayr(gua) and with atp and tyrosinol
79	<a href="#">c6otjA</a>	Alignment	not modelled	98.7	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosine-tRNA ligase; <b>PDBTitle:</b> crystal structure of tyrosyl-tRNA synthetase from neisseria2 gonorrhoeae with bound l-tyr
						<b>Fold:</b> Adenine nucleotide alpha hydrolase-like

80	<a href="#">d1h3fa1</a>	Alignment	not modelled	98.7	21	<b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
81	<a href="#">c2el7A</a>	Alignment	not modelled	98.7	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-trna synthetase from thermus2 thermophilus
82	<a href="#">d1i6la</a>	Alignment	not modelled	98.7	16	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
83	<a href="#">c2cyaA</a>	Alignment	not modelled	98.6	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tyrosyl-trna synthetase from aeropyrum pernix
84	<a href="#">c3vgjB</a>	Alignment	not modelled	98.6	19	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> tyrosyl-trna synthetase, putative; <b>PDBTitle:</b> crystal of plasmodium falciparum tyrosyl-trna synthetase (pfyrrs)in2 complex with adenylate analog
85	<a href="#">c3a05A</a>	Alignment	not modelled	98.6	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-trna synthetase from2 hyperthermophilic archaeon, aeropyrum pernix k1 complex3 with tryptophan
86	<a href="#">d1jlja</a>	Alignment	not modelled	98.6	18	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
87	<a href="#">c1jiiA</a>	Alignment	not modelled	98.6	18	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosyl-trna synthetase; <b>PDBTitle:</b> crystal structure of s. aureus tyrrs in complex with sb-219383
88	<a href="#">d1li5a1</a>	Alignment	not modelled	98.6	27	<b>Fold:</b> Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases <b>Superfamily:</b> Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases <b>Family:</b> Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases
89	<a href="#">c3m5wB</a>	Alignment	not modelled	98.6	14	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-trna synthetase from campylobacter2 jejuni
90	<a href="#">c3prhB</a>	Alignment	not modelled	98.6	17	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> tryptophanyl-trna synthetase val144pro mutant from b. subtilis
91	<a href="#">c5tevA</a>	Alignment	not modelled	98.6	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophan--trna ligase; <b>PDBTitle:</b> crystal structure of a tryptophanyl-trna synthetase from neisseria2 gonorrhoeae, apo
92	<a href="#">c2g36A</a>	Alignment	not modelled	98.6	15	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-trna synthetase (ec 6.1.1.2)(tryptophan-trna ligase)(trprps) (tm0492) from thermotoga maritima at3 2.50 a resolution
93	<a href="#">c3jxeB</a>	Alignment	not modelled	98.6	13	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of pyrococcus horikoshii tryptophanyl-trna synthetase in complex with tramp
94	<a href="#">c2j5bA</a>	Alignment	not modelled	98.5	20	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosyl-trna synthetase; <b>PDBTitle:</b> structure of the tyrosyl trna synthetase from acanthamoeba polyphaga2 mimivirus complexed with tyrosynol
95	<a href="#">c3hzrD</a>	Alignment	not modelled	98.5	13	<b>PDB header:</b> ligase <b>Chain:</b> D: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> tryptophanyl-trna synthetase homolog from entamoeba histolytica
96	<a href="#">c6ncrB</a>	Alignment	not modelled	98.4	19	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> tryptophan--trna ligase; <b>PDBTitle:</b> crystal structure of tryptophan-trna ligase from chlamydia trachomatis2 with bound l-tryptophan
97	<a href="#">c5ekdA</a>	Alignment	not modelled	98.4	13	<b>PDB header:</b> ligase/antibiotic <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophan--trna ligase, mitochondrial; <b>PDBTitle:</b> human mitochondrial tryptophanyl-trna synthetase bound by indolmycin2 and mn*atp.
98	<a href="#">c2rkjM</a>	Alignment	not modelled	98.4	19	<b>PDB header:</b> ligase/rna <b>Chain:</b> M: <b>PDB Molecule:</b> tyrosyl-trna synthetase; <b>PDBTitle:</b> cocrystal structure of a tyrosyl-trna synthetase splicing factor with2 a group i intron rna
99	<a href="#">c2yy5C</a>	Alignment	not modelled	98.4	17	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-trna synthetase from mycoplasma2 pneumoniae
100	<a href="#">c4j75B</a>	Alignment	not modelled	98.4	13	<b>PDB header:</b> ligase <b>Chain:</b> B: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of a parasite trna synthetase, product-bound
101	<a href="#">c1yi8C</a>	Alignment	not modelled	98.4	16	<b>PDB header:</b> ligase <b>Chain:</b> C: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl trrna synthetase ii from deinococcus2 radiodurans in complex with l-trp
102	<a href="#">c3tzeA</a>	Alignment	not modelled	98.4	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tryptophanyl-trna synthetase; <b>PDBTitle:</b> crystal structure of a tryptophanyl-trna synthetase from2 encephalitozoon cuniculi bound to tryptophan
103	<a href="#">c1x8xA</a>	Alignment	not modelled	98.3	16	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosyl-trna synthetase; <b>PDBTitle:</b> tyrosyl t-rna synthetase from e.coli complexed with tyrosine
104	<a href="#">c6byqA</a>	Alignment	not modelled	98.3	17	<b>PDB header:</b> ligase <b>Chain:</b> A: <b>PDB Molecule:</b> tyrosine--trna ligase; <b>PDBTitle:</b> crystal structure of tyrosine-trna ligase from helicobacter pylori g27
						<b>PDB header:</b> ligase

105	<a href="#">c2janD_</a>	Alignment	not modelled	98.3	16	<b>Chain: D: PDB Molecule:</b> tyrosyl-tRNA synthetase; <b>PDBTitle:</b> tyrosyl-tRNA synthetase from mycobacterium tuberculosis in2 unliganded state
106	<a href="#">c3kt3D_</a>	Alignment	not modelled	98.3	14	<b>PDB header:</b> ligase <b>Chain: D: PDB Molecule:</b> tryptophanyl-tRNA synthetase, cytoplasmic; <b>PDBTitle:</b> crystal structure of s. cerevisiae tryptophanyl-tRNA synthetase in2 complex with trpamp
107	<a href="#">c6n0wA_</a>	Alignment	not modelled	98.2	16	<b>PDB header:</b> ligase <b>Chain: A: PDB Molecule:</b> tyrosine--tRNA ligase; <b>PDBTitle:</b> crystal structure of a tyrosine--tRNA ligase from elizabethkingia2 anophelis
108	<a href="#">c3n9jA_</a>	Alignment	not modelled	98.2	16	<b>PDB header:</b> ligase <b>Chain: A: PDB Molecule:</b> tryptophanyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-tRNA synthetase from yersinia pestis2 co92
109	<a href="#">d2ts1a_</a>	Alignment	not modelled	98.1	16	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
110	<a href="#">c2ts1A_</a>	Alignment	not modelled	98.1	16	<b>PDB header:</b> ligase (synthetase) <b>Chain: A: PDB Molecule:</b> tyrosyl-tRNA synthetase; <b>PDBTitle:</b> structure of tyrosyl-tRNA synthetase refined at 2.3 angstroms2 resolution. interaction of the enzyme with the tyrosyl adenylate3 intermediate
111	<a href="#">c3p0jD_</a>	Alignment	not modelled	98.1	18	<b>PDB header:</b> ligase <b>Chain: D: PDB Molecule:</b> tyrosyl-tRNA synthetase; <b>PDBTitle:</b> leishmania major tyrosyl-tRNA synthetase in complex with tyrosinol,2 triclinic crystal form 1
112	<a href="#">c2dlcX_</a>	Alignment	not modelled	98.1	15	<b>PDB header:</b> ligase/tRNA <b>Chain: X: PDB Molecule:</b> tyrosyl-tRNA synthetase, cytoplasmic; <b>PDBTitle:</b> crystal structure of the ternary complex of yeast tyrosyl-tRNA synthetase
113	<a href="#">c3focB_</a>	Alignment	not modelled	98.1	16	<b>PDB header:</b> ligase <b>Chain: B: PDB Molecule:</b> tryptophanyl-tRNA synthetase; <b>PDBTitle:</b> tryptophanyl-tRNA synthetase from giardia lamblia
114	<a href="#">c2cycB_</a>	Alignment	not modelled	98.0	19	<b>PDB header:</b> ligase <b>Chain: B: PDB Molecule:</b> tyrosyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of tyrosyl-tRNA synthetase complexed with L-tyrosine2 from pyrococcus horikoshii
115	<a href="#">c2quiB_</a>	Alignment	not modelled	98.0	18	<b>PDB header:</b> ligase <b>Chain: B: PDB Molecule:</b> tryptophanyl-tRNA synthetase; <b>PDBTitle:</b> crystal structures of human tryptophanyl-tRNA synthetase in2 complex with tryptophanamide and ATP
116	<a href="#">c3sz3A_</a>	Alignment	not modelled	97.9	23	<b>PDB header:</b> ligase <b>Chain: A: PDB Molecule:</b> tryptophanyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of tryptophanyl-tRNA synthetase from vibrio cholerae2 with an endogenous tryptophan
117	<a href="#">c5ihxB_</a>	Alignment	not modelled	97.9	13	<b>PDB header:</b> ligase <b>Chain: B: PDB Molecule:</b> tyrosine--tRNA ligase, mitochondrial; <b>PDBTitle:</b> crystal structure of a C-terminally truncated aspergillus nidulans2 mitochondrial tyrosyl-tRNA synthetase
118	<a href="#">d1j1ua_</a>	Alignment	not modelled	97.7	16	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain
119	<a href="#">c1r6tA_</a>	Alignment	not modelled	97.6	17	<b>PDB header:</b> ligase <b>Chain: A: PDB Molecule:</b> tryptophanyl-tRNA synthetase; <b>PDBTitle:</b> crystal structure of human tryptophanyl-tRNA synthetase
120	<a href="#">d1n3la_</a>	Alignment	not modelled	97.5	17	<b>Fold:</b> Adenine nucleotide alpha hydrolase-like <b>Superfamily:</b> Nucleotidyl transferase <b>Family:</b> Class I aminoacyl-tRNA synthetases (RS), catalytic domain