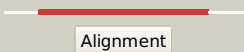

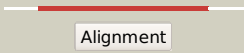



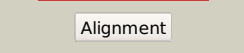



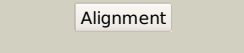

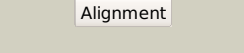



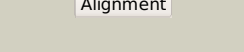

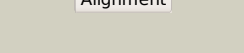

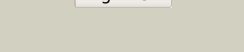












Phyre2

Email	mdejesus@rockefeller.edu
Description	RVBD2130c_cysS_2391223_2392467
Date	Mon Aug 5 13:25:25 BST 2019
Unique Job ID	87254a7df8bb8795

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c3c8zB_	 Alignment		100.0	76	PDB header: ligase Chain: B: PDB Molecule: cysteinyI-trna synthetase; PDBTitle: the 1.6 a crystal structure of mshc: the rate limiting2 enzyme in the mycothiol biosynthetic pathway
2	c1u0bB_	 Alignment		100.0	37	PDB header: ligase/rna Chain: B: PDB Molecule: cysteinyI trna; PDBTitle: crystal structure of cysteinyI-trna synthetase binary2 complex with trnacys
3	c3sp1B_	 Alignment		100.0	26	PDB header: ligase Chain: B: PDB Molecule: cysteinyI-trna synthetase; PDBTitle: crystal structure of cysteinyI-trna synthetase (cyss) from borrelia2 burgdorferi
4	c3tqoA_	 Alignment		100.0	35	PDB header: ligase Chain: A: PDB Molecule: cysteinyI-trna synthetase; PDBTitle: structure of the cysteinyI-trna synthetase (cyss) from coxiella2 burnetii.
5	d1li5a2	 Alignment		100.0	43	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyI-tRNA synthetases (RS), catalytic domain
6	c5gl7A_	 Alignment		100.0	14	PDB header: ligase Chain: A: PDB Molecule: methionine--trna ligase, cytoplasmic; PDBTitle: crystal structure of a truncated human cytosolic methionyl-trna2 synthetase
7	c1rqgA_	 Alignment		100.0	16	PDB header: ligase Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: methionyl-trna synthetase from pyrococcus abyssii
8	c2ct8A_	 Alignment		100.0	19	PDB header: ligase/rna Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: crystal structure of aquifex aeolicus methionyl-trna2 synthetase complexed with trna(met) and methionyl-adenylate3 analogue
9	c1woyA_	 Alignment		100.0	21	PDB header: ligase Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: crystal structure of methionyl trna synthetase y225f mutant2 from thermus thermophilus
10	c4qrdA_	 Alignment		100.0	18	PDB header: ligase/ligase inhibitor Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: 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
11	c1pfuA_	 Alignment		100.0	18	PDB header: ligase Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: methionyl-trna synthetase from escherichia coli complexed2 with methionine phosphinate

12	c5urbB_	Alignment		100.0	18	PDB header: ligase Chain: B: PDB Molecule: methionine--trna ligase; PDBTitle: crystal structure of methionyl-trna synthetase (metrs) from2 acinetobacter baumannii with bound l-methionine
13	c2x1lC_	Alignment		100.0	19	PDB header: ligase Chain: C: PDB Molecule: methionyl-trna synthetase; PDBTitle: crystal structure of mycobacterium smegmatis methionyl-trna synthetase2 in complex with methionine and adenosine
14	c3kflA_	Alignment		100.0	16	PDB header: ligase Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: leishmania major methionyl-trna synthetase in complex with2 methionyladenylate and pyrophosphate
15	c3ziuB_	Alignment		100.0	15	PDB header: ligase Chain: B: PDB Molecule: leucyl-trna synthetase; PDBTitle: crystal structure of mycoplasma mobile leucyl-trna2 synthetase with leu-ams in the active site
16	c3tunA_	Alignment		100.0	18	PDB header: ligase/ligase inhibitor Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: trypanosoma brucei methionyl-trna synthetase in complex with inhibitor2 chem 1356
17	c4dlpB_	Alignment		100.0	18	PDB header: ligase Chain: B: PDB Molecule: aminoacyl-trna synthetase, class i:aminoacyl-trna PDBTitle: crystal structure of methionyl-trna synthetase metrs from brucella2 melitensis bound to selenomethionine
18	c3ziuA_	Alignment		100.0	16	PDB header: ligase Chain: A: PDB Molecule: leucyl-trna synthetase; PDBTitle: crystal structure of mycoplasma mobile leucyl-trna2 synthetase with leu-ams in the active site
19	c4dlpA_	Alignment		100.0	18	PDB header: ligase Chain: A: PDB Molecule: aminoacyl-trna synthetase, class i:aminoacyl-trna PDBTitle: crystal structure of methionyl-trna synthetase metrs from brucella2 melitensis bound to selenomethionine
20	c1gaxB_	Alignment		100.0	22	PDB header: ligase/rna Chain: B: PDB Molecule: valyl-trna synthetase; PDBTitle: crystal structure of thermus thermophilus valyl-trna2 synthetase complexed with trna(val) and valyl-adenylate3 analogue
21	d1rqga2	Alignment	not modelled	100.0	17	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
22	d1ffya3	Alignment	not modelled	100.0	17	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
23	d1ivsa4	Alignment	not modelled	100.0	18	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
24	d1ilea3	Alignment	not modelled	100.0	20	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
25	c1qu2A_	Alignment	not modelled	100.0	24	PDB header: ligase/rna Chain: A: PDB Molecule: isoleucyl-trna synthetase; PDBTitle: insights into editing from an ile-trna synthetase structure2 with trna(ile) and mupirocin
26	d2d5ba2	Alignment	not modelled	100.0	22	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
27	c3fnrA_	Alignment	not modelled	100.0	17	PDB header: transferase Chain: A: PDB Molecule: arginyl-trna synthetase; PDBTitle: crystal structure of putative arginyl t-rna synthetase from2 campylobacter jejuni;
28	d1pfva2	Alignment	not modelled	100.0	16	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
29	c5ah5B_	Alignment	not modelled	100.0	21	PDB header: ligase/rna Chain: B: PDB Molecule: leucine--trna ligase;

29	cJanB	Alignment	not modelled	100.0	41	PDBTitle: crystal structure of the ternary complex of agrobacterium2 radiobacter k84 agnb2 leuvs-trna-leuams PDB header: ligase/rna
30	c1wz2B	Alignment	not modelled	100.0	23	Chain: B: PDB Molecule: leucyl-trna synthetase; PDBTitle: the crystal structure of leucyl-trna synthetase and trna(leucine)2 complex
31	d1h3na3	Alignment	not modelled	100.0	21	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
32	c1wkbA	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A: PDB Molecule: leucyl-trna synthetase; PDBTitle: crystal structure of leucyl-trna synthetase from the2 archaeon pyrococcus horikoshii reveals a novel editing3 domain orientation
33	c1ileA	Alignment	not modelled	100.0	21	PDB header: aminoacyl-trna synthetase Chain: A: PDB Molecule: isoleucyl-trna synthetase; PDBTitle: isoleucyl-trna synthetase
34	c4ariA	Alignment	not modelled	100.0	19	PDB header: ligase/rna Chain: A: PDB Molecule: leucine--trna ligase; PDBTitle: ternary complex of e. coli leucyl-trna synthetase, trna(leu) and the2 benzoxaborole an2679 in the editing conformation
35	c5xgqB	Alignment	not modelled	100.0	21	PDB header: ligase Chain: B: PDB Molecule: methionine-trna ligase; PDBTitle: crystal structure of apo form (free-state) mycobacterium tuberculosis2 methionyl-trna synthetase
36	c6ao8A	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: arginine--trna ligase; PDBTitle: crystal structure of arginyl-trna synthetase from neisseria2 gonorrhoeae in complex with arginine
37	d1irxa2	Alignment	not modelled	100.0	15	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
38	c2bytD	Alignment	not modelled	100.0	27	PDB header: synthetase Chain: D: PDB Molecule: leucyl-trna synthetase; PDBTitle: thermus thermophilus leucyl-trna synthetase complexed with2 a trnaleu transcript in the post-editing conformation
39	c4obyA	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: arginine--trna ligase; PDBTitle: crystal structure of e.coli arginyl-trna synthetase and ligand binding2 studies revealed key residues in arginine recognition
40	c1obhA	Alignment	not modelled	100.0	24	PDB header: synthetase Chain: A: PDB Molecule: leucyl-trna synthetase; PDBTitle: leucyl-trna synthetase from thermus thermophilus complexed2 with a pre-transfer editing substrate analogue in both3 synthetic active site and editing site
41	c6q8aA	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: leucine--trna ligase; PDBTitle: neisseria gonorrhoeae leucyl-trna synthetase in complex with 5'-o-(n-2 (l-leucyl)-sulfamoyl)cytidine
42	c5jldA	Alignment	not modelled	100.0	13	PDB header: ligase Chain: A: PDB Molecule: arginyl-trna synthetase, putative; PDBTitle: crystal structure of arginyl-trna synthetase from plasmodium2 falciparum (pfrs)
43	c1iq0A	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A: PDB Molecule: arginyl-trna synthetase; PDBTitle: thermus thermophilus arginyl-trna synthetase
44	c2zufA	Alignment	not modelled	100.0	15	PDB header: ligase/rna Chain: A: PDB Molecule: arginyl-trna synthetase; PDBTitle: crystal structure of pyrococcus horikoshii arginyl-trna2 synthetase complexed with trna(arg)
45	d1f7ua2	Alignment	not modelled	100.0	16	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
46	d1qtra2	Alignment	not modelled	100.0	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
47	c4r3zB	Alignment	not modelled	100.0	19	PDB header: protein binding/ligase Chain: B: PDB Molecule: arginine--trna ligase, cytoplasmic; PDBTitle: crystal structure of human argrs-glnrs-aimp1 complex
48	c1g59A	Alignment	not modelled	100.0	16	PDB header: ligase/rna Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: glutamyl-trna synthetase complexed with trna(glu).
49	c1f7uA	Alignment	not modelled	100.0	17	PDB header: ligase/rna Chain: A: PDB Molecule: arginyl-trna synthetase; PDBTitle: crystal structure of the arginyl-trna synthetase complexed with the2 trna(arg) and l-arg
50	c3afhA	Alignment	not modelled	100.0	16	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase 2; PDBTitle: crystal structure of thermotoga maritima nondiscriminating glutamyl-2 trna synthetase in complex with a glutamyl-amp analog
51	c6b1pA	Alignment	not modelled	100.0	20	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase 1; PDBTitle: crystal structure of glutamate-trna synthetase from helicobacter2 pylori
52	c2ja2A	Alignment	not modelled	100.0	15	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: mycobacterium tuberculosis glutamyl-trna synthetase
53	d1iq0a2	Alignment	not modelled	100.0	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
54	c5h4vE	Alignment	not modelled	100.0	19	PDB header: ligase Chain: E: PDB Molecule: glutamate--trna ligase; PDBTitle: structure of glutamyl-trna synthetase (xoo1504) from xanthomonas2 oryzae pv. oryzae PDB header: ligase

55	c4q2tB_	Alignment	not modelled	100.0	19	Chain: B: PDB Molecule: arginine--trna ligase, cytoplasmic; PDBTitle: crystal structure of arginyl-trna synthetase complexed with l-arginine
56	c2cfoA_	Alignment	not modelled	100.0	19	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: non-discriminating glutamyl-trna synthetase from2 thermosynechococcus elongatus in complex with glu
57	c4griB_	Alignment	not modelled	100.0	13	PDB header: ligase Chain: B: PDB Molecule: glutamate--trna ligase; PDBTitle: crystal structure of a glutamyl-trna synthetase glurs from borrelia2 burgdorferi bound to glutamic acid and zinc
58	c5tgtA_	Alignment	not modelled	100.0	13	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase; PDBTitle: crystal structure of glytamyl-trna synthetase glurs from pseudomonas2 aeruginosa
59	c1irxA_	Alignment	not modelled	100.0	14	PDB header: ligase Chain: A: PDB Molecule: lysyl-trna synthetase; PDBTitle: crystal structure of class i lysyl-trna synthetase
60	c2o5rA_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase 1; PDBTitle: 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
61	c1exdA_	Alignment	not modelled	100.0	12	PDB header: ligase/rna Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: crystal structure of a tight-binding glutamine trna bound2 to glutamine aminoacyl trna synthetase
62	c2hz7A_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: crystal structure of the glutamyl-trna synthetase from deinococcus2 radiodurans
63	c4p2bA_	Alignment	not modelled	100.0	16	PDB header: ligase Chain: A: PDB Molecule: glutamine aminoacyl-trna synthetase; PDBTitle: crystal structure of the apo form of the glutamyl-trna synthetase2 catalytic domain from toxoplasma gondii.
64	c4g6zA_	Alignment	not modelled	100.0	18	PDB header: ligase Chain: A: PDB Molecule: glutamate-trna ligase; PDBTitle: crystal structure of a glutamyl-trna synthetase glurs from2 burkholderia thailandensis bound to l-glutamate
65	c3a10C_	Alignment	not modelled	100.0	18	PDB header: ligase/rna Chain: C: PDB Molecule: glutamyl-trna(gln) amidotransferase subunit c,linker, PDBTitle: crystal structure of the glutamine transamidosome from thermotoga2 maritima in the glutamylation state.
66	c6b1zA_	Alignment	not modelled	100.0	17	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase; PDBTitle: crystal structure of glutamate-trna synthetase from elizabethkingia2 anophelis
67	c4r3zC_	Alignment	not modelled	99.9	14	PDB header: protein binding/ligase Chain: C: PDB Molecule: glutamine--trna ligase; PDBTitle: crystal structure of human argrs-glnrs-aimp1 complex
68	c5zdoA_	Alignment	not modelled	99.9	18	PDB header: ligase Chain: A: PDB Molecule: glutamine-trna ligase; PDBTitle: crystal structure analysis of ttqrs in co-crystallised with atp
69	c5bnzA_	Alignment	not modelled	99.9	12	PDB header: ligase Chain: A: PDB Molecule: glutamine--trna ligase; PDBTitle: crystal structure of glutamine-trna ligase /glutamyl-trna synthetase2 (glnrs) from pseudomonas aeruginosa
70	c4h3sA_	Alignment	not modelled	99.9	16	PDB header: ligase Chain: A: PDB Molecule: glutamine-trna ligase; PDBTitle: the structure of glutamyl-trna synthetase from saccharomyces2 cerevisiae
71	d1j09a2	Alignment	not modelled	99.9	17	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
72	c4ye6A_	Alignment	not modelled	99.9	13	PDB header: ligase Chain: A: PDB Molecule: glutamine--trna ligase; PDBTitle: the crystal structure of the intact human glnrs
73	c3aiiA_	Alignment	not modelled	99.9	18	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: archaeal non-discriminating glutamyl-trna synthetase from2 methanothermobacter thermautotrophicus
74	d1nzza_	Alignment	not modelled	99.8	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
75	c2cybA_	Alignment	not modelled	99.0	22	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase complexed with2 l-tyrosine from archaeoglobus fulgidus
76	c6mtkA_	Alignment	not modelled	99.0	14	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from elizabethkingia2 anophelis nuhp1
77	c1h3eA_	Alignment	not modelled	98.9	21	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl-trna synthetase from thermus thermophilus complexed with wild-2 type trnatyr(gua) and with atp and tyrosinol
78	c2el7A_	Alignment	not modelled	98.9	12	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from thermus2 thermophilus
79	c6ncrB_	Alignment	not modelled	98.9	17	PDB header: ligase Chain: B: PDB Molecule: tryptophan--trna ligase; PDBTitle: crystal structure of tryptophan-trna ligase from chlamydia trachomatis2 with bound l-tryptophan
80	c5tevA_	Alignment	not modelled	98.8	14	PDB header: ligase Chain: A: PDB Molecule: tryptophan--trna ligase; PDBTitle: crystal structure of a tryptophanyl-trna synthetase from

						neisseria2 gonorrhoeae, apo
81	c6otjA_	Alignment	not modelled	98.8	17	PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosyl-trna synthetase from neisseria2 gonorrhoeae with bound l-tyr
82	c2g36A_	Alignment	not modelled	98.7	18	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase (ec 6.1.1.2)2 (tryptophan-trna ligase)(trprs) (tm0492) from thermotoga maritima at3 2.50 a resolution
83	c2cyaA_	Alignment	not modelled	98.7	19	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase from aeropyrum pernix
84	c2rkjM_	Alignment	not modelled	98.7	16	PDB header: ligase/rna Chain: M: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: cocrystal structure of a tyrosyl-trna synthetase splicing factor with2 a group i intron rna
85	c3jxeB_	Alignment	not modelled	98.7	15	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of pyrococcus horikoshii tryptophanyl-trna2 synthetase in complex with trpamp
86	c2janD_	Alignment	not modelled	98.7	18	PDB header: ligase Chain: D: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl-trna synthetase from mycobacterium tuberculosis in2 unliganded state
87	c3m5wB_	Alignment	not modelled	98.7	12	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from campylobacter2 jejuni
88	c3a05A_	Alignment	not modelled	98.7	21	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from2 hyperthermophilic archaeon, aeropyrum pernix k1 complex3 with tryptophan
89	d1jila_	Alignment	not modelled	98.6	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
90	d1h3fa1	Alignment	not modelled	98.6	19	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
91	c3vgjB_	Alignment	not modelled	98.6	14	PDB header: ligase Chain: B: PDB Molecule: tyrosyl-trna synthetase, putative; PDBTitle: crystal of plasmodium falciparum tyrosyl-trna synthetase (pftyrrs)in2 complex with adenylate analog
92	c3prhB_	Alignment	not modelled	98.6	13	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase val144pro mutant from b. subtilis
93	c2j5bA_	Alignment	not modelled	98.6	26	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: structure of the tyrosyl trna synthetase from acanthamoeba polyphaga2 mimivirus complexed with tyrosynol
94	c6n0wA_	Alignment	not modelled	98.5	16	PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of a tyrosine--trna ligase from elizabethkingia2 anophelis
95	c1yi8C_	Alignment	not modelled	98.5	17	PDB header: ligase Chain: C: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl trna synthetase ii from deinococcus2 radiodurans in complex with l-trp
96	c3hztD_	Alignment	not modelled	98.5	15	PDB header: ligase Chain: D: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase homolog from entamoeba histolytica
97	c3tzeA_	Alignment	not modelled	98.5	20	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of a tryptophanyl-trna synthetase from2 encephalitozoon cuniculi bound to tryptophan
98	c1jiiA_	Alignment	not modelled	98.5	16	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of s. aureus tyrrs in complex with sb-219383
99	c1x8xA_	Alignment	not modelled	98.4	15	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl t-rna synthetase from e.coli complexed with tyrosine
100	c3focB_	Alignment	not modelled	98.4	17	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from giardia lamblia
101	c4j75B_	Alignment	not modelled	98.4	16	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of a parasite trna synthetase, product-bound
102	c3kt3D_	Alignment	not modelled	98.4	17	PDB header: ligase Chain: D: PDB Molecule: tryptophanyl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of s. cerevisiae tryptophanyl-trna synthetase in2 complex with trpamp
103	c5ekdA_	Alignment	not modelled	98.4	13	PDB header: ligase/antibiotic Chain: A: PDB Molecule: tryptophan--trna ligase, mitochondrial; PDBTitle: human mitochondrial tryptophanyl-trna synthetase bound by indolmycin2 and mn*atp.
104	d1i6la_	Alignment	not modelled	98.4	12	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
105	d1li5a1	Alignment	not modelled	98.3	30	Fold: Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases Superfamily: Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases Family: Anticodon-binding domain of a subclass of class I aminoacyl-

						tRNA synthetases
106	c5ihxB_	Alignment	not modelled	98.2	13	PDB header: ligase Chain: B: PDB Molecule: tyrosine--trna ligase, mitochondrial; PDBTitle: crystal structure of a c-terminally truncated aspergillus nidulans2 mitochondrial tyrosyl-trna synthetase
107	c6byqA_	Alignment	not modelled	98.2	20	PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosine-trna ligase from helicobacter pylori g27
108	c2cycB_	Alignment	not modelled	98.1	16	PDB header: ligase Chain: B: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase complexed with l-tyrosine2 from pyrococcus horikoshii
109	c3n9iA_	Alignment	not modelled	98.1	14	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from yersinia pestis2 co92
110	c2quiB_	Alignment	not modelled	98.1	16	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structures of human tryptophanyl-trna synthetase in2 complex with tryptophanamide and atp
111	c3p0jD_	Alignment	not modelled	98.1	17	PDB header: ligase Chain: D: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: leishmania major tyrosyl-trna synthetase in complex with tyrosinol,2 triclinic crystal form 1
112	c2yy5C_	Alignment	not modelled	98.1	15	PDB header: ligase Chain: C: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from mycoplasma2 pneumoniae
113	d2ts1a_	Alignment	not modelled	98.1	19	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
114	c2ts1A_	Alignment	not modelled	98.1	19	PDB header: ligase (synthetase) Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: structure of tyrosyl-trna synthetase refined at 2.3 angstroms2 resolution. interaction of the enzyme with the tyrosyl adenylate3 intermediate
115	d1u0bb1	Alignment	not modelled	98.0	25	Fold: Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases Superfamily: Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases Family: Anticodon-binding domain of a subclass of class I aminoacyl-tRNA synthetases
116	c3hv0A_	Alignment	not modelled	97.4	23	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from cryptosporidium parvum
117	d1j1ua_	Alignment	not modelled	97.4	15	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
118	c2dlcX_	Alignment	not modelled	97.3	10	PDB header: ligase/trna Chain: X: PDB Molecule: tyrosyl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of the ternary complex of yeast tyrosyl-trna2 synthetase
119	d1n3la_	Alignment	not modelled	96.9	11	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
120	c3i05B_	Alignment	not modelled	96.9	20	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from trypanosoma brucei