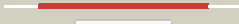



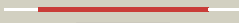


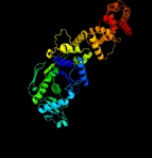











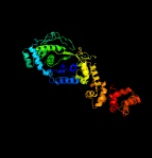






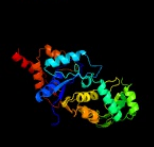



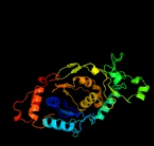


Phyre2

Email mdejesus@rockefeller.edu
 Description RVBD2992c_gltX_3348815_3350287
 Date Thu Aug 8 16:20:16 BST 2019
 Unique Job ID 9df1ff80f276343e

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c2ja2A_	 Alignment		100.0	100	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: mycobacterium tuberculosis glutamyl-trna synthetase
2	c3al0C_	 Alignment		100.0	36	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.
3	c4griB_	 Alignment		100.0	36	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
4	c3afhA_	 Alignment		100.0	36	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
5	c6b1zA_	 Alignment		100.0	34	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase; PDBTitle: crystal structure of glutamate-trna synthetase from elizabethkingia2 anophelis
6	c5tgtA_	 Alignment		100.0	38	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase; PDBTitle: crystal structure of glytamyl-trna synthetase glurs from pseudomonas2 aeruginosa
7	c2cfoA_	 Alignment		100.0	38	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: non-discriminating glutamyl-trna synthetase from2 thermosynechococcus elongatus in complex with glu
8	c5h4vE_	 Alignment		100.0	38	PDB header: ligase Chain: E: PDB Molecule: glutamate--trna ligase; PDBTitle: structure of glutamyl-trna synthetase (xoo1504) from xanthomonas2 oryzae pv. oryzae
9	c1g59A_	 Alignment		100.0	37	PDB header: ligase/rna Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: glutamyl-trna synthetase complexed with trna(glu).
10	c2o5rA_	 Alignment		100.0	38	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
11	c6b1pA_	 Alignment		100.0	33	PDB header: ligase Chain: A: PDB Molecule: glutamate--trna ligase 1; PDBTitle: crystal structure of glutamate-trna synthetase from helicobacter2 pylori

12	c4g6zA_	Alignment		100.0	38	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
13	d1j09a2	Alignment		100.0	42	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
14	c1irxA_	Alignment		100.0	14	PDB header: ligase Chain: A: PDB Molecule: lysyl-trna synthetase; PDBTitle: crystal structure of class i lysyl-trna synthetase
15	d1gtra2	Alignment		100.0	20	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
16	c2hz7A_	Alignment		100.0	27	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: crystal structure of the glutamyl-trna synthetase from deinococcus2 radiodurans
17	c1exdA_	Alignment		100.0	23	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
18	c4h3sA_	Alignment		100.0	22	PDB header: ligase Chain: A: PDB Molecule: glutamine-trna ligase; PDBTitle: the structure of glutamyl-trna synthetase from saccharomyces2 cerevisiae
19	c5bnzA_	Alignment		100.0	22	PDB header: ligase Chain: A: PDB Molecule: glutamine--trna ligase; PDBTitle: crystal structure of glutamine-trna ligase /glutamyl-trna synthetase2 (glrs) from pseudomonas aeruginosa
20	d1nzza_	Alignment		100.0	31	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
21	c5zdoA_	Alignment	not modelled	100.0	24	PDB header: ligase Chain: A: PDB Molecule: glutamine-trna ligase; PDBTitle: crystal structure analysis of ttqrs in co-crystallised with atp
22	c4p2bA_	Alignment	not modelled	100.0	23	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.
23	c4r3zC_	Alignment	not modelled	100.0	24	PDB header: protein binding/ligase Chain: C: PDB Molecule: glutamine--trna ligase; PDBTitle: crystal structure of human argrs-glrs-aimp1 complex
24	c3aiiA_	Alignment	not modelled	100.0	30	PDB header: ligase Chain: A: PDB Molecule: glutamyl-trna synthetase; PDBTitle: archaeal non-discriminating glutamyl-trna synthetase from2 methanothermobacter thermautotrophicus
25	c4ye6A_	Alignment	not modelled	100.0	24	PDB header: ligase Chain: A: PDB Molecule: glutamine--trna ligase; PDBTitle: the crystal structure of the intact human glrs
26	d1f7ua2	Alignment	not modelled	100.0	11	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
27	c1u0bB_	Alignment	not modelled	100.0	18	PDB header: ligase/rna Chain: B: PDB Molecule: cysteinyl trna; PDBTitle: crystal structure of cysteinyl-trna synthetase binary2 complex with trnacs
28	d1l15a2	Alignment	not modelled	100.0	18	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
						PDB header: ligase

29	c3sp1B_	Alignment	not modelled	100.0	14	Chain: B; PDB Molecule: cysteinyl-trna synthetase; PDBTitle: crystal structure of cysteinyl-trna synthetase (cyss) from borrelia2 burgdorferi
30	d2d5ba2	Alignment	not modelled	100.0	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
31	d1irxa2	Alignment	not modelled	100.0	13	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
32	d1j09a1	Alignment	not modelled	100.0	30	Fold: An anticodon-binding domain of class I aminoacyl-tRNA synthetases Superfamily: An anticodon-binding domain of class I aminoacyl-tRNA synthetases Family: C-terminal domain of glutamyl-tRNA synthetase (GluRS)
33	c3c8zB_	Alignment	not modelled	100.0	16	Chain: B; PDB Molecule: cysteinyl-trna synthetase; PDBTitle: the 1.6 a crystal structure of mshc: the rate limiting2 enzyme in the mycothiol biosynthetic pathway
34	c3tqoA_	Alignment	not modelled	99.9	17	PDB header: ligase Chain: A; PDB Molecule: cysteinyl-trna synthetase; PDBTitle: structure of the cysteinyl-trna synthetase (cyss) from coxiella2 burnetii.
35	d1pfva2	Alignment	not modelled	99.9	15	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
36	c3fnrA_	Alignment	not modelled	99.9	15	PDB header: transferase Chain: A; PDB Molecule: arginyl-trna synthetase; PDBTitle: crystal structure of putative arginyl t-rna synthetase from2 campylobacter jejuni;
37	c2x11C_	Alignment	not modelled	99.9	14	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
38	c2ct8A_	Alignment	not modelled	99.9	11	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
39	c6ao8A_	Alignment	not modelled	99.9	12	PDB header: ligase Chain: A; PDB Molecule: arginine--trna ligase; PDBTitle: crystal structure of arginyl-trna synthetase from neisseria2 gonorrhoeae in complex with arginine
40	c4qrdA_	Alignment	not modelled	99.9	15	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
41	c4obyA_	Alignment	not modelled	99.8	16	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
42	c1woyA_	Alignment	not modelled	99.8	17	PDB header: ligase Chain: A; PDB Molecule: methionyl-trna synthetase; PDBTitle: crystal structure of methionyl trna synthetase y225f mutant2 from thermus thermophilus
43	c4q2tB_	Alignment	not modelled	99.8	14	PDB header: ligase Chain: B; PDB Molecule: arginine--trna ligase, cytoplasmic; PDBTitle: crystal structure of arginyl-trna synthetase complexed with l-arginine
44	d1rqga2	Alignment	not modelled	99.8	11	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
45	d1ivsa4	Alignment	not modelled	99.8	19	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
46	d1irxa1	Alignment	not modelled	99.8	18	Fold: An anticodon-binding domain of class I aminoacyl-tRNA synthetases Superfamily: An anticodon-binding domain of class I aminoacyl-tRNA synthetases Family: C-terminal domain of class I lysyl-tRNA synthetase
47	c3kflA_	Alignment	not modelled	99.8	15	PDB header: ligase Chain: A; PDB Molecule: methionyl-trna synthetase; PDBTitle: leishmania major methionyl-trna synthetase in complex with2 methionyladenylate and pyrophosphate
48	c5urbB_	Alignment	not modelled	99.8	14	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
49	c1pfuA_	Alignment	not modelled	99.8	14	PDB header: ligase Chain: A; PDB Molecule: methionyl-trna synthetase; PDBTitle: methionyl-trna synthetase from escherichia coli complexed2 with methionine phosphinate
50	d1ilea3	Alignment	not modelled	99.8	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
51	c3tunA_	Alignment	not modelled	99.8	17	PDB header: ligase/ligase inhibitor Chain: A; PDB Molecule: methionyl-trna synthetase; PDBTitle: trypanosoma brucei methionyl-trna synthetase in complex with inhibitor2 chem 1356
52	c5ql7A_	Alignment	not modelled	99.8	13	PDB header: ligase Chain: A; PDB Molecule: methionine--trna ligase, cytoplasmic; PDBTitle: crystal structure of a truncated human cytosolic methionyl-trna2 synthetase
53	d1ffya3	Alignment	not modelled	99.8	11	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
54	d1iq0a2	Alignment	not modelled	99.7	21	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase

						Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
55	c3ziuB_	Alignment	not modelled	99.7	19	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
56	c1rqgA_	Alignment	not modelled	99.7	16	PDB header: ligase Chain: A: PDB Molecule: methionyl-trna synthetase; PDBTitle: methionyl-trna synthetase from pyrococcus abyssi
57	c5jldA_	Alignment	not modelled	99.7	11	PDB header: ligase Chain: A: PDB Molecule: arginyl-trna synthetase, putative; PDBTitle: crystal structure of arginyl-trna synthetase from plasmodium2 falciparum (pfrrs)
58	c3ziuA_	Alignment	not modelled	99.7	18	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
59	c4r3zB_	Alignment	not modelled	99.6	14	PDB header: protein binding/ligase Chain: B: PDB Molecule: arginine--trna ligase, cytoplasmic; PDBTitle: crystal structure of human argrs-glnrs-aimp1 complex
60	c2zufA_	Alignment	not modelled	99.6	17	PDB header: ligase/rna Chain: A: PDB Molecule: arginyl-trna synthetase; PDBTitle: crystal structure of pyrococcus horikoshii arginyl-trna2 synthetase complexed with trna(arg)
61	c1gaxB_	Alignment	not modelled	99.6	25	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
62	d1h3na3	Alignment	not modelled	99.6	15	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
63	c1ileA_	Alignment	not modelled	99.6	20	PDB header: aminoacyl-trna synthetase Chain: A: PDB Molecule: isoleucyl-trna synthetase; PDBTitle: isoleucyl-trna synthetase
64	c4dlpB_	Alignment	not modelled	99.6	14	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
65	c1iq0A_	Alignment	not modelled	99.6	19	PDB header: ligase Chain: A: PDB Molecule: arginyl-trna synthetase; PDBTitle: thermus thermophilus arginyl-trna synthetase
66	c1f7uA_	Alignment	not modelled	99.6	15	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
67	c5xgqB_	Alignment	not modelled	99.5	16	PDB header: ligase Chain: B: PDB Molecule: methionine-trna ligase; PDBTitle: crystal structure of apo form (free-state) mycobacterium tuberculosis2 methionyl-trna synthetase
68	c4dlpA_	Alignment	not modelled	99.5	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
69	c1qu2A_	Alignment	not modelled	99.5	16	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
70	c1wz2B_	Alignment	not modelled	99.4	23	PDB header: ligase/rna Chain: B: PDB Molecule: leucyl-trna synthetase; PDBTitle: the crystal structure of leucyl-trna synthetase and trna(leucine)2 complex
71	c5ah5B_	Alignment	not modelled	99.3	20	PDB header: ligase/rna Chain: B: PDB Molecule: leucine--trna ligase; PDBTitle: crystal structure of the ternary complex of agrobacterium2 radiobacter k84 agnb2 leu-trna-leuams
72	c4ariA_	Alignment	not modelled	99.3	18	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
73	c1wkbA_	Alignment	not modelled	99.2	20	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
74	c2g36A_	Alignment	not modelled	98.9	23	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
75	c6mtkA_	Alignment	not modelled	98.9	20	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from elizabethkingia2 anophelis nuhp1
76	c3vgjB_	Alignment	not modelled	98.8	12	PDB header: ligase Chain: B: PDB Molecule: tyrosyl-trna synthetase, putative; PDBTitle: crystal of plasmodium falciparum tyrosyl-trna synthetase (pftrprs)in2 complex with adenylate analog
77	c2cybA_	Alignment	not modelled	98.7	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
78	c2j5bA_	Alignment	not modelled	98.7	21	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: structure of the tyrosyl trna synthetase from acanthamoeba polyphaga2 mimivirus complexed with tyrosinol
79	d1h3fa1	Alignment	not modelled	98.7	13	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain

80	c2el7A_	Alignment	not modelled	98.6	19	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from thermus2 thermophilus
81	c4j75B_	Alignment	not modelled	98.6	15	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of a parasite trna synthetase, product-bound
82	c2cyaA_	Alignment	not modelled	98.6	17	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase from aeropyrum pernix
83	c3h3rD_	Alignment	not modelled	98.5	17	PDB header: ligase Chain: D: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase homolog from entamoeba histolytica
84	c3jxeB_	Alignment	not modelled	98.5	16	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of pyrococcus horikoshii tryptophanyl-trna2 synthetase in complex with trpamp
85	c3tzeA_	Alignment	not modelled	98.5	15	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of a tryptophanyl-trna synthetase from2 encephalitozoon cuniculi bound to tryptophan
86	c5tevA_	Alignment	not modelled	98.5	17	PDB header: ligase Chain: A: PDB Molecule: tryptophan--trna ligase; PDBTitle: crystal structure of a tryptophanyl-trna synthetase from neisseria2 gonorrhoeae, apo
87	c3prhB_	Alignment	not modelled	98.5	17	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase val144pro mutant from b. subtilis
88	c3a05A_	Alignment	not modelled	98.5	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	c5ekdA_	Alignment	not modelled	98.4	18	PDB header: ligase/antibiotic Chain: A: PDB Molecule: tryptophan--trna ligase, mitochondrial; PDBTitle: human mitochondrial tryptophanyl-trna synthetase bound by indolmycin2 and mn*atp.
90	d1i6la_	Alignment	not modelled	98.4	17	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
91	c1jiiA_	Alignment	not modelled	98.4	15	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of s. aureus tyrrs in complex with sb-219383
92	c3m5wB_	Alignment	not modelled	98.4	22	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from campylobacter2 jejuni
93	d1jila_	Alignment	not modelled	98.4	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
94	c3focB_	Alignment	not modelled	98.4	18	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from giardia lamblia
95	c1yi8C_	Alignment	not modelled	98.3	25	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	c6ncrB_	Alignment	not modelled	98.3	20	PDB header: ligase Chain: B: PDB Molecule: tryptophan--trna ligase; PDBTitle: crystal structure of tryptophan-trna ligase from chlamydia trachomatis2 with bound l-tryptophan
97	c1h3eA_	Alignment	not modelled	98.3	14	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
98	c2rkjM_	Alignment	not modelled	98.2	17	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
99	c2yy5C_	Alignment	not modelled	98.2	15	PDB header: ligase Chain: C: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from mycoplasma2 pneumoniae
100	c2bytD_	Alignment	not modelled	98.2	19	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
101	c6q8aA_	Alignment	not modelled	98.2	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
102	c2quiB_	Alignment	not modelled	98.1	13	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structures of human tryptophanyl-trna synthetase in2 complex with tryptophanamide and atp
103	c3kt3D_	Alignment	not modelled	98.1	14	PDB header: ligase Chain: D: PDB Molecule: tryptophanyl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of s. cerevisiae tryptophanyl-trna synthetase in2 complex with trpamp
104	c1obhA_	Alignment	not modelled	98.1	18	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
						PDB header: ligase

105	c2cycB_	Alignment	not modelled	98.0	17	Chain: B: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of tyrosyl-trna synthetase complexed with l-tyrosine2 from pyrococcus horikoshii
106	c3p0jD_	Alignment	not modelled	98.0	20	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
107	c3sz3A_	Alignment	not modelled	97.9	15	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from vibrio cholerae2 with an endogenous tryptophan
108	c1x8xA_	Alignment	not modelled	97.8	15	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl t-rna synthetase from e.coli complexed with tyrosine
109	c3n9iA_	Alignment	not modelled	97.8	21	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of tryptophanyl-trna synthetase from yersinia pestis2 co92
110	c6byqA_	Alignment	not modelled	97.8	17	PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosine-trna ligase from helicobacter pylori g27
111	c2janD_	Alignment	not modelled	97.8	14	PDB header: ligase Chain: D: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: tyrosyl-trna synthetase from mycobacterium tuberculosis in2 unliganded state
112	c2dlcX_	Alignment	not modelled	97.7	14	PDB header: ligase/trna Chain: X: PDB Molecule: tyrosyl-trna synthetase, cytoplasmic; PDBTitle: crystal structure of the ternary complex of yeast tyrosyl-trna2 synthetase
113	c2ip1A_	Alignment	not modelled	97.6	15	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure analysis of s. cerevisiae tryptophanyl trna2 synthetase
114	d1r6ta2	Alignment	not modelled	97.5	17	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
115	c3hv0A_	Alignment	not modelled	97.3	13	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from cryptosporidium parvum
116	c6otjA_	Alignment	not modelled	97.0	16	PDB header: ligase Chain: A: PDB Molecule: tyrosine--trna ligase; PDBTitle: crystal structure of tyrosyl-trna synthetase from neisseria2 gonorrhoeae with bound l-tyr
117	c1r6tA_	Alignment	not modelled	97.0	16	PDB header: ligase Chain: A: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: crystal structure of human tryptophanyl-trna synthetase
118	c1q11A_	Alignment	not modelled	96.9	17	PDB header: ligase Chain: A: PDB Molecule: tyrosyl-trna synthetase; PDBTitle: crystal structure of an active fragment of human tyrosyl-trna2 synthetase with tyrosinol
119	d1n3la_	Alignment	not modelled	96.6	14	Fold: Adenine nucleotide alpha hydrolase-like Superfamily: Nucleotidylyl transferase Family: Class I aminoacyl-tRNA synthetases (RS), catalytic domain
120	c3i05B_	Alignment	not modelled	96.2	19	PDB header: ligase Chain: B: PDB Molecule: tryptophanyl-trna synthetase; PDBTitle: tryptophanyl-trna synthetase from trypanosoma brucei