

## Model Building Report

This document lists the results for the homology modelling project "SSU1307\_Swiss-Model" submitted to SWISS-MODEL workspace on Nov. 13, 2019, 5:47 p.m.. The submitted primary amino acid sequence is given in Table T1.

If you use any results in your research, please cite the relevant publications:

- Waterhouse, A., Bertoni, M., Bienert, S., Studer, G., Tauriello, G., Gumienny, R., Heer, F.T., de Beer, T.A.P., Rempfer, C., Bordoli, L., Lepore, R., Schwede, T. SWISS-MODEL: homology modelling of protein structures and complexes. *Nucleic Acids Res.* 46(W1), W296-W303 (2018). [M](#) [doi>](#)
- Guex, N., Peitsch, M.C., Schwede, T. Automated comparative protein structure modeling with SWISS-MODEL and Swiss-PdbViewer: A historical perspective. *Electrophoresis* 30, S162-S173 (2009). [M](#) [doi>](#)
- Bienert, S., Waterhouse, A., de Beer, T.A.P., Tauriello, G., Studer, G., Bordoli, L., Schwede, T. The SWISS-MODEL Repository - new features and functionality. *Nucleic Acids Res.* 45, D313-D319 (2017). [M](#) [doi>](#)
- Benkert, P., Biasini, M., Schwede, T. Toward the estimation of the absolute quality of individual protein structure models. *Bioinformatics* 27, 343-350 (2011). [M](#) [doi>](#)
- Bertoni, M., Kiefer, F., Biasini, M., Bordoli, L., Schwede, T. Modeling protein quaternary structure of homo- and hetero-oligomers beyond binary interactions by homology. *Scientific Reports* 7 (2017). [M](#) [doi>](#)






## Results

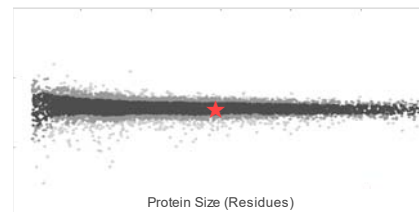
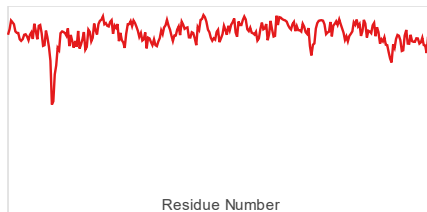
The SWISS-MODEL template library (SMTL version 2019-10-24, PDB release 2019-10-18) was searched with BLAST ([Camacho et al.](#)) and HHblits ([Remmert et al.](#)) for evolutionary related structures matching the target sequence in Table T1. For details on the template search, see Materials and Methods. Overall 2657 templates were found (Table T2).

## Models

The following model was built (see Materials and Methods "Model Building"):

Model #01	File	Built with	Oligo-State	Ligands	GMQE	QMEAN
	PDB	ProMod3 2.0.0	monomer	None	0.77	0.17

QMEAN		0.17
Cβ		0.25
All Atom		0.86
solvation		1.26
torsion		-0.35



Template	Seq Identity	Oligo-state	QSQE	Found by	Method	Resolution	Seq Similarity	Range	Coverage	Description
3lft.1.A	63.01	monomer	0.00	BLAST	X-ray	1.35Å	0.48	40 - 332	0.88	uncharacterized protein

## Excluded ligands

Ligand Name.Number	Reason for Exclusion	Description
TRP.1	Binding site not conserved.	TRYPTOPHAN

Target 3lft.1.A MLKKNKLLATIVALTMVVAALFMTQKEQNNSSTSTEKVKIGVLQFVTHDSLDEIYKGIKAGLEEGGYTTDNLEIDFMN  
-----KIGVLQFVSHPSLDLIYKGIQDGLAEEGYKD-DQVKIDFMN

Target 3lft.1.A AEGDQSQVQTMSSKLLVDNGNELLIGIATPAAQGLANATTELPIMGAVTDPVGANLVTDLKNPGGNITGVSDQTPVADAV  
SEGDQSKVATMSKQLVANGNDLVVGIATPAAQGLASATKDLVPVIMAAITDPIGANLVKDLKKPGGNVTGVSDHNPAAQQV

Target 3lft.1.A SLIKEITPDAKTIGVLYSSNEDNSKIQVAEFKAAEEAGYTVLEYAVASSNEIAATVEVASSKADVLFTVPDNTVASAFS  
ELIKALTPNVKTIGALYSSSEDNSKTQVEEFKAYAEKAGLTVETFAVPSTNEIASTVTVMYSKVDAIWPIDNTIASGFP

Target 3lft.1.A TVVSVANKTKTPIFTSVEDMVEGGGIASVTLSQYDLGVATGKMAAKILDGANPADTPVQIFNEGTVVVNQKVAKELGITL  
TVVSSNQSSKKPIPSATAMVEVGGGLASVVIDQHDLGATGKMIVQVLKGAKPADTPVNVFSTGKSVINKKIAQELGITI

Materials and Methods

Template Search

Template search with BLAST and HHblits has been performed against the SWISS-MODEL template library (SMTL, last update: 2019-10-24, last included PDB release: 2019-10-18).

The target sequence was searched with BLAST against the primary amino acid sequence contained in the SMTL. A total of 5 templates were found.

An initial HHblits profile has been built using the procedure outlined in (Remmert et al.), followed by 1 iteration of HHblits against NR20. The obtained profile has then be searched against all profiles of the SMTL. A total of 2701 templates were found.

Model Building

Models are built based on the target-template alignment using ProMod3. Coordinates which are conserved between the target and the template are copied from the template to the model. Insertions and deletions are remodelled using a fragment library. Side chains are then rebuilt. Finally, the geometry of the resulting model is regularized by using a force field. In case loop modelling with ProMod3 fails, an alternative model is built with PROMOD-II (Guex et al.).

Model Quality Estimation

The global and per-residue model quality has been assessed using the QMEAN scoring function (Benkert et al.) . For improved performance, weights of the individual QMEAN terms have been trained specifically for SWISS-MODEL.

Ligand Modelling

Ligands present in the template structure are transferred by homology to the model when the following criteria are met: (a) The ligands are annotated as biologically relevant in the template library, (b) the ligand is in contact with the model, (c) the ligand is not clashing with the protein, (d) the residues in contact with the ligand are conserved between the target and the template. If any of these four criteria is not satisfied, a certain ligand will not be included in the model. The model summary includes information on why and which ligand has not been included.

Oligomeric State Conservation

The quaternary structure annotation of the template is used to model the target sequence in its oligomeric form. The method (Bertoni et al.) is based on a supervised machine learning algorithm, Support Vector Machines (SVM), which combines interface conservation, structural clustering, and other template features to provide a quaternary structure quality estimate (QSQE). The QSQE score is a number between 0 and 1, reflecting the expected accuracy of the interchain contacts for a model built based a given alignment and template. Higher numbers indicate higher reliability. This complements the GMQE score which estimates the accuracy of the tertiary structure of the resulting model.

References



- **BLAST**  
Camacho, C., Coulouris, G., Avagyan, V., Ma, N., Papadopoulos, J., Bealer, K., Madden, T.L. BLAST+: architecture and applications. BMC Bioinformatics 10, 421-430 (2009).  [doi>](#)
- **HHblits**  
Remmert, M., Biegert, A., Hauser, A., Söding, J. HHblits: lightning-fast iterative protein sequence searching by HMM-HMM alignment. Nat Methods 9, 173-175 (2012).  [doi>](#)

Table T1:

Primary amino acid sequence for which templates were searched and models were built.

MLKNKNLLATIVALTVMVVAALFMTQKEQNNSSSTSTEKVKIGVLQFVTHDSLDEIYKGKAGLEEGGYTTTDNLEIDFMNAEGDQSQVQTSKKLVDNGN  
ELLIGIATPAAQGLANATTELPIMGAVTDPVGANLVTDLKNPGGNI TGVSDQTPVADAVSLIKEITPDAKTIGVLYSSNEDNSKIQVAEFKAAAEAGY  
TVLEYAVASSNEIAATVEVASSKADVLFTPVDNTVASAFSTVSVANKTKTPIFTSVEDMVEGGGIASVTL SQYDLGVATGKMAAKILDGANPADTPVQI  
FNEGTVVVNQKVAKELGITLSDDDVISKASKVIE

Table T2:

Template	Seq Identity	Oligo-state	QSQE	Found by	Method	Resolution	Seq Similarity	Coverage	Description
3lft.1.A	63.01	monomer	-	BLAST	X-ray	1.35Å	0.48	0.88	uncharacterized protein
3lft.1.A	63.01	monomer	-	HHblits	X-ray	1.35Å	0.48	0.88	uncharacterized protein

Template	Seq Identity	Oligo-state	QSQE	Found by	Method	Resolution	Seq Similarity	Coverage	Description
3lkv.1.A	38.97	homo-dimer	0.27	BLAST	X-ray	2.20Å	0.39	0.87	uncharacterized CONSERVED DOMAIN PROTEIN
6hnj.1.A	38.14	monomer	-	BLAST	X-ray	1.80Å	0.39	0.87	ABC-type transport system, sugar-family extracellular solute-binding protein
6hnj.1.A	35.92	monomer	-	HHblits	X-ray	1.80Å	0.38	0.93	ABC-type transport system, sugar-family extracellular solute-binding protein
6hnk.1.A	38.14	monomer	-	BLAST	X-ray	2.50Å	0.39	0.87	ABC-type transport system, sugar-family extracellular solute-binding protein
6hni.1.A	38.14	monomer	-	BLAST	X-ray	1.35Å	0.39	0.87	ABC-type transport system, sugar-family extracellular solute-binding protein
6hni.1.A	35.92	monomer	-	HHblits	X-ray	1.35Å	0.38	0.93	ABC-type transport system, sugar-family extracellular solute-binding protein
3lkv.1.A	38.31	homo-dimer	0.25	HHblits	X-ray	2.20Å	0.39	0.89	uncharacterized CONSERVED DOMAIN PROTEIN
6hnk.1.A	35.92	monomer	-	HHblits	X-ray	2.50Å	0.38	0.93	ABC-type transport system, sugar-family extracellular solute-binding protein
2jcg.1.B	15.35	homo-dimer	0.07	HHblits	X-ray	2.60Å	0.29	0.72	GLUCOSE-RESISTANCE AMYLASE REGULATOR
2ipn.1.A	15.51	monomer	-	HHblits	X-ray	1.15Å	0.28	0.74	D-galactose-binding periplasmic protein
2ipm.1.A	15.04	monomer	-	HHblits	X-ray	1.12Å	0.28	0.74	D-galactose-binding periplasmic protein
2ipl.1.A	14.23	monomer	-	HHblits	X-ray	1.20Å	0.27	0.74	D-galactose-binding periplasmic protein
1zvv.3.B	15.35	monomer	-	HHblits	X-ray	2.98Å	0.29	0.72	Glucose-resistance amylase regulator
1zvv.1.B	15.35	monomer	-	HHblits	X-ray	2.98Å	0.29	0.72	Glucose-resistance amylase regulator
1zvv.2.B	15.35	monomer	-	HHblits	X-ray	2.98Å	0.29	0.72	Glucose-resistance amylase regulator
1rzt.2.D	15.35	homo-dimer	0.26	HHblits	X-ray	2.80Å	0.29	0.72	Glucose-resistance amylase regulator
1rzt.1.C	15.35	homo-dimer	0.27	HHblits	X-ray	2.80Å	0.29	0.72	Glucose-resistance amylase regulator
1rzt.1.D	15.35	homo-dimer	0.27	HHblits	X-ray	2.80Å	0.29	0.72	Glucose-resistance amylase regulator
1rzt.2.C	15.35	homo-dimer	0.26	HHblits	X-ray	2.80Å	0.29	0.72	Glucose-resistance amylase regulator
2fvy.1.A	13.41	monomer	-	HHblits	X-ray	0.92Å	0.27	0.74	D-galactose-binding periplasmic protein
4yr7.1.A	13.06	monomer	-	HHblits	X-ray	2.53Å	0.27	0.74	Autoinducer 2-binding periplasmic protein LuxP
4yp9.1.B	13.06	homo-dimer	0.07	HHblits	X-ray	2.70Å	0.27	0.74	Autoinducer 2-binding periplasmic protein LuxP
1jx6.1.A	12.90	monomer	-	HHblits	X-ray	1.50Å	0.27	0.74	LUXP PROTEIN
1zhh.1.A	12.90	monomer	-	HHblits	X-ray	1.94Å	0.27	0.74	Autoinducer 2-binding periplasmic protein luxP
2hj9.1.A	13.06	monomer	-	HHblits	X-ray	2.34Å	0.27	0.74	Autoinducer 2-binding periplasmic protein luxP
2oen.1.A	16.60	homo-dimer	0.14	HHblits	X-ray	3.17Å	0.29	0.71	Catabolite control protein
2hph.1.A	14.81	monomer	-	HHblits	X-ray	1.33Å	0.28	0.73	D-galactose-binding periplasmic protein
1sxi.4.B	16.60	homo-dimer	0.11	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator
1sxi.1.B	16.60	homo-dimer	0.06	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator

Template	Seq Identity	Oligo-state	QSQE	Found by	Method	Resolution	Seq Similarity	Coverage	Description
1sxi.2.A	16.60	homo-dimer	0.10	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator
1sxi.2.B	16.60	homo-dimer	0.10	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator
1sxi.3.A	16.60	homo-dimer	0.05	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator
1sxi.3.B	16.60	homo-dimer	0.05	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator
1sxi.4.A	16.60	homo-dimer	0.11	HHblits	X-ray	3.00Å	0.29	0.71	Glucose-resistance amylase regulator
4yp9.1.A	13.06	homo-dimer	0.06	HHblits	X-ray	2.70Å	0.27	0.74	Autoinducer 2-binding periplasmic protein LuxP
1glg.1.A	13.41	monomer	-	HHblits	X-ray	2.00Å	0.27	0.74	GALACTOSE/GLUCOSE-BINDING PROTEIN
2pue.1.B	13.50	homo-dimer	0.16	HHblits	X-ray	2.70Å	0.27	0.71	PROTEIN (PURINE REPRESSOR )
2qw1.1.A	13.41	monomer	-	HHblits	X-ray	1.70Å	0.27	0.74	D-galactose-binding periplasmic protein
1jfs.1.B	13.08	homo-dimer	0.17	HHblits	X-ray	2.90Å	0.27	0.71	PURINE NUCLEOTIDE SYNTHESIS REPRESSOR
1vpw.1.B	13.50	homo-dimer	0.17	HHblits	X-ray	2.70Å	0.26	0.71	PURINE REPRESSOR
1jft.1.B	12.66	homo-dimer	0.16	HHblits	X-ray	2.50Å	0.26	0.71	PURINE NUCLEOTIDE SYNTHESIS REPRESSOR
2hj9.1.B	13.06	monomer	-	HHblits	X-ray	2.34Å	0.27	0.74	Autoinducer 2-binding periplasmic protein luxP
1bdi.1.B	14.35	homo-dimer	0.12	HHblits	X-ray	3.00Å	0.27	0.71	PROTEIN (PURINE REPRESSOR)
2puc.1.B	13.50	homo-dimer	0.12	HHblits	X-ray	2.60Å	0.26	0.71	PROTEIN (PURINE REPRESSOR)
1bdh.1.B	13.92	homo-dimer	0.12	HHblits	X-ray	2.70Å	0.27	0.71	PROTEIN (PURINE REPRESSOR)
1jh9.1.B	13.50	homo-dimer	0.10	HHblits	X-ray	2.55Å	0.26	0.71	PURINE NUCLEOTIDE SYNTHESIS REPRESSOR
3edc.1.A	11.97	homo-tetramer	-	HHblits	X-ray	2.10Å	0.26	0.70	Lactose operon repressor
3edc.1.B	11.97	homo-tetramer	-	HHblits	X-ray	2.10Å	0.26	0.70	Lactose operon repressor

The table above shows the top 50 filtered templates. A further 1,856 templates were found which were considered to be less suitable for modelling than the filtered list.

4n6d.1.A, 6n4x.1.A, 1dje.2.B, 5ljl.1.A, 5ic4.1.A, 4uqv.4.B, 5jay.1.A, 1wcw.1.A, 3qe2.1.A, 4v6u.56.A, 1fvx.1.A, 3wkt.1.A, 4rdh.1.A, 1jq5.1.A, 3npg.1.A, 3npg.1.C, 3ma0.1.A, 3h6g.1.A, 2req.1.B, 3tny.1.A, 2hbx.1.A, 4twg.1.C, 4twg.1.B, 3o21.1.B, 3h5v.2.A, 4iil.1.A, 2mr6.1.A, 5mei.70.A, 6n51.1.A, 3kxj.1.A, 3kxj.1.B, 4xxu.1.A, 1i1o.1.A, 4yv7.1.A, 1fui.1.A, 6bdv.1.A, 1sc4.1.A, 4mnc.1.A, 5gzs.1.A, 3oow.1.A, 5vft.1.H, 2e4y.1.A, 3pd0.1.A, 2xmo.1.A, 5cnk.1.A, 4wzz.1.A, 2lnd.1.A, 5xzm.1.A, 1qcy.1.A, 3d8u.1.A, 3d8u.1.B, 4u56.137.A, 1fld.1.A, 1gud.2.A, 5x2q.2.A, 5b3k.1.A, 3bil.1.A, 5yem.1.A, 1n4a.2.A, 2jcg.1.B, 6pd1.1.B, 6pd1.1.A, 4wrr.1.A, 5y61.1.A, 3n0w.1.A, 6f6r.1.A, 5gj3.1.A, 3l4e.1.A, 2www.1.D, 3qek.1.A, 3trh.1.A, 4f06.1.A, 4rwe.1.A, 1pt6.1.A, 1glg.1.A, 4bmk.1.A, 4ixs.1.C, 3hut.1.A, 5wt5.1.A, 3bb1.1.A, 6fpj.1.A, 2ar9.1.B, 2nua.1.A, 4ovk.1.A, 1pea.1.A, 5xy4.1.A, 1qdu.3.A, 4g68.2.A, 3gyy.1.A, 3gbp.1.A, 4obb.1.A, 5cni.1.B, 5cni.1.A, 3jy6.2.B, 4c29.2.A, 6ptz.1.A, 2l69.1.A, 4kq9.1.A, 4hql.1.A, 3e4c.1.B, 3e4c.1.A, 6bgr.1.A, 3w1k.1.D, 1d0i.1.A, 3w1k.1.A, 6qg1.1.C, 6mmg.1.B, 6mmg.1.C, 3deh.3.C, 6mmg.1.A, 6mmg.1.D, 4gd5.1.A, 5usr.1.A, 2v5v.2.A, 5usr.1.C, 1np7.1.A, 1j9z.2.A, 2kyr.1.A, 3k4h.1.B, 2wjx.1.A, 1iib.1.A, 6fth.1.A, 3fxa.1.A, 1ewt.1.B, 1ewt.1.A, 5hkl.1.B, 5hkl.1.A, 4pev.1.A, 6mmv.1.C, 6mmv.1.B, 6mmv.1.A, 6mmv.1.D, 3cbf.1.A, 2rjo.1.A, 1vpw.1.B, 6n52.1.A, 4twg.1.A, 3fdb.1.A, 1dbp.1.A, 4jxi.1.A, 1h0s.1.A, 3ab7.1.B, 5wid.1.A, 1yzn.1.A, 6q1c.1.A, 5kc9.2.A, 3qk7.1.A, 3itn.1.A, 4n82.1.A, 3lvj.1.A, 2gzm.1.A, 3h5o.1.A, 4iyr.1.A, 3loq.2.A, 2o55.1.A, 5ibq.1.A, 4n0w.1.A, 3md9.2.A, 4mkj.1.A, 3mkj.1.B, 2ywx.1.A, 4uqv.6.B, 1yob.1.A, 4uqv.6.A, 4fdl.1.A, 2fvy.1.A, 4uqv.2.B, 4uqv.2.A, 5aa1.1.A, 1jqa.1.A, 1yk1.1.B, 1yk1.1.A, 3zbq.1.A, 2hzk.1.A, 6chk.1.A, 5d6f.62.A, 5y17.1.A, 1u0r.1.A, 1u0r.1.B, 1u0r.1.D, 6h0d.1.A, 2ipn.1.A, 1a3x.2.A, 4pg7.1.A, 6r10.1.H, 6e7r.1.A, 3gg8.1.C, 3rpe.1.A, 3gg8.1.A, 4ztc.1.A, 4u5d.1.C, 5hko.1.A, 4u5d.1.A, 4u5d.1.D, 1ftg.1.A, 4kmr.1.B, 1pkl.1.A, 6k1y.1.A, 1dzi.1.A, 2pue.1.B, 6dgc.2.A, 4n5d.1.A, 5b4z.1.A, 3h0e.1.A, 3sg0.1.A, 3lkv.1.A, 2m6r.1.A, 2bt4.1.A, 4o5a.1.A, 1ja0.1.A, 6ofq.1.A, 1bmj.1.A, 4uq6.1.A, 4uq6.1.B, 5lpn.1.A, 5lpn.1.C, 1t5o.1.B, 4ru0.1.A, 1drj.1.A, 5ovw.1.A, 6guq.1.A, 1vlj.1.A, 4fea.1.A, 3brs.1.A, 4fea.1.B, 3bfk.1.A, 2ar9.2.A, 2hsg.1.A, 4nq8.1.A, 1rzu.2.A, 5yft.1.A, 2nu6.1.A, 4kys.1.A, 5aa1.3.A, 1yjj.1.A, 6njr.1.A, 2bon.2.A, 4fzr.1.A, 4b31.1.A, 2vgv.1.A, 4kiu.1.H, 2fn9.1.A, 5hj2.6.A, 3omb.1.A, 2a0u.1.A, 1b9i.1.A, 1n2t.1.A, 1dj9.1.A, 6s47.28.A, 6n50.3.A, 1sc3.1.A, 1e2b.1.A, 1qdu.2.A, 3mwg.1.A, 6nu2.53.A, 4pfs.2.A, 4qit.1.A, 1dx9.2.A, 3wy7.2.B, 3acz.1.A, 5yjf.1.A, 5idf.1.B, 5idf.1.D, 4jb0.1.A, 3v6l.1.A, 1azl.1.A, 3kap.1.A, 3ecs.1.H, 2wk8.1.A, 3ecs.1.C, 3ecs.1.B, 3ecs.1.A, 3ecs.1.G, 3ecs.1.F, 3ecs.1.E, 3ecs.1.D, 2g4r.1.B, 2g4r.1.C, 3k4h.1.A, 2g4r.1.A, 5ic6.1.A, 2uvi.1.A, 3n6v.1.A, 5dkv.1.A, 2hj9.1.A, 2hj9.1.B, 1usg.1.A, 3r5x.1.B, 3ipc.1.A, 3wcn.1.A, 3wcn.1.B, 2fwa.1.A, 1ewk.1.B, 2fox.1.A, 4uqv.1.B, 5gar.1.L, 3lmk.1.A, 6mmj.1.B, 6i3m.1.D, 1ukj.1.B, 6i3m.1.A, 4cn9.2.A, 4ywh.1.A, 3n8n.1.A, 3n8n.1.B, 5y60.1.H, 1cs1.1.A, 4tll.1.D, 4tll.1.A, 4tll.1.C, 4tll.1.B, 1zvv.2.B, 3nll.1.A, 3hsy.1.A,

3hsy.1.B, 4kiw.1.G, 4kiw.1.C, 4kiw.1.A, 5yog.1.A, 1vco.1.A, 1iss.1.A, 1vcn.1.A, 5txr.1.A, 5aa3.7.A, 5veg.2.A, 3s40.1.A, 1vme.1.A, 5hgj.2.A, 4lsz.1.A, 6mmn.1.C, 6mmn.1.B, 6mmn.1.A, 6mmn.1.D, 4rzt.1.A, 1jhz.1.B, 4rzt.1.B, 6o55.1.A, 3uht.2.A, 1jhz.1.A, 2wjj.1.A, 2an1.1.A, 2an1.1.B, 6mmw.1.B, 6mmw.1.C, 6mmw.1.A, 6mmw.1.D, 3es9.2.A, 4lql.1.B, 4lql.1.C, 4lql.1.A, 4lql.1.F, 4lql.1.D, 4lql.1.E, 5eig.1.A, 4tqu.1.D, 4pg4.1.A, 4pg4.1.B, 6bh9.1.A, 3uwc.1.A, 1kmc.1.A, 3ik4.1.A, 3huu.1.A, 6mm9.1.B, 5uqi.1.A, 3qv6.1.A, 1mdo.1.A, 3hwc.1.A, 3dr7.1.A, 2e4u.1.B, 3hwc.1.B, 3miz.1.A, 4p47.1.A, 4ki7.2.L, 4ki7.2.B, 4zem.1.A, 4ki7.2.D, 4ki7.2.F, 5c5c.1.A, 6mgg.1.A, 6deu.1.A, 1dfo.1.A, 3nu1.1.A, 2o7c.1.D, 5x2x.1.A, 2jep.1.A, 5vfg.1.V, 2j30.1.A, 3d02.1.A, 5d0q.1.C, 5yoe.1.A, 4zk2.1.A, 4dil.1.B, 4dil.1.A, 2w7y.1.A, 2fqx.1.A, 3h1p.1.A, 6mmp.1.A, 1tvm.1.A, 6q1d.1.A, 1tjy.1.A, 2r0t.1.A, 5aa1.2.A, 2rgy.1.A, 5u4o.1.A, 4kv7.1.A, 3loq.1.A, 4mdy.1.A, 3w1h.1.E, 2d00.1.E, 2d00.1.D, 2d00.1.C, 3w1h.1.A, 3w1h.1.B, 5aa3.6.A, 5tpw.1.A, 1sc1.1.A, 5tpw.1.B, 3t5p.2.A, 1oi7.1.A, 3o2j.1.A, 4rxm.1.A, 5xvz.1.A, 3nnd.1.A, 4rkq.1.A, 4pfb.1.A, 5bq3.4.A, 1nmu.2.B, 1b9h.1.A, 5aa2.3.A, 4z8y.1.A, 1ewv.1.B, 6bgs.1.A, 1uqr.1.F, 6j7i.1.A, 1uqr.1.C, 1uqr.1.A, 1toa.1.A, 6mms.1.A, 3td9.1.A, 3hqt.1.A, 3t5p.1.A, 1re1.1.A, 1elq.1.A, 4nbk.1.A, 4dcp.1.A, 5hsg.1.A, 1drk.1.A, 2j32.1.A, 2pe5.1.C, 2dkj.1.A, 5z6c.1.A, 1sxi.2.B, 1sxi.2.A, 2oqh.1.A, 5xss.1.A, 3di0.1.A, 1i3o.1.A, 6mmr.1.D, 6mmr.1.C, 6mmr.1.B, 6mmr.1.A, 6njl.1.B, 6mmh.1.A, 6mmh.1.C, 6mmh.1.B, 4xar.1.A, 1w41.1.A, 1k86.1.A, 5bor.1.A, 5vnx.1.A, 2e4z.1.A, 6ncs.1.A, 4tn5.1.B, 4tn5.1.A, 3pp7.1.A, 4zhu.2.A, 1vm6.1.A, 5wkp.1.A, 1vm6.1.C, 1vm6.1.B, 3s70.1.A, 4pz0.1.A, 4gnr.1.A, 4ycj.1.A, 1sxi.4.A, 1sxi.4.B, 5if9.1.A, 6dqp.1.A, 6dqp.1.B, 5m1j.39.A, 1sxi.6.B, 1sxi.6.A, 6hbm.2.A, 5emn.1.A, 2h0a.1.A, 2nu7.1.A, 5k8b.1.A, 1bu5.1.A, 6u5v.1.B, 4rzs.1.D, 4rzs.1.B, 4rzs.1.C, 4rzs.1.A, 3v6m.1.A, 3gbv.1.B, 3rot.1.A, 3e61.1.A, 6mmm.1.C, 6mmm.1.D, 4p8b.1.A, 1gqo.1.L, 4mso.1.A, 1jh9.1.B, 1gqo.1.A, 3ipa.1.A, 4wwh.1.A, 4n0q.1.A, 1d7a.1.A, 2jgt.1.A, 5dbo.1.D, 3g8m.1.A, 4mij.1.A, 1j8q.1.A, 4mco.3.A, 3mwf.1.A, 2l82.1.A, 4s24.1.A, 4mco.1.A, 3qfr.1.A, 4yr7.1.A, 3qfc.1.A, 2w7h.1.A, 3p45.1.A, 5tsu.1.C, 2lvb.1.A, 5tsu.1.A, 1jwl.1.D, 1urp.1.A, 2jgr.1.A, 4mpt.1.A, 4quj.1.A, 2wk7.1.A, 6hrh.1.A, 6hrh.1.B, 4r6h.1.A, 2ate.1.A, 1zwk.1.A, 1ck4.2.A, 1jye.1.A, 3gjs.1.A, 4hqo.2.A, 4edp.1.A, 4nhb.1.A, 5v8s.1.B, 1tm2.1.A, 5fbh.1.A, 3a2b.1.A, 3woa.1.A, 3jvd.1.A, 3jvd.1.B, 6fvv.1.2, 3lkb.1.B, 3lkb.1.A, 3edr.1.A, 5xsj.1.A, 4hql.2.A, 5fxg.1.B, 4evs.1.A, 4rsm.1.A, 2nzu.1.A, 5up2.1.D, 5up2.1.A, 5up2.1.C, 5up2.1.B, 6hbd.1.A, 3kke.1.B, 3kke.1.A, 6bg1.1.A, 3ppn.2.A, 2p2c.2.A, 4rie.1.A, 4rie.1.B, 3d8r.1.A, 3wco.1.A, 1jfs.1.B, 3uho.1.A, 2ad5.3.A, 3r23.1.B, 3r23.1.A, 3ctp.1.A, 2bek.1.A, 6fpj.1.B, 4a0q.1.A, 3elp.1.A, 5vmb.1.A, 3f6r.1.A, 4v02.1.A, 4rif.1.B, 5xn8.1.A, 4y7c.1.A, 5z6v.1.A, 5j63.1.A, 4h2d.2.A, 1rpj.1.A, 5urh.1.A, 3k9c.1.A, 4n6k.1.A, 3ga5.1.A, 3jbn.36.A, 4wut.1.A, 6anv.1.A, 1o61.1.A, 6r0z.1.A, 1h05.1.A, 7abp.1.A, 3s40.2.A, 5ipt.1.A, 2zp7.1.A, 3vk3.2.B, 1m32.1.A, 3c3k.1.A, 1vcm.1.A, 6jfy.1.D, 6jfy.1.B, 6jfy.1.C, 6jfy.1.A, 2p10.1.A, 5vfp.1.U, 2o20.1.B, 5y5y.1.H, 4fr2.1.A, 5yob.1.A, 5aa3.11.A, 6qg6.1.A, 6qg6.1.C, 6qg6.1.B, 5f51.1.A, 4fe4.2.A, 6mmu.1.B, 6mmu.1.C, 6mmu.1.D, 2fw7.1.A, 4jqy.1.B, 4dye.1.A, 5kzq.1.A, 3r7n.1.A, 1yzt.1.A, 3n8k.1.A, 3lop.1.A, 3a5d.1.H, 6gq1.30.A, 4p1e.1.A, 3hly.2.A, 1rhm.1.A, 4aue.1.A, 4qub.1.A, 1bvy.1.B, 3eoe.1.B, 6gaq.2.A, 4d79.1.A, 4ycb.1.A, 4bj3.1.B, 4bj3.1.A, 2qu7.1.A, 2bwp.1.A, 5vbg.1.A, 6njm.1.A, 2r48.1.A, 1shj.1.B, 1shj.1.A, 3mjd.1.B, 3mjd.1.A, 4y9r.2.A, 4n91.1.A, 4xas.1.B, 3gyb.1.B, 3gyb.1.A, 5k5s.1.A, 5bq3.1.A, 5k5s.1.B, 2kqu.1.A, 4v0s.1.A, 1n4d.2.A, 2liv.1.A, 1aox.1.B, 1aox.1.A, 5y5x.1.H, 3ukj.1.A, 4ot8.2.A, 3cs3.1.A, 2oge.1.A, 2dou.1.A, 5urg.2.A, 4q6b.1.A, 6mmk.1.D, 6mmk.1.C, 6mmk.1.A, 1pyo.1.C, 1pyo.1.A, 1usi.1.A, 6r0w.1.H, 1j9g.1.A, 4u5c.1.D, 4u5c.1.A, 4u5c.1.B, 4u5c.1.C, 1mhp.1.A, 5j72.1.A, 3d8s.1.A, 3kix.2.B, 3opq.1.A, 1rhq.1.A, 4y9u.2.A, 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6qg3.1.D, 1b1c.1.A, 3olz.1.A, 6bt5.1.A, 3olz.1.B, 4r2f.1.A, 1gub.1.A, 4uto.1.A, 1efa.1.C, 4z7j.1.A, 5j6q.1.A, 3lp6.1.B, 3hqo.3.A, 5aa3.2.A, 1ykg.1.A, 4l7q.1.A, 4jje.1.A, 3d8t.2.A, 3zbp.1.A, 2eqb.1.A, 5bra.1.A, 4n82.2.A, 6hyh.1.A, 4lvq.1.A, 2fwb.1.A, 3c6q.1.A, 5u3c.1.I, 1vb5.1.B, 1vb5.1.A, 4u5b.1.D, 4u5b.1.A, 5uxs.1.A, 4aul.1.A, 4u5b.1.B, 4xfk.1.A, 2dri.1.A, 6gt9.2.A, 1fc4.1.A, 5aa1.4.A, 5yoc.1.A, 2c7t.1.A, 5urg.1.A, 6nba.1.A, 3a9t.1.A, 5b04.1.H, 5b04.1.D, 5b04.1.G, 5b04.1.A, 5b04.1.B, 5b04.1.C, 2iuf.1.C, 5thp.3.C, 3urm.1.A, 6ddn.1.A, 5thp.1.C, 4q6w.1.A, 4ycc.1.A, 3cai.1.A, 3e6g.1.A, 3e6g.1.B, 3s8e.1.A, 2fun.2.B, 4uqv.5.A, 1u0o.1.C, 6dgc.1.A, 2wrz.2.A, 2vms.1.A, 2m1z.1.A, 3esy.1.A, 3ri6.1.A, 3oqo.1.C, 3oqo.1.A, 5iaj.1.A, 2b2x.1.A, 5ufh.1.A, 2via.1.A, 6mmh.1.D, 5m34.2.A, 6njr.2.A, 2y0e.1.A, 3qi7.1.A, 2aeu.1.A, 1tlf.1.A, 1tlf.1.B, 1tlf.1.C, 1tlf.1.D, 6dev.1.B, 4d7a.1.A, 6hmk.1.A, 4hao.1.A, 3f6s.1.A, 1yob.2.A, 1ijk.1.A, 6mmt.1.A, 3ejw.1.A, 6mmt.1.C, 1gc2.1.A, 6mmt.1.D, 4ks0.1.B, 4ks0.1.A, 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