

Figure S1. Structure of t⁶**A37 in the anticodon stem loop (ASL) of tRNA**^{Lys}**(UUU).** As observed in complex with AAA-mRNA bound in the A-site of the decoding center of *Thermus thermophilus* 30S ribosome (PDB 1XMO) [1]. Inset: closeup of the modification-dependent ASL of tRNA^{Lys}(UUU) (C atoms in cyan) in complex with AAA-mRNA (carbon atoms in violet), with the positions of t⁶A37 and A1 from the mRNA codon labeled.

1. Murphy FVt, Ramakrishnan V, Malkiewicz A, Agris PF (2004) The role of modifications in codon discrimination by tRNA(Lys)UUU. Nat Struct Mol Biol 11: 1186-1191.