

A comprehensive tRNA pseudouridine map uncovers targets dependent on human stand-alone pseudouridine synthases

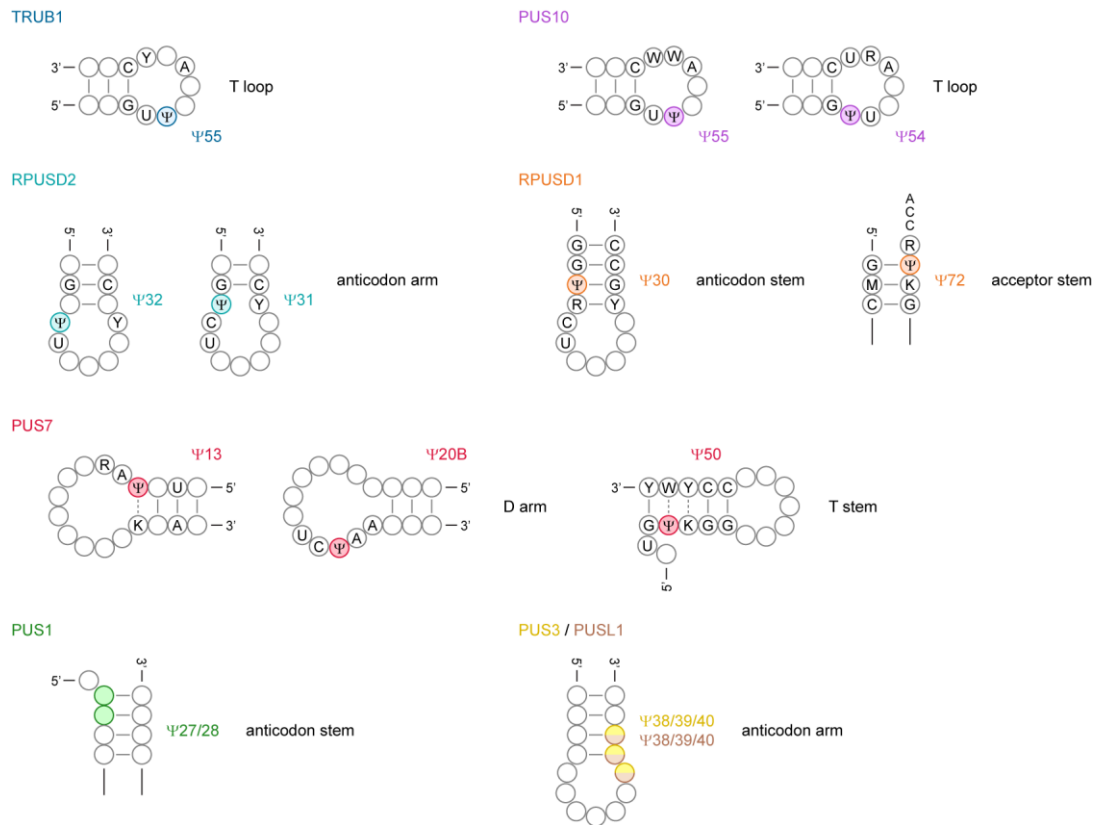
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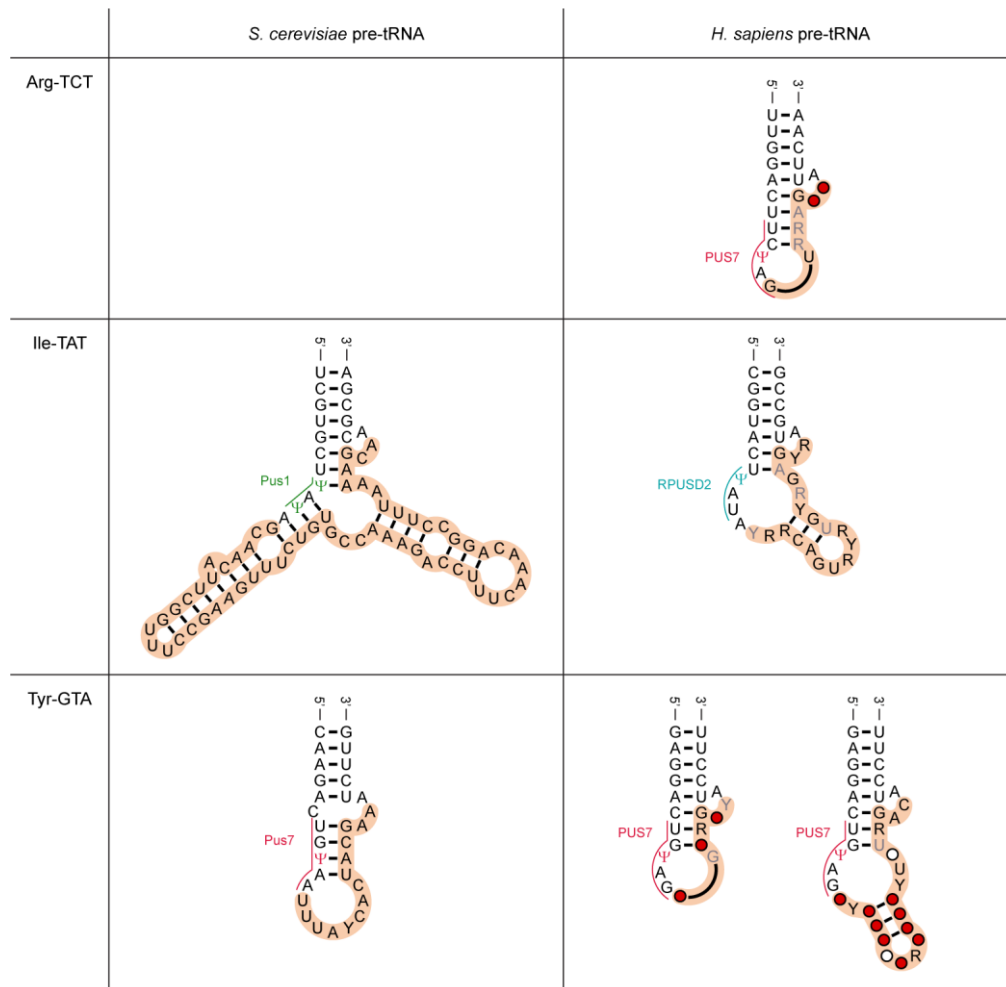
Supplementary Fig. 1	Comprehensive list of PUS-dependent Ψ sites across rRNAs and tRNAs
Supplementary Fig. 2	Summary of structural and sequence motifs for human stand-alone PUS targets.
Supplementary Fig. 3	Comparison of Ψ modifications within the anticodon between yeast and human.

PUS family	<i>E. coli</i>	<i>H. volcanii</i> *	<i>S. cerevisiae</i>		<i>H. sapiens</i>	
TruD	TruD tRNA 13	TruD tRNA 13	Pus7 cy-tRNA 13, 35		PUS7 cy-tRNA 13, 20B, 35, 36, 50	mt-tRNA 50
					PUS7L cy-tRNA e12, e13, e1	
TruA	TruA tRNA 38, 39, 40	TruA tRNA 39	Pus3 cy-tRNA 38, 39	mt-tRNA 38, 39	PUS3 cy-tRNA 38, 39, 40	PUSL1 mt-tRNA 38, 39, 40
			Pus1 cy-tRNA 1, 26, 27, 28, 34, 36, 65, 67	Pus2 mt-tRNA 27, 28	PUS1 cy-tRNA 27, 28	mt-tRNA 20, 25, 27, 28, 66, 67, 68
TruB	TruB tRNA 55		Pus4 cy-tRNA 55	mt-tRNA 55	TRUB1 cy-tRNA 55	mt-tRNA 55
						TRUB2 n/a
		Cbf5 rRNA	Cbf5 cy-rRNA		DKC1 cy-rRNA	
RluA	RluA tRNA 32 23S rRNA 746		Pus8 cy-tRNA 32	Pus9 mt-tRNA 32	RPUSD2 cy-tRNA 31, 32, 34	mt-tRNA 31, 32
			Pus6 cy-tRNA 31	mt-tRNA 31		
					RPUSD1 cy-tRNA 30, 72	
	RluC 23S rRNA 955, 2504, 2580			Pus5 mt-21S rRNA 2819		RPUSD4 mt-16S rRNA 1397
						RPUSD3 n/a
	RluD 23S rRNA 1911, 1915, 1917					
	TruC tRNA 65					
RsuA	RsuA 16S rRNA 516					
	RluB 23S rRNA 2605					
	RluE 23S rRNA 2457					
	RluF 23S rRNA 2604					
Pus10		Pus10 tRNA 54, 55			PUS10 cy-tRNA 54, 55	

Supplementary Fig. 1 | Comprehensive list of PUS-dependent Ψ sites across rRNAs and tRNAs. Results for *E. coli* and *S. cerevisiae* are adapted from ref.¹⁻³. *Results for *H. volcanii* are not complete^{4,5}. n/a, not applicable.



Supplementary Fig. 2 | Summary of structural and sequence motifs for human stand-alone PUS targets.



Supplementary Fig. 3 | Comparison of Ψ modifications within the anticodon between yeast and human. Intron sequences are labeled in orange.

References:

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