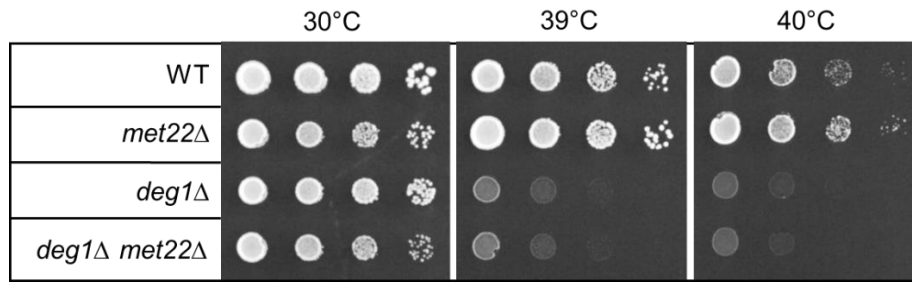


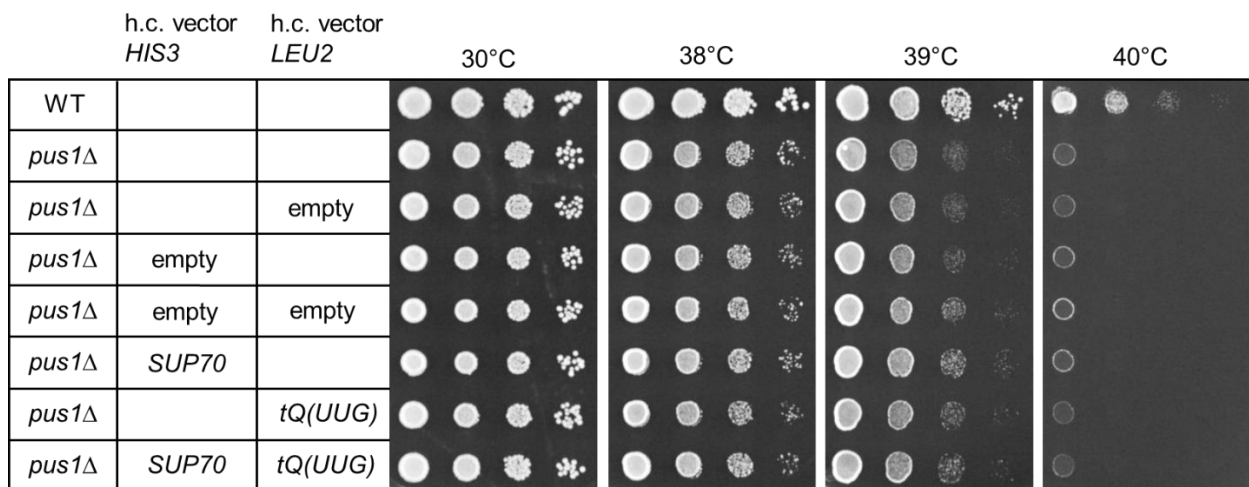
## Supplementary information

**Table S1.** Oligonucleotides used in this study.

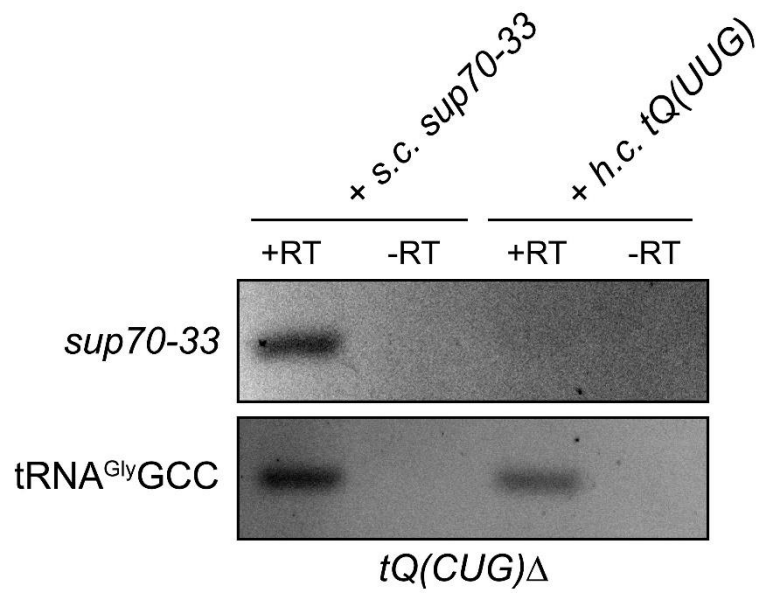
Name	Sequence (5'-3')	Purpose
O30	AGGTTCCATAAAACCGGAAGTTTTAGGTACAC TAACAACAGAAGAAAAACAGCTGAAGCTTCGT ACGC	Deletion of <i>SUP70</i>
O31	AAAAAAAAAAATGATGGTTTAAATTTTCGTAAA ATACGAAAAATGAAGGGAGCATGCATAGGCC ACTAGTGGATCTG	Deletion of <i>SUP70</i>
O28	ATGAGGAGAGCTTCTACTA	Verification of <i>SUP70</i> deletion
O29	GACAAGTGCTCATCATTATG	Verification of <i>SUP70</i> deletion
O664	ATAAAGGACAATAAAGTGCTAGTAAATAACAA TTATAAGTGATATCAAGGCAGCTGAAGCTTCGT ACGC	Deletion of <i>PUS1</i>
O665	ATGTCAATGCCTTAGAAATTAAGTTGGTAAG AAAGAAGGAAAGGGCAACGCATAGGCCACTA GTGGATCTG	Deletion of <i>PUS1</i>
O666	GATGCGGGTAACTATTAGCC	Verification of <i>PUS1</i> deletion
O667	GCGCAATGAGCTTTCCAAGG	Verification of <i>PUS1</i> deletion
O240	TTAGTAAGTAAGAAGTTTAAAGACAACCTCAGA AGACATCAGCACTTTACTCAGCTGAAGCTTCGT ACGC	Deletion of <i>MET22</i>
O241	TATATGTAICTCATATATTTATGTCTATCAATAAA GTAAAATATATGTTATGCATAGGCCACTAGTGG ATCTG	Deletion of <i>MET22</i>
O242	TGCGCGAATGACTCAGACG	Verification of <i>MET22</i> deletion
O243	GAGATGCCGTCATCGTAGGG	Verification of <i>MET22</i> deletion
O165	GCGCAAGTGGTTTAGTGGT	tRNAGlyGCC RT-PCR
O166	TGCGCAAGCCCGGAATCGAAC	tRNAGlyGCC RT-PCR
O171	GGTCTATAGTGTAGTGG	sup70-33 RT-PCR
O1550	GGTCTCACCCGGATTCGAAC	sup70-33 RT-PCR



**Figure S1.** Thermosensitive growth of *deg1* mutants is not rescued by *met22* mutation. Growth of wild type (WT), *met22* (*met22Δ*) and *deg1* single mutants (*deg1Δ*) and *deg1 met22* double mutants (*deg1Δ met22Δ*) at 30°C, 39°C and 40°C was analyzed by serial dilution spot assay.



**Figure S2.** tRNA overexpression in *pus1* mutants. Growth of wild type (WT) and *pus1* mutants (*pus1Δ*) carrying high copy vectors (h.c. *HIS3* and h.c. *LEU2*) with *SUP70* or *tQ(UUG)* genes (p*SUP70* 2μ and p*RK55*) was assayed by serial dilution spot assay. empty: empty vector controls.



**Figure S3.** Specificity of *sup70-33* detection. Total RNA was isolated from strains carrying the genomic *sup70* deletion (*tQ(CUG)Δ*) and either single copy *sup70-33* (s.c. *sup70-33*) or multi copy *tQ(UUG)* (h.c. *tQ(UUG)*). Identical amounts of RNA were reverse-transcribed (RT+) to cDNA using oligonucleotides specific for *sup70-33* and tRNA<sup>Gly</sup>GCC, respectively. For control purposes, identical reactions were carried out omitting the reverse transcriptase (RT-). Low cycle number PCR was used to amplify cDNAs from *sup70-33* and tRNA<sup>Gly</sup>GCC. The absence of a *sup70-33* cDNA product in the *sup70* h.c. *tQ(UUG)* strain demonstrates specificity of *sup70-33* detection.