

S2 Table. Oligos used in this study

Oligo name	Sequence(5'-3')	Usage
pET28a-spUtp24-F	CAGATTGGTGGATCCATGGGTAAAGC AAAAACTACACGCAAATTTG	In-Fusion primers for constructing pET28a-His-Smt3-spUtp24
pET28a-spUtp24-R	AGCCGGATCTCATTATCAATCCACCAC ATCCACCAAAC	
416-scUtp24-F	CGCTGGCACTAGTGCCGGCCGGATGG GTAAAGCTAAGAAAACAAGAAAGTT TG	TPCR primers for constructing pRS416-GAL-HA-scUtp24
416-scUtp24-R	GGAGACTTGACCAAACCTCTGGCGA AGTAAAAGACATCTGGCAATTTTTC AATGACG	
L1	CACCTTCATGTACCTATCGTTTGTGG	Primers for deleting Utp24 gene from yeast. The 5' and 3' arms of Utp24 gene were amplified with primers L1 and L2 and L3 and L4, respectively, from yeast genomic DNA. The natNT2 cassette was amplified with overlap PCR using primers L1 and L4 and templates of pYM-N28 and the 5' and 3' arm of Utp24.
L2	CAAGGAGGGTATTCTGGGCCTCCATG TCAATTAAGTGTAGTATATCGATAT TTCCG	
L3	GCTCTACATGAGCATGCCCTGCCCTA AACTACTGTGTATCACTCTTTAAGTA TGTA	
L4	CTGCATCGCGTGGAACCCATG	
415-scUtp24-F	GATGACGATGACAAGATGGGTAAAGC TAAGAAAACAAGAAAGTTTGG	In-Fusion primer for constructing pRS415-GPD-FLAG-scUtp24 and pRS415-GPD-FLAG-scUtp24 N
415-scUtp24-R	GGTATCGATAAGCTTTTAAAAGACATC TGGCAATTTTCAATGACG	In-Fusion primer for constructing pRS415-GPD-FLAG-scUtp24 and pRS415-GPD-FLAG-scUtp24 PIN
415-scUtp24-60-F	GATGACGATGACAAGATGAAGCCACC TTATCAAGTACTGATAG	In-Fusion primer for constructing pRS415-GPD-FLAG-scUtp24 PIN
415-scUtp24-60-R	GGTATCGATAAGCTTTTACTTTTATAGC TTGATTGTATTGAAAGAAAAGTGC	In-Fusion primer for constructing pRS415-GPD-FLAG-scUtp24 N
415-spUtp24-F	GATGACGATGACAAGATGGGTAAAGC AAAAACTACACGC	In-Fusion primers for constructing pRS415-GPD-FLAG-spUtp24
415-spUtp24-R	GGTATCGATAAGCTTTCAATCCACCAC ATCCACCAAAC	
415-hUtp24-F	GATGACGATGACAAGATGGGGAAGC AAAAGAAAACAAGG	In-Fusion primers for constructing pRS415-GPD-FLAG-hUTP24
415-hUtp24-R	GGTATCGATAAGCTTTTAGAATCGAGG GGCTCCATAATC	
415-scNhPIN-F	CATCGACTACAAGGATGACGATGACA AGATGGGTAAAGCTAAGAAAACAAG AAAGTTTG	TPCR primers for constructing pRS415-GPD-FLAG-Utp24 (scN+hPIN)
415-scNhPIN-R	GGTATCAACGAGGATGTGGTAAGGTG GCTTTATAGCTTGATTGTATTGAAAGA	

	AAAGTG	
QCscUtp24-D138N-F	CACAAGGGTACGTACGCGAATGACTG TTTAGTGCATCGAG	QuikChange primers for pRS415-GPD-FLAG-scUtp24 (D138N)
QCscUtp24-D138N-R	CTCGATGCACTAAACAGTCATTCGCG TACGTACCCTTGTG	
QCscUtp24-C101A-F	CCCGTTAATCACAGATGGTGTGATGG CAGAG	QuikChange primers for pRS415-GPD-FLAG-scUtp24 (C101A)
QCscUtp24-C101A-R	CTCTGCCATCACACCATCTGTGATTAA CGGG	
QCscUtp24-C130A-F	GAATAAAGAGACTAAGCGGTTTCGCAC AAGGGTACG	QuikChange primers for pRS415-GPD-FLAG-scUtp24 (C130A)
QCscUtp24-C130A-R	CGTACCCTTGTGCGAACCGCTTAGTC TCTTTATTC	
QCscUtp24-H132A-F	GAGACTAAGCTGTTCGGCCAAGGGTA CGTACGC	QuikChange primers for pRS415-GPD-FLAG-scUtp24 (H132A)
QCscUtp24-H132A-R	GCGTACGTACCCTTGGCCGAACAGCT TAGTCTC	
QCscUtp24-C140A-F	CGTACGCGGATGACGGTTTAGTGCAT CGAG	QuikChange primers for pRS415-GPD-FLAG-scUtp24 (C140A)
QCscUtp24-C140A-R	CTCGATGCACTAAACCGTCATCCGCG TACG	
D-A2	CGGTTTTAATTGTCCTA	Northern blot probes
A2-A3	ATGAAAACCTCCACAGTG	