

TABLE S1. RNA fragments identified from yeast small-RNA library sequencing. For each library sequence, the length in nucleotides (Length), RNA of origin, and, for tRNAs, whether the piece was a 5' or 3' fragment (Side) are indicated. For 3' tRNA pieces, the presence of a CCA tag, or part thereof, is also indicated (3' end tag).

Sequence (5' – 3')	Length (nt)	tRNA	3' end tag	Side
TGGCACTCACGAT	13	Arg	CCA	3'
TGGCACTCACGAT	13	Arg	CCA	3'
TGGCACTCACGATGGGGGTCTGAACCCATAATCTTCTGATA	40	Arg	CCA	3'
AGGCACTCACGAATGGGGGTCTGAACCCATAATCTTCTGATA	41	Arg	CCA	3'
CCCCATCGTGAGTGCCA	18	Arg	CCA	3'
AGATTATGGGTTCATCGTGAGTGCCA	31	Arg	CCA	3'
TGGCACTCACGATGGGGGTCTGAACCCATAATCTTCTGATTAG	42	Arg	CCA	3'
TCCGTGATAGTTAATGGTCAGAATGGGCG	30	Asp		5'
GCGCCCATCTGACCATTAAGCTATCACGGAG	32	Asp		5'
GCCCATTCTGACCATTAAGCTATCACGGGA	29	Asp		5'
GCCCATTCTGACCATTAAGCTATCACGGAA	30	Asp		5'
AGCGCCCATCTGACCATTAAGCTATCACGGGA	32	Asp		5'
CAAGCGCCCATCTGACCATTAAGCTATCACGGGA	34	Asp		5'
TCCTATAGTGTAGTGGTTATCACTTTC	27	Gln		5'
CGAAAGTGATAACCACTACACTATAGGACCA	31	Gln		5'
CCGTGGAGACCGGGGTTCGACTCCCGTATCGGAGCC	37	Glu		3'
ATTTTACCACTAACT	16	Gly		5'
TGGTGGTCTCTAGCGG	16	Ile	CCA	3'
TCTCTTGCCAGTTGGTTAAGGCACCGTGCTGA	33	Ile		5'
CTAAATCTGAAGCCTTAACCACTCGGCCAACT	34	Leu		5'
TTAGGGGTTCTGAGCCCCCTACAGGGCTCC	29	Lys	CC	3'
TTAGGGGTTCTGAGCCCCCTACAGGGCTCC	29	Lys	CC	3'
TGGCTCCTCATAGGGGGCCCGAACCCCTGA	30	Lys	CCA	3'
TCATAAGGTTAGGGGTTCTGAGCCCCCTACTGGGCTCCA	38	Lys	CCA	3'
TGGAGCCCTGTAGGGGGCTCGAACCCCTAACCTTATGT	38	Lys	CCA	3'
TTAGGGGTTCTGAGCCCCCTACAGGGCTCCA	30	Lys	CCA	3'
TCGAGCCCCCTATGAGGAGC	20	Lys	C	3'
AATCTTTTGCCTTAACCACTCGGCCAAGTTG	31	Ser		5'
TCTTTTGCCTTAACCACTCGGCCAAGTTGCCA	32	Ser		5'
TCGTTAGTTCATTTCTGACAGGTGGCA	27	Thr		3'

Sequence (5' – 3')	Length (nt)	rRNA
TTAGTGTAGTGGGTGACCATACGCGAACTCAGGTGCTGCA	45	5s
ATCT		
TTAGTGTAGTGGGTGACCATACGCGAACTCAGGTGCTGCA	45	5s
ATCT		
TTGATCGGACGGGAAACGGTGCTTTCTGGTAGATATA	37	5s
ATATCTACCAGAAAGCACCGTTTCCCGTCCGATCAA	36	5s
TTGATCGGACGGGAAACGGTGCTTTCTGGTAGATAT	36	5s
TTGATCGGACGGGAAACGGTGCTTTCTGGTAGATAT	36	5s
TTGATCGGACGGGAAACGGTGCTTTCTGGTA	31	5s

GATTGCAGCACCTGAGTTTT	20	5s
GATTGCAGCACCTGAGTTTT	20	5s
ACTCAGGTGCTGCAATCT	18	5s
TAGCACCCTATTTAGTAGGTTAAGGT	27	18s
TCAGGCTCCCTCTCCGGAATCGAA	24	18s
ATTGTGTCTGGACCTGGTGAGTTT	24	18s
TGTGGGTGGTGGTGCATGGCCGT	23	18s
CAAGACCCGAATGGGCCCTGTAT	23	18s
CTTAGTTGGTGGAGTGAT	18	18s
TTGTGGGTGGTGGTGCA	17	18s
TGTATACGACTTAGATGTACAACGGGGTATTGTAAGCAGTAG		
AGTAGCCTTGT	53	25s
CTTGTTGTTACGATCTGCTGAGATTAAGCCTTTGTTGTCTGA	48	25s
TTTTG		
CTTGTTGTTACGATCTGCTGAGATTAAGCCTTTGTTGTCTGAT	46	25s
TTG		
ACAAATCAGACAACAAAGGCTTAATCTCAGCAGATCGTAACA	45	25s
ACA		
ACAAATCAGACAACAAAGGCTTAATCTCAGCAGATCGTAACA	45	25s
ACA		
ATTCAAATGTCCACGTTCAATTAATGCTAGAACGTGGAAA	40	25s
ATTCAAATGTCCACGTTCAATTAATGCTAGAACGTGGAAA	40	25s
CGATCTGCTGAGATTAAGCCTTTGTTGTCTGATTTGT	37	25s
ACACGGGATTCTCACCTCTATGACGTCCTGTTCCAA	37	25s
TTGGAACAGGACGTCATAGAGGGTGAGAATCCCGTGT	37	25s
CGATCTGCTGAGATTAAGCCTTTGTTGTCTGATTTGT	37	25s
TCTGCTGAGATTAAGCCTTTGTTGTCTGATTTGT	34	25s
CTGCTGAGATTATGCCTTTGTTGTCTGATTTGT	33	25s
CTCAAATCCATCCCAAGACATCAGGATCGGTC	32	25s
CTCAAATCCATCCGAAGACATCAGGATCGGTC	32	25s
TTCACTGGCACCGAAGCTCCCACTTATTCTAA	32	25s
CCAAACTCCCCACCTGACAATGTCTTCAA	30	25s
ACAAATCAGACAACAAAGGCTTAATCTC	28	25s
GATTAAGCCTTTGTTGTCTGATTTGT	26	25s
GATTAAGCCTTTGTTGTCTGATTTGT	26	25s
ACTAATCGAACCCTAGTAGCTG	24	25s
CTATGCTCTTACTCAAATCCATCA	24	25s
AGCTACCATCCGCTGGATTATGG	23	25s
TTTGAATCTAGTTTGACATTGTG	23	25s
TTCTGGCACCTCTAGCCTCAAAT	23	25s
TCACCTTGGAACCTGCTGCGG	22	25s
CCGAATGAACTGTTCTCTCGT	22	25s
ATTCAGAGCACAGGGCAGAAAA	22	25s
TTCCCTTGTCCGTACCAGA	20	25s
TCTGGCACCTCTAACCTCAA	20	25s
TCACCTTCTGACCATCA	17	25s
CCAAACTCCCCACCA	15	25s
CTATGCTCTTACTCAAATCCATCA	24	25s

Sequence (5' – 3')	Length (nt)	snRNA
TAATAAATAAATTGCAACACCAAA	24	snR10
AGAAGGGTGCATATCAAGTGATGTTACCTTCCT	34	snR48