

Table S3. Oligonucleotides used in this study

Name	Sequence
NOPI-A CT4	5'-CATTGTATCGTCGTTGGTAGATACATGAGAAGCGGTTGAAGAAATCCATGGAAAAGAGAAG-3'
NOPI-B CT5	5'-AGCAAGCTACCAGAAACTTTTGACTAATTTCCCTTATTCAACTTATACGACTCACTATAGGG-3'
snR3-F1 CT81	5'GTATAAAAGAAAGCACAGGCAATGAGATTGTTTTTCGCTTTTCCTTCTTCGGATCCCCGGGTTAATTAA-3'
snR3-R1 CT82	5'ATTGCACCCATACGGATCTACAAGATCACGAAACAATAAGATACATGTGCGAATTCGAGCTCGTTTAAAC-3'
snR9-F1 CT42	5'GCTAAGATTAATTTTAATAGGAAAAGAGAGAGACTCAACGCTGTGTGATGCGGATCCCCGGGTTAATTAA-3'
snR9-R1 CT43	5'-CTAGCAGTCGGCGATACTGCTGGGACTTATCCAGATCCGTAGTGATGCGAATTCGAGCTCGTTTAAAC-3'
snR11-F1 CT46	5'-AGTGTTACCCGAAAAGTATGAATATTATTTTTTCTTCGTACCGTTATATCCGGATCCCCGGGTTAATTAA-3'
snR11-R1 CT47	5'-TGAAGATGAAACAGCGAAAGCTTACACCAGGGGACAGTTGAGGCTTCCAAGAATTCGAGCTCGTTTAAAC-3'
snR31-F1 CT83	5'-ATTGAAATGAAATCGCCTTTTATACCTCGCCGACCAAGGAGCGCGCTGCGGATCCCCGGGTTAATTAA-3'
snR31-R1 CT84	5'-TGCTTTCTCAGGCAGCTGTACGTGTACTATGTATAAAATTTGAATAACAGAATTCGAGCTCGTTTAAAC-3'
snR32-F1 CT85	5'-GCTACTTAATTCCTATTTTCGTGCTAGCCCTACAACGGAACCCAAAAATTCGGATCCCCGGGTTAATTAA-3'
snR32-R1 CT86	5'-TTCGCGTTGGCAACCATGATAAGTTAAACAAGACACGTAGGCGTTTCGCACTGAATTCGAGCTCGTTTAAAC-3'
snR33-F1 CT87	5'-ATCCAACGTTGCCATCGTTGGGCCCCCGGTTTCGATTCGGGCTTGCGCATCGGATCCCCGGGTTAATTAA-3'
snR33-R1 CT88	5'-CGCTTTTAAAGAAAACGATAAGAATAACCTCTAACTACATAATAATAAGGAATTCGAGCTCGTTTAAAC-3'
snR34-F1 CT89	5'-CGAATCTTAGATCCTATATGTGCTCTTGAGTATCGTTGGAGGATTCGTCGGATCCCCGGGTTAATTAA-3'
snR34-R1 CT90	5'-ATCAGAGTGAAATAGAAAGTGAAGGGTTGTGTTGCACGACAACGTACGTGAATTCGAGCTCGTTTAAAC-3'
snR35-F1 CT58	5'-ACAAGCGTCTCTTTAATAACTCAAGGGACCCATAACGCGCTTCTTTATCGGATCCCCGGGTTAATTAA-3'
snR35-R1 CT59	5'-AGGGATCTGAAGTACGGACACTGATATTTATGTATATAGAATACCTCTTGAATTCGAGCTCGTTTAAAC-3'
snR37-F1 CT91	5'-CCCTACCTATTACTTCCCTCTTTATTATTAGCCGGGTCACACTAAATTGACGGATCCCCGGGTTAATTAA-3'
snR37-R1 CT92	5'-GGAGCACAAGCAAGGCAGCATCAGAACGTACCGTCAGTTGGTACCAAGACGAATTCGAGCTCGTTTAAAC-3'
snR42-F1 CT93	5'-CTTACCCGAAGTAAGCTCGCGCTTTTCTTTTCTTCTCGCATATAACATTCGGATCCCCGGGTTAATTAA-3'
snR42-R1 CT94	5'-AGAAAAGCGTGTATCCGCATACTATAAATACGTATATATAACAAAGTAACGAATTCGAGCTCGTTTAAAC-3'
snR46-F1 CT95	5'-CCATATTCCTTATTGTCTATGGGTCAGACTGTATATGTTAGTGAAAGTTCGGATCCCCGGGTTAATTAA-3'
snR46-R1 CT96	5'-TTAGCATCCATAGCTACTTCTTGCAATTTGACTTTATAATATAAAGCATGAATTCGAGCTCGTTTAAAC-3'
snR49-F1 CT56	5'-CTCTTTGATTGCTTATTGCAATCTCACTTGTTTTTTCTTGTATTTACTCGGATCCCCGGGTTAATTAA-3'
snR49-R1 CT57	5'-TTGATAGATAGCTCATTGTAGTAACTGACGACATTTATGTACATAATTGAATTCGAGCTCGTTTAAAC-3'
snR161-F1 CT48	5'-TATATGTCACCATTTGCTAAAGAGGAAGTTTTTTCGCGAGTTCGCGCGTTCGGATCCCCGGGTTAATTAA-3'
snR161-R1 CT49	5'-TATTTACAATTTACCCGGCGCTGGTTCTGGTGGCATCTATAAGAGCTCTAGAATTCGAGCTCGTTTAAAC-3'
snR189-F1 CT60	5'-TTTAAGCCATGCATGAATCACATTGTTACCTGGCAAAATTTGAAAATTCGGATCCCCGGGTTAATTAA-3'
snR189-R1 CT61	5'-CACCGCACGTAAGTACTCCAAAGCAGTCTCTATTACATTTTAAATAGGGAGAATTCGAGCTCGTTTAAAC-3'
RUF1-F1 CT50	5'-GATGCGATGAGAACGACGATGTAACCTACAATCAAGCTACTTACAAAACGAACGGATCCCCGGGTTAATTAA-3'
RUF1-R1 CT51	5'-TAATAGTACATACAGGTGCGCCGACCAGCGCCTATTCATAAAAACAAGAAGAATTCGAGCTCGTTTAAAC-3'
RUF2-F1 CT52	5'-GAATAGACCTAAGATAATAAACTATGTTTCGTTACCCGGACAAATTTTCTCGGATCCCCGGGTTAATTAA-3'
RUF2-R1 CT53	5'-GCTCATATGACAAGATATAGGGAGCAACTACATGCAATCACTATACGTACGAATTCGAGCTCGTTTAAAC-3'
RUF3-F1 CT54	5'-GGTCTAGAAGTAACAATCAAGACAGATAAAGTCTAGTACGTGTGCAGGTTTCGGATCCCCGGGTTAATTAA-3'
RUF3-R1 CT55	5'-AAGACAATACCGACTATCTAATAAATAATTTTAAATACGTATGTAATTTTCGGAATTCGAGCTCGTTTAAAC-3'
snR85-F1 CT45	5'-CTGCCCCCTTGTCTAAGCTTTTCTGCCTCCTTCTTTTAAATTCGATACCGGATCCCCGGGTTAATTAA-3'
snR85-R1 CT44	5'-AGCAGGAGCCGGCTTCTGGCAAGGAGGGAGAAGACATAGATTGTTTTCGGAATTCGAGCTCGTTTAAAC-3'
snR80-F1 CT120	5'-CACTTACTTCTTTTTTCTTACTTTGCTTTCCATGCTTGATTCTTTACTATCGGATCCCCGGGTTAATTAA-3'
snR80-R1 CT121	5'-TCAACTATAACGATTAACAAGTGTTCGAACTAATGTAACAGACCAATCGAATTCGAGCTCGTTTAAAC-3'

RUF9-F1	CT115	5'-GCTACTTTAGGTTCGTAGAAAGTCTCTAGGAATGAAATTATATCTTCTGCCGGATCCCCGGGTTAATTAA-3'
RUF9-R1	CT116	5'-GTTTACAGTAGTGTGGGAGAAAATAACGCCAGGTAAAGCTCGTAAAAGGGAATTCGAGCTCGTTTAAAC-3'
snR43-F1	CT26	5'-GTCTATTCCAACATAATCATTAGCAGCACATGTGAGCAACAGATAAACCCGGATCCCCGGGTTAATTAA-3'
snR43-R1	CT27	5'-GCGTCGAGTATATCAAGCCAAGTGACGTTTCCTGAGTATAAGAAAAATAAGGAATTCGAGCTCGTTTAAAC-3'
snR86-F1	GB296	5'-GGATTTTCTGCTTGGCGGTATAGCACGTTTGAGTTTTTCAGTCGTTCTACGGATCCCCGGGTTAATTAA-3'
snR86-R1	GB297	5'-GTTAATAATTAATAAAATAACATTACACATAAACATGTTTAAGTTTCATTTGAATTCGAGCTCGTTTAAAC-3'
snR3-5'	CT111	5'-ACGTTCCAGTAATTGAAGGG-3'
snR3-3'	CT112	5'-CAAGAGTGCAATAAACTCGG-3'
snR9-5'	CT62	5'-CCGGAACATTACTCTTCTCA-3'
snR9-3'	CT63	5'-ACACCAAAGCAATGTTAGC-3'
snR11-5'	CT64	5'-CTTCTCGTCGTCACCTAAGTT-3'
snR11-3'	CT65	5'-CGCCATCCAAGGTTTGTAAAT-3'
snR31-5'	CT109	5'-ATATGGAGGCGTGATGTCCT-3'
snR31-3'	CT110	5'-AAAGTGAAGACGAAGACGAC-3'
snR32-5'	CT107	5'-TGTTGCTACTATTACGTGGG-3'
snR32-3'	CT108	5'-GGTCAAGCTTTGCAATTCTG-3'
snR33-5'	CT105	5'-GAGGATTCTCTATCCTTGA-3'
snR33-3'	CT106	5'-TTCATATCCTCCACTGTTTCG-3'
snR34-5'	CT101	5'-GCTAACGACATTGGTTTCAAC-3'
snR34-3'	CT102	5'-GAAAGACTTCGAGATTTCCG-3'
snR35-5'	CT71	5'-GATACGTCGGAAAACCGTAT-3'
snR35-3'	CT72	5'-GGTCAGCAGTGCTGTTAAA-3'
snR37-5'	CT103	5'-CAAGGTGGATCTAGAAACTT-3'
snR37-3'	CT104	5'-AGATGCCATCTCGATATACG-3'
snR42-5'	CT99	5'-TTCTCGTGTCTACAGAGCA-3'
snR42-3'	CT100	5'-TGATAGCAATCACCCAGACA-3'
snR46-5'	CT97	5'-GAACTACTTCACAGTGACCA-3'
snR46-3'	CT98	5'-GGCAGAAATGAACTACAGGA-3'
snR49-5'	CT73	5'-GCAACTTCTAGCCCTAATGA-3'
snR49-3'	CT74	5'-CCGAGGCAGAAAAGAAAAAG-3'
snR161-5'	CT66	5'-CAAATTTCTGAGGCCTGCAT-3'
snR161-3'	CT67	5'-TATTGATACGTCTCAGGAGC-3'
snR189-5'	CT75	5'-GGCTGAAGAAAATAACCGCT-3'
snR189-3'	CT76	5'-GTGGTTTCTTACTCTCCTTG-3'
RUF1-5'	CT79	5'-GGTGCTTGTGCGGAAAAATA-3'
RUF1-3'	CT80	5'-CGGAAGCATATCGAACGTTA-3'
RUF2-5'	CT69	5'-CAGCTGGTAAGAGACATAAC-3'
RUF2-3'	CT70	5'-TTTCAGCCATCTTGCCTTGC-3'
RUF3-5'	CT77	5'-GCTCAAGCCCTCAAAAAACA-3'
RUF3-3'	CT78	5'-AAGTAATAGAGCACATGCCG-3'
snR85-5'	CT24	5'-GCGGTGGAAAGGGTTATCTC-3'
snR85-3'	CT68	5'-CAAGGCTTCAATCTTACGC-3'
snR80-5'	CT122	5'-CCGAAAATTATATCTGCATGTG-3'

snR80-3'	CT123	5'-TCAGTTATTGGTCGTC AACCC-3'
RUF9-5'	CT118	5'-TGACATAGTATCGAGTTCCG-3'
RUF9-3'	CT119	5'-CTCAGCATACTCGTTAAAGC-3'
snR191	CS9	5'-TAAAGTCTCAAATAACAAAAGCTCAACT-3'
U18		5'-CACTCATATCGGGGGTCTTACTTCC-3'
snR85	CT33	5'-GACATATGTGCTAGTATTCG-3'
snR86	GB99	5'-TCATAGCTTCCGTCATGCTACC-3'
snR80	CT124	5'-CTATGAAATGGACTAATAATAACC-3'
RUF9	CT34	5'-GATACCTTGGTAGTACTTTTAG-3'
RUF9	CT35	5'-GAATTGCTCTGTCGTTTC-3'
snR43	CT30	5'-ACGCCGTCTACGGTTGTATC-3'
AJ48		5'-AGCGGATAACAATTCACACAGGA-3'
CT13		5'-AAGAGGGATAACCATTTAATAAAATCAAATATCCCGTTTAATC-3'
CT14		5'-TAAATGGTTATCCCTCTTTTAGTAGC-3'
CTA25		5'-ATGTCCCAATTTTTTCGAAAGTTGGGGCATTTCGATGG-3'
CTA26		5'-CGAAAAAATTGGGGACATTCAATAG-3'
CT36		5'-CCCGTTACCCGTGAAACCATG-3'
CT41		5'-CAATTACGGCTCTAAGAAACG-3'
CT117		5'-ATTGTGTCTGGACCTGGTGAG-3'
GB35		5'-GTGCTGCAAGGCGATTAAG-3'
GB127		5'-AGACATAGTTTTTTACTTTTCCC-3'
GB128		5'-AGACTATCGCATATAAAATTCA-3'
GB132		5'-CCCACCTATTCTACACCCTCT-3'
GB150		5'-GGGAATCTCGTTAATCCATTCA-3'
GB154		5'-GCGTTATGACAGCAGTTTTAGA-3'
GB171		5'-GTTTAAACGCGCCGCAATGGATTCTAAGACCCCA-3'
GB176		5'-TTGTGGTGTCTGATGAGCGTGT-3'
GB178		5'-TAGAAACCAACAAAATAGAACC-3'
GB289		5'-CAAGTTAGACTCGCTGGCTCC-3'
GB290		5'-ACGAGCCTCCACCAGATTTC-3'
GB291		5'-CTTCATTCAAATGTCCAGTTC-3'
GB292		5'-GTCATAGTTACTCCCGCGTTT-3'
GB293		5'-ATTCTGCTTCGGTATGATAGGA-3'
GB295		5'-GTTCTCGTTAAGGTATTTACA-3'
ZEO1-U		5'CTTTAGTTTTCTTTGATCGG3'
ZEO1-L		5'-TAAACAGCATTTTCTCCTC-3'
FAR1-U		5'ACTGGAAAGCTTCGTGGGCG 3'
FAR1-L		5'GCCTCGAAATACGGGCCTCG3'