**Table S3: Oligonucleotides used in this work.**

|  |  |  |
| --- | --- | --- |
| **DNA oligonucleotide** | **Sequence (5’ to 3’)** | **Usage** |
| 18S | CATGGCTTAATCTTTGAGAC | Northern blot |
| 18S TAG | CGCCGAGGATCCAACTAGGGGGCT | Northern blot |
| 25S | GCCCGTTCCCTTGGCTGTG | Northern blot |
| 25S TAG | GGGCAGGCTGCAGCTTCCTACCAG | Northern blot |
| 20S | GCTCTCATGCTCTTGCC | Northern blot |
| Probe 003 (Between A2 and A3) | TGTTACCTCTGGGCCC | Northern blot |
| U2 | ACAGGCGTCAACCATCAAGT | Northern blot |
| UMI Linker | Phos-CTGTGGAATTCTCGGGTNNNNNNNNNNNNNNNNNNNNNNNNNCTGTAGGCACCATCAAT-SpC3 | 18S rRNA 3’-RACE  |
| Linker 1 RT primer | ATTGATGGTGCCTACAG | 18S and 25S rRNA 3’-RACE  |
| P5 adapter\_Linker 1 reverse primer | CTACACGACGCTCTTCCGATCTATTGATGGTGCCTACAG | 18S rRNA 3’-RACE  |
| P7 adapter\_18S 62ntforward primer | CAGACGTGTGCTCTTCCGATCTCATTTAGAGGAACTAAAAGTC | 18S rRNA 3’-RACE  |
| Universal miRNA Cloning Linker (NEB) | rAppCTGTAGGCACCATCAAT–NH2 | 25S rRNA 3’-RACE  |
| P7 adapter\_Linker 1 reverse primer | CAGACGTGTGCTCTTCCGATCTATTGATGGTGCCTACAG | 25S rRNA 3’-RACE  |
| P5 adapter\_25S 47nt forward primer | CTACACGACGCTCTTCCGATCTCTTGTTGTTACGATCTGC | 25S rRNA 3’-RACE  |
| T7 promoter\_H44 forward primer | GCTCGGTACCCGGGGATCTAATACGACTCACTATAGGCCGCCCGTCGCTA | transcription template |
| D site reverse primer | mUmAATGATCCTTCCGCAGGTTCAC | transcription template |
| D+3 reverse primer | mCmUTTAATGATCCTTCCGCAGGTTCAC | transcription template |
| D-4 reverse primer | mGmATCCTTCCGCAGGTTCACCTACGG | transcription template |

Phos: Phosphorylation

N nucleotides: random nucleotides (A, C, T, or G)

SpC3: C3 Spacer phosphoamidite

UMI: unique molecular identifier

RT: reverse transcription

m: 2’-O-methylated RNA nucleotide