

**Supplementary Table S4. Sequences of RNA oligonucleotides.**

*Deoxynucleotide.*

pre- <i>let-7</i> wild type	5'-UGA GGU AGU AGG UUG UAU AGU AGU AAU UAC ACA UCA UAC UAU ACA AUG UGC UAG CUU UCU-3'
pre- <i>let-7</i> blunt end	5'-AGU GAG GUA GUA GGU UGU AUA GUA GUA AUU ACA CAU CAU ACU AUA CAA UGU GCU AGC UUU CU-3'
pre- <i>let-7</i> perfect match stem	5'-UGA GGU AGU AGG UUG UAU AGU AGU AAU UAC ACA UCA UAC UAU ACA ACC UAC UAC CUC UCU-3'
pre- <i>let-7</i> tetraloop	5'-UGA GGU AGU AGG UUG UAU AGU AGA AAU ACU AUA CAA UGU GCU AGC UUU CU-3'
pre- <i>let-7</i> perfect match stem and tetraloop	5'-UGA GGU AGU AGG UUG UAU AGU AGA AAU ACU AUA CAA CCU ACU ACC UCU CU-3'
Strand 1 of 5'-PO <sub>4</sub> , 3' overhang 25 bp dsRNA	5'-ACC CUG AAG UUC AUC UGC ACC ACC <u>AG</u> -3'
Strand 1 of 5'-PO <sub>4</sub> , blunt 27 bp dsRNA	5'-UGA CCC UGA AGU UCA UCU GCA CCA <u>CCG</u> -3'
Strand 2 of 25 bp or 27 bp dsRNA	5'-CGG UGG UGC AGA UGA ACU UCA GGG UCA-3'
Strand 1 of 30 bp dsRNA	5'-GGA GGU AGU AGG UUG UAU AGU AGU AAG <u>ACC</u> -3'
Strand 2 of blunt 30 bp dsRNA	5'-GGU CUU ACU ACU AUA CAA CCU ACU ACC <u>UCC</u> -3'
Strand 2 of 3' overhang 30 bp dsRNA	5'-GGU CUU ACU ACU AUA CAA CCU ACU ACC UCC <u>AC</u> -3'
Strand 1 of 38 bp dsRNA	5'-GGA GGU AGU AGG UUG UAU AGU AGU AAG ACC AGA CCC <u>UA</u> -3'
Strand 2 of blunt 38 bp dsRNA	5'-UAG GGU CUG GUC UUA CUA CUA UAC AAC CUA CUA CCU CC-3'

Strand 2 of 3' overhang 38 bp dsRNA	5'-UAG GGU CUG GUC UUA CUA CUA UAC AAC CUA CUA CCU CCA C-3'
Strand 1 of 52 bp dsRNA	5'-GGA GGU AGU AGG UUG UAU AGU AGU AAG ACC AGA CCC UAG ACC AAU UCA UGC <u>C</u> -3'
Strand 2 of blunt 52 bp dsRNA	5'-GGC AUG AAU UGG UCU AGG GUC UGG UCU UAC UAC UAU ACA ACC UAC UAC CUC C-3'
Strand 2 of 3' overhang 52 bp dsRNA	5'-GGC AUG AAU UGG UCU AGG GUC UGG UCU UAC UAC UAU ACA ACC UAC UAC CUC CAC-3
Strand 1 of 73 bp dsRNA	5'-GGA GGU AGU AGG UUG UAU AGU AGU AAG ACC AGA CCC UAG ACC AAU UCA UGC CAC CGA AGC AAA UUU CAA UGC <u>C</u> -3'
Strand 2 of blunt 73 bp dsRNA	5'-GGC AUU GAA AUU UGC UUC GGU CGC AUG AAU UGG UCU AGG GUC UGG UCU UAC UAC UAU ACA ACC UAC UAC CUC C-3'
Strand 2 of 3' overhang 73 bp dsRNA	5'-GGC AUU GAA AUU UGC UUC GGU CGC AUG AAU UGG UCU AGG GUC UGG UCU UAC UAC UAU ACA ACC UAC UAC CUC CAC-3'