**S5 Table: RNA adapters with barcode for 5’ end-seq**

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| **Adapter** | **Sequence** |
| RNABC01\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAAGCAAU-3’ |
| RNABC02\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAAUUCAU-3’ |
| RNABC03\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUACAAGUU-3’ |
| RNABC04\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUACAGCCU-3’ |
| RNABC05\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUACCUGAU-3’ |
| RNABC06\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUACUAAUU-3’ |
| RNABC07\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUACUCAAU-3’ |
| RNABC08\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAGACCAU-3’ |
| RNABC09\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAUAAACU-3’ |
| RNABC10\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAUACAUU-3’ |
| RNABC11\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAUCAAUU-3’ |
| RNABC12\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUAUCCACU-3’ |
| RNABC19\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUCACGAAU-3’ |
| RNABC23\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUCCCGAUU-3’ |
| RNABC24\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUCCGACUU-3’ |
| RNABC34\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUGGCCUCU-3’ |
| RNABC36\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUGUACCCU-3’ |
| RNABC37\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUGUUUGCU-3’ |
| RNABC51\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUUGGUCCU-3’ |
| RNABC52\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUUGUUACU-3’ |
| RNABC53\_RC | 5’-SpC3-CUACACGACGCUCUUCCGAUCUUUCCCGU-3’ |