**Table S2. Primers used in this study**

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| --- | --- |
| **Primer name** | **Primer sequence** |
| **ChIP analysis at HO-induced and native telomeres** | |
| TG-HO For | 5’- CTCCACAATCAATTGCGAGAAGCC - 3’ |
| TG-HO Rev | 5’- ACAGATGCGCCAGCGAAAGATG - 3’ |
| HO For | 5’- GGGGCTACTTTTGTCCTGTCAC - 3’ |
| HO Rev | 5’- GGGTGGGGACCATCGAAGTG - 3’ |
| VI-R For | 5’- GCCATTTCCGTGTGTAGTGA - 3’ |
| VI-R Rev | 5’- GTACGCACACGTATGCTAAAGT - 3’ |
| ARO For | 5’- TGAGTCGTTACAAGGTGATGCC - 3’ |
| ARO Rev | 5’- ACCTACAGGAGGACCCGAAA - 3’ |
| **QAOS** | |
| X Tag | 5’- AAGGAGCGCAGCGCCTGTACCA - 3’ |
| X tagging | 5’- AAGGAGCGCAGCGCCTGTACCACATTTTAATATCT - 3’ |
| X Rev | 5’- ATTGAGTGGATAGTAGATGGTGAAAAAGTGGTATAACG - 3’ |
| PAC2 For | 5’- AATAACGAATTGAGCTATGACACCAA - 3’ |
| PAC2 Rev | 5’- AGCTTACTCATATCGATTTCATACGACTT - 3’ |