**Supplementary Table 3.**

**Primers for RT-qPCR and ChIP analyses**

|  |  |  |  |
| --- | --- | --- | --- |
| **Referred to in** **this paper as:** | **Primer sequence** | **Use of these primers** | **Previous references** |
| Subtelomere 2p-P | F- GTGGAACCTCAATAATCCGAAAAR- GGACACCACTGTAAGCAAGATAGC | ChIP  | - |
| Subtelomere 2p-D  | F- CGCATCGACGGTGAATAAAAR- GCCTAACTCGTGTCTGACTTTGAG | ChIP and RT-qPCR | (Sagie, Toubiana, et al. 2017) |
| Subtelomere 5p-P | F- TGGCACAGCATCGTAGACAAGR- TGGAACCTCAGCAATCTGAAAA | ChIP | - |
| Subtelomere 5p-D | F- GAGTGCATTAGCATACAGGTR- TCCTAATGCACACGTAACAC | ChIP and RT-qPCR | (Sagie, Toubiana, et al. 2017) |
| Subtelomere 10q/13q/19q  | F- GGCGCTGGACACCACTGTAR- TGAGTAATCTGAAAAGCCCGTTT | ChIP | - |
| Subtelomere 2q/10q/13q | F- AACCTGAACCCTAACCCTCCR- ATTGCAGGGTTCAAGTGCAG | ChIP and RT-qPCR | (Sagie, Toubiana, et al. 2017) |
| Subtelomere 10p/18p | F- CCTTCTAACTGGACTCTGACR- GCCACAGCGACGGTAAATAA | ChIP and RT-qPCR | - |
| Subtelomere 1**1**q  | F- CCAGCTGCCAGCAGTCGGR- TTGCTCGCAGTATAGTGG | ChIP  | - |
| Subtelomere 11q | F- CTGATTATTCAGGGCTGCAAAR- GCCGCATCGACGGTGAATAA | RT-qPCR | (Arnoult, Van Beneden, and Decottignies 2012) |
| Subtelomere 7q | F- TTCAGACGGGCTTTTGGTTTR- ATGGTGAATACAATCCTTTCTGTTTG | ChIP and RT-qPCR | (Sagie, Toubiana, et al. 2017) |
| Subtelomere 9p | F- GGGCGCATTAACGGTGAATAR- CCGCACTGAACCGCTCTAAC | RT-qPCR | (Sagie, Toubiana, et al. 2017) |
| Subtelomere 15p | F- AACCCTAACCACATGAGCAACGR- CTCGCCTTAGCTTGGGAG | RT-qPCR | - |
| Subtelomere 19q | F - CTATTGCGAAGGCGGAGCR – CCCCAACCCCAACCCCAACGGC | ChIP and RT-qPCR | - |
| -actin | F- TGTACGCCAACACAGTGCTGR- GCTGGAAGGTGGACAGCGA | Normalizing gene forRT-qPCR | - |
| Satellite 2 | F- AGTGGAATCATCTNRAATGGAR- CATTCGAGTCCATTCGATGATT | ChIP | - |
| Hoxa 7 TSS | F- TACTCACCTCCCCTTTCCCAR- GTACCCTGCTCAGCTCCATC | Negative control region for H3K4me3 ChIP | - |
| GAPDH promoter | F- AAAGCCCGCACCAACCATR- AGTCCCTGACCCTGCCTTTC | Negative control region for H3K9me3 ChIP | - |
| Myoglobin exon2 | F- GTGCCAGGGGCTTAATCTR- GCGTCTGAGGACTTAAAGAAGC | Negative control region for H3K36me3 ChIP | (Gatto et al. 2017) |