**Supplementary Table 2. Primer sequences for RT-qPCR**

|  |  |
| --- | --- |
| **Gene (species)** | **Primer sequence** |
| CENPA (human) | Forward: 5'-GCCTGGCAGCAGAAGCATT-3' |
|  | Reverse: 5'-TGCTGCCACTAATGGTGAGG-3' |
| STMN1 (human) | Forward: 5'-GTACTTCTGGACTCACGGGC-3' |
|  | Reverse: 5'-AAGGCAAGAGTGGTCTGCTC-3' |
| GAPDH (human) | Forward: 5'-AAAGCCTGCCGGTGACTAAC-3' |
|  | Reverse: 5'-TTCCCGTTCTCAGCCTTGAC-3' |
| CBS (human) | Forward: 5'-ACGAGCAGATCCAGTACCACAG-3' |
|  | Reverse: 5'-CCACGAAGTTCAGCAAGTCAATG-3' |
| EGLN2 (human) | Forward: 5'-CAGGATGGGAGTGGAGAGTTACC-3' |
|  | Reverse: 5'-CCGAAGAGGGCTGGCAGTG-3' |
| C6PD (human) | Forward: 5'-ACCTGACCTACGGCAACAGATAC-3' |
|  | Reverse: 5'-GGGATGGGCTTGGGCTTCTC-3' |
| NQO1 (human) | Forward: 5'-GCAGACCTTGTGATATTCCAGTTCC-3' |
|  | Reverse: 5'-TGGCAGCGTAAGTGTAAGCAAAC-3' |
| NRAS (human) | Forward: 5'-GGTTGGAGCAGGTGGTGTTG-3' |
|  | Reverse: 5'-TCATGGCACTGTACTCTTCTTGTC-3' |
| PHKG2 (human) | Forward: 5'-TTGCGGTGAAGATTATGGAAGTGAC-3' |
|  | Reverse: 5'-TGGCGAAGGATGTGTGTCTCTC-3' |

CBS, cystathionine beta-synthase; CENPA, centromere protein A; EGLN2, egl-9 family hypoxia inducible factor 2; GAPDH, glyceraldehyde-3-phosphate dehydrogenase; NRAS proto-oncogene; PHKG2, phosphorylase kinase catalytic subunit gamma 2 NRAS, neuroblastoma rat sarcoma; STMN1, stathmin 1.