**SUPPLEMENTARY METHODS**

**S1: Primers List**

|  |  |  |  |
| --- | --- | --- | --- |
| **Primers** | **Sequence** | **Tm** | **Reference** |
| **ESR1-EX4-F** | TTGAACACTTACCAGCTCACC | 55 | NG\_008493.1 |
| **ESR1-EX4-R** | AACACATCTCCTGTAACCTTG | 55 | NG\_008493.1 |
| **ESR1-EX5-F** | GACCTTGTCAGTTCAAATCC | 57 | NG\_008493.1 |
| **ESR1-EX5-R** | AGCAGAAAGTTATCCTTAGC | 57 | NG\_008493.1 |
| **ESR1-EX6-F** | ACCCTTTCATGTCTTGTGGAAG | 55 | NG\_008493.1 |
| **ESR1-EX6-R** | TCTTTACTATCTGGAGCCTGGA | 55 | NG\_008493.1 |
| **ESR1-EX7-F** | TTAAATGGGTCCAGAGCATC | 55 | NG\_008493.1 |
| **ESR1-EX7-R** | AGTGTCTTCAGGGGATGTGT | 55 | NG\_008493.1 |
| **ESR1-EX8-F** | GCTAAGTGTCTTTGGAGTTC | 57 | NG\_008493.1 |
| **ESR1-EX8-R** | CCCCAACCCATAGACTGAG | 57 | NG\_008493.1 |
| **ESR1-EX4-F** | TTGAACACTTACCAGCTCACC | 55 | NG\_008493.1 |