**Supplement 5 (Table):**

|  |  |  |  |
| --- | --- | --- | --- |
| **Primer pairs for conventional Sanger Sequencing:** |  |  |  |
| CSF1R\_Forward | TCCCACCCTCAGGACTATACCAATCT | CSF1R\_Rev | CCCTGTCGTCAACTCCTCAGCAGAACT |
| ERBB2\_ Forward | TCTGCTCCTTGGTCCTTCACCTAACCT | ERBB2\_Rev | CCAGGGGATGAGCTACCTGGAGGATGT |
| IDH1\_ Forward | GAGGGTTGAGGAGTTCAAGTTGAAACA | IDH1\_Rev | ATGACTTACTTGATCCCCATAAGCATG |
| KIT\_ Forward | TCCTGCCAAAGTTTGTGATTCCAC | KIT\_Rev | GTGACATGGAAAGCCCCTGTTTCATA |
| KRAS\_ Forward | TCTTTCCCAGAGAACAAATTAAAAGAGT | KRAS\_Rev | TTTCAGTGTTACTTACCTGT |
| MET\_ Forward | TGCAAAACCAAAAATAAACAACAATGTC | MET\_Rev | TAGGCTTGTAAGTGCCCGAAGTGTAA |
| NRAS\_ Forward | GGGTTTTCATTTCCATTGATTATAGAAAG | NRAS\_Rev | TGGTTCTGGATTAGCTGGATTGTCAG |
|  |  |  |  |
| **Primer for allele specific PCR (JAK2 validation):** |  |  |  |
| forward outer | TCCTCAGAACGTTGATGGCAG |  |  |
| reverse outer | ATTGCTTTCCTTTTTCACAAGAT |  |  |
| forward wild-type-specific | GCATTTGGTTTTAAATTATGGAGTATaTG |  |  |
| reverse-mutant-specific | GTTTTACTTACTCTCGTCTCCACAaAA |  |  |