**Supplemental Table 1.** *CHST6* screening primer sequences and annealing temperature (Ta)

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| --- | --- | --- | --- | --- |
| **Gene Region** | **Forward Primer**  **(5’ to 3’ Sequences)** | **Forward Primer**  **(5’ to 3’ Sequences)** | **Amplicon**  **Size (bp)** | **Ta (°C)** |
| Promoter\_1 | GGTGAGGTGTCTAATGCCCC | CCCAGGCACCTGAAAAGGAT | 861 | 60 |
| Promoter\_2 | ATCCTTTTCAGGTGCCTGGG | GCACCTGGATGACACATGGA | 846 | 60 |
| Promoter\_3 | TCCATGTGTCATCCAGGTGC | CTCCCTGGACTCAGCAAAGG | 828 | 65 |
| Exon 1 | ACCTTAAGGAGCAAGTCAGCC | CCGCCAAGCTACCGTCTCTC | 505 | 60 |
| Exon 2 | CCTGCTTTACCAGGTGCTGA | GAGACTCTGACTCAAAACATACAGT | 641 | 60 |
| Exon 3 – 5CR | GCCCCTAACCGCTGCGCTCTC | GGCTTGCACACGGCCTCGCT | 498 | 68 |
| Exon 3 – MCR | GACGTGTTTGATGCCTATCTGCCTTG | TCCGTGGGTGATGTTATGGAT | 615 | 60 |
| Exon 3 – 3CR | CTCCCGGGAGCAGACAGCCAA | CTCCCGGGCCTAGCGCCT | 599 | 65 |
| F1 – R1 | CCACAGAAGGAAGGACAGAGTAAATGAA | TTCCCTTTACTATTATAAAAATGCTGCTAATG | N/A | 65 |
| F1 – R1M | same as above | TGCTGAATGGCTAACTGAAGGAATACTATAC | N/A | 65 |
| F2 – R2 | CATATCCTGTCTGGCCTAAACCTTAGTTTAC | CATTAGACACCTCACCTGCTTTGGC | N/A | 65 |
| F2M – R2 | CCACAGCCAATTCCATCTTGGATTTTCTC | same as above | N/A | 60 |