Supplementary file 3. Primers for initial PCR of TSR sequences.

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| Gene | Primer Names | Primer sequence |
| Ap\_Sema5 | SemaF260  SemaR769 | 5’-GTC ACT TGC TGG TTC TTG CA-3’  5’-CTT CCA AGT ACA CTG CGG GT-3’ |
|  | SemaF608  SemaR1350 | 5’-ACA CGA GTG ATG AAT TGG TCT T-3’  5’-AAG GAG TAC GCA CAA ATG GC-3’ |
|  | SemaF1207  SemaR1983 | 5’-AGA TTG TTC TAC ACC AGG CAC-3’  5’-TGC CAA CCG TGA TCC CTA TT-3’ |
|  | SemaF1841  SemaR2639 | 5’-ACC CCG AAT AAG CTG GTG AA-3’  5’-GTT TTC TGG ACT GCA TGC CA-3’ |
|  | SemaF2555  SemaR3367 | 5’-ATC CAA CCA ACA ACA CCA CC-3’  5’-CCA CTG ACC ACA TAT ACC GC-3’ |
| Ap\_Trypsin-like | TrypsinF53  TrypsinR841 | 5’-CAG TTT AAC GCG CGT CAT TC-3’  5’-ACT CCA CTA CCA CAC GTC AC-3’ |
|  | TrypsinF740  TrypsinR1533 | 5’-GTA CAC CAC CGC GTG TAA TC-3’  5’-TGC ATA CTG GTT TGA CGT GC-3’ |
|  | TrypsinF861  TrypsinR1769 | 5’-TGT GAC AGC CCT CCT CCT AA-3’  5’-AAA TGG TCC ACC GCT GTC TC-3’ |
|  | TrypsinF1420  TrypsinR2122 | 5’-CAC AAG TTT GCA TGC ATC CC-3’  5’-TAT TGC TCC TCG GCC AGA TC-3’ |