

## SEP PCR Primers

### Plant GMO primer sets:

#### **CaMV 35S promoter (199 bp)**

Forward primer(2): ATTGTGCGTCATCCCTTACGT  
60-primer start, 21 nt primer length, Tm= 58°C

Reverse primer(2): GGAAAAGGAAGGTGGCTCCTA  
259-primer start, 21 nt primer length, Tm= 58°C

#### **Ara 1, Arabidopsis 18S rDNA gene (199 bp)**

Forward primer: TGACGGAGAATTAGGGTTCGA  
77- primer start, 21 nt-primer length, Tm= 58°C

Reverse primer: CTTGCCCTCCAATGGATCCT  
276-primer start, 20 nt- primer length, Tm = 60°C

### Human primer sets:

#### **D1S80, VNTRs (29 alleles, range is 200-700 bp)**

Forward primer: GAAACTGGCCTCCAAACACTGCCCGCCG  
28 nt – primer length, Tm = 68°C

Reverse primer: GTCTTGTTGGAGATGCACGTGCCCTTGC  
29 nt – primer length, Tm = 66°C

#### **PV92, Alu element on Hsa 16 (431 bp or 731 bp)**

Forward primer: GGATCTCAGGGTGGGTGGCAATGCT  
25 nt – primer length, Tm = 65°C

Reverse primer: GAAAGGCAAGCTACCAGAAGCCCCAA  
26 nt – primer length, Tm = 63°C

**TAS2R38, bitter taste allele (303 bp)**

Forward primer (f2): AACTGGCAGATTAAAGATCTCAATTTAT  
28 nt – primer length,  $T_m = 53^\circ\text{C}$

Reverse primer (r3): AACACAAACCATCACCCCTATTTT  
24 nt – primer length,  $T_m=55$

**Mussel primer set:**

**Me, adhesive protein gene (168 bp or 126 bp)**

Forward primer (Me15): CCAGTATACAAACCTGTGAAGA  
22 nt – primer length,  $T_m = 52^\circ\text{C}$

Reverse primer (Me16): TGTTGTCTTAATAGGTTTGTAAGA  
24 nt – primer length,  $T_m = 50^\circ\text{C}$