

Marker Name: GAR1

Linkage Group: III

Primer Sequences

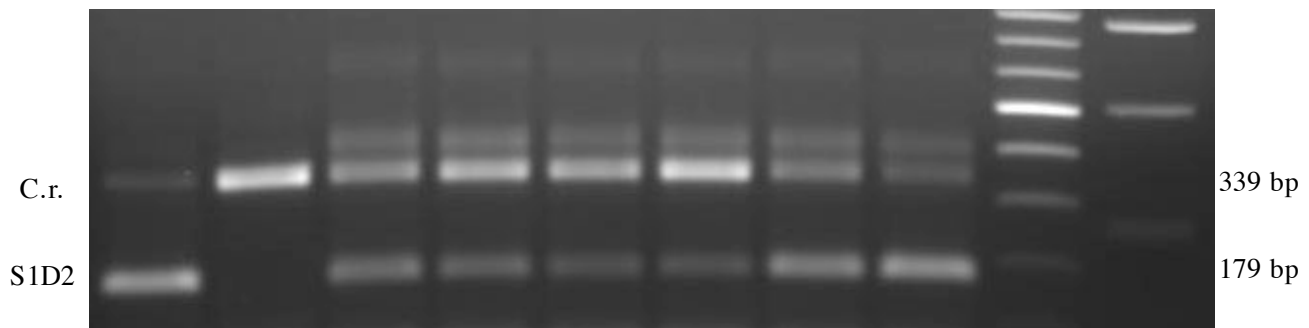
GAR1-R: GCAATGCGTTGGGTTACAAGCAGC

GAR1-F2: GCGAGCGGTACCGACTAGGCAGA

GAR1-F3: GCTGAATTGTGTACGGTGCACACGG

Recommended For: Single or Bulk Segregant Analysis

Samples run in a 1% agarose gel at ~110V for 1h30



| | | | | | | | | | | | |
|------------|------|---|---|---|---|---|---|---|---|------------|------|
| DNA | S1D2 | 1 | - | 1 | 1 | 1 | 1 | 2 | 5 | 100 bp | 1 kb |
| Mass Ratio | C.r. | - | 1 | 1 | 2 | 3 | 4 | 1 | 1 | MW markers | |

| | GAR1 |
|-------------|-------------|
| C.r. allele | 339 bp |
| S1D2 allele | 179 bp |

| PCR Reaction Mix (30 μ l reaction) | |
|--|--------------|
| Components | Amount |
| 80% Glycerol | 3.1 μ l |
| Formamide | 0.25 μ l |
| GoTaq Buffer | 7.0 μ l |
| GAR1-R (10 μ M) | 1.0 μ l |
| GAR1-F2 (10 μ M) | 1.0 μ l |
| GAR1-F3 (10 μ M) | 1.0 μ l |
| 10mM dNTPs | 0.5 μ l |
| H ₂ O | 15.0 μ l |
| DNA | 1.0 μ l |
| GoTaq DNA Poly | 0.25 μ l |

| PCR Program | | |
|--------------------|----------|----------|
| Temperature | Time | # Cycles |
| 94.0°C | 2 min | 1 |
| 94.0°C | 1 min | 40 |
| 61.0°C | 1 min | |
| 72.0°C | 1 min | |
| 72.0°C | 10 min | 1 |
| 4.0°C | ∞ | 1 |