# TGFB1 as a Susceptibility Gene for High Myopia

**A Replication Study With New Findings**

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## eTable. TGFB1 SNPs: Genotyping Methods, Primers, and Key Reaction Conditions for PCR

<table>
<thead>
<tr>
<th>SNP</th>
<th>Genotyping Method</th>
<th>Primer Names: Sequences (5'-3')^b</th>
<th>Magnesium Chloride Concentrations, mM</th>
<th>Primer Concentrations, pM</th>
<th>Tm, °C</th>
</tr>
</thead>
</table>
| rs1800469 (S1) | RFLP by HpyF3I | F: GCC CCA GTT TCC CTA TCT GTA  
R: ACA CAG GGG AGC CCA CCA | 2.5 | 0.1 | 59 |
| rs1800470 (S2) | RFLP by MspA1 | F: GCC TCC CCA CCA CAC CAG  
R: GCC GCA GCT TGG ACA GGA | 1.5 | 0.3 | 60 |
| rs2241716 (S3) | 2-Tube AS-PCR | FAS-G: GCC GGC AGG GCC GC ACC TAG ATG GTC CCT GAA G  
FAS-A: GCC GGC CAC CTA GAT GGT CCC TGA AA | 2.0 | 0.2 | 56 |
| rs4803455 (S4) | RFLP by TaqI | F: GCT CAC TGC AAC CTC TGT GT  
R: TGC AAA TTT GAC ACC CTG AAT TCT CA | 2.5 | 0.1 | 56 |
| rs11466345 (S5) | PE | F: GTG TTG GTG GTG TCT CAG  
R: GAC TTC TAG GAT TGT ATG GTT TGT G | 1.5 | 0.1 | 62 |
| rs12983047 (S6) | RFLP by Alu26I | F: GAG TGG GGA GCC AGG AGT T  
R: GAC CTC AAG TGA TCC ACC T | 2.5 | 0.1 | 59 |
| rs10417924 (S7) | PE | F: ACA AAC ACA GGG AGC TAA CAC G  
R: ATT GGT GGG TGA GAG AAA GCC | 2.5 | 0.1 | 56 |
| rs12981053 (S8) | Single-tube AS-PCR | RAS-C: GCC GGC AGG GCC GC TTC TGA GCA TGT TTG TCT ACG  
RAS-T: GCC GGC TAT TCT GAG CAT GTT TGT CTA CA  
Fc: CAC TGA GAA CCA GAC GTA T | 2.0 | 0.2 | 53 |

Abbreviations: AS-PCR, allele-specific polymerase chain reaction (PCR); PE, primer extension; RFLP, restriction fragment length polymorphism; SNP, single nucleotide polymorphism; Tm, annealing temperature.

^a The SNPs are listed in order from the 5' end to the 3' end of the TGFB1 gene and are also designated as S1 to S8 in this order for the sake of easy reference in the text.

^b Primer names are indicated before the colon. Names starting with F indicate forward primers; names with R, reverse primers.

^c For rs11466345, the primer for PE is 5' GCC AGG TAT GGT GCA TCA C 3'.

^d For rs10417924, the primer for PE is 5' GTG TGG TAT GGA TGG TCT TGT CT 3'.

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