

MK000057=CHS

Marker: CHS

Type: PCR

Description: PCR marker designed from [AF268382](#) Allium cepa chalcone synthase (CHS1) mRNA, partial cds

Reference: 1. M. Ipek, A. Ipek, S. G. Almquist, P. W. Simon Demonstration of linkage and development of the first low-density genetic map of garlic, based on AFLP markers Theor Appl Genet (2005) 110: 228–236

Primers: Allium-CHS-5-25'-GTG AAG CGC TTC ATG ATG TAC CA-3'
Allium-CHS-3-25'-GGA TGC GCT ATC CAA AAC ACC T-3'

PCR Reaction: 25 µl: [90 ng DNA; 0.8 µM each primer=20 pMol each; 0.03 U/µl Taq=0.75 U; 2? mM MgCl₂=50 nMol; 0.2 mM each dNTP=5 nMol]

PCR Program: 95°C 2:00; 35 cycles of {94°C 0:30; 58°C 1:00; 72°C 2:00}.

Screening Method: Product size by 6% denaturing polyacrylamide sequencing gels containing 7.5 M urea in 1× Tris-Borate (TBE), silver staining

Product Sizes:

Example:

Diagram of how it works:

Genbank reference:

Sequence Information:

Map Location: Map: MP1; [Linkage Group: ii](#); Position: 56 cm

Published Reference:

Other Information:

Primer Location (lab specific): Allium-CHS-5-2@Bx7:G6; Allium-CHS-3-2@Bx7:H6

PCR Program Name (lab specific):