

PCR for Tg-USP22

PCR REACTION:

10x taq buffer	5µl
genomic DNA	200ng
25mM MgCl ₂	4µl
10mM dNTP	1µl
primer F (from 10mM stock)	2µl
primer R (from 10mM stock)	2µl
Taq	1µl
Betaine 5M	10µl
H ₂ O	50µl total reaction

Forward: 5`-caa gtg tga cga tgc cat cat c-3`
(Tm: 56.1, GC: 52,6% | 2 duplexs DG:-6 | Hairpin DG:0.6)

Reverse 1: 5`-cag ctc cc tg tc tg cc ag-3` (A3975)
(Tm: 57.1, GC: 66.7% | 3 duplexw DG:-0.3, DG:-0.8 and DG: 1
Hairpin DG: -0.3, 0.8 and 1)

Reverse 2: 5`-cac tga agg gtc tgg tag g-3` (A3975)

PCR CONDITIONS:

- 1) 94.0, 5 min
 - 2) 94.0, 30 sec
 - 3) 56.0, 30sec
 - 4) 72.0, 30sec, back to step 2 for 35 cycles
 - 5) 72.0, 5 min (extension)
- END

PCR PRODUCT:

Band sizes with Rev1 primer or Rev2 primer at ~224bp or ~176bp respectively.