PCR: Stat1

Amplifluor: No

Primers

Nucleotide sequence (5` --> 3`)

Primer	Sequence
Stat1#1	TAATGTTTCATAGTTGGATATCAT
Stat1#2	GAGATAATTCACAAAATCAGAGAG
Stat1#3	CTGATCCAGGCAGGCGTT

Reagents

Reagents/Constituents	Commercial name	Stock Concentration	Volume (µL)
DNA Sample			2.0
10x Buffer		20.0 mM MgCl2	2.0
dNTPs		2.5 mM	1.0
Primer: **Stat1#1**		10.0 µM	
Primer: **Stat1#2**		10.0 µM	
Primer: **Stat1#3**		10.0 µM	
Water			11.0
Taq Polymerase			0.5
Reagent: 25mM MgCl2			2.0

Strategy

Steps	Temp (°C)	Time (seconds)
Hot start: **No**		
Initiation/Melting	95.0	300
Denaturation	95.0	45
Annealing	55.0	30
Elongation	72.0	90
Number of cycles (repeat denature, anneal & elgonate): **35**		
Strand completion (i.e. 72°C, 10 min)	72.0	600
Finish (i.e. 4°C, indefinite)	20.0	Hold

Electrophoresis

Running buffer:	
% Agarose:	2.0
Volt:	120.0
Estimated running time (min):	45.0

Bands

Number	Band (bp)	Genotype
1.	342	Mutant
2.	142	WT