PCR: LacZ

Amplifluor: No

Primers

Nucleotide sequence (5` --> 3`)

Primer	Sequence
LacZ-Forward	GGTAAACTGGCTCGGATTAGGG
LacZ-Reverse	TTGACTGTAGCGGCTGATGTTG

Reagents

Reagents/Constituents	Commercial name	Stock Concentration	Volume (µL)
DNA Sample		50.0 ng/µl	1.0
10x Buffer	PCR Mixture (Invitrogen kit, cat. no. 11508-017)	50.0 mM MgCl2	2.5
dNTPs		2.5 mM	2.0
Primer: **LacZ-Forward**		25.0 µM	
Primer: **LacZ-Reverse**		25.0 µM	
Water			15.25
Taq Polymerase	5 units/uL		0.5

Strategy

Steps	Temp (°C)	Time (seconds)
Hot start: **No**		
Initiation/Melting	98.0	60
Denaturation	96.0	30
Annealing	50.0	30
Elongation	72.0	30
Number of cycles (repeat denature, anneal & elgonate): **40**		
Strand completion (i.e. 72°C, 10 min)	72.0	2 minutes
Finish (i.e. 4°C, indefinite)	4.0	indefinite

Electrophoresis

Running buffer:	TBE
% Agarose:	1.5
Volt:	100.0
Estimated running time (min):	60.0

Bands

Number	Band (bp)	Genotype
1.	210	KO, Het +, WT -