

Genotyping protocol

General information:

Strain name	STOCK Grxcr1<pi-tde>/Cnbc
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Primers:

Name	Sequence	Primer type
Grxcr1 exon1_Fw	TTGATAGCCAAGGCACACTG	
Grxcr1 exon1_Rv	AGGAGAAGAGCGCAGAACAG	
Grxcr1 exon2_Fw	CACCTCAATGTTTTCTTCCA	
Grxcr1 exon2_Rv	ACGCAAAGGCAGTTTTCTTC	
Grxcr1 exon3_Fw	TCTTTTCTCCCTAACCTCTTG	
Grxcr1 exon3_Rv	GGCAGGTGGTACCCAATTAC	
Grxcr1 exon4_Fw	TTCTGTTTCTTGTCACCCTATCA	
Grxcr1 exon4_Rv	CAACAAAATTGATTGTAGCCAAA	

In case more than two primers are introduced, please indicate how they should be combined:

	Forward primer	Reverse primer
Grxcr1 exon1	Grxcr1 exon1_Fw	Grxcr1 exon1_Rv
Grxcr1 exon2	Grxcr1 exon2_Fw	Grxcr1 exon2_Rv
Grxcr1 exon3	Grxcr1 exon3_Fw	Grxcr1 exon3_Rv
Grxcr1 exon4	Grxcr1 exon4_Fw	Grxcr1 exon4_Rv

Reaction mix:

ddH ₂ O	18,5	μl
PCR Buffer 15mM MgCl ₂	2,5	μl
dNTPs 2,5mM	2,5	μl
Primer 100μM	0,125	μl
Primer 100μM	0,125	μl
Taq Polymerase 5U/μl	0,250	μl
DNA	1	μl
Final volume	25	μl

PCR program:

94 °C	2 min	X15
94 °C	30 sec	
64 °C	45 sec <i>decreasing by 0.5C per cycle</i>	
72 °C	45 sec	X20
94 °C	30 sec	
55 °C	45 sec	
72 °C	45 sec	
72 °C	7 min	

Expected fragment size:

Grxcr1 exon1	589 bp
Grxcr1 exon2	299 bp
Grxcr1 exon3	243 bp
Grxcr1 exon4	372 bp

Comments/Additonal information: