

MGPgenotyping@sanger.ac.uk www.sanger.ac.uk

Gene: 3110001I22Rik Colony prefix: MCSH

ESC clone ID: EPD0113 2 B01

Allele: 3110001122Rik^{tm1a(EUCOMM)Wtsi}

Allele type: Knockout First, Reporter-tagged insertion with conditional potential

Allele information:

Further information about the allele can be found on the 'International Mouse Phenotyping Consortium' (IMPC) web site at http://www.mousephenotype.org/martsearch ikmc project/martsearch/ikmc project/28411 Details on how to determine the floxed exon can be found at http://www.i-dcc.org/kb/entry/21/

Mouse QC information



Promoter-Driven Cassette shown for illustrative purposes

Southern Blot	na	TV Backbone Assay	na	5' LR-PCR	na
Loss of WT Allele (LOA) qPCR	na	Homozygous Loss of WT Allele (LOA) SR-PCR	na	Neo Count (qPCR)	na
LacZ SR-PCR	na	5' Cassette Integrity	na	Neo SR-PCR	na
Mutant Specific SR-PCR	na	LoxP Confirmation	na	3' LR-PCR	na
Genotyping Comment					

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Genotyping by end-point PCR

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PCRs primer pairs and expected size bands

Assay Type	Assay	Forward Primer	Reverse Primer	Expected Size Band (bp)
Standard PCR	Cassette	LacZ_2_small_F	LacZ_2_small_R	108
Standard PCR	Mutant	3110001l22Rik_46622_F	CAS_R1_Term	141
Standard PCR	Wildtype	3110001l22Rik_46622_F	3110001l22Rik_46622_R	402

Primer sequences

Primer Name	Primer Sequence (5' > 3')
3110001I22Rik_46622_F	AGGATTGCAGCATCAGGAGG
3110001l22Rik_46622_R	CCTCCCAGGTTGGTCTTGTC
CAS_R1_Term	TCGTGGTATCGTTATGCGCC
LacZ_2_small_F	ATCACGACGCGCTGTATC
LacZ_2_small_R	ACATCGGGCAAATAATATCG

Reaction setup

Reagent	μΙ
DNA (~50-100 ng)	1
10x Buffer	2
MgCl2 (50 mM)	0.6
Platinum Taq (Invitrogen)	0.2
dNTPs (100 mM)	0.2
Primer 1 (10 M)	0.4
Primer 2 (10 M)	0.4
ddH20	15.2
Total	20

Amplification conditions

Step	Conditions	Time
1	94°C	5 min
2	94°C	30 sec
3	58°C	30 sec
4	72°C	45 sec
5	Go to '2' + 34 cycles	-
6	72°C	5 min
7	12°C	forever

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The number of copies of the 3110001I22Rik allele can be detected using a FAM-labelled custom qPCR TaqMan® assay. These are multiplexed with a VIC® labelled endogenous control assay (for example TaqMan® Copy Number Reference Assay, Mouse, Tfrc; Applied Biosystems part #4458366). Reference DNA controls of known genotypes should also be included to facilitate correct analysis.

Primers for LoA qPCR assay

Primer type	Assay Name	Forward Primer Seq.	Reverse Primer Seq.	Probe Primer Seq.
LoA	3110001I22Rik_W	GCTAGGTCACGTGTATGATTCAA		ACAAATGAGCAAAATTAC
	T	GA	AATCGA	

Reaction setup

Reaction setup and amplification conditions are the same as those used for the neo cassette qPCR assay.

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Relevant publications

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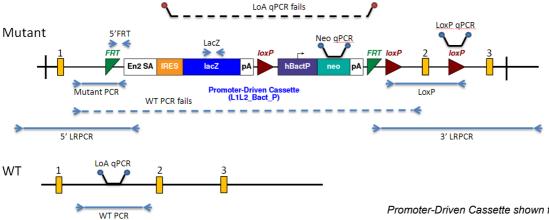
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Reaction setup

-	
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Primers for LoA qPCR assay

Primer type	Assay Name	Forward Primer Seq.	Reverse Primer Seq.	Probe Primer Seq.
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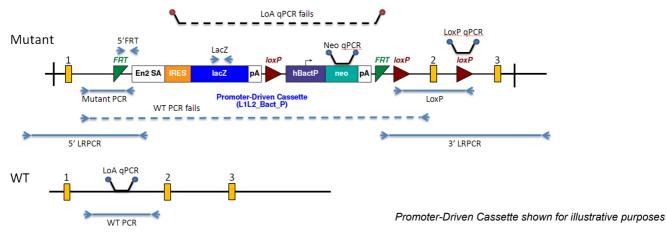
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Southern Blot TV Backbone Assay 5' LR-PCR na pass Loss of WT Allele Homozygous Loss of WT Neo Count (qPCR) na na pass Allele (LOA) SR-PCR (LOA) qPCR LacZ SR-PCR 5' Cassette Integrity Neo SR-PCR pass pass na Mutant Specific SR-LoxP Confirmation 3' LR-PCR pass pass na **PCR Genotyping Comment**

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LacZ_2_small_F	ATCACGACGCGCTGTATC	
LacZ_2_small_R	ACATCGGGCAAATAATATCG	

Reaction setup

Reagent	μl	
DNA (~50-100 ng)	1	
10x Buffer	2	
MgCl2 (50 mM)	0.6	
Platinum Taq (Invitrogen)	0.2	
dNTPs (100 mM)	0.2	
Primer 1 (10 M)	0.4	
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Step	Conditions	Time
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Primers for LoA qPCR assay

		•	,		
- 1	Primer type	Assav Name	Forward Primer Seg.	Reverse Primer Seg.	Probe Primer Sea.
- 1	i illiloi typo	Assay Haine	r or ward r rillion ocq.	rtovorso i innoi ocq.	r robe i illiloi ocq.
- 1					
- 1	LoA	3110001122Rik W	GCTAGGTCACGTGTATGATTCAA	ACTCTGTCTCAAAAAAAACAAAAAC	ACAAATGAGCAAAATTAC
- 1	2071	01100011 <u>22</u> 1 (III11	0017100107100101711071110711	, 10 10 10 10 10 10 10 10 10 10 10 10 10	71070011071007000111710
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