



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ256	Date of Submission:	10-10-04
Lexicon Contract Name:	DNA049	Mutation Type:	X Standard Knock out
LexVision Name:	MAS235N1		☐ Conditional
Reference accessions:	ENSMUST00000027706, AK039216	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __KOS1, KOS4, KOS26_____
X Target Vector DNA __KOS26-FTV_____
X Targeted ES Cell DNA __1A3_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	11/12	15/16
Restriction Enzyme for Genomic Digest:	PvuII	HindIII
Predicted Wild-type Band (kb):	3.7 kb	9.8 kb
Predicted Mutant Band (kb):	4.2 kb	11.1 kb
Probe Size:	152 bps	239 bps

PCR Strategies:*For standard knockouts, give wildtype and mutant-specific strategies**For conditionals, give 5' loxP and cre-excision strategies*

Wild type-specific (absent in targeted allele)		Mutation-specific product (absent in wt)	
5' Primer Name:	DNA049-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA049-6	3' Primer Name:	DNA049-6
Predicted Wild-type Band (bp):	330	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	241

5' loxP strategy		Distinguish Cre-excised and wt	
5' Primer Name:		5' Primer Name:	
3' Primer Name:		3' Primer Name:	
Predicted Wild-type Band (bp):		Predicted Wild-type Band (bp):	
Predicted mutant band (bp)		Predicted mutant band (bp)	

Primer sequences:**Southern probes**

11 5' – CTTTCCTCATCCGTTGGCATT
 12 5' – GGATAGTCTCGACGGCAGA
 15 5' – TGGAAC TTGGCAAGGGCTAGA
 16 5' – AGAATTGAGGGCTGCTAAAGG

PCR Genotyping

3 5' – CCCACCGCTACAACATTACCC
 6 5' – GCAGGACAAGGGGTGCAGAC
 Neo3a 5' –GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TCGTGGCTGCCCTCTTGCTATCTTGGGTGGCTGGTACCACCGCTGCAGCACCGGTGGTACCCTGGCGTGTGCCCTGCCCT
CCTCAGTGTGCCTGCCAGATCCGGCCCTGGTACACACCCCGCTCGTCTACCGTGAAGCCACCACTGTGCACTGCAATG
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GGGTGAGAAGC

Genomic Locus: (the deleted sequence represents nt 9,257-11,236 in the sequence below)

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[illegible]

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Selection Cassette:

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Targeted Locus:

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CTCCCACTCAGTCCGGTCACTGAATAGCAGCACATGAGATTGTA