



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ694	Date of Submission:	1.30.04.
Lexicon Contract Name:	DNA109	Mutation Type:	☒ Standard Knock out
LexVision Name:	PRT334N1		☐ Conditional
Reference accessions:	ENSMUST00000049251, BB575970	Is this gene X-linked?	No.

Required Materials: ☐ pKOS clone DNA(s) 10, 68
☐ Target Vector DNA 10-TV
☐ Targeted ES Cell DNA 2D4
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	14+15	16+17
Restriction Enzyme for Genomic Digest:	ApaLI	HpaI
Predicted Wild-type Band (kb):	9.2 kb	11.4 kb
Predicted Mutant Band (kb):	7.1 kb	9.6 kb
Probe Size:	193 bp	222 bp

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:	18	5' Primer Name:	Neo3A
3' Primer Name:	4	3' Primer Name:	10
Predicted Wild-type Band (bp):	350 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	257 bp

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**

DNA109-14 5' – GTCAGAAATGGAGACGAG
 DNA109-15 5' – CGTGTTCCCTCTTGTGTG
 DNA109-16 5' – CAGCTATAGAGGGCAAGC
 DNA109-17 5' – CCTGCCTTTCCCTTCATG

PCR Genotyping

DNA109-4 5' – TGGGAGTAAATGGGAAGGAGAAAC
 DNA109-10 5' – GCGATTCTCAGCTCAGAG
 DNA109-18 5' – ATACCGCTGAGCTGGTTTC
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TTGCCACAGACTTTCCTGAGCTGGTGAGCAGAGTGAAGATTGGAGAGACATTTGAAAAGCGGCCCATGTATGTTCTAA
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Genomic Locus: (the deleted sequence represents nt 5013-7189 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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AGCAGTCTTCATTCATTTCAGAAACACCCCAAACACGTCTTTTAAATGTCAATTCATTTGCGGGAGAACTAAGTAATT

[illegible]