



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2429	Date of Submission:	3-31-05
Lexicon Contract Name:	DNA191A	Mutation Type:	x Standard Knock out
LexVision Name:	MSC337N1		☐ Conditional
Reference accessions:	ENSMUST00000049242, NM_153542	Is this gene X-linked?	no

Required Materials: x pKOS clone DNA(s) __pKOS58_____
 x Target Vector DNA __DNA191A-TV58_____
 x Targeted ES Cell DNA __1A1_____
 x Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13 + 14	17 + 18
Restriction Enzyme for Genomic Digest:	XbaI	EcoRV
Predicted Wild-type Band (kb):	9.4 kb	14.7 kb
Predicted Mutant Band (kb):	8.1 kb	10.7 kb
Probe Size:	358 bp	265 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:	DNA191A-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA191A-2	3' Primer Name:	DNA191A-2
Predicted Wild-type Band (bp):	267	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	325

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**

DNA191A-13 5' – AGCTGAGCTGCGAAACCAG
 DNA191A-14 5' – CTCTGCAAAGGAGCCACTG
 DNA191A-17 5' – GCTTCTGGTGACCTTCCTC
 DNA191A-18 5' – TGTTTCTGAGACATAGGAGAC

PCR Genotyping

DNA191A-1 5' – GAACACCCACGTCTGCATGCT
 DNA191A-2 5' – GACCGAAGTGTAAGCTGGGAC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

CATGCTGAGGAAGATGGGGGAGGCCGTGGCCAGAGTTGCCAGGAAGGTCAATGAGACTGTGGAAAGCGGCTCAGATACCCTGGGTAAGTGAG

[illegible]

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Targeted Locus:

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[illegible]

[illegible]

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