



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2504	Date of Submission:	12.27.04
Lexicon Contract Name:	DNA149A	Mutation Type:	☒ Standard Knock out
LexVision Name:	MEM774N1		☐ Conditional
Reference accessions:	ENSMUST00000037539; AF358257, AK016443	Is this gene X-linked?	No

Required Materials:

- x pKOS clone DNA(s) __KOS88__
- x Target Vector DNA __TV88-2__
- x Targeted ES Cell DNA __1E7__
- x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	34 + 35	23 + 24
Restriction Enzyme for Genomic Digest:	HincII	XbaI
Predicted Wild-type Band (kb):	5.5 kb	8.5 kb
Predicted Mutant Band (kb):	6.6 kb	11.8 kb
Probe Size:	230 bp	257 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:	DNA149A-9	5' Primer Name:	Neo3a
3' Primer Name:	DNA149A -11	3' Primer Name:	DNA149A -14
Predicted Wild-type Band (bp):	361 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	288 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**

DNA149A-34 5' – CCGTGCATATTGTTTCATCC
 DNA149A-35 5' – ACACCATTACTCATCCTGC
 DNA149A-23 5' – CTCTCCTTCACTGCGAGAC
 DNA149A-24 5' – CTGTATCAACCAAGACTCCG

PCR Genotyping

DNA149A-9 5' – CTGCGCTGTTCTTAGGTCTG
 DNA149A-11 5' – GAAATCTGCCTAGGCTCTAG
 DNA149A-14 5' – CACCACCTAGATGCCAAG
 Neo3a 5' –GCAGCGCATCGCCTTCTATC

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[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

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