



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1897	Date of Submission:	10/22/04
Lexicon Contract Name:	DNA139A	Mutation Type:	☒ Standard Knock out
LexVision Name:	MEM559N1		☐ Conditional
Reference accessions:	AK008158	Is this gene X-linked?	NO

Required Materials: ☒ pKOS clone DNA(s) __pKOS-71_____
☒ Target Vector DNA __pKOS-71TVneo_____
☒ Targeted ES Cell DNA __2H10_____
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	1+2	17+18
Restriction Enzyme for Genomic Digest:	NheI	XbaI
Predicted Wild-type Band (kb):	9.1	6.1
Predicted Mutant Band (kb):	17.9	11.2
Probe Size (bp):	360	286

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:	24	5' Primer Name:	Neo3a
3' Primer Name:	6	3' Primer Name:	6
Predicted Wild-type Band (bp):	218	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	282

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**

- 1 5' – GCAGTTCCTTGTGTCCTCCGCTT
- 2 5' – CTCTCAGAAGCGTTTCCACAGCC
- 17 5' – GGAGGAGCCTGAATCAGAAG
- 18 5' – CCACCAGGTCACCTACGCTGC

PCR Genotyping

- 24 5' – GCCCAGTTCCAAGGATGAGCT
- 6 5' – CGCTGTGTATCCCCCTCTGCC
- neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GCACATGGAGCTCTCTGATGTCAACCTTCATTGAGGGTGTGGGTAACGAGGTGATGGTGGTAGCAGGCGTGGTGGCGCTGACTCTAGCCCTGGTCCTAGCC
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CAGTATGAATGAATAAAAAATCCATTTTGTGGCTATGGAGCCTC

Genomic Locus: (the deleted sequence represents nt 8930-10846 in the sequence below)

[illegible]

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Selection Cassette: IRESBGal-MC1Neo

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Targeted Locus:

[illegible]

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