



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1938	Date of Submission:	10-10-04
Lexicon Contract Name:	DNA286	Mutation Type:	X Standard Knock out
LexVision Name:	MEM743N1		☐ Conditional
Reference accessions:	ENSMUST00000027830, NM_029612	Is this gene X-linked?	NO

Required Materials: ☐ pKOS clone DNA(s) __ pKOS54_____
 ☐ Target Vector DNA __pKOS.54 TV_____
 ☐ Targeted ES Cell DNA __1A8_____
 ☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	9/10	11/12
Restriction Enzyme for Genomic Digest:	EcoR I	Bgl I
Predicted Wild-type Band (kb):	11.4 kb	6.8 kb
Predicted Mutant Band (kb):	8.0 kb	4.1 kb
Probe Size:	390 bp	380 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:	14	5' Primer Name:	Neo3A
3' Primer Name:	13	3' Primer Name:	13
Predicted Wild-type Band (bp):	310 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	216 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**

9 5' – AAATCTTCCTCTGAAGGCGG
 10 5' – TGGTTCTCCTGTTCTAGACG
 11 5' – GACTACTGAATCTGTCTCCG
 12 5' – TATCCATCATCCTCTGAGCC

PCR Genotyping

13 5' – AGAAAGAGGTAGTGTCCCAAGG
 14 5' – CTCTAACATCTCAGAGGAAGG
 neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

ACCCCTTACCAGCTTGTGTTTCCACAGCCTAGCCAGCTGACCAAGTCACTCTTCCCAGGCAAGAGCTGCCAATATGGGG
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Genomic Locus: (the deleted sequence represents nt-10001-12073 in the sequence below)

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[illegible]

[illegible]

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Selection Cassette:

GCTCTAGAGGCCATAGCGGCCATTTAAATGGCGCGCCGGATCCCGGGCCGCTCTAGCTAGACTAGTCTAGCTAGAGGA
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