



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2422	Date of Submission:	11.12.04
Lexicon Contract Name:	DNA332	Mutation Type:	X Standard Knock out
LexVision Name:	MEM722N1		☐ Conditional
Reference accessions:	NM_177648	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 7_____
 X Target Vector DNA __pTV 7neo_____
 X Targeted ES Cell DNA __1B5_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal#1</u>	<u>5' Internal#2</u>	<u>3' External</u>
Name of Probe:	10+11	10+11	12+13
Restriction Enzyme for Genomic Digest:	EcoRI	EcoRV	SacI
Predicted Wild-type Band (kb):	15.1	21	9.5
Predicted Mutant Band (kb):	7.2	15	8.4
Probe Size:	224 bps	224 bps	232 bps

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:	DNA332-4	5' Primer Name:	Neo3a
3' Primer Name:	DNA332-1	3' Primer Name:	DNA332-9
Predicted Wild-type Band (bp):	407	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	357

Primer sequences:**Southern probes**

DNA332-10 5' – CGGAATCAGAGGGTGCTAGA

DNA332-11 5' – CCTTTGAAGCTGCATCCTTG

DNA332-12 5' – GCTAGGTAGGTGTTCTCGCA

DNA332-13 5' – ATCTCCATCCAGCATTGGAC

PCR Genotyping

DNA332-1 5' – CCACACTGCAGCGTGGATGCTC

DNA332-4 5' – GGCTGTCAAGATGGCGCTGCC

DNA332-9 5' – TGTACTCTAGCCATGCTCTAC

Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TGACCCGACAGTGCCCTCCCCAGGAGCTGGGGGCTGCGCTGAGCGGGTCGGTGCTGGCGGAGGCTGCAGTGGTGTTCGCCGTGGTGTGAGCATCCAC
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AGAGATGGAAGCAGATTTTGCT

Genomic Locus: (The deleted sequence represents nt 7166-8875 in the sequence below. KOS7 used to generate the TV represents nt 2206-13721 in the contig below.)

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Selection Cassette: LacZ/Neo

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Targeted Locus:

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[illegible]

[illegible]

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