



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2486	Date of Submission:	7-1-04
Lexicon Contract Name:	DNA272	Mutation Type:	X Standard Knock out
LexVision Name:	MEM690N1		☐ Conditional
Reference accessions:	NM_133974	Is this gene X-linked?	NO

Required Materials:

- ☐ pKOS clone DNA(s) __pKOS 53, 76____
- ☐ Target Vector DNA __TV76____
- ☐ Targeted ES Cell DNA __2D6____
- ☐ 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:	Nhe1	HindIII
Predicted Wild-type Band (kb):	4.6 kb	8.1 kb
Predicted Mutant Band (kb):	9.7 kb	12.1 kb
Probe Size:	298 bp	195 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:	5	5' Primer Name:	Neo3A
3' Primer Name:	6	3' Primer Name:	13
Predicted Wild-type Band (bp):	387 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	486 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' – TTCCTCCATGTGAAGACGAC
 10 5' – TGCTTCGTGACAAGTTGAGC
 11 5' – CTGTGTATTGAGAAGCTGTG
 12 5' – AAACCTTATGTATGACCCTGCC

PCR Genotyping

5 5' – AGTACCTGAGCTGAGGCAG
 6 5' – CATCTAGGACTGTGCTACCA
 13 5' – CGGACAGCTAAAATGGTACC
 neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CGCAGACACAGGCCACAGTCTGTGCCCTAGGGAGACCGAGGCGCCCCCGAGTCATGGCCCACTCGGCCTGCGGGTTCT
CAGTCGCACTGCTGGGGGCCCTGCTGCTGGGCACAGCACGCCTGCTGCGCGGGACAGGTAAGAGCAACCTGTGGCCGG
CCAGGGAGGTGCCTGGAGGTGGCGCGTGTTCAGGGG

Genomic Locus: (the deleted sequence represents nt 6720-6911 in the sequence below)

TGGGCAAGAGGCTTTTACCTAATTACACAGCCACGTTATAGTTCAATTGTCAATTTGACCTACTACTGTAGTAATGGCTTCA
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[illegible]

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Selection Cassette:

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[illegible]

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