Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ218	**Date of Submission:**	9-29-04
Lexicon Contract Name:	DNA030	**Mutation Type:**	✓ Standard Knock out
LexVision Name:	MEM656N1		☐ Conditional
Reference accessions:	NM_019948	**Is this gene X-linked?**	No

Required Materials:
☐ pKOS clone DNA(s) KOS 82 and KOS92
☐ Target Vector DNA pKOS82.FTV.10
☐ Targeted ES Cell DNA 1B6
☐ Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	5' Internal	**3' External**
Name of Probe:	**1+2**	**15+16**
Restriction Enzyme for Genomic Digest:	**XbaI**	**EcoRV**
Predicted Wild-type Band (kb):	**7.9kb**	**8.6kb**
Predicted Mutant Band (kb):	**4.1kb**	**12.5kb**
Probe Size:	**396 bps**	**222 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:	DNA030-3	5' Primer Name:	DNA030-3
3' Primer Name:	DNA030-4	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	253bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	282bp

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
DNA030-1 5' – TGGCATGTTTGTCTGGAGTATC
DNA030-2 5' – TGATGAGCCAGATTTCCTATGT
DNA030-15 5' – GTAGCAAAAGCTGGGTGGTCGT
DNA030-16 5' – GGTGGATAATTCTGGGGTTGGG

PCR Genotyping
DNA030-3 5' – AAGAGGGCCAAGGATTCACC
DNA030-4 5' – TCAGCAAGAGCTCTGACCTTTC
GR-IRES 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

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Genomic Locus: ***(the deleted sequence represents 11,920 bps to 15,302 bps in the sequence below)***

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Selection Cassette:

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