



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2530	Date of Submission:	2-7-06
Lexicon Contract Name:	DNA383	Mutation Type:	x Standard Knock out
LexVision Name:	MEM769N1		☐ Conditional
Reference accessions:	NM_199221.2 BY748526	Is this gene X-linked?	no

Required Materials:

- x pKOS clone DNA(s) __pKOS-71_____
- x Target Vector DNA __pKOS-71 TVneo_____
- x Targeted ES Cell DNA __1D11_____
- x Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	20 + 21	Neo 2 + 5
Restriction Enzyme for Genomic Digest:	EcoRI	SpeI
Predicted Wild-type Band (kb):	22.2	---
Predicted Mutant Band (kb):	17.3	10.8
Probe Size:	504 bp	609 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:	DNA383-26	5' Primer Name:	Neo3a
3' Primer Name:	DNA383-25	3' Primer Name:	DNA383-25
Predicted Wild-type Band (bp):	386	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	374

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**

DNA383-20 5' – CTGTCAGTCCACCATG
 DNA383-21 5' – CTGATGAGATCAATTCTGGAC
 Neo-2 5' – CCTCAGAAGAACTCGTCAAG
 Neo-5 5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

DNA383-25 5' – GTGAGGTGCTGGTCATGCAG
 DNA383-26 5' – GTCACAGGACCTATTACATGC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CATCCAAGGCCACGACATTGGTGAGGGGTCAGAGCAGGGGTCAGTGA CTGTGCAATGTGCTATAGCTCAAGATGGCAAACCAACAAGAAGTGGTG
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Genomic Locus: *(The deleted sequence represents nt 18694 -22427 in the sequence below. KOS71 used to generate the TV represents nt 12709 – 24103 in the sequence below.)*

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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