



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1908	Date of Submission:	5-19-04
Lexicon Contract Name:	DNA018	Mutation Type:	X Standard Knock out
LexVision Name:	MEM644N1		☐ Conditional
Reference accessions:	ENSMUST00000032683	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __KOS37_____
 X Target Vector DNA __FTV37Neo_____
 X Targeted ES Cell DNA __1B4_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	15/16	7/9
Restriction Enzyme for Genomic Digest:	HindIII	HindIII
Predicted Wild-type Band (kb):	17.4	17.4
Predicted Mutant Band (kb):	8.9	11.0
Probe Size:	235bp	224bp

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:	1	5' Primer Name:	Neo3a
3' Primer Name:	2	3' Primer Name:	12
Predicted Wild-type Band (bp):	580	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	319

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**

DNA018-15 5' – GCCCTGGTCATTAGGTTT
 DNA018-16 5' – TGATAGCCTCAGGGACTTGTTG
 DNA018-7 5' – CCCAGGTTACCGCAGCC
 DNA018-9 5' – CCAGCCCTGCCTCCGACCTC

PCR Genotyping

DNA018-1 5' – GAGGCAGTGGAGGCAGCGGATG
 DNA018-2 5' – CTCTTCGGCCCATTTGGATTCA
 DNA018-12 5' – CAAGTCCACTCATTGCTTCC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

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Genomic Locus: (the deleted sequence represents nt 10440-12878 in the sequence below)

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Selection Cassette:

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