



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ238	Date of Submission:	12-9-04
Lexicon Contract Name:	DNA037	Mutation Type:	X Standard Knock out
LexVision Name:	SEC439N1		☐ Conditional
Reference accessions:	ENSMUSG00000030606	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __KOS 54_____
X Target Vector DNA __FTV 54 BGEO/PURO_____
X Targeted ES Cell DNA __3B11_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' internal</u>
Name of Probe:	16/17	24/25
Restriction Enzyme for Genomic Digest:	Hind III	Acc65 I
Predicted Wild-type Band (kb):	16.7	9.5
Predicted Mutant Band (kb):	7.3	7.9
Probe Size:	399	247

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:	9	5' Primer Name:	9
3' Primer Name:	10	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	392	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	424

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**

16 5' – ATGGAGAGTTACGATGTGGG
17 5' – TGCTGAATGAAGCTAGGTGC
24 5' – TGCTGGTTTGTTTGACCTT
25 5' – CTCTGGTTCCTGAAGCATT

PCR Genotyping

9 5' – TGTGTGCCAGCCACTCCGTTGA
10 5' – TCCCAGCCCAGAACTTGCATA
GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

CTGGCACTGCCACCATCTGGCCGGGATGAGCCTGCTGTTCCCTTGTCCTTCTCTCGCCACTTCCCTGCGTTTTGGGACTT
CCATTCTACAATGGCTTCTACTATTCCAATGGTCTGCGTGGCAGGACCCTGGGAAATGGCTACGGGGAAGGTGGGTGTC
TCATAGGCCTATGTCTGGCTTCTGCTGTGATATGCAAGTTCTGGGCTGGGATGGAGACAGCAGGATCTTCCTTGTTCCA
GGCCTCCAGAGGTGGACAACTTTGCTTCTAAGATGAGAGGAGATGGTTTAGAGTTTGCTGGTACCAAAGACTGAGTTC
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CGAGGTCATCGATGGCCTGGAAGATGAGAGTGGCCTGGTAGAGCTGGAGCTTCGGGGTGAGGC

Genomic Locus: (The deleted sequence represents nt11609-13488-in the sequence below. KOS54 used to generate the TV represents nt-7799-18664 in the sequence below.)

AGGCCATCCCCAGTGTGTCTGTCTTTACACCTTCTTGAAGAAGGCTCCAAGCTAGAACAAATGTTGTTTTTTCCTGTAGGT
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[illegible]

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Selection Cassette:

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Targeted Locus:

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