



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ15961	Date of Submission:	4/28/05
Lexicon Contract Name:	DNA366	Mutation Type:	X Standard Knock out
LexVision Name:	MEM751N1		☐ Conditional
Reference accessions:	XM_357051.2	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS-91_____
 X Target Vector DNA __pKOS-91TV_____
 X Targeted ES Cell DNA __1C1_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	4/5	14/15
Restriction Enzyme for Genomic Digest:	ApaLI	HpaI
Predicted Wild-type Band (kb):	10.0	9.1
Predicted Mutant Band (kb):	5.5	12.1
Probe Size (bp):	382	583

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:	8	5' Primer Name:	Neo3a
3' Primer Name:	9	3' Primer Name:	9
Predicted Wild-type Band (bp):	231	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	258

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**

4 5' – GGCTAGAAAACATAGTCACAATTCAC
 5 5' – GCATGTTGGTGTGGACTTACTAC
 14 5' – CTGGCCAATTAACACTCTCC
 15 5' – CTTGTGTTGACAGAGATGCC

PCR Genotyping

8 5' – CAGCTCACTGACTGCATTAGCTG
 9 5' – CATAATTCTATAATATATGAAGTCAGG
 neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TCACCATCTGAGGAGAAAGAGAAGGAACCATGTCATCATCTATAGACCCAAATGAAACTGTCTTACTGTCCTATCCATATAGACCTCATAGTTCTCTGCTG
GATTTCCCTTAAGGGGGAGCCAAAACCTTTTAGGGGTGAGTTCTGCTTATCATGGGTGTCATCCAGAGGGGAGAGAAGGTGTTAATCCTCCATGTTTGTCTA
CAGAGGTGGTGTGTCGAAGAAAATCGTATCCCAATGAGAAGAGTCACTACGTGCCACTTCCCTGGATTTTGATTAAAAAGAATGAGAAAACAAAAGAT
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GTCTGCCAGACACCCTCCCTTGAAGGACCATGTGTTGTGGCGAAACACTTCTCTTGTGAGTGATC

Genomic Locus: (The deleted sequence represents nt 6304-10822 in the sequence below. KOS91 used to generate the TV represents nt 4036-15351 in the sequence below.)

TGCACATGTGCACACACACATGCATGTGTACATACATGTCTGTAAATACATGTGCCTTGAGAGGCCAGAGGTGTCAGCTGCCCTTTATAAGAAGTTATG
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[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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[illegible]

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