



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2781	Date of Submission:	1-16-05
Lexicon Contract Name:	DNA388	Mutation Type:	X Standard Knock out
LexVision Name:	MAS265N1		☐ Conditional
Reference accessions:	NM_028069.1	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS13_____
 X Target Vector DNA __pKOS13TVneo_____
 X Targeted ES Cell DNA __1C8_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	10+11	17+18
Restriction Enzyme for Genomic Digest:	NheI	ApaLI
Predicted Wild-type Band (kb):	11.6	12.1
Predicted Mutant Band (kb):	13.8	5.8
Probe Size:	315 bp	471 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:	DNA388-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA388-4	3' Primer Name:	DNA388-4
Predicted Wild-type Band (bp):	398	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	498

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**

DNA388-10 5' – GTAACACCTGTAAGTGACACC
 DNA388-11 5' – GTCAGGCTAAGTGTTGAGTACC
 DNA388-17 5' – GGTGTCAGAGCGAGAACTGC
 DNA388-18 5' – CTGTGTTGAGTCACTTCTGG

PCR Genotyping

DNA388-3 5' – GCTATGTCTGCATTCATGCC
 DNA388-4 5' – GCACTGCTGGCCTCAGAGG
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TGGAACCAAGCAAGCTGGATCCTTCTTCCAGGTGACAGCTGCCGCCATGGGGGCTCCGGCCCTCCTGTGGCCTTCCCTG
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CAGGACAGGTGGGTGGCAGAGCTCTGATGAGGAACCAACTTCTTCTTTCCAACCTTTCTAGTCTGCTCTGTGAACCAGAC
CATATTTAGAGTCGAGGAGAACACCACTGTTTCTGAGCCACTGGTGAACATTTTTGTCCCAGACGGCCTGCACGTGACC
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Genomic Locus: *(The deleted sequence represents nt9157-12232 in the sequence below. pKOS13 represents nt 5897-13790 in the sequence below.)*

AGCTAAGGCAGGAGGATTGCAAGTTTCAGGGTGGTCTGGGCTGCCCAGGGAAACCCTGTGTGAAAATACAAAGCTCTG
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Selection Cassette:

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