



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3082	Date of Submission:	3.7.05
Lexicon Contract Name:	DNA338	Mutation Type:	X Standard Knock out
LexVision Name:	MEM727N1		☐ Conditional
Reference accessions:	AK030709	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 76_____
 X Target Vector DNA __DNA338.76.TV1 neo_____
 X Targeted ES Cell DNA __3A6_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	17/16	19/20
Restriction Enzyme for Genomic Digest:	StuI	HindIII
Predicted Wild-type Band (kb):	8.3 kb	10.6 kb
Predicted Mutant Band (kb):	11.6 kb	15.0 kb
Probe Size:	353 bp	406 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:	DNA338.23	5' Primer Name:	Neo3a
3' Primer Name:	DNA338.14	3' Primer Name:	DNA338.14
Predicted Wild-type Band (bp):	519 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	559 bp

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**

DNA338.17	5' – GGCAGCATGGACACATCTG
DNA338.16	5' – CATTCTCAAGTCTGACCCAG
DNA338.19	5' – CCATTTCAGCTGAGGTATG
DNA338.20	5' – GATACCTGTTCCAACCATTC

PCR Genotyping

DNA338.23	5' – CGCAGCCACCCTGGTAATG
DNA338.14	5' – GCCAGAATTAGGGAAGCTGG
Neo3a	5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GGACTTCTCCAAGTTCCTGGCTGACGACTTCGACGTGAAGGACTGGATTAATGCGGCCTTCAGAGCCGGCCCCAAAGACGGGGCGGGGGAAGGCG
GACGGTCACGCAGCCACCCTGGTAATGAAGTGCAGCTGTTCATCCAGGAGGTGAACACGCCGTGGAGGGTGAGCCACGCAGACGCCACCCGCC
GCCCCGGCACCCGACTGCAGGACCGGGCCCCAGGGG

Genomic Locus: (*The deleted sequence represents nt 9524 – 9753 in the sequence below. PKOS-76 used to generate the TV represents nt 8133 – 17506 in the sequence below.*)

AGCTTGGCCTCAAACCTCACTCTTCTGCTCCACCTCGAGTGTGGGAGTATAGGTGTGTGTATCACATCTCACCTAGATGAAGATAGTTGGCTCTGCT
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[illegible]

Selection Cassette:
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Targeted Locus:

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[illegible]

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