



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1929	Date of Submission:	10.13.04
Lexicon Contract Name:	DNA362	Mutation Type:	X Standard Knock out
LexVision Name:	ENZ780N1		☐ Conditional
Reference accessions:	XM_289695; AK038526; ENSMUST00000051400	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS 11, 36_____
X Target Vector DNA __TV11neo_____
X Targeted ES Cell DNA __2C1_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	18/19	20/21
Restriction Enzyme for Genomic Digest:	SpeI	BglII
Predicted Wild-type Band (kb):	(18+n) ~24.3	4.8
Predicted Mutant Band (kb):	9.5	9.9
Probe Size:	212 bps	203 bps

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:	DNA362-1	5' Primer Name:	Neo3a
3' Primer Name:	DNA362-3	3' Primer Name:	DNA362-4
Predicted Wild-type Band (bp):	168	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	388

Primer sequences:**Southern probes**

DNA362-18 5' – GGTACCAGAAAGTTCTGTGTTG

DNA362-19 5' – GGAAGGTGAAAGCAGTTGATG

DNA362-20 5' – CCATTGCTCTGCGGATACTG

DNA362-21 5' – GTGCTCAAGTCTGTACCTTAC

PCR Genotyping

DNA362-1 5' – CACTACCATATCCTCCACCC

DNA362-3 5' – GTCGCTGTCTCCGCAGGTAG

DNA362-4 5' – GACATACCAAGGCGACTGGAG

Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GATGGAGGCCTCCTGGCTGGAGACTCGTTGGGCGCGGCCCTTGCACCTGGCTTTGGTGTCTTGCCTGGCGCTGGTGTGATGCAGGCCATGAAGCTCTA
CCTGCGGAGACAGCGACTGCTGCGGACCTGAGCCCCCTCCCCGGGGCCTCCCGCCCACTGGCTCCTGGGACACCAGAAGGTAGATGGAGGGAGGGGG
GCAGCAGGATGCTGCCGAGGAAGCCAAT

Genomic Locus: (the deleted sequence represents nt 11128-11351 in the sequence below)

ATTGAGAGTTTGGCCGGGTATAGTAGCCTGGGCTGGCATTGTGTCTCTTAGTGTCTGTATAACATCTGTCCAGGCTCTTCTGGCTTTCATAGTCTCTG
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[illegible]

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AT

Selection Cassette: LacZ/Neo

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Targeted Locus:

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