



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ763	Date of Submission:	9/10/04
Lexicon Contract Name:	DNA001	Mutation Type:	X Standard Knock out
LexVision Name:	SEC488N1		☐ Conditional
Reference accessions:	ENSMUST00000030799, NM_022418	Is this gene X-linked?	NO

Required Materials: ☐ pKOS clone DNA(s) __pKOS-42, pKOS-65_____
☐ Target Vector DNA __pKSO-65TVneo_____
☐ Targeted ES Cell DNA __2B8_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	26/27	23/24
Restriction Enzyme for Genomic Digest:	ApaLI	ApaLI
Predicted Wild-type Band (kb):	12.8	12.8
Predicted Mutant Band (kb):	4.3	10.1
Probe Size:	508	564

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:	13	5' Primer Name:	Neo3a
3' Primer Name:	20	3' Primer Name:	7
Predicted Wild-type Band (bp):	534	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	300

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**

26 5' – TTGAAGACCTGCTAGGGCTAC
27 5' – ATTATACCACACGGCAACTC
23 5' – CTTAGCTAGGATGGCTCACG
24 5' – CCAACACAGCTTTGCTATCG

PCR Genotyping

13 5' – CTCCTTAAAAAGGTAAGCTGG
20 5' – GTACTGGATCTGGCAGTACC
7 5' – CAAAGCTGGGCTCCAGGGTAGTG
neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GGTGCCATGGCCTTGATTGAAGGCGTAGGCGATGAGGTGACTGTCTTTTGGCGGTGCTTGCTTGCCCTCTGGTGCTGGCCCTCGCCTGGGTCTCAACAC
ATACCAGTGAGAGTACAGACCCCAACACAGCCGCGGGGACCACAACACAGCACAGCCAGTGAAGCCATGTCAGCCTCTGACAGCATCAGAGA
GGAGGCCCCAGGCTGAGAGTCCCCAGCCTGAGACACAGAGGTCCATCTGTCACAGCCAGAGCCTGACACAGGGGTACAGAGCATCAACACCTCCAGAC
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GGTCCCCACATCCTCCTGCCACCGGGGTGAGAGCCGGCCCCCTCCGGGTGGAATCGGCAGCCTTCTGTTGCCCTGTCTGCTTCTGCTGCTGCTCC
TGCTCTGGTACTGCCAGATCCAGTACCGGCCCTTCTTTCCCTGACCGCTACCCTGGGTCTGGCCGGCTTACCCTGCTCCTCAGTCTCCTGGCCTTTGC
CATGTATCGGCCGTAGT

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

CTCTCCCTTCTCCACACACACACTGGTGGCTGCACACACACACACTGGTGGCTGTCCAGTAAATTGCTTCAGCCTCCTAAAAAGGCACGGGAAATCA
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[illegible]

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