



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2434	Date of Submission:	10/22/04
Lexicon Contract Name:	DNA041	Mutation Type:	☒ Standard Knock out
LexVision Name:	ENZ715N1		☐ Conditional
Reference accessions:	ENSMUST00000024859, AK002747	Is this gene X-linked?	no

Required Materials: ☒ pKOS clone DNA(s) __pKOS-6, pKOS-57_____
☒ Target Vector DNA __pKOS-57TVneo_____
☒ Targeted ES Cell DNA __2B4_____
☒ Genomic Map

Southern Blot Analysis: External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	15+16	13+14
Restriction Enzyme for Genomic Digest:	SpeI	ApaLI
Predicted Wild-type Band (kb):	23.2	8.5
Predicted Mutant Band (kb):	7.4	7.7
Probe Size (bp):	583	540

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:	1	5' Primer Name:	Neo3A
3' Primer Name:	3	3' Primer Name:	18
Predicted Wild-type Band (bp):	387	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	252

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**

15 5' – ACCCACAGTTAAGATCCAGG
 16 5' – GTGACTAACAGGAGAATTTCC
 13 5' – GGAGGTCAAAAAGTAGCTACC
 14 5' – TCGCTGCTCAAGCATGAG

PCR Genotyping

1 5' - GCTGCTCGAGTCAGTTTCC
 3 5' - AGATGGGCAGCGCCAAGC
 18 5' - CTGCATTTGAACCCTCAATCCCAG
 neo3A 5' - GCAGCGCATCGCCTTCTATCGCC

Genomic Sequence Deleted:

TCAGTTTCCCTCGCGGCAGCAGCGGGCAAAGGCAGCCGCGGCGCACAGCAGCATCGCAGCGGGCCGCCGCGGCTCTCCGTTTGGAGCGGGCGCCGGGCT
GAGCTGCCCTTCGTCCCTGCCCGCCGCGTCTCTAGTCTCCGGCGCCCCCTCGCCGCTCCGTTCCCGGCTGTGGCTTCTCTCCGAAGTCGGGCGGGGAG
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GCCCCAGGAGCGCTGCCAACAGAGAAGCAGGACAGGGGACCATTGCGCGCGCTGACTCGCCGCTTGGCGCTGCCCATCTTTGGGGTGCTTGGAT
CACCGTACTGCTGTTCTTCTGGGTACCAAGAGGAAGTTGGAGGTGCCGCTGGGACCCGAAGTCAGACACCCCAAGGTATGCCGTT

Genomic Locus: *(the deleted sequence represents nt 11805-12283 in the sequence below)*

[illegible]

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