



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ201	Date of Submission:	11-11-03
Lexicon Contract Name:	DNA025	Mutation Type:	X Standard Knock out
LexVision Name:	MSC270N1		☐ Conditional
Reference accessions:	ENSMUST00000035767 , AK027262	Is this gene X-linked?	no

Required Materials: X pKOS clone DNA(s) __pkos61_____
 X Target Vector DNA __DNA025-61 FTV_____
 X Targeted ES Cell DNA __1C6_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	25/22	32/33
Restriction Enzyme for Genomic Digest:	Bgl II	EcoRI
Predicted Wild-type Band (kb):	5.5	10.4
Predicted Mutant Band (kb):	12.7	5.4
Probe Size:	210 bp	375 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:	DNA025-20	5' Primer Name:	Neo3a
3' Primer Name:	DNA025-29	3' Primer Name:	DNA025-29
Predicted Wild-type Band (bp):	658	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	375

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**

DNA025-25	5' – GAACCCAGAGAGAGAATGAG
DNA025-22	5' – AGATTAGAAGCTCTGGCTCC
DNA025-32	5' – ACCAAAGCCACTTCCAGGAG
DNA025-33	5' – GCTTACCCATCAGGCTAATC

PCR Genotyping

DNA025-20	5' – GCAAGCACTTGGTCTCGGC
DNA025-29	5' – CCTGGCCTTCTGAAATCCTG
Neo3a	5' – GCAGCGCATCGCCTTCTATC

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[illegible]

[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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