



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ439	Date of Submission:	5.13. 04
Lexicon Contract Name:	DNA347	Mutation Type:	x Standard Knock out
LexVision Name:	ENZ775N1		☐ Conditional
Reference accessions:	ENSMUSESTT00000011405, ENSMUST00000049462, NM_026159	Is this gene X-linked?	No

Required Materials: x pKOS clone DNA(s) __KOS47, KOS86_____
x Target Vector DNA __TV47-1_____
x Targeted ES Cell DNA __1A10_____
x Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External/Internal</u>	<u>3' External/Internal</u>
Name of Probe:	13+14	Neo6/7
Restriction Enzyme for Genomic Digest:	EcoRI	XmnI
Predicted Wild-type Band (kb):	12.5	----
Predicted Mutant Band (kb):	9.7	8.6
Probe Size:	165bp	568bp

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:	DNA347-18	5' Primer Name:	Neo3a
3' Primer Name:	DNA347-19	3' Primer Name:	DNA347-10
Predicted Wild-type Band (bp):	232bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	289bp

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**

DNA347-13 5' – CTTGCTATGTAGCTGAGGCTTG
DNA347-14 5' – CTAGAGGTGCTCGCTCATGAG
Neo6 5' – ACAAGATGGATTGCACGCAGGT
Neo7 5' – CCAGCCGGCCACAGTCGATGAA

PCR Genotyping

DNA347-18 5' – CGGAATTTTCAGTACTGGCTAG
DNA347-19 5' – CGTTGAAAGGCAGACATGCTG
DNA347-10 5' – CATGGGTCAGACTTCTCAG
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CGAGCCCTGGCAGCAACATGTGGATCACTGCTCTGCTGCTGGCCGTGCTGCTGCTGGTGATCCTCCACAGGGTCTACGT
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Genomic Locus: (the deleted sequence represents nt 10138-14401-in the sequence below)

[illegible]

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Selection Cassette: lacZ/Neo

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