



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ839	Date of Submission:	11-7-04
Lexicon Contract Name:	DNA214	Mutation Type:	☒ Standard Knock out
LexVision Name:	ENZ767N1		☐ Conditional
Reference accessions:	NM_028710	Is this gene X-linked?	No

Required Materials:

- × pKOS clone DNA(s) __pKOS76__
- × Target Vector DNA __pKOS-ENZ767TV-76__
- × Targeted ES Cell DNA __2F5__
- × Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	3 + 4	9 + 10
Restriction Enzyme for Genomic Digest:	EcoRV	EcoRV
Predicted Wild-type Band (kb):	17.2	17.2
Predicted Mutant Band (kb):	10.9	10.8
Probe Size:	293bps	287bps

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:	DNA214-16	5' Primer Name:	Neo3a
3' Primer Name:	DNA214-15	3' Primer Name:	DNA214-15
Predicted Wild-type Band (bp):	305	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	433

Primer sequences:

Southern probes
DNA214-3 5' – CTTTGTCTTGGTTCACCTTTG
DNA214-4 5' – GAAGGCTGTTATTTGCTCTAG
DNA214-9 5' – ACAGATCTCCCCACATACCTG
DNA214-10 5' – GAGGCTGCCTTTCACGTAG

PCR Genotyping
DNA214-15 5' – GGAAGCGACATAGACTCATC
DNA214-16 5' – CTTGACAAGATGGCTTCCGAAG
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:
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[illegible]

[illegible]

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Targeted Locus:

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