



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2521	Date of Submission:	10/5/04
Lexicon Contract Name:	DNA045	Mutation Type:	☒ Standard Knock out
LexVision Name:	ENZ719N1		☐ Conditional
Reference accessions:	NM_138750	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) __ pKOS ENZ719-50_____
 ☒ Target Vector DNA __ pKOS ENZ719-TV50_____
 ☒ Targeted ES Cell DNA __2B8_____
 ☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	ENZ719-25/26	Neo2/5
Restriction Enzyme for Genomic Digest:	XmnI	Apal
Predicted Wild-type Band (kb):	16.3	-----
Predicted Mutant Band (kb):	9.0	7.4
Probe Size:	191 bp	609 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:	ENZ719-33	5' Primer Name:	Neo3a
3' Primer Name:	ENZ719-9	3' Primer Name:	ENZ719-9
Predicted Wild-type Band (bp):	519	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	276

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**

ENZ719-25 5' – GCTAAGCTCTCATCAGACAC
 ENZ719-26 5' – CATACATTTCCGCAGTCAGG
 Neo2 5' – CCTCAGAAGAACTCGTCAAG
 Neo5 5' – GGCAGCGCGGCTATCGTG

PCR Genotyping

ENZ719-33 5' – GCTGAGCAGTTCTCTGTGC
 ENZ719-9 5' –GATAATGGGTGGAGAAAGACTTGG
 Neo3a 5' –GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

ATGACGCGCTCACCCGGCCTCATGGTGCCCTGCTGGGCTGAGCCTGGGACTGGCCCTGAGCCTGCCCGAAGCTGTGACAGACGACTGCGGGTCCCT
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Genomic Locus: (the deleted sequence represents nt-9208-11357 in the sequence below)

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[illegible]

Selection Cassette:

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[illegible]

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