



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ8344	Date of Submission:	8/17/04
Lexicon Contract Name:	DNA124	Mutation Type:	☒ Standard Knock out
LexVision Name:	GPR720N1		☐ Conditional
Reference accessions:	ENSMUST00000026620, AK087951	Is this gene X-linked?	NO

Required Materials: ☒ pKOS clone DNA(s) __KOS84, KOS39_____
 ☒ Target Vector DNA __KOS39TV_____
 ☒ Targeted ES Cell DNA __1C9_____
 ☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External/Internal (overlaps end of clone)</u>
Name of Probe:	34/35	32/33
Restriction Enzyme for Genomic Digest:	HindIII	PstI
Predicted Wild-type Band (kb):	11.5 kb	11.7 kb
Predicted Mutant Band (kb):	8.6 kb	5 kb
Probe Size:	280 bp	231 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:	1	5' Primer Name:	Neo3a
3' Primer Name:	4	3' Primer Name:	36
Predicted Wild-type Band (bp):	384	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	383

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**

32 5' – GCAATCTGCTATGCAGTAG
 33 5' – ATCACATGCACCCAATTCC
 34 5' – CAATGCAGGGGAGGAAGAGA
 35 5' – GTGTGCCCATCTGTGACGC

PCR Genotyping

1 5' – CAATGACAACCAAGGCCAGC
 4 5' – GAACCTGACCTATTTAGAGG
 36 5' – ACACTGGCAATATACAGTGC
 neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GGCTAACAATTTCACTACCCCACTGGCAACGTCTCATGGCAATAACTGTGATCTCTATGCCACACAGCACAGCCAGG
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Genomic Locus: (the deleted sequence represents nt 11938-13110 -in the sequence below)

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Selection Cassette:

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Targeted Locus:

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