



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ655	Date of Submission:	11/18/03
Lexicon Contract Name:	DNA374	Mutation Type:	X Standard Knock out
LexVision Name:	PSC214N1		☐ Conditional
Reference accessions:	AV166990	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS38_____
X Target Vector DNA __KOS38TV_____
X Targeted ES Cell DNA __1A9_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	7+8	9+10
Restriction Enzyme for Genomic Digest:	BglI	BamHI
Predicted Wild-type Band (kb):	16.8 kb	14.6 kb
Predicted Mutant Band (kb):	7.8 kb	8.0 kb
Probe Size:	330 bp	232 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:	DNA374-13	5' Primer Name:	PuroJA
3' Primer Name:	DNA374-12	3' Primer Name:	DNA374-12
Predicted Wild-type Band (bp):	400 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	344 bp

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**

DNA374-7	5' – ACAGCCGTTTCATTAACCTCC
DNA374-8	5' – AGGACAACGATGGATGTGGG
DNA374-9	5' – ATGGCTCCTCATCCTCCAGG
DNA374-10	5' – ATAGCATGCCCAAGGTGCTG

PCR Genotyping

DNA374-12	5' –GGCGATGTGCTCTTTAAAGG
DNA374-13	5' –AGAAGCAGTCGATGCTGCAG
PuroJA	5' –GAGGAAATTGCATCGCATTGTCT

Genomic Sequence Deleted:

GGAGGTGGCTCGTAAAGCACTTGTGGCAGTTGCAGTGCTAGGCGGGGGAGCTGGCGTGGGTTCTATTCTGTTTGCTCTT
GTGACCCAGGAGAACTACAGAAGCAGTCGATGCTGCAGGTAACCAACCGGACTCCCCGAGCTGGGTGTGCGTGG
GACGAGCCCCTGTCTTTTCGCCCAGAATGCAAACATCCTTCTTGCCCGCAGGAGATGCCGGAAAGGGACTCGCGGCGC
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CTGGAGGAGAACTGGACAGTTAGCGGGGATGGCAGGTCAGCATGACACCAGAGCTCGCCCGTGGTCACGGGAA

**Genomic Locus: (The deleted sequence represents nt-8207 to 8591---in the sequence below. KOS 38 used to generate the TV
represents nt-3773 to 104773-- in the sequence below.)**

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Selection Cassette:

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Targeted Locus:

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