



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ564	Date of Submission:	11/1/03
Lexicon Contract Name:	DNA296	Mutation Type:	X Standard Knock out
LexVision Name:	PSC208N1		☐ Conditional
Reference accessions:	NM_172907	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __KOS9, KOS16, KOS71_____
 X Target Vector DNA __KOS9-FTV (Puro)_____
 X Targeted ES Cell DNA __2E11_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	13+14	15+16
Restriction Enzyme for Genomic Digest:	ApaL I	SacI
Predicted Wild-type Band (kb):	14.3	8.9
Predicted Mutant Band (kb):	11.9	5.4
Probe Size:	425 bp	369

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:	3	5' Primer Name:	20
3' Primer Name:	19	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	236	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	309

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**

DNA296-13	5' – TCTCTCCCTCAAATTCCCAG
DNA296-14	5' – CTTGCTCCAATCTTTCAGCC
DNA296-15	5' – AAGGAAGCATGGGAGTAACC
DNA296-16	5' – CAGCAACACTGGATTTGTGC

PCR Genotyping

DNA296-3	5' – TAGGCCTGCGATTGGACTG
DNA296-19	5' – TCTGCAGGCCTTACGTGTTCA
DNA296-20	5' – TTCCCCAACCCGTACA
GT-IRES	5' –CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

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CTTCTCCCATCCC

Genomic Locus: (the deleted sequence represents nt 12,138-16,004 in the sequence below)

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[illegible]

Selection Cassette:

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ATAG

Targeted Locus:

GAATTCTGTATACCTGGAGACCTAAAACCTCTACAAAGTCTTCCCAACCTTCTCTGTCAAAACTTCTCTGCTTTCCTTGGGGGCAACTGTGGACTGCAGCT
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