



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2782	Date of Submission:	2/2/05
Lexicon Contract Name:	DNA285	Mutation Type:	X Standard Knock out
LexVision Name:	PSC218N1		☐ Conditional
Reference accessions:	NM_146071	Is this gene X-linked?	NO

Required Materials: ☐ pKOS clone DNA(s) __KOS75, 70_____
☐ Target Vector DNA __70TVneo_____
☐ Targeted ES Cell DNA __1C9_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	15/16	13/14
Restriction Enzyme for Genomic Digest:	SpeI	HindIII
Predicted Wild-type Band (kb):	7.2	3.8
Predicted Mutant Band (kb):	5.0	7.9
Probe Size (bp):	525	518

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:	3	3' Primer Name:	9
Predicted Wild-type Band (bp):	345	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	277

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**

13 5' – TCAGTAGGCAGAATCCGAAAG
 14 5' – TCCTTGAATTGCGTGCTCAT
 15 5' – TGGCATGTAAACATTTTCGAT
 16 5' – AGAGCCTAGGAGTTAGCATGA

PCR Genotyping

1 5' – CTCCTGGAACCTACCCAGTCACAC
 3 5' – GCCAGCACACTCGTCTATTCTC
 9 5' – CACCAGGAGGTCATGAAATGCCAAG
 neo3a 5' – GCAGCGCATCGCCTTCTATC

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[illegible]

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Selection Cassette: LacZ/Neo

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[illegible]

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