



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ659	Date of Submission:	10/5/04
Lexicon Contract Name:	DNA300	Mutation Type:	X Standard Knock out
LexVision Name:	PSC210N1		☐ Conditional
Reference accessions:	NM_178594.2	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS/2_____
 X Target Vector DNA __DNA300-FTV1_____
 X Targeted ES Cell DNA __1B9_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	15 + 16	19 + 20
Restriction Enzyme for Genomic Digest:	Bam HI	HpaI
Predicted Wild-type Band (kb):	21.8 kb	19.5 kb
Predicted Mutant Band (kb):	17.0 kb	9.9 kb
Probe Size:	329 bp	534 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:	DNA300 - 28	5' Primer Name:	Neo3a
3' Primer Name:	DNA300 - 14	3' Primer Name:	DNA300 - 14
Predicted Wild-type Band (bp):	335 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	405 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**

DNA300 - 15	5' – GACAGCAAGTAAGACCCTGG
DNA300 -16	5' – CAAACTGAATGCATGTGGACC
DNA300 -19	5' – GGAGTCACATCTGTCATACC
DNA300 -20	5' – CCTGACACGCCTACATTACC

PCR Genotyping

DNA300 -28	5' – GGCAGATCATCTTTTGGAGG
DNA300 -14	5' – TGAACATCTCAGCTGAGTCC
Neo3a	5' – GCAGCGCATCGCCTTCTATC

ATGGCTTCCTTGGGCGAGATCATCTTTTGAGGTAATCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCCCTAAATTGAGAACA
GGGGTGG

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Selection Cassette:

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