



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ421	Date of Submission:	10.8.04
Lexicon Contract Name:	DNA076	Mutation Type:	X Standard Knock out
LexVision Name:	SEC455N1		☐ Conditional
Reference accessions:	NM_028783.2	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS12_____
 X Target Vector DNA __FTV.SEC455.12_____
 X Targeted ES Cell DNA __3C9_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	11/12	14/15
Restriction Enzyme for Genomic Digest:	Xmn1	Stu1
Predicted Wild-type Band (kb):	17 kb	11 kb
Predicted Mutant Band (kb):	12 kb	7.5 kb
Probe Size:	334 bp	448 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:	SEC455.2	5' Primer Name:	Neo3A
3' Primer Name:	SEC455.5	3' Primer Name:	SEC455.10
Predicted Wild-type Band (bp):	480 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	530 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**

SEC455.11 5' –GTGTAAGCAGGAGTATAGC
 SEC455.12 5' –GGAATTCTGGTCTCCTGGAG
 SEC455.14 5' –CTCCATGGACAGAGGTGCTG
 SEC455.15 5' – CCGTTGCCAGATCTTAAGGTC

PCR Genotyping

SEC455.2 5' – GCTGCTGCTTTTCATCATGG
 SEC455.5 5' –CCTGAAGTAGCTGGTCCTG
 SEC455.10 5' –GGATGATCGACATTCAC TGTC
 Neo3A 5' –GCAGCGCATCGCCTTCTATC

[illegible]

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Selection Cassette: IRES beta Gal MC1 Neo

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[illegible]

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