



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3030	Date of Submission:	3.9.05
Lexicon Contract Name:	DNA477	Mutation Type:	X Standard Knock out
LexVision Name:	SEC309N1		☐ Conditional
Reference accessions:	NM_146069.2	Is this gene X-linked?	NO

Required Materials: ☐ pKOS clone DNA(s) n/a
 X Target Vector DNA DNA477.FTV.PURO F6
 X Targeted ES Cell DNA 1D2
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	75+76	77+78
Restriction Enzyme for Genomic Digest:	EcoRV	XmaI
Predicted Wild-type Band (kb):	24.1 kb	27.7 kb
Predicted Mutant Band (kb):	12.0 kb	16.5 kb
Probe Size:	194 bp	186 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:	DNA477.73	5' Primer Name:	DNA477.73
3' Primer Name:	DNA477.79	3' Primer Name:	GT IRES
Predicted Wild-type Band (bp):	475 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	447 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**

DNA477.75	5' – GCCTTCCCAGGACTGTTGTTTAC
DNA477.76	5' – TGTCTATCACATCGGTTAGCTCTT
DNA477.77	5' – TGGGCTGAGAACAGATAAGA
DNA477.78	5' – TCCTTATTTGGCATTTAATCAGTA

PCR Genotyping

DNA477.73	5' – GCCTCTTACACAACCTTCATTGCAC
DNA477.79	5' – CGGCTGACTCCTTGTAAGTTC
GT IRES	5' – CCCTAGGAATGCTCGTCAAGA

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Selection Cassette: Beta Geo Puro

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Targeted Locus:

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[illegible]

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