



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2552	Date of Submission:	10-1-04
Lexicon Contract Name:	DNA295	Mutation Type:	X Standard Knock out
LexVision Name:	SEC529N1		☐ Conditional
Reference accessions:	AK077071	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS86____

☐ Target Vector DNA __FTV 86____

☐ Targeted ES Cell DNA __3C11____

☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	20+21	22+23
Restriction Enzyme for Genomic Digest:	EcoRI	BglII
Predicted Wild-type Band (kb):	14.8 kb	10.6 kb
Predicted Mutant Band (kb):	9 kb	19.5 kb
Probe Size:	229 bp	369 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:	DNA295-26	5' Primer Name:	DNA295-1
3' Primer Name:	DNA295-24	3' Primer Name:	IRES-GT
Predicted Wild-type Band (bp):	256 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	424 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**

DNA295-20 5' – AAACCGAATTTGACTATTGTAA
DNA295-21 5' – ATCTTGCGAACTGTATCATTAT
DNA295-22 5' – TGGCAGGCAGGCAGGCATAGAT
DNA295-23 5' – GGAGGGAGTGGGCAGTCATGT

PCR Genotyping

DNA295-24 5' – CCTGTACTCCAATCTTACCTCC
DNA295-26 5' – CATGTCCACACTACCTTCTGC
DNA295-1 5' – AAGGGAGCCCATACTACAGC
IRES-GT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

GGCCTGGAGATCTCTGCAGCTGCTGTACCTCTTAGAAGCCATCTCTTTACTGCCTTGTATGTCCTGCAGGGCTGGGTGCT
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Genomic Locus: (the deleted sequence represents nt13,098-15,250-in the sequence below)

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[illegible]

Selection Cassette:

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NN
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