



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1840	Date of Submission:	1-26-05
Lexicon Contract Name:	DNA356	Mutation Type:	X Standard Knock out
LexVision Name:	SEC577N1		☐ Conditional
Reference accessions:	ENSMUST00000044425	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS.DNA356.43_____
X Target Vector DNA __pKOS.DNA356.43 TV_____
X Targeted ES Cell DNA __1E7_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA356 17/18	DNA356 19/20
Restriction Enzyme for Genomic Digest:	Sca I	Bgl I
Predicted Wild-type Band (kb):	16.0	7.5
Predicted Mutant Band (kb):	20.0	6.7
Probe Size:	263 bp	276 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:	DNA356-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA356-7	3' Primer Name:	DNA356-16
Predicted Wild-type Band (bp):	211	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	316

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**

DNA356-17

5' – CTCGTGCATGCCAACAAGTCC

DNA356-18

5' – TCAGAGCACCCCCACAGAGAAG

DNA356-19

5' – CACAATTGACAGGGAAGACAGACT

DNA356-20

5' – TCGCCTCCAGAAAGCAAAGATG

PCR Genotyping

DNA356-3

5' –CTCCCCTGGGCTTGCTCCTGAT

DNA356-7

5' –GGTGCCCGCTACTCTTTGACTCG

DNA356-16

5' –GGTGCACTACCGGTACAACC

Neo3a

5' – GCAGCGCATCGCCTTCTATC

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[illegible]

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Selection Cassette: IRES-Bgal-MC1-Neo

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Targeted Locus:

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