



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ338	Date of Submission:	10/19/04
Lexicon Contract Name:	DNA348	Mutation Type:	X Standard Knock out
LexVision Name:	MSC340N1		☐ Conditional
Reference accessions:	ENSMUST00000030196	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __KOS 22 TV_____
 X Target Vector DNA __KOS 22_____
 X Targeted ES Cell DNA __1G8_____
 X Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA348-13/14	DNA-15/16
Restriction Enzyme for Genomic Digest:	Spe I	Spe I
Predicted Wild-type Band (kb):	24 kb	24 kb
Predicted Mutant Band (kb):	15 kb	14 kb
Probe Size:	312 bp	360 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:	DNA348-2	5' Primer Name:	neo3A
3' Primer Name:	DNA348-8	3' Primer Name:	DNA348-8
Predicted Wild-type Band (bp):	290 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	331 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

DNA348-15 5' – GTGGGGTTGGCAGGGAAGAAGT
DNA348-16 5' – CTGCCTGAGGGGGAGACAAAG
DNA348-13 5' – CCCTTGGAGCCAGAAATAGAT
DNA348-14 5' – TTCCAGGCAACAGAGGTAACAGT

PCR Genotyping

DNA348-2 5' – CCCCATCGTCTCCACCACCACA
DNA348-8 5' – CAGCCCTGCTCGAAGCTCAAGCCC
Neo3A 5' – GCAGCGCATCGCCTTCTATC

TGTTAGGCCTTCTGGGGAACACGACCTTGTGTGCTGGATCACGGGCACAGCACTGGCGTTTTTGTATGTTGCTGTGGCTGATGGCCCTCTGCCTTTTCCA
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[illegible]

[illegible]

Selection Cassette: LacZneo

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[illegible]

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