



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3056	Date of Submission:	8-18-04
Lexicon Contract Name:	DNA344	Mutation Type:	X Standard Knock out
LexVision Name:	MAS253N1		☐ Conditional
Reference accessions:	NM_145826	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __KOS 83_____
X Target Vector DNA __FTV 83__PURO_____
X Targeted ES Cell DNA __1F10_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	17/18	15/16
Restriction Enzyme for Genomic Digest:	BamHI	NheI
Predicted Wild-type Band (kb):	10.3	6.5
Predicted Mutant Band (kb):	4.2	12.6
Probe Size:	477 bp	342 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:	DNA344-3	5' Primer Name:	IRESGT
3' Primer Name:	DNA344-2	3' Primer Name:	DNA344-9
Predicted Wild-type Band (bp):	320 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	411 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**

DNA344-17 5' – AGAATAAGGGAATTTGGGCTAATC
 DNA344-18 5' – TGGGCTTTCTCACCGTACC
 DNA344-15 5' – TCCCATCATTTTCAGGCAAGGTTC
 DNA344-16 5' – CTGATGTCAACCCCAAGCATCC

PCR Genotyping

DNA344-2 5' – GCTAGTCATCCAAGGTTAATCAA
 DNA344-3 5' – TCTCCCATCCTGGACTGTGA
 DNA344-9 5' – TTCGCTGCTGTTTCCTCGGCTCT
 IRESGT 5' - CCCTAGGAATGCTCGTCAAGA

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