



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ9166	Date of Submission:	1-16-06
Lexicon Contract Name:	DNA343	Mutation Type:	X Standard Knock out
LexVision Name:	MEM735N1		☐ Conditional
Reference accessions:	NM_145463	Is this gene X-linked?	NO

Required Materials:

X pKOS clone DNA(s)	<u>KOS21</u>
X Target Vector DNA	<u>FTV 21 PURO</u>
X Targeted ES Cell DNA	<u>1A11, 1C6</u>
X Genomic Map	

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	15/16	11/12
Restriction Enzyme for Genomic Digest:	Nhe I	Acc I
Predicted Wild-type Band (kb):	12.2	3.2
Predicted Mutant Band (kb):	14.2	5.7
Probe Size:	224	300

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:	1	5' Primer Name:	F
3' Primer Name:	2	3' Primer Name:	GTIRES
Predicted Wild-type Band (bp):	496	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	350

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**

DNA343-15 5' – GGAACATGACCCAACGTGA

DNA343-16 5' – GGTGATCACCAGTACTGT

DNA343-11 5' – CATCTCCACAGCAGCGTGTC

DNA343-12 5' – CGGAGTTCAAGATCGCTTCT

PCR Genotyping

DNA343-1 5' – GAGCCATGAGGACCGAGCA

DNA343-2 5' – GGTGGAAGGTGAGCAGCGTC

DNA343-F 5' – CTCCGGACTCTGATGCTGAAACG

GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

GAAACGTTTCTTCTGTGATGCCCTGTGAAGGCCGAACCTAGCAGGGACGTGGTCACTCGCAAGGAGGGATGACTTAG
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Genomic Locus: *(The deleted sequence represents nt-8011-12369--in the sequence below. KOS 21 used to generate the TV represents nt-3900-13987- in the sequence below.)*

[illegible]

[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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