



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ536	Date of Submission:	11-11-04
Lexicon Contract Name:	DNA324	Mutation Type:	X Standard Knock out
LexVision Name:	MEM764N1		☐ Conditional
Reference accessions:	NM_029537	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS13_____
X Target Vector DNA __pKOS13 TV_____
X Targeted ES Cell DNA __1H6_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	11+15	13+14
Restriction Enzyme for Genomic Digest:	EcoRV	Bgl I
Predicted Wild-type Band (kb):	16.4 kb	7.3 kb
Predicted Mutant Band (kb):	14.5 kb	3.3 kb
Probe Size:	401 bp	288 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:	DNA324-3	5' Primer Name:	Neo3A
3' Primer Name:	DNA324-4	3' Primer Name:	DNA324-4
Predicted Wild-type Band (bp):	279 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	230 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**

DNA324-11 5' – AAAGCCAGTGTAGGACTACC
 DNA324-15 5' – CTTGTCCACTGTTGTTTCC
 DNA324-13 5' – TGCAATGGTCCCTTGTTAGC
 DNA324-14 5' – CTAAGTACAGGCTGTGTTCC

PCR Genotyping

DNA324-3 5' – GTGAGAAGAGGTTTCAGTCG
 DNA324-4 5' – GTCCAGTGGAGTGTTCTGT
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CCCCCTGGAAGCATGGAGACTGTGGTGATCGTCGCCATAGGTGTGCTGGCCACCATTTTCCTGGCCTCATTTGCTGCTTT
GGTGGTGGTCTGTAGGCAGCGTTACTGCCGGCCTCGAGACCTACTACAGCGTTATGATTCCAAGTGAGTAGACTGTGAT
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TCGTCATCACCAACCCCCACATCGAGGCCATCCTGGAGAATGAGGACTGGATCGAAGATGCCTCGTAAGGCCACAGGA
AGCTTC

Genomic Locus: *(The deleted sequence represents nt 10001-11824 in the sequence below. KOS13 used to generate the TV represents nt 3754-13159 in the sequence below.)*

GGATGTGGCACTAAACTAGAATGAGCGAGGCAGGCTGGGCAATCTGTCTGTAGAGCGCTCCCAGCAGTCATTTTAAAA
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Selection Cassette:

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