



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1909	Date of Submission:	1-19-06
Lexicon Contract Name:	DNA468	Mutation Type:	X Standard Knock out
LexVision Name:	SEC545N1		☐ Conditional
Reference accessions:	NM_178612	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS18_____
 X Target Vector DNA __pKOS18FTVpuro_____
 X Targeted ES Cell DNA __1A11_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	16+17	18+19
Restriction Enzyme for Genomic Digest:	BamHI	PstI
Predicted Wild-type Band (kb):	7.9 kb	4.4 kb
Predicted Mutant Band (kb):	5.0 kb	6.3 kb
Probe Size:	277 bp	345 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:	DNA468-3	5' Primer Name:	DNA468-21
3' Primer Name:	DNA468-4	3' Primer Name:	GT Int
Predicted Wild-type Band (bp):	282 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	436 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**

DNA468-16 5' – AACTCAGTCGCTGGACAAGG
 DNA468-17 5' – TCGGGATGGCCTCAAACCTG
 DNA468-18 5' – GGATTACGCCGTGGTTCAGG
 DNA468-19 5' – CCCACCAGATCTTAAAGTGG

PCR Genotyping

DNA468-3 5' – TTTCATCCTGGCAGCGTACG
 DNA468-4 5' – GCCACCTGGGAAATGTAGTG
 DNA468-21 5' -- CTGTCAGGACCTTCAGAAGGC
 GT Int 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

GTGTGGACTGCGTTTTATCATGGGACCTGTGCGGCTGGAGATACTGCTTTTCATCCTGGCAGCGTACGGTGCTTGGGCT
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Genomic Locus: *(The deleted sequence represents nt10054-13502 in th sequence below. pKOS18 represents nt 8245-16285 in the sequence below.)*

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Selection Cassette:

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