



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ9128	Date of Submission:	1-12-05
Lexicon Contract Name:	DNA450	Mutation Type:	X Standard Knock out
LexVision Name:	MEM781N1		☐ Conditional
Reference accessions:	NM_027209	Is this gene X-linked?	No

Required Materials: ✓ pKOS clone DNA(s) __pKOS10____
 ✓ Target Vector DNA __DNA450 TV ____
 ✓ Targeted ES Cell DNA __ 2F4____
 ✓ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	DNA450-9/10	DNA450-15/16
Restriction Enzyme for Genomic Digest:	NcoI	HpaI
Predicted Wild-type Band (kb):	4.4 kb	14.7 kb
Predicted Mutant Band (kb):	4.8 kb	10.6 kb
Probe Size:	346 bp	300 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:	DNA450-7	5' Primer Name:	DNA450-7
3' Primer Name:	DNA450-19	3' Primer Name:	IRES GT
Predicted Wild-type Band (bp):	446 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	356 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**

DNA450-9 5' –CACTCTGTTTCTGGGACTGAG
 DNA450-10 5' – GAAGTCCTGGAGTCCTAAG
 DNA450-15 5' – CTGACTCAGTCACACCGAC
 DNA450-16 5' – ACCTTCTACCCCATCACCTAC

PCR Genotyping

DNA450-7 5' – GAAATGTAAATCAACCAAGC
 DNA450-19 5' – GCCAATTTTAGAAGGTTTTAGTGATGTAAG
 IRESGT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

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Genomic Locus: (the deleted sequence represents nt 10002 – 13666 in the sequence below; KOS 10 used to generate the target vector represents nt 7632 – 18122)

[illegible]

[illegible]

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Targeted Locus:

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[illegible]

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