



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ5893	Date of Submission:	1-24-05
Lexicon Contract Name:	DNA503	Mutation Type:	X Standard Knock out
LexVision Name:	MEM798N1		☐ Conditional
Reference accessions:	XM_129596, AK017911	Is this gene X-linked?	No

Required Materials: ☐ pKOS clone DNA(s) __pKOS6, pKOS54_____
☐ Target Vector DNA __KOS6TV_____
☐ Targeted ES Cell DNA __1B8_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	39+40	18+19
Restriction Enzyme for Genomic Digest:	BamHI	SphI
Predicted Wild-type Band (kb):	2.6 kb	5.8 kb
Predicted Mutant Band (kb):	2.3 kb	5.2 kb
Probe Size:	346 bp	319 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:	DNA503-43	5' Primer Name:	Neo3A
3' Primer Name:	DNA503-17	3' Primer Name:	DNA503-17
Predicted Wild-type Band (bp):	224 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	330 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**

DNA503-39 5' – GGTATTTCCCTCCTAGTTCAG
 DNA503-40 5' – GGACAGTCAGGGAACCATC
 DNA503-18 5' – GGACTAGTTACCTGTTTCGCTCC
 DNA503-19 5' – GGGCAGATGTGGGTCTAATC

PCR Genotyping

DNA503-43 5' – AGACCCTGCATCTCAAGGTGT
 DNA503-17 5' – GCTTTGAGAGGTGCTCACCTG
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TCCTGGTTTGCTGAGGGAGTCTTCCAAGGGAGGACGACGGCCATGTGGTCCCTCTGGAGTCTTCTTCTCTTTGAAGGTA
AGTGGGGCAGATGGACAACCTGTCCCTCGGGGAGCTGAAAGCCTCTCCCCAGCTGCCTTCATCCTACTGCTAGGCAGCTT
GCCTCTCCAAACCAAGTAAGAATCAAGGAGAGAAGGGGAAGTGAGGTGTGGAGCAAGCTCAAGCGGTGTCTTAGACA
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Genomic Locus: *(The deleted sequence represents nt2388-4955-in the sequence below. KOS6 used to generate the TV represents nt 126-8664 in the sequence below.)*

CAGTTCCCAACTATTTTGTCCGCCACATCAGCATGAAGAGGGAGATTGAGTTATTGATCCCATCCCTCAGGTAAGCAC
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Selection Cassette:

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[illegible]

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