



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ826	Date of Submission:	11-8-04
Lexicon Contract Name:	DNA122	Mutation Type:	X Standard Knock out
LexVision Name:	MAS219N1		☐ Conditional
Reference accessions:	AF356506	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS 80____

☐ Target Vector DNA __FTV 80____

☐ Targeted ES Cell DNA __1D7____

☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	11+12	13+14
Restriction Enzyme for Genomic Digest:	HindIII	Acc65I
Predicted Wild-type Band (kb):	24.6 kb	13 kb
Predicted Mutant Band (kb):	10.9 kb	10 kb
Probe Size:	341 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:	DNA122-6	5' Primer Name:	DNA122-6
3' Primer Name:	DNA122-18	3' Primer Name:	IRES GT
Predicted Wild-type Band (bp):	279 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	325 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**

DNA122-11 5' – TCTACCATCTTCCCAGATGGTC
 DNA122-12 5' – GAGACATGCATCCTTTCTCTGG
 DNA122-13 5' – GCCTTACTGATGTATTGCAAGG
 DNA122-14 5' – CAGGTTTAATGGTACTGATGGG

PCR Genotyping

DNA122-6 5' – TTCTTCCTAAGAGTCCAGAGG
 DNA122-18 5' – CATAGGGCTGTATTTAAGGCC
 IRES GT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

TTCTATCCACTCCTGGCAGCTGGATCAGAACGATGCCTCTGTCCCTGCTGCTCACCTGCCTCTCCACCACAGTCACCTTG
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ACAAAAAAGACAAAAACAAAAACAGTCATTCAACCTACATGGATATATATACCCACCCAGAGAATTTTTGTTCGTG
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Genomic Locus: *(The deleted sequence represents nt10,972-14,176-in the sequence below. KOS80 used to generate the TV represents nt 6562-16433 in the sequence below.)*

GCTTGTTAGGAAAAGAATTACATGTTGAAAACCGTAGGCCAGGAACTGAACCCGAGTGTGTCCTGCCCCAAGCTTCC
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[illegible]

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GAA

Selection Cassette:

GAACAACGGAGAACTGTCGTTACACCGGGAATCGGCTGCTCTAGAGGGCATAGCGGGCCGGATCCTCGAGGCGCGCCGG
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