



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3036	Date of Submission:	10-19-05
Lexicon Contract Name:	DNA513	Mutation Type:	X Standard Knock out
LexVision Name:	SEC634N1		☐ Conditional
Reference accessions:	NM_145369	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS56_____
X Target Vector DNA __pKOS56TV_____
X Targeted ES Cell DNA __2F11_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' Internal</u>	<u>3' External</u>
Name of Probe:	Neo2 + Neo5	16 + 17
Restriction Enzyme for Genomic Digest:	NheI	EcoRV
Predicted Wild-type Band (kb):	-	8.8
Predicted Mutant Band (kb):	17.5	12.7
Probe Size:	609 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:	DNA513-wf	5' Primer Name:	DNA513-F
3' Primer Name:	DNA513-wr	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	119 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	290 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**

Neo 2 5' – CCTCAGAAGAACTCGTCAAG
 Neo 5 5' – GGCAGCGCGGCTATCGTG
 DNA513-16 5' – TTAAGATCGGGATCGGACCTG
 DNA513-17 5' – CCTTGGAGCCCTGGGTTGTGC

PCR Genotyping

DNA513-wf 5' – TGGCTTACGATCTATGGCTCTGC
 DNA513-wr 5' – CAGAAGGTCACAACTGTCTCTGG
 DNA513-F 5' – TGAGCTGTGTCTAGCTAAGTGACG
 GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

GGGGTTGCCACCAGACGATGGACTCTGCAACCAGAATACTCCTCCTGATCAGTGCTTGAATGACAAACAGTGTCCCTC
TTCTTGGAAGTGCTGTCGCCGAGCCTGCTTCCTCCAGTGTATGCCTCGTGTCTTTGGTAAGTGCCCTCCCCACTGTGCCA
ACACCCAAACCTCAAGCAAGCCCCAGGACTGGTGGGCACAACCAGACTCAACCAAGCCCCTGTGTTGCAGTAAAGTCG
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Genomic Locus: *(The deleted sequence represents nt13871-15129 -in the sequence below. KOS56 used to generate the TV represents nt 8254-19589 in the sequence below.)*

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[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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