



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ162	Date of Submission:	10-11-05
Lexicon Contract Name:	DNA007	Mutation Type:	X Standard Knock out
LexVision Name:	SEC444N1		☐ Conditional
Reference accessions:	NM_028333	Is this gene X-linked?	No

Required Materials:

pKOS clone DNA(s) ☐ Not available _____
 X Target Vector DNA ☐ TVScrambler _____
 X Targeted ES Cell DNA ☐ 1D3 _____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	23+24	19+20
Restriction Enzyme for Genomic Digest:	BamHI	BamHI
Predicted Wild-type Band (kb):	17.4	17.4
Predicted Mutant Band (kb):	12.5	4.1
Probe Size:	585 bp	537 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:	DNA007-31	5' Primer Name:	Neo3b
3' Primer Name:	DNA007-2	3' Primer Name:	DNA007-2
Predicted Wild-type Band (bp):	207	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	354

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**

DNA007-23 5' – CAGAGTTGCACTCTCTGTAG
 DNA007-24 5' – GGTGTCAGAAGGCACAACAC
 DNA007-19 5' – GAGACCGAACGAATGAGTAC
 DNA007-20 5' – CTATAACTATACCTACTGTAGC

PCR Genotyping

DNA007-31 5' – GGATCTTGTCATAAACCAGTCTGTGAC
 DNA007-2 5' – GGTGGCATTACGTCTCTGG
 Neo3b 5' – GGTGTGGCGGACCGCTATCAGGAC

Genomic Sequence Deleted:

CCCCGTGCTACTGATGGGAAAGAGGAAGCAAAGAAATGTTTCATATACATTCTTGGTACCTGAACAAAAAATAACAGGG
CCAATCTGTGTCAACACCAAAGGTCAGGATGCAGGCACTATTAAGGACATGATCACCAGGATGGACCTGGAGAACCTC
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ATCACTGTATTGGAAGAGCAGTGCCTGAGGATGTTTTCCCGACAAGACCCCCACGCGTCTCCCCCTCTTGTCCAGGTGG
TAC

Genomic Locus: (The deleted sequence represents nt14683-15232-in the sequence below. TVScrambler represents nt 12274-17338 in the sequence below.)

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[illegible]

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Selection Cassette:

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