



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ3046	Date of Submission:	10-10-05
Lexicon Contract Name:	DNA307	Mutation Type:	X Standard Knock out
LexVision Name:	PSC213N1		☐ Conditional
Reference accessions:	NM_027055	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS6, pKOS77_____
 X Target Vector DNA __pKOS77TV_____
 X Targeted ES Cell DNA __1F4_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	15+16	7+8
Restriction Enzyme for Genomic Digest:	Bgl II	HindIII
Predicted Wild-type Band (kb):	12.7	8.7
Predicted Mutant Band (kb):	17.6	9.8
Probe Size:	348 bp	215 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:	DNA307-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA307-4	3' Primer Name:	DNA307-4
Predicted Wild-type Band (bp):	254	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	335

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**

DNA307-15 5' – TCATGTGAAGCCTCTAGATTGC

DNA307-16 5' – CTCAGCCTTGTTGGATGTCC

DNA307-7 5' – GGCTGCCCTTCTAGGAGACC

DNA307-8 5' –GACCTGGGTGATGAGTCATGC

PCR Genotyping

DNA307-3 5' – GCTTCAATACTGGCTGTGAC

DNA307-4 5' –GTCAATGTGGAAAGATGTGCG

Neo3a 5' –GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

GAAGCCCCGGCCTGGCTTGGGTGCTATCCACGCCGCCAGGCCACCATGGTCCTTGGCTGGCCACTGCTTCTGGTGTTG
GTTCTTTGCCAGGTGTGACAGGCATCAAGGACTGCGTCTTCTGTGAGCTGACTGACTCCGCTCGGTGCCCTGGCACAC
ACATGCGCTGTGGGGATGACGAAGATTGCTTCACAGGCCACGGAGTAGCCAGGGTGTGGGGCCCATCATCAACAAAG
GCTGCGTGCACTCCACCAGCTGTGGCCGCGAGGAACCCATCAGCTACATGGGCCTCACATACAGTCTCACCACCACCTG
CTGTTCTGGCCACCTTTGCAATAGGGGCGCTGGCCTTTCCACAGGGGCTACCAGCCTGTCAGTGGGTCTGCAGCTGCTC
CTGGGCCTGTTGCTGCTGCTTCAATACTGGCTGTGACTCACAAGAACTGCAGGGCCTAGGGCTGTGCCCGGGCTTCCG
CCTTCATCCCTTTCC

Genomic Locus: *(The deleted sequence represents nt11710-12197-in the sequence below. KOS77 used to generate the TV represents nt 8254-16984 in the sequence below.)*

[illegible]

CGAGAACCAAGAGAAGAACTTCCCTIGTTTATACCTATATGAGGAGCTGCAGCAGGTTCTGCTGGTGTCTGCCCTTGGCCCTCCTC
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Selection Cassette:

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Targeted Locus:

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