



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ647	Date of Submission:	1-10-05
Lexicon Contract Name:	DNA100	Mutation Type:	X Standard Knock out
LexVision Name:	PSC206N1		☐ Conditional
Reference accessions:	ENSMUST00000024880, AK013193	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS36, pKOS82_____
X Target Vector DNA __pKOS82.TV_____
X Targeted ES Cell DNA __1C8_____
X Genomic Map

Southern Blot Analysis: External/Internal Probe Strategies

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	25+26	27+28
Restriction Enzyme for Genomic Digest:	Xmn I	Pst I
Predicted Wild-type Band (kb):	8.9 kb	12.2 kb
Predicted Mutant Band (kb):	5.0 kb	10.3 kb
Probe Size:	308 bp	293 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:	DNA100-12	5' Primer Name:	DNA100-10
3' Primer Name:	DNA100-11	3' Primer Name:	Ires-GT
Predicted Wild-type Band (bp):	267 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	413 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**

DNA100-25 5' – CATGTGAAGCGATGAACAGC
DNA100-26 5' – TCTGGGACCAGCTCTTTGG
DNA100-27 5' – CCTGTTTCTATGGAACAGGG
DNA100-28 5' – TGGGTATCTCTATTTTACGGC

PCR Genotyping

DNA100-10 5' – TTGCTACGTCTTTAGCCTCG
DNA100-11 5' – CTTTTGCTGGCTAATTGCAGC
DNA100-12 5' – TGACCTCATTCTGTGTTCCC
Ires-GT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

GATCAACTGCGATGTCAAAGCTGGAAAGATCATCAATCCTGAGTTCATGGTGAAATGTCCAGCGGGCTGCCAGGACCC
CAAATACCATGTTTACGGCACTGGCGTCTACGCGTCTTACTCCAGCGTGTGTGGCGCCGCAGTTCACAGGTGGGTGGCT
ATG

Genomic Locus: (the deleted sequence represents nt 9998-10157--in the sequence below).

KOS82 used to generate the TV represents nt 8145-15274 in the sequence below.)

GACTCTGTTGAAATAGGCTCAACTTGCGGTGAAATGTATAACCTTTAACTCGTTGCATCCGCTCCAATCAGTTAATCCTA
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[illegible]

[illegible]

[illegible]

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Selection Cassette:

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Targeted Locus:

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