



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ717	Date of Submission:	3-24-05
Lexicon Contract Name:	DNA426A	Mutation Type:	X Standard Knock out
LexVision Name:	TRA350N1		☐ Conditional
Reference accessions:	NM_023596	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS9, pKOS12, pKOS40, pKOS91_____
X Target Vector DNA __pKOS12TV_____
X Targeted ES Cell DNA __2D8_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	15+16	17+19
Restriction Enzyme for Genomic Digest:	Bgl II	XmnI
Predicted Wild-type Band (kb):	11.2 kb	7.3 kb
Predicted Mutant Band (kb):	15.2 kb	11.9 kb
Probe Size:	358 bp	812 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:	DNA426-5	5' Primer Name:	PuroJA
3' Primer Name:	DNA426-6	3' Primer Name:	DNA426-22
Predicted Wild-type Band (bp):	415 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	284 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**

DNA426-15 5' – GAGATATGGGTGTTTGGGTAT
 DNA426-16 5' – TCAAGGGAGTCCATCGG
 DNA426-17 5' – AGGATACAGATCATCCATAGG
 DNA426-19 5' – AATGAGTAAGTCCTGACTCCA

PCR Genotyping

DNA426-5 5' – GCCAGAGGATCGCTTCA
 DNA426-6 5' – GACAACAGCAGGCAATCTAAA
 DNA426-22 5' – ATGCAAATGGCCTCCCTCAAGTACC
 PuroJA 5' – GAGGAAATTGCATCGCATTGTCT

Genomic Sequence Deleted:

GGTGGAGGTAGACAGCGGCACGCACAGTAAGTGCGGGTGCAGCGGCCCCCATGCTTGGCTGGGTCTTCCCTTCCCGAGG
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GTAAGGGCTGTTTCCCTCACAGGGGAGAGGGGAGC

Genomic Locus: *(The deleted sequence represents nt12055-14461 in the sequence below. KOS12 used to generate the TV represents nt 9497-20154 in the sequence below.)*

CAAAC T G C T T T T T C C T G T C C A C A A G C A G A G A G G G A A G A T T A G G G G A G T G G G G G T G G G G G G T G G G G G A T G A G C C T C A G A G T C A G C G A G A C T C A G G T A G T G A G A G A G C A A A A C A G T A A G G G C A A A G A A A G A C C C A G T T T C T T A G G G A A C G C A A A T G A T T T A T T A T C C A G A T A C T T G G A T A G T T C C T T T T T A A G A A A A C A A A A C A A A A A A A A G T A A G A A A A G G A A A A A A A A A C C T T T T A T C C T T G A A T G T G G C T A A G A G T G G C T A T G C T T G T G A T T T G G G C C A T A G G C G A G T G C A C T T G T G G A C A C A T G T G T G T G T G G G T G T G G T C A A T A A G A G A C T G C A C A G G G A A A G G C T T T G C T A T G T C A A G G C C T C A G T T T C C C C A G C T G T G C A G G G A G C T G A G A C A G G G T T T T A G C C A T G G C C C T G A G T T C T A A A G T C A C A A G C A G A A G C T G G G G C C T G G T G G C C T T C G T C C T C T C C G G A G C C C C C T G C A G G T G C C C T T C T G T G G C C T C C T C T G G C T T T G G A G G G T C C A G C T G T G G T T C T G G G A G A C T G T T C A G G T C T G T T T G G T G A T T C C T G G T C T C G T G A T G G C C A A A A C T C T T A C T G A G A G G G A G G G G G T G T T C C A G G G A G G G C T C T C C C T G G G T G A G G C T G G G T G G C T C T G T G T C T A A G C T G G C A C T A G C C G G T C T G C A C C C C T G T G C C T C T A G C C A T C A T T T A C C C G C T G A T C T C C C T A C T G G G G T C A G G A G A T A T G A A G G T A A C T A A G T A G A C A G C T G T A T A C C C A C T C T T G A C C A C A G C G C A T T C T G G G A T G T T C C A T G G G G C C A G T G G A A G G G A T G A A T T C T T G T C C C T T T C A G C C C A C G G G C A G T G A C A G G G A C T A G G A T C A C T G G T A T T G A T C C T A T T G A G A T G C T G A C T T C C C T G A A C T G C C C T T G A C C A G C C T G A A A G C T T T G A A A G T T G G G G C C T C T G T G A G G A G G C A G G T T T C A T G G C C A C A G A C C C A G C A A G C A T C T C T G C C C T G G T T T T C C T G A A G T G G G G C T C T G A G A C A G A C C A A G G T G C C C C T G G C A T C T A G G T G A A C A G T G C C T C A T A G A G T A G T C C T C A G C T C C T C C T G C C A A A G A T G C T C A T C C C T G T G G G C A T A C T C T C A C T G G T C A C T G T T A G C C C G C A C A T A G A A G G G G G A A G C C A A G G T G G A G C T G T G C T G T G T G A C T T C A G G C A C A T A A C T G C T T T C T C T G G G C T T A A G T G T C C T T T T A T C C T G G G A T G C T C C A C G A G G C C C C T T G G G T T C C C A C G C T T C T C T G A G A A T C G A G T A G A G A C A A G T T G A T T G T G G T C T G C A T G C T C T C C T T T G C C C G T C C T C G G A A A C C T G C C T G T C T G G G A C C T G A G G G A G C A C T A G T G A G C A A G T C C C A G C T T A C A G T C C C A C T C T T A C T T A G A A G G T G C T C A G C A T C T G G G C A C A G A A G C T A G A G C T G G A G C T G G A G C T G G G T A G G G T C T A A C C A G A C A G C C C A G G T A A G G T C A A G C C A A C T G A C C T G A G C C A G A C A G G G C T G T T G G G T T G G G T T T C C A T T C C T G C C T C C A A T G A G A T G A A G C C T C T C C C C T C C C A T T C C T A G C A G C T T G G C G T T G C T G G G T C C T G C A G G G T A T T T C T G T G T C A T C T T G G G T A G T A T G T G T G T T T G G G A G C A T G T G T G T G T G T G T G T G T G T G T G T G T G T G T G T G C A T G C C T G T G C T T T T C A A C T T G G C A C A T C A G G G C A C C C

[illegible]

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[illegible]

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Selection Cassette:

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Targeted Locus:

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