



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2543	Date of Submission:	1-19-05
Lexicon Contract Name:	DNA262	Mutation Type:	X Standard Knock out
LexVision Name:	SEC498N1		☐ Conditional
Reference accessions:	NM_153528	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS25_____
 X Target Vector DNA __KOS25TV_____
 X Targeted ES Cell DNA __1C11_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	18+19	20+21
Restriction Enzyme for Genomic Digest:	EcoRI	EcoRI
Predicted Wild-type Band (kb):	11.6 kb	11.6 kb
Predicted Mutant Band (kb):	2.0 kb	8.6 kb
Probe Size:	257 bp	176 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:	DNA262-3	5' Primer Name:	DNA262-1
3' Primer Name:	DNA262-7	3' Primer Name:	IRESUP-LR
Predicted Wild-type Band (bp):	802 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	395 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**

DNA262-18	5' – TTCCAGCCCATTAGCACATG
DNA262-19	5' – AGTAACAGACTGGTCTCCGG
DNA262-20	5' – ACACAGAGCAGTACTAGTGG
DNA262-21	5' –CTGCACAGCTAACTCATGCG

PCR Genotyping

DNA262-3	5' –TGCCTTCTGGTGCCCAATGG
DNA262-7	5' –CAAACAGCTCATCTTTCCCC
DNA262-1	5' –AGGGAGACAAATAGGCCAGG
IRESUP-LR	5' – TGGAAAATAACATATAGACAAACGCACACC

Genomic Sequence Deleted:

GGAACACTTGTATCAGTTGAAGAAAATGTGCAGCCAAGGTACAGTGAAGCAACGTAGAGTGTCAAGGTGCATTATGG
CCCATCACAGTGGGATCATTGTAGGTCGTTTCAGTTCTGAATTTCTTTGAACTCATCGTTTGGTGCGGTTTGCCTCTTGT
TGGTAGAGTGCAAGTTGGGAGAGAAGAGACTCATTGCTAAGTTGGTAAGCACGTGTGGGACGTGAAGAAAATGTTAGA
GATGAGGCTATGACTCTTAGAATTTACTACTAGAAAAGCCTTTTTATTAAGGATCTGGAGCAGGGGCTGGTGAGATCTCA
CAGGAGACACTAGAGCAATTTGAGGGTTAGGGTGGTTTCATGACTTTTCTCCTCAAAGTCTCCCTAGCACCGTGGCATGTG
TCCCACATTTCAGTAGACACCGATCACCTTAGTCAAAGGAGCTGACCGTGCCGTGGGGGATGCAAGCAATGGTAATGTC
AGGGTCATGTGCTGCTATAGTGTGATAAAGAAAATAGTAGAGAGATTATTTGGACAGCTGTTCATTAAGAAGTGTGAAT
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AGTGTCAAAAGCTTGGGATGTTTGGCTGTCTCTAAGTAGCAGAGGTTACATAGGGATAGTATGTGCTGTTCTTC

Genomic Locus: (The deleted sequence represents nt-4243 to 7963---in the sequence below. KOS 25 used to generate the TV represents nt-3435 to 12116-- in the sequence below.)

CGTGTGTGCCACCCACACTAGTTGACAGGAGGGTGTGGGACCCTTCAGTGTACCTTGGTAAAGCCATTAGACGTTAGT
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AGAGTCATCGAGTAATCGAGACGTCACCTTAACTTTGCAGTGACGAAAGCCATGCCGAATGCCTCACCTGAAGAGCT
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[illegible]

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Selection Cassette:

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Targeted Locus:

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