



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ738	Date of Submission:	1-19-04
Lexicon Contract Name:	DNA260	Mutation Type:	X Standard Knock out
LexVision Name:	MEM682N1		☐ Conditional
Reference accessions:	NM_026384	Is this gene X-linked?	No

Required Materials: ☐ pKOS clone DNA(s) __pKOS4, pKOS10, pKOS44_____
☐ Target Vector DNA __KOS4TV_____
☐ Targeted ES Cell DNA __2B6_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	24+25	20+21
Restriction Enzyme for Genomic Digest:	HpaI	HpaI
Predicted Wild-type Band (kb):	18.6 kb	18.6 kb
Predicted Mutant Band (kb):	10.3 kb	14.0 kb
Probe Size:	431 bp	360 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:	DNA260-1	5' Primer Name:	DNA260-9
3' Primer Name:	DNA260-2	3' Primer Name:	IRES-GT
Predicted Wild-type Band (bp):	449 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	430 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**

DNA260-24 5' – TAGGCTGGGAGTTAAGATTGC
 DNA260-25 5' – TGGGTGGAAGGGGATTC
 DNA260-20 5' – TCCATTCTGGGCATAGGAACC
 DNA260-21 5' – CTGTGGGCCTACTGTAGTGCT

PCR Genotyping

DNA260-1 5' – CCTCATCGCCGCCTAC
 DNA260-2 5' –GGTAACCAGCCGAGCTAAGCA
 DNA260-9 5' –TTTCTGCTCATCTAGGGTGCC
 IRES-GT 5' –CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

TGAAGACCTCATCGCCGCTACTCCGGGGTCTGCGGGGTGAGCGTCGGGCGGAAGCTGCCCCGAGCGAAAACAAGA
ATAAAGGATCTGCCCTGTCACGCGAGGGGTCTGGGCGATGGGGTGAGTGTCA

Genomic Locus: *(The deleted sequence represents nt9144-9273 in the sequence below. KOS4 used to generate the TV
represents nt 4600-16145 in the sequence below.)*

ACTTCTGGTCCCAAGTGGGGTGAGGTAACTATCTGAAAACAAACCTGGGCTAGCTAACTGAGTTCAAATTTCCCCTGAG
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Selection Cassette:

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Targeted Locus:

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[illegible]

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