



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2784	Date of Submission:	
Lexicon Contract Name:	DNA363	Mutation Type:	X Standard Knock out
LexVision Name:	MSC342N1		☐ Conditional
Reference accessions:	NM_199222.1 ENSMUST00000050502;	Is this gene X-linked?	NO

Required Materials: X pKOS clone DNA(s) __pKOS 57_____
 X Target Vector DNA __TV 57Bgeo_____
 X Targeted ES Cell DNA __1E6_____
 X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' Internal</u>
Name of Probe:	27/28	29/30
Restriction Enzyme for Genomic Digest:	EcoRI	XbaI
Predicted Wild-type Band (kb):	18.6 (actual~ 12 kb)	9.9 kb
Predicted Mutant Band (kb):	6.2 kb	7.6 kb
Probe Size:	366 bp	188 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:	DNA363-1	5' Primer Name:	DNA363-25
3' Primer Name:	DNA363-11	3' Primer Name:	GT-IRES
Predicted Wild-type Band (bp):	171	Predicted Wild-type Band (bp):	None
Predicted mutant band (bp)	none	Predicted mutant band (bp)	434

Primer sequences:**Southern probes**

DNA363-27 5' – GAGTGGAACAGGAACTGAGTC
DNA363-28 5' – GGTGATCTGAGAGGAAATACC
DNA363-29 5' – GATGGCAAGACCTGTTGC
DNA363-30 5' – CTGCTTAAGGACTCATCCAC

PCR Genotyping

DNA363-1 5' – GCTCAGACCTATTGTCACCTC
DNA363-11 5' – GAAGTACAAGTGGTTGATAAGC
DNA363-25 5' – CTGGGTATCACTCAGCTGG
GT-IRES 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

GGCTTAGAGGAAGTGC GGCTGGTTCCATCCATGAAGAACCGGAGCGGTGCCGTGTGGAGCAACATCTCTGTCTCCTTCCCTTCTGGGAGGTAGAGAT
GCAGATGAGAGTGACTGGACCAAGCGCGGGGAGCCAGGGGTGGTGAGTGGTCTTACTCATATCTGTGGGGAAGCAGGATGATAGGACACAGG
TACCAGTGTCTCTACAGAGACCGTGACCTGTGGGGTGCAAACCTTGCAAGGCCATGTGGTACACCAAGGACAGGGCTCAAGTCGGCTGTGTTAGAGGAG
CTAGCCTCATGGGATGGCATCGGGATCTACTTTGATTCTCCACCAGTGATGTCCAGGTGGGTAGCCATCTCTGCTCATCTCTTGCCTGCCTGTCTTA
ACCCTCACTATCTTCACTCTGCGCTGCGGCTCAGACCTATTGTACCTCCACGCAGGACAGCCCTGTCTATCCGAGTGCTGGCCAGTGATGGGCATGACC
TCCAGGAGCAGTCTGGGTAAGGGCGTGAGAGAACTGAGCACCCACCCGACCCACCCACCCCGCCCCATTCTTGGGCTTATCAACCACTTGTACTTC
TTCCCTAGAAAATCTACCCCTCTAGACCTGAGACCCTTGCTGATGTCTATTTC

Genomic Locus: (the deleted sequence represents nt 11491 – 12136 in the sequence below; KOS/57 used to generate the target vector represents nt 8455 – 16300 in the contig below)

TCCGCCAAGGCCATGGGCCGGCAGGGACAGGGCCTCGGAGATTACAGATCTGGTGCCTGCTGCTTGTGGGCCTGAAC TTGAAC TGAGCCCCAGCCG
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Targeted Locus:

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[illegible]

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