



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ6208	Date of Submission:	8.3.04.
Lexicon Contract Name:	DNA461	Mutation Type:	☒ Standard Knock out
LexVision Name:	MEM812N1		☐ Conditional
Reference accessions:	NM_178257 ENSMUST00000036196	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) pKOS-72, -36
☒ Target Vector DNA 72-TV
☒ Targeted ES Cell DNA 1B2
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	5' External	3' External
Name of Probe:	11+12	13+14
Restriction Enzyme for Genomic Digest:	BglII	ApaLI
Predicted Wild-type Band (kb):	7.2 kb	8.0 kb
Predicted Mutant Band (kb):	20.8 kb	9.5 kb
Probe Size:	158 bp	283 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:	DNA461-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA461-4	3' Primer Name:	DNA461-6
Predicted Wild-type Band (bp):	171 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	260 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**

DNA461-11 5'- GGACAGACGATATGCAACAC
 DNA461-12 5'-GGCTTGTTTATCTGGTCTGG
 DNA461-13 5'-GTCAGAACCTTGACAATCCAC
 DNA461-14 5'-CACTACATAGTCCCAACAGCG

PCR Genotyping

DNA461-3 5' – TCCGCAAGTCTGCAAACCCA
 DNA461-4 5' – CACACTGTAGACGGTGTCA
 DNA461-6 5' – GGATATTTTCTGGGAAGTGC
 Neo3a 5' – GCAGCGCATCGCCTTCTATC

ACACATCCGGTCTCCTTCAACACGTTGAAATTCACAGTCCAGCAACTTTGAGAACATCTTGACGTGGGATGGTGGGCCCCGCTAGCACCTCTGACACCGTCTACAGTGTGGAATATAAGAAGCAAGTACCTTTATCCCTCCAGACCCCTCTGACCCCTGCTCTGCAGCAAGCTCCTCTAGGACATCCCAGCTCCAAATGTC

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CCAACAAGACTTCTCTACATCTCAGTTTACACGGGTCTGTCCAGTGCATGTGATGACGGTATGCTCATCAGAGGTCTACATGGAGAAAGATGACATC

ACTAGCATGTATATCCTCTTTCTGATACAGTATCAATAACTGATAGTCATGAGAATAGCCTAGGTCCGTGGAAACTTCACCAATCCCTTCTGCCTGTGT

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Selection Cassette:

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Targeted Locus:

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[illegible]

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