



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ739	Date of Submission:	8.3.04.
Lexicon Contract Name:	DNA355	Mutation Type:	☒ Standard Knock out
LexVision Name:	PSC212N1		☐ Conditional
Reference accessions:	NM_177033, BB625789, ENSMUST00000056344	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) pKOS-92, -22, -55, -58
☒ Target Vector DNA 92-TV
☒ Targeted ES Cell DNA 3B9
☒ 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:	EcoRV	HpaI
Predicted Wild-type Band (kb):	9.2 kb	17.5 kb
Predicted Mutant Band (kb):	6.1 kb	10.1 kb
Probe Size:	283 bp	237 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:	DNA355-1	5' Primer Name:	Neo3A
3' Primer Name:	DNA355-2	3' Primer Name:	DNA355-4
Predicted Wild-type Band (bp):	197 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	346 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**

DNA355-11 5' – CATGTACTGCTAGTGCTCAG
 DNA355-12 5' – AGGTGACACCTGCCTTATC
 DNA355-13 5' – TGTGCAGATGCTCAGATGAG
 DNA355-14 5' – TCTAGCTCAGTACATGGCTC

PCR Genotyping

DNA355-1 5' – CTTTGCCTGGCTAGCAAGGA
 DNA355-2 5' – CATGCACCTAGCTAGAGCA
 DNA355-4 5' – GTTCTACCAAGGACTATCC
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

CATGGTGGAGACTCAGGGAGGAGAAACCCAGGGATGACAGGCAGAAGGCAACACGGGCACTGACAGGACTCCAAGA
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TGCATCCACGTCGACAACAGCCAGTGCTGTCCGCAGTCAAGGAGAAGAAGAACTACTGCGAGTTCCGGGGCAAGACC
TACCAGACTTTGGAGGAGTTTGTGGTAAGAGGCAAGC

**Genomic Locus: (the deleted sequence represents nt 8321 – 6208 in the sequence below . KOS-92 used to generate the TV
represents nt 1,604 – 11,715 in the sequence below.)**

TAAGAATGGAAAGATGAATAAAACACAGCTCAGCCATTTAGTTAGATGTTATTTTCTAGGTGAGTATTAATACCCTAGA
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[illegible]

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Selection Cassette:

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Targeted Locus:

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