



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ1885	Date of Submission:	8.2.04.
Lexicon Contract Name:	DNA010	Mutation Type:	☒ Standard Knock out
LexVision Name:	MEM778N1		☐ Conditional
Reference accessions:	NM_177193 BQ443868	Is this gene X-linked?	No

Required Materials: ☒ pKOS clone DNA(s) pKOS-5, -56
☒ Target Vector DNA DNA010-5-TV
☒ Targeted ES Cell DNA 2H8
☒ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	5' External	3' External
Name of Probe:	21+22	14+15
Restriction Enzyme for Genomic Digest:	BclI	XmnI
Predicted Wild-type Band (kb):	10.7 kb	11.9 kb
Predicted Mutant Band (kb):	8.9 kb	10.1 kb
Probe Size:	292 bp	242 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:	DNA010-2	5' Primer Name:	Neo3a
3' Primer Name:	DNA010-1	3' Primer Name:	DNA010-R2
Predicted Wild-type Band (bp):	231 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	315 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**

DNA010-14 5' – CTTGGACTAGTGTAGGATTC
DNA010-15 5' – CATGACCAGACCTGTATCCA
DNA010-21 5' – GTCAAGCACTCAGTCTATGG
DNA010-22 5' – CATGCATCGCAATCTGCTGA

PCR Genotyping

DNA010-1 5' – CCTTGTAGGCACAGTCTGCA
DNA010-2 5' – GTCTGGAGCCTACATAGGT
DNA010-R2 5' –GTGGATCGCCGTGATGA
Neo3a 5' – GCAGCGCATCGCCTTCTATC

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[illegible]

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[illegible]

Selection Cassette:

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Targeted Locus:

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