



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ5043	Date of Submission:	8.16.05
Lexicon Contract Name:	DNA365	Mutation Type:	X Standard Knock out
LexVision Name:	MEM750N1		☐ Conditional
Reference accessions:	NM_170758.2	Is this gene X-linked?	NO

Required Materials:

- ☐ pKOS clone DNA(s) __pKOS-7____
- ☐ Target Vector DNA __pKOS-7TV____
- ☐ Targeted ES Cell DNA __1D3____
- ☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	34/35	36/37
Restriction Enzyme for Genomic Digest:	HindII	EcoRI
Predicted Wild-type Band (kb):	14.1	8.2
Predicted Mutant Band (kb):	10.7	7.2
Probe Size (bp):	221	305

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:	24	5' Primer Name:	Neo3a
3' Primer Name:	10	3' Primer Name:	25
Predicted Wild-type Band (bp):	584	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	338

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**

34 5' – CAGTCTCTCCAGACTTGTGGGTTCC
 35 5' – CCCTTCCAGATCCTCCTCAGCATC
 36 5' – CCCAGACCTATGGCTGGAGTCTCC
 37 5' – GACTAGATCTCCAAGTGCTAGCCTG

PCR Genotyping

10 5' – CTCATCACACATAATGTACTCCCAG
 24 5' – GAAGGGTGCTGAAGGGTGATTGAC
 25 5' – GCCAGGTATGACATGAACATGTG
 neo3a 5' – GCAGCGCATCGCCTTCTATC

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