



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ208	Date of Submission:	1-19-05
Lexicon Contract Name:	DNA026	Mutation Type:	X Standard Knock out
LexVision Name:	MEM638N1		☐ Conditional
Reference accessions:	XM_146887.3, AK086930	Is this gene X-linked?	No

Required Materials:

- ☐ pKOS clone DNA(s) __pKOS65____
- ☐ Target Vector DNA __KOS65TV____
- ☐ Targeted ES Cell DNA __2F5____
- ☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	3+18	21+22
Restriction Enzyme for Genomic Digest:	EcoRV	ApaLI
Predicted Wild-type Band (kb):	8.7 kb	19.6 kb
Predicted Mutant Band (kb):	3.8 kb	11.1 kb
Probe Size:	412 bp	716 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:	DNA026-5	5' Primer Name:	DNA026-15
3' Primer Name:	DNA026-6	3' Primer Name:	IRES-GT
Predicted Wild-type Band (bp):	271 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	572 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**

DNA026-3 5' – AAATGACTTGCCAACGGACAC
 DNA026-18 5' – ACGAGGCTTGTCATGTGATGC
 DNA026-21 5' – AACGTCCTGGCAGTCTTAC
 DNA026-22 5' – GGCAATTTGTGTCTTATTAGA

PCR Genotyping

DNA026-5 5' – TTTGGCTAAGCAGAGGAGC
 DNA026-6 5' – CAGACTGCCAAGAGAAAGC
 DNA026-15 5' – TAGGCAAACTCAGAATCTCCC
 IRES-GT 5' – CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

[illegible]

Genomic Locus: *(The deleted sequence represents nt13740-16886 in the sequence below. KOS65 used to generate the TV represents nt 12617-22207 in the sequence below.)*

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