



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2420	Date of Submission:	1-19-05
Lexicon Contract Name:	DNA040	Mutation Type:	X Standard Knock out
LexVision Name:	INH213N1		<input type="checkbox"/> Conditional
Reference accessions:	NM_130887	Is this gene X-linked?	No

Required Materials:

- pKOS clone DNA(s) __pKOS61__
- Target Vector DNA __KOS61TV__
- Targeted ES Cell DNA __1B6__
- Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	5' External	3' External
Name of Probe:	43+41	11+12
Restriction Enzyme for Genomic Digest:	EcoRI	Bgl I
Predicted Wild-type Band (kb):	6.3 kb	9.3 kb
Predicted Mutant Band (kb):	5.4 kb	2.1 kb
Probe Size:	343 bp	583 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:	DNA040-3	5' Primer Name:	DNA040-44
3' Primer Name:	DNA040-2	3' Primer Name:	IRES-GT
Predicted Wild-type Band (bp):	298 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	560 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**

DNA040-43 5' – CTCTGGAGGAGCATTTCAGTGC
DNA040-41 5' – TGGCCTCTTGGTAGGTTGTAC
DNA040-11 5' – TCCCATGCTTCAAGCTATAACC
DNA040-12 5' – AAGCTGTGTGGTGCTATGAAGC

PCR Genotyping

DNA040-3 5' – GGCATGGCGTGTAGTTTAGTG
DNA040-2 5' –GCTCAATTCTTCTCGCCAAGT
DNA040-44 5' –TTTGACAAAGACCTGGAGAGC
IRES-GT 5' –CCCTAGGAATGCTCGTCAAGA

Genomic Sequence Deleted:

CCCAGGCTGGGCACCGATAAGGCGGCTCCAGGGCTTCAAGAGACAGGTAGGAAGGCAAGCGGGCGCCTTGGGCAGGG
CACGCCCCGGGCATCTGAAGGCTCTGCCCCGCTGGCTCCTGTAGGTAGTGGTTGGCGTGGAAGTGAGAGACCATGG
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Genomic Locus: (The deleted sequence represents nt10624-13179-in the sequence below. KOS61 used to generate the TV represents nt 6048-14413 in the sequence below.)

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Selection Cassette:

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Targeted Locus:

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