



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ178	Date of Submission:	1/25/05
Lexicon Contract Name:	DNA009	Mutation Type:	X Standard Knock out
LexVision Name:	INH214N1		☐ Conditional
Reference accessions:	NM_019790	Is this gene X-linked?	No

Required Materials: X pKOS clone DNA(s) __pKOS.39_____
X Target Vector DNA __pKOS.39 TV_____
X Targeted ES Cell DNA __1A8_____
X Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	DNA009-13/14	DNA009-21/22
Restriction Enzyme for Genomic Digest:	Xba I	BamH I
Predicted Wild-type Band (kb):	6.9	11.8
Predicted Mutant Band (kb):	3.8	10.3
Probe Size:	478	450

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:	DNA009-3	5' Primer Name:	puroGS
3' Primer Name:	DNA009-10	3' Primer Name:	DNA009-4
Predicted Wild-type Band (bp):	285 bp	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	405

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**

DNA009-13 5' – GTGCCGCTTTTAAGTG GTTGG
DNA009-14 5' – CTAGCCCGGCAGGAGTCAC
DNA009-21 5' – TAGGACACAGCCAAGTATCTC
DNA009-22 5' – CAATTTAGCCATGTCAAGTTAT

PCR Genotyping

DNA009-3 5' – CTCCGGAGATCATGCTCTCC
DNA009-4 5' – GCTTATCCAACATCAGTGGC
DNA009-10 5' – CGAGTTTTACCGGGCGGGCTATGA
puroGS 5' – TGAGGAAATTGCATCGCATTTGTCT

[illegible]

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[illegible]

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Selection Cassette: betaGeo/puro

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Targeted Locus:

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