Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ2768	**Date of Submission:**	10-11-04
Lexicon Contract Name:	DNA410A	**Mutation Type:**	x Standard Knock out
LexVision Name:	MEM674N1		☐ Conditional
Reference accessions:	NM_126166	**Is this gene X-linked?**	no

Required Materials:
☐ pKOS clone DNA(s) __kos25_____
☐ Target Vector DNA __DNA410A-FTV25_____
☐ Targeted ES Cell DNA __1D11_____
☐ Genomic Map

Southern Blot Analysis:
External/Internal Probe Strategies

	5' External	**3' External**
Name of Probe:	**DNA410A-13+14**	**DNA410A-15+16**
Restriction Enzyme for Genomic Digest:	**SpeI**	**EcoRI**
Predicted Wild-type Band (kb):	**7.5**	**6.5**
Predicted Mutant Band (kb):	**6.1**	**3.8**
Probe Size:	**314 bps**	**323 bps**

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:	DNA410A-3	5' Primer Name:	Neo3a
3' Primer Name:	DNA410A-4	3' Primer Name:	DNA410A-12
Predicted Wild-type Band (bp):	288	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	371

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
DNA410A-13 5' – CAGATTGAGACTGTCTTTCAG
DNA410A-14 5' – TCAGATGATATGGTCATGACC
DNA410A-15 5' – CTCCAACTGTCTACCAGTTC
DNA410A-16 5' – TCATCTAAGCCGTTGGACTC

PCR Genotyping
DNA410A-3 5' – TCCTCATGGAAGTCTTCATAGC
DNA410A-4 5' – AGTCAGAACTTGGACTCGTCG
DNA410A-12 5' –AGTGGAACAGAGGTTAGAATG
Neo3a 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

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Genomic Locus: ***(the deleted sequence represents nt 7518 – 10029 in the sequence below)***

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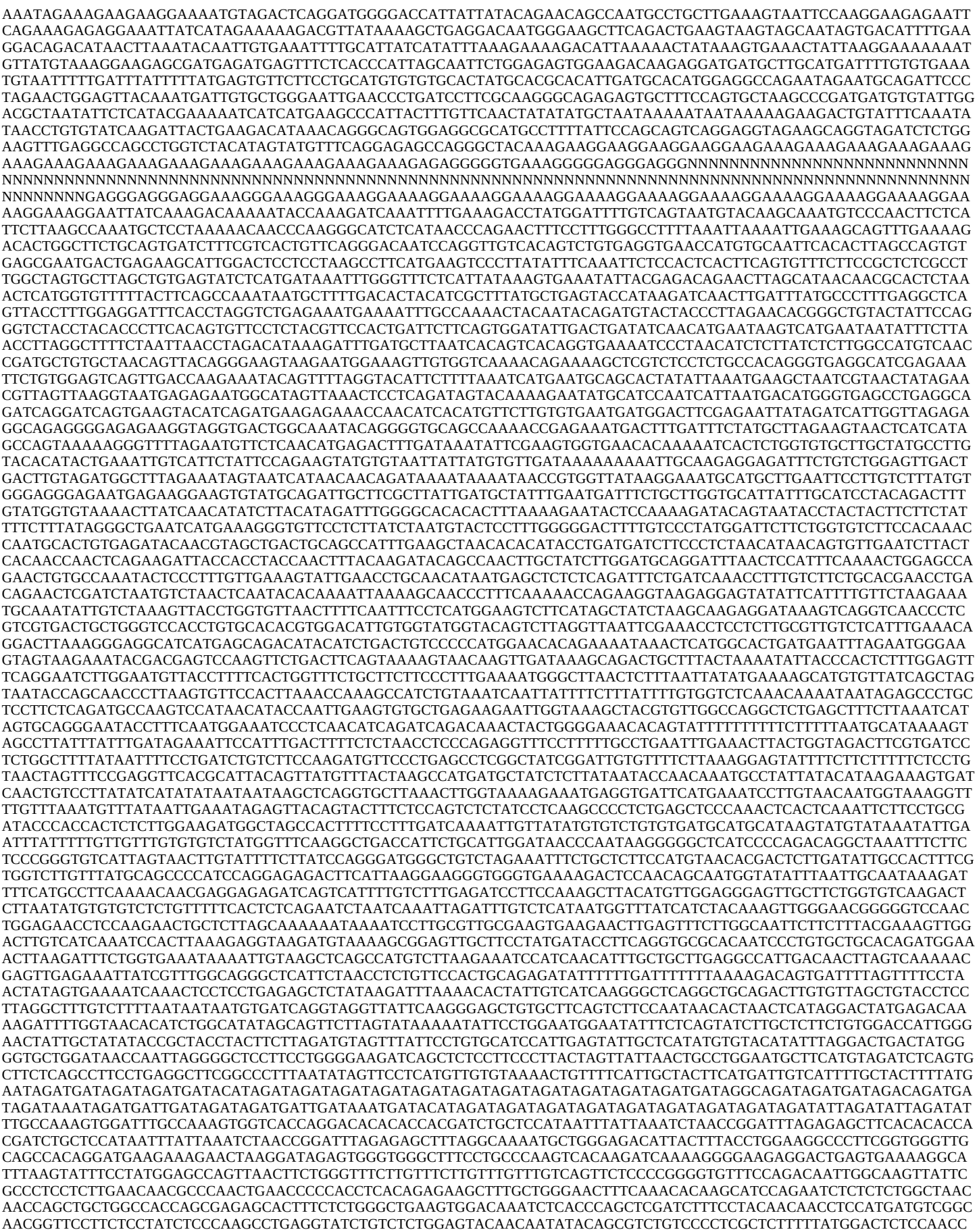

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Selection Cassette:

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