



Lexicon Genetics Incorporated – Genentech Project Materials

Genentech ID:	UNQ204	Date of Submission:	9-15-03
Lexicon Contract Name:	DNA400	Mutation Type:	X Standard Knock out
LexVision Name:	PRT266N1		☐ Conditional
Reference accessions:	NM_023476	Is this gene X-linked?	No

Required Materials:

☐ pKOS clone DNA(s) __pKOS51_____
☐ Target Vector DNA __pKOS51TV_____
☐ Targeted ES Cell DNA __2B6_____
☐ Genomic Map

Southern Blot Analysis: *External/Internal Probe Strategies*

	<u>5' External</u>	<u>3' External</u>
Name of Probe:	7+8	9+10
Restriction Enzyme for Genomic Digest:	NdeI	NdeI
Predicted Wild-type Band (kb):	16.9 kb	16.9 kb
Predicted Mutant Band (kb):	12.1 kb	7.8 kb
Probe Size:	363 bps	389 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:	18	5' Primer Name:	Neo3A
3' Primer Name:	19	3' Primer Name:	19
Predicted Wild-type Band (bp):	463 bps	Predicted Wild-type Band (bp):	none
Predicted mutant band (bp)	none	Predicted mutant band (bp)	334 bps

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**

7 5' – CCAAGGGGTTAACGTTTCA
 8 5' – CAATATGGCTGGGTCTTTAGC
 9 5' – CACAGAGCTCAGACGGAATGG
 10 5' – CCGGGTGAGGCATGTAAG

PCR Genotyping

18 5' – CTTGTGTGCACTTCGGGACC
 19 5' – GGCCACTCCAGCTTTGACGTG
 Neo3A 5' – GCAGCGCATCGCCTTCTATC

Genomic Sequence Deleted:

TACCACTGCTCTTTGAAGCTTCAGAGAAGTGGCCCAACCTGATCCACGACCCATTGGACCAGGGCAATTGTGCGAGGTTCTGGGCTTTCTCCACAGCAGGTGTGTCCAGGGGCAGGAGCTGGCACTAGAGAGGAGGGCCACGGCCTGGCTTCTGACAGCTCTTTCTGCCTTCCCCACTAGCTGTGCGATCTGATCGCGTCTCTATCCATTCTTTGGGACACATGACACCCATCTATCACCGCAAAACCTGCTGTCTGTGATACCCACCACCAGCAGGGCTGCCGAGGTGGGCGTCTTGATGGCGCTTGGTGGTTCCTGCGGCGCCGCGGGGTACGCACGCGCACAGGGGTTGTGGGCTGGAAGAGGATATAGCACCCCTTTAGAACCTAGGCTTTGTGGTGCCATAGCGCTATGGCTCTTGCTTCTTTCTCTAGGGTGGTGTCTGACAACTGTTACCCATTCTCCGGCCGTGAGCAGAACGAGGCCAGCCCCACTCCTCGTTGTATGATGCACAGCCGCGCCATGGGGCGGGGCAAGCGCCAAGCCACTTCCCGCTGCCCCAATGGTCAGGTTGATTCCAACGACATCTACCAGGTCACGCCTGCCTACCGCCTGGGCTCTGATGTAAGTCTAAACATGGGAAGGGCGGAGAAGCAAGAGTTGGGGGTTTGGTCCGCTAAATCTTACACTGATGGACCTTTCTCCACCCCCCCCCCCCAGGAGAAGGAGATCATGAAGGAGCTAATGGAACGCGCCCTGTTCAAGGTAACCATCCCCAGGCTTTCTCTGGTTCCAGAACTTCTTGCTGGAGGCTGGGCGCAGGGCCTAAGAAATCTCTCCAACTTTAGGTACCAGATGCAGTTGTAAGAGGAGTGAGGGTCCGTTACCCTTTCTTTGCAGGAAGCTCCTACTTAAATCAATGTCTAATATGAGGCTCTGGTGCTGGATGCTCAGAATAGCAGGCCAAGCCCTGTCTTTGTCTCTGCCCACAGCACTCATGGAAGTACACGAGGACTTCTTCTTGTAACGAGCGTGGCATCTACAGCCACACACCTGTAAGCCAGGGGAGGCCGGAGCAGTACCGCAGACATGGGACTCATCAGTCAAGATCACTGGGTGAGTGAGGTTTCTGAGGGCACATGGGACTAGGAGCAGTGGCATTACTCTGGGAATTCTCTGAAAAATCTTTGTGTTCTCTGCCAAACTGAGGCTGCTCCTCCCTCCTCCATTGCCAAAAAGGAAACAGACACAGAGAGGAGGGGCTGCTTGCAGGGGTGCGGGGACCGTGAGGAGCTTTGAAGGGTGTCTGGGAACAGTGAAACTGCCCCCTTGAATTTGAGAATTCAAGAGCTAATGGGGTGGGGTTGGGGGAGCGCATCCGGGACCTCAGCACTGAGATGTGGGCAGAAAGATTTCGGAGCTAAAAGGTCACCTTTGCCTTCAACTTCACGAGTAGTTTGGACTATGTGAAACCTTGTCTCAAAACACAACTTGTTCCCAACTCTGGCCAACCACTGAGTGACAGGCTATGCAGAGAGGGGTGAACACTCATCAGGTCCCTGGCTACGCTCAGATTTCAGAAGTCACAGGGGTAGCTTGGGGGTGCTGCGATCCAGATGTTGAGACCCGGTGCAAGCAGTGCCCCCTCTCCCTCTTGCTTTGCCGCTAGGTGGGGAGAAGAGACGCTGCCAGACGGAAGGACCATTAAAGTACTGGGTGAGTCTCTGTGCGAGGCTGAGTCCCAAGTTTCTGCCCTTCTGAGCCCTCCATCATCTGTCTTTTGCCTCATGTCTCTCCCTTTTCACTCCCAGACTGCTGCCAACTCGTGGGGCCCATGGTGGGGTGAAGAGGGGCCACTTCCGGATCGTGGCGTGGCACAACGAGTGCAGACCTCAGAGACCTTCGTGCTGGGCGCTGGGGTGCGBTGGGAATTGAGAGACATGGGGCACCACCTGAGTCTCAGCCACTAGGCGAGGTGGGATCCACAGCCACAGAAGAGGCCCTGGGGGCCATGCCCGATGAAGCCTTGTGTGCACTTCGGGACAGGTGCTAATCTCTACAGACTCAGATCCGCGCGTGCGCGCTAAGGCAGAATCCACCTAGGAGACAAAGATGCACCAAGCTGGCGGAAGCCCCAGATATCACAGCCGGAACCTGGGAAGGGCCCTGTTTGGAAACTGCAGGGAGTATAGACAGATTCAGGTCCCTGGTCAGCCAGGCCAAGACCACAGGAGCTAAGACACCCCAACCTCATCACCCCTCCTACCCACCCTCTCTCTCATCTTCTTTTTTGATGAATTCTGTCCATCTC

Genomic Locus: *(the deleted sequence represents nt9347-11660-in the sequence below)*

[illegible]

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CCCAGGTTCTGTTCCCAACATCCTCGCAGGTAGCTCAAACACCTGTAACCTCTAGCTCCAGAGGACCCAATATCCTCT
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TCCAGGGTGCCTCAACCCCTCAGACGTCTGGTCTGGACTAATTTGTGGTTACGATGGGTAGAGAGGGGCTGGGGGTGGAT
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GAGCTAGACAAGACGGCCTGCCTGTGATCCCAGCTCTCCAGGTGTGGAGGCAGAGACAAAGGATCCCAGAAAGCTAAC
CAGCTAGCATTAGGGGAAATTAGTGAGTTTCTGGGCTTCAAGCTCAGCAAGAGACTCTGTATCCATAAAGCAGGAAGT
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TCCCCCCTCATTCCCCCTGGGCAATACCTGCCCTGACTGCCCCCTTCTGGGTCTACACCATCATCTGATATAAGCTCCT

[illegible]