



## Lexicon Genetics Incorporated – Genentech Project Materials

|                               |           |                               |                                                        |
|-------------------------------|-----------|-------------------------------|--------------------------------------------------------|
| <b>Genentech ID:</b>          | UNQ265    | <b>Date of Submission:</b>    | 8.11.05                                                |
| <b>Lexicon Contract Name:</b> | DNA150A   | <b>Mutation Type:</b>         | <input checked="" type="checkbox"/> Standard Knock out |
| <b>LexVision Name:</b>        | PRT361N1  |                               | <input type="checkbox"/> Conditional                   |
| <b>Reference accessions:</b>  | NM_029023 | <b>Is this gene X-linked?</b> | no                                                     |

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**Required Materials:**

- ☒ pKOS clone DNA(s)        pKOS-80
- ☒ Target Vector DNA        pKOS-80TVNeo
- ☒ Targeted ES Cell DNA        3D10
- ☒ Genomic Map

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### Southern Blot Analysis: *External/Internal Probe Strategies*

|                                        | <u><b>5' Internal</b></u> | <u><b>3' External</b></u> |
|----------------------------------------|---------------------------|---------------------------|
| Name of Probe:                         | <b>19 + 20</b>            | <b>15 + 16</b>            |
| Restriction Enzyme for Genomic Digest: | <b>BglI</b>               | <b>EcoRV</b>              |
| Predicted Wild-type Band (kb):         | <b>9.3 kb</b>             | <b>6.6 kb</b>             |
| Predicted Mutant Band (kb):            | <b>7.4 kb</b>             | <b>9.6 kb</b>             |
| Probe Size:                            | <b>336</b>                | <b>423</b>                |

**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:                                | <b>DNA150-5</b>  | 5' Primer Name:                          | <b>Neo3a</b>     |
| 3' Primer Name:                                | <b>DNA150-R2</b> | 3' Primer Name:                          | <b>DNA150-R2</b> |
| Predicted Wild-type Band (bp):                 | <b>325 bp</b>    | Predicted Wild-type Band (bp):           | <b>none</b>      |
| Predicted mutant band (bp)                     | <b>none</b>      | Predicted mutant band (bp)               | <b>254 bp</b>    |

| 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**

|           |                               |
|-----------|-------------------------------|
| DNA150-19 | 5' – GGCTAGATTTTTTCAGGCATTTG  |
| DNA150-20 | 5' – GGTACTGAGTCACCTCACAGAG   |
| DNA150-15 | 5' – GTGAGATCTTCCCGGCAGTTTC   |
| DNA150-16 | 5' – GTTAAGATTTCTTAATACAGCGGC |

**PCR Genotyping**

|           |                             |
|-----------|-----------------------------|
| DNA150-5  | 5' – CTCCACCTCATCTTTCCCACC  |
| DNA150-R2 | 5' – CCCCAGGACCAGAAGGACCAAA |
| Neo3a     | 5' – GCAGCGCATCGCCTTCTATC   |

GCGGCTGACTCGCCAGTCCCCGCGCACGGCGTCAACGGATGGCCTTTGGCTCTGCTGTGCTGATGTTGCGGCGGGGTTTTATCATATGGAGCTCTC  
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[illegible]

[illegible]

[illegible]

[illegible]

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**Targeted Locus:**

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[illegible]

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