



## Lexicon Genetics Incorporated – Genentech Project Materials

|                               |           |                               |                                      |
|-------------------------------|-----------|-------------------------------|--------------------------------------|
| <b>Genentech ID:</b>          | UNQ465    | <b>Date of Submission:</b>    | 10-15-04                             |
| <b>Lexicon Contract Name:</b> | DNA351    | <b>Mutation Type:</b>         | X Standard Knock out                 |
| <b>LexVision Name:</b>        | PSC211N1  |                               | <input type="checkbox"/> Conditional |
| <b>Reference accessions:</b>  | NM_025467 | <b>Is this gene X-linked?</b> | No                                   |

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**Required Materials:** X pKOS clone DNA(s) \_\_KOS 58\_\_\_\_\_  
 X Target Vector DNA \_\_KOS 58 TV\_\_\_\_\_  
 X Targeted ES Cell DNA \_\_1D3\_\_\_\_\_  
 X Genomic Map

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

|                                        | <u><b>5' External</b></u> | <u><b>3' External</b></u> |
|----------------------------------------|---------------------------|---------------------------|
| Name of Probe:                         | <b>DNA351 11/12</b>       | <b>DNA351 17/18</b>       |
| Restriction Enzyme for Genomic Digest: | <b>Acc65I</b>             | <b>Apa I</b>              |
| Predicted Wild-type Band (kb):         | <b>15.2</b>               | <b>7.7</b>                |
| Predicted Mutant Band (kb):            | <b>5.6</b>                | <b>10.9</b>               |
| Probe Size:                            | <b>419 bp</b>             | <b>392 bp</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:                                | DNA351-1 | 5' Primer Name:                          | neo3A     |
| 3' Primer Name:                                | DNA351-4 | 3' Primer Name:                          | DNA351-10 |
| Predicted Wild-type Band (bp):                 | 487 bp   | Predicted Wild-type Band (bp):           | none      |
| Predicted mutant band (bp)                     | none     | Predicted mutant band (bp)               | 363 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**

DNA351-11    5' – TTACTCTGTCGGCCACTGTTCTTG  
DNA351-12    5' – GCTCTGCCTATGTTCCCCTTCA  
DNA351-17    5' – GCCCCATCTATCCTCCTTTATCAG  
DNA351-18    5' – CTTTGTAGCCACCTCACCTCAT

**PCR Genotyping**

DNA351-1    5' – ACCCCTCGTGAGTATGCGTTCGT  
DNA351-4    5' – GTCCCCTTTGCCTCAGTGTCTTCA  
DNA351-10    5' – GTTCCTGTCTGGGCCACAATGGG  
neo3A        5' – GCAGCGCATCGCCTTCTATC

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**Targeted Locus:**

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