GenBank NM_001005870 was used for dog RXFP2 analysis, as reference sequence.

### Supplementary Material

<table>
<thead>
<tr>
<th>Exon</th>
<th>Primers Frw (5'-3')</th>
<th>Primers Rev (5'-3')</th>
<th>Annealing Temp. (°C)</th>
<th>Enzyme used in PCR amp.</th>
<th>PCR Size (bp)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>gctgtaaacatgtgatttttgg etcttttggaattgcaactca</td>
<td>64</td>
<td>AccuPrime GC-Rich</td>
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<td>Tamp B was used</td>
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<td>2</td>
<td>tgcagctctcaaatagaccca caattctctctctctctctc</td>
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<td>AmpliTaq Gold</td>
<td>379</td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>accatactggtcattactact actaatcatgeacaccacacatca</td>
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<td>Exons 12 and 13 were analyzed together</td>
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Notes:
1- From Invitrogen
2- From Applied Biosystems
For all PCR 35 cycles were used (except for exon 16)