## A

<table>
<thead>
<tr>
<th>rs#</th>
<th>organism</th>
<th>contig-position</th>
<th>heterozygosity</th>
<th>function</th>
<th>P</th>
<th>C</th>
<th>A</th>
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</thead>
<tbody>
<tr>
<td>rs152226</td>
<td>(Rattus norvegicus)</td>
<td>11387349</td>
<td>?</td>
<td>untranslated</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>untranslated</td>
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<td>-</td>
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<tr>
<td>rs153227</td>
<td>(Rattus norvegicus)</td>
<td>11387431</td>
<td>?</td>
<td>untranslated</td>
<td>-</td>
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</tr>
</tbody>
</table>

## B

**mixed SNPs from rat & human**

### Primer 2

**Sequence:** TGGATGACGGGCCGCGACCTGGGCA [A/G] CATAGCCAAGGGCCCTA

**Result (+):** The sap in sequence (+) can be distinguished.

**Result (-):** The sap in sequence (−) cannot be distinguished.

### Primer 3

**Sequence:** ACATGACTGAGGTGCGTGAACGCCTG S CCCACCATGAGCGCTTGCTCTGTAG

**Result (+):** The sap in sequence (+) can be distinguished.

**Result (-):** The sap in sequence (−) cannot be distinguished.

### Primer 3

**Sequence:** ATACTAGAAAAATTTTGTCAACCA [C/T] ACTCCTGGGCGCCCATACAGCTCT

**Result (+):** The sap in sequence (+) can be distinguished.

**Result (-):** The sap in sequence (−) cannot be distinguished.

### Primer 3

**Sequence:** AAAATATGGATCTCGAGGTGTAG [A/G] TGGTGGCCTTTAAGAACTGAGG

**Result (+):** The sap in sequence (+) cannot be distinguished.

**Result (-):** The sap in sequence (−) cannot be distinguished.

### Primer 3

**Sequence:** TACAAAATCTCTGTGATTTCTATTATTA [C/T] TTGCCAAAAATATTATCTCGAGA

**Result (+):** The sap in sequence (+) cannot be distinguished.

**Result (-):** The sap in sequence (−) cannot be distinguished.

### Mutagenic Primer

**Sequence:**

**Result (+):** The sap in sequence (+) cannot be distinguished.

**Result (-):** The sap in sequence (−) cannot be distinguished.

## C

Sequences are defaulted to show sense (+) strand. If needed, please click □ to show antisense (−) strand.

**Sequence (+)**

**RFLP:**

### Primer 3

**Sequence:** TGGATGACGGGCCGCGACCTGGGCA [A/G] CATAGCCAAGGGCCCTA

**Sequence ID**

<table>
<thead>
<tr>
<th>Sequence ID</th>
<th>Recognition Sequence</th>
<th>Commercial</th>
<th>Non-Commercial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence (+) = 0</td>
<td>5'-TGGATGACGGGCCGCGACCTGGGCA</td>
<td>ApaKI</td>
<td>ApaKI</td>
</tr>
<tr>
<td>Sequence (+) = 1</td>
<td>5'-CGAGC-3'</td>
<td>BbvI</td>
<td>BbvI</td>
</tr>
</tbody>
</table>

**Sequence (-)**

**Sequence:** TGGATGACGGGCCGCGACCTGGGCA [A/G] CATAGCCAAGGGCCCTA

**Sequence ID**

<table>
<thead>
<tr>
<th>Sequence ID</th>
<th>Recognition Sequence</th>
<th>Commercial</th>
<th>Non-Commercial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sequence (-) = 0</td>
<td>5'-TGGATGACGGGCCGCGACCTGGGCA</td>
<td>ApaKI</td>
<td>ApaKI</td>
</tr>
<tr>
<td>Sequence (-) = 1</td>
<td>5'-CGAGC-3'</td>
<td>BbvI</td>
<td>BbvI</td>
</tr>
</tbody>
</table>