**Supplementary Table 4** Mutations observed in cohort.

<table>
<thead>
<tr>
<th>Gene-exon</th>
<th>short</th>
<th>Protein</th>
<th>cDNA</th>
<th>DNA (hg19)</th>
</tr>
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<tbody>
<tr>
<td>PRKACA-exon7</td>
<td>L206R</td>
<td>p.Leu206Arg</td>
<td>c.617T&gt;G</td>
<td>chr19:14208416A&gt;C</td>
</tr>
<tr>
<td>CTNNB1-exon3</td>
<td>S45P</td>
<td>p.Ser45Pro</td>
<td>c.133T&gt;C</td>
<td>chr3:41266136T&gt;C</td>
</tr>
<tr>
<td>CTNNB1-exon3</td>
<td>S45F</td>
<td>p.Ser45Phe</td>
<td>c.134C&gt;T</td>
<td>chr3:41266137C&gt;T</td>
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<tr>
<td>GNAS-exon8</td>
<td>R201C</td>
<td>p.Arg201Cys</td>
<td>c.601C&gt;T</td>
<td>chr20:57484420C&gt;T</td>
</tr>
<tr>
<td>GNAS-exon8</td>
<td>R201H</td>
<td>p.Arg201His</td>
<td>c.602G&gt;A</td>
<td>chr20:57484421G&gt;A</td>
</tr>
<tr>
<td>KCNJ5-exon2</td>
<td>G151R</td>
<td>p.Gly151Arg</td>
<td>c.451G&gt;A</td>
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</tr>
<tr>
<td>KCNJ5-exon2</td>
<td>L168R</td>
<td>p.Leu168Arg</td>
<td>c.503T&gt;G</td>
<td>chr11:128781671T&gt;G</td>
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