## Standard PCR

<table>
<thead>
<tr>
<th></th>
<th>Mg(1.5mM)</th>
<th>Mg(2.5mM)</th>
<th>Mg(1.5mM)</th>
<th>Mg(2.5mM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.10x buf (M190G, promega):</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>2. MgCl2</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>3. DNA (miniprep):</td>
<td>1</td>
<td>1</td>
<td>1(1/5)</td>
<td>1(1/5)</td>
</tr>
<tr>
<td>4. primer1 (20 uM):</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>5. primer2 (20 uM):</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
<td>2.5</td>
</tr>
<tr>
<td>6. *dNTP:</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>7. *Tag:</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
<td>0.5</td>
</tr>
<tr>
<td>8. H2O:</td>
<td>34.5</td>
<td>32.5</td>
<td>34.5</td>
<td>32.5</td>
</tr>
</tbody>
</table>

- Run program 10, all are good.
- Group 4 gives the best results.