<table>
<thead>
<tr>
<th>Gene Name</th>
<th>Sequence of the Primer 5’ to 3’</th>
</tr>
</thead>
<tbody>
<tr>
<td>GAPDH -Forward</td>
<td>GACAGTCAGCCGCATCTTTCT</td>
</tr>
<tr>
<td>GAPDH- Reverse</td>
<td>GCGCCCAATACGACCAAAATC</td>
</tr>
<tr>
<td>GAPDH- Probe</td>
<td>CGTTGACTCCGACCTCACCTCCTCC</td>
</tr>
<tr>
<td>RPLPo Forward</td>
<td>CGACCTGGAAGTCCAACTAC</td>
</tr>
<tr>
<td>RPLPo Reverse</td>
<td>GCTTGGAGCCACATTTCTCT</td>
</tr>
<tr>
<td>RPLPo Probe</td>
<td>TCCGAAATGTITTCATTGTGGGAGC</td>
</tr>
<tr>
<td>Ki67 Forward</td>
<td>CCACACTGTGTCGTGTTTG</td>
</tr>
<tr>
<td>Ki67 Reverse</td>
<td>CCGTGCGLCCTCCATTTCA</td>
</tr>
<tr>
<td>Ki67 Probe</td>
<td>CCTATGTCCCTCCAGGCAACGTTG</td>
</tr>
<tr>
<td>FOXA1 Forward</td>
<td>GTGAAGATGGAAAGGCATGAA</td>
</tr>
<tr>
<td>FOXA1 Reverse</td>
<td>CCTGAGTTCATGTGCTGACC</td>
</tr>
<tr>
<td>FOXA1 Probe</td>
<td>AACAGACTACTACACGACGACGACGAC</td>
</tr>
<tr>
<td><strong>Assay Name</strong></td>
<td><strong>IDT Predesigned Assay ID</strong></td>
</tr>
<tr>
<td>AR</td>
<td>Hs.PT.56a.40798740</td>
</tr>
<tr>
<td>GATA-3</td>
<td>Hs.PT.58.4308511</td>
</tr>
</tbody>
</table>
**Table S2:** FOXA1 and GATA3 co-expression at different expression cut off of AR mRNA

<table>
<thead>
<tr>
<th>Cut off (AR)</th>
<th>No of AR (+) cases</th>
<th>FOXA1 low</th>
<th>FOXA1 high</th>
<th>GATA3 low</th>
<th>GATA3 high</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.02-1</td>
<td>12</td>
<td>6/11 (55%)</td>
<td>5/11 (45%)</td>
<td>9/11 (82%)</td>
<td>2/11 (18%)</td>
</tr>
<tr>
<td>&gt;1-10</td>
<td>18</td>
<td>2/15 (13.0%)</td>
<td>13/15 (87%)</td>
<td>5/15 (33%)</td>
<td>10/15 (77%)</td>
</tr>
<tr>
<td>&gt;10.0</td>
<td>4</td>
<td>1/4 (25%)</td>
<td>3/4 (75%)</td>
<td>1/4 (25%)</td>
<td>3/4 (75%)</td>
</tr>
</tbody>
</table>
Table S3: Comparison of AR qRT-PCR positive cases with AR Protein Expression by IHC

<table>
<thead>
<tr>
<th>Sl No</th>
<th>Outcome</th>
<th>AR + qRT</th>
<th>AR by IHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rec</td>
<td>Negative</td>
<td>40%</td>
</tr>
<tr>
<td>2</td>
<td>Rec</td>
<td>Positive</td>
<td>85%</td>
</tr>
<tr>
<td>3</td>
<td>Rec</td>
<td>Positive</td>
<td>70%</td>
</tr>
<tr>
<td>4</td>
<td>Non-Rec</td>
<td>Positive</td>
<td>90%</td>
</tr>
<tr>
<td>5</td>
<td>Non-Rec</td>
<td>Negative</td>
<td>10%</td>
</tr>
<tr>
<td>6</td>
<td>Non-Rec</td>
<td>Positive</td>
<td>95%</td>
</tr>
<tr>
<td>7</td>
<td>Non-Rec</td>
<td>Positive</td>
<td>80%</td>
</tr>
<tr>
<td>8</td>
<td>Rec</td>
<td>Positive</td>
<td>65%</td>
</tr>
<tr>
<td>9</td>
<td>Rec</td>
<td>Positive</td>
<td>50%</td>
</tr>
<tr>
<td>10</td>
<td>Non-Rec</td>
<td>Negative</td>
<td>10%</td>
</tr>
<tr>
<td>11</td>
<td>Non-Rec</td>
<td>Positive</td>
<td>10%</td>
</tr>
<tr>
<td>12</td>
<td>Non-Rec</td>
<td>Positive</td>
<td>25%</td>
</tr>
</tbody>
</table>

Note: Rec: Recurrence, Non-Rec: No Recurrence; Positive: AR amplified by qRT-PCR and Negative: No amplification of AR by qRT-PCR
**Table S4:** Concordance of AR protein and mRNA expression at different threshold of AR mRNA

<table>
<thead>
<tr>
<th>Cut off (AR mRNA)</th>
<th>Counts</th>
<th>AR IHC (+)</th>
<th>AR IHC (-)</th>
<th>IHC not done</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1.0 fold</td>
<td>10</td>
<td>3 (30%)</td>
<td>7 (70%)</td>
<td>2</td>
</tr>
<tr>
<td>&gt;1-10 fold</td>
<td>15</td>
<td>5 (33%)</td>
<td>10 (56%)</td>
<td>3</td>
</tr>
<tr>
<td>&gt;10.0 fold</td>
<td>4</td>
<td>2 (100%)</td>
<td>0 (0%)</td>
<td>2</td>
</tr>
</tbody>
</table>
Table S5. Univariate and Multivariate Analysis using Cox proportional hazard method

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Univariate</th>
<th>Multivariate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HR</td>
<td>95%CI</td>
</tr>
<tr>
<td>Age (&gt;60 vs. 40-60 and &lt;40)</td>
<td>1.99</td>
<td>1.09-3.61</td>
</tr>
<tr>
<td>Grade 3 vs. 2</td>
<td>0.41</td>
<td>0.21-0.8</td>
</tr>
<tr>
<td>Tumor Stage III vs. I-II</td>
<td>5.3</td>
<td>2.7-9.9</td>
</tr>
<tr>
<td>AR Pos vs. Neg</td>
<td>1.1</td>
<td>0.57-2.4</td>
</tr>
<tr>
<td>AR High vs. Low</td>
<td>6.6</td>
<td>1.4-31.17</td>
</tr>
<tr>
<td>FOXA1 High vs. Low</td>
<td>1.3</td>
<td>0.54-3.4</td>
</tr>
<tr>
<td>GATA3 high vs. Low</td>
<td>2.0</td>
<td>0.82-4.85</td>
</tr>
</tbody>
</table>