

### Additional File 3. PRV genes ranked on the basis of PAA effect on gene expression

| 4h PAA <sup>a</sup> | 6hPAA <sup>b</sup> | 4h PAA/untreated <sup>c</sup> | gene <sup>d</sup> | 6h PAA/untreated <sup>e</sup> |
|---------------------|--------------------|-------------------------------|-------------------|-------------------------------|
| 0.347               | 0.374              | 38.556                        | <i>lft2</i>       | 2.904                         |
| 1.446               | 1.198              | 2.123                         | <i>ul30</i>       | 0.876                         |
| 0.223               | 0.492              | 0.437                         | <i>ul23</i>       | 0.775                         |
| 0.622               | 0.796              | 0.514                         | <i>us3</i>        | 0.762                         |
| 0.140               | 0.972              | 0.187                         | <i>ul11</i>       | 0.759                         |
| 0.559               | 0.818              | 1.090                         | <i>ul8</i>        | 0.755                         |
| 0.269               | 0.757              | 0.378                         | <i>ul21</i>       | 0.680                         |
| 0.383               | 0.697              | 0.364                         | <i>ul29</i>       | 0.593                         |
| 0.221               | 0.481              | 0.328                         | <i>ul28</i>       | 0.564                         |
| 0.019               | 0.728              | 0.063                         | <i>ul13</i>       | 0.553                         |
| 0.373               | 0.563              | 0.621                         | <i>ul9</i>        | 0.510                         |
| 0.376               | 0.532              | 0.619                         | <i>ul54</i>       | 0.505                         |
| 0.319               | 0.478              | 0.539                         | <i>ul40</i>       | 0.500                         |
| 0.322               | 0.399              | 0.478                         | <i>ep0</i>        | 0.493                         |
| 0.263               | 0.479              | 0.394                         | <i>ul50</i>       | 0.489                         |
| 0.334               | 0.443              | 0.612                         | <i>ul12</i>       | 0.426                         |
| 0.274               | 0.486              | 1.038                         | <i>us6</i>        | 0.390                         |
| 1.053               | 0.784              | 1.127                         | <i>ul52</i>       | 0.389                         |
| 0.171               | 0.521              | 0.510                         | <i>ul7</i>        | 0.373                         |
| 0.322               | 0.455              | 0.803                         | <i>ul15</i>       | 0.366                         |
| 0.207               | 0.361              | 0.555                         | <i>ul39</i>       | 0.328                         |
| 0.203               | 0.359              | 0.375                         | <i>ul14</i>       | 0.325                         |
| 0.297               | 0.357              | 0.627                         | <i>ul4</i>        | 0.316                         |
| 0.325               | 0.335              | 0.450                         | <i>ul43</i>       | 0.312                         |
| 0.191               | 0.461              | 0.166                         | <i>ul53</i>       | 0.304                         |
| 0.296               | 0.280              | 0.578                         | <i>us4</i>        | 0.282                         |
| 0.123               | 0.294              | 0.335                         | <i>us8</i>        | 0.255                         |
| 0.100               | 0.227              | 0.508                         | <i>us2</i>        | 0.237                         |
| 0.149               | 0.228              | 0.578                         | <i>us7</i>        | 0.227                         |
| 0.128               | 0.227              | 0.261                         | <i>ie180</i>      | 0.218                         |
| 0.172               | 0.212              | 0.415                         | <i>ul46</i>       | 0.215                         |
| 0.086               | 0.363              | 0.223                         | <i>ul20</i>       | 0.205                         |
| 0.095               | 0.203              | 0.403                         | <i>us9</i>        | 0.202                         |
| 0.068               | 0.195              | 0.191                         | <i>ul32</i>       | 0.194                         |
| 0.106               | 0.208              | 0.218                         | <i>ul42</i>       | 0.194                         |
| 0.134               | 0.206              | 0.472                         | <i>ul3</i>        | 0.187                         |
| 0.171               | 0.184              | 0.594                         | <i>ul36</i>       | 0.183                         |
| 0.082               | 0.187              | 0.152                         | <i>ul34</i>       | 0.175                         |
| 0.039               | 0.155              | 0.364                         | <i>orf-1</i>      | 0.171                         |
| 0.091               | 0.181              | 0.337                         | <i>ul49</i>       | 0.168                         |
| 0.175               | 0.212              | 0.364                         | <i>ul33</i>       | 0.162                         |
| 0.322               | 0.181              | 0.668                         | <i>ul41</i>       | 0.160                         |
| 0.094               | 0.180              | 0.367                         | <i>ul35</i>       | 0.159                         |
| 0.122               | 0.173              | 0.351                         | <i>ul18</i>       | 0.148                         |
| 0.078               | 0.187              | 0.255                         | <i>ul19</i>       | 0.147                         |
| 0.186               | 0.193              | 0.579                         | <i>ul27</i>       | 0.144                         |
| 0.129               | 0.155              | 0.401                         | <i>ul48</i>       | 0.141                         |
| 0.053               | 0.159              | 0.159                         | <i>ul49.5</i>     | 0.140                         |
| 0.174               | 0.129              | 0.989                         | <i>ul2</i>        | 0.129                         |
| 0.200               | 0.162              | 0.545                         | <i>ul5</i>        | 0.126                         |
| 0.042               | 0.142              | 0.627                         | <i>ul31</i>       | 0.125                         |
| 0.074               | 0.145              | 0.303                         | <i>ul22</i>       | 0.124                         |
| 0.079               | 0.138              | 0.271                         | <i>ul6</i>        | 0.112                         |
| 0.038               | 0.074              | 0.167                         | <i>ul25</i>       | 0.108                         |
| 0.022               | 0.133              | 0.088                         | <i>ul17</i>       | 0.098                         |
| 0.026               | 0.094              | 0.138                         | <i>ul26</i>       | 0.083                         |
| 0.057               | 0.088              | 0.377                         | <i>ul24</i>       | 0.075                         |
| 0.087               | 0.085              | 0.370                         | <i>ul47</i>       | 0.072                         |
| 0.015               | 0.093              | 0.034                         | <i>ul3.5</i>      | 0.070                         |
| 0.054               | 0.101              | 0.260                         | <i>ul10</i>       | 0.070                         |
| 0.036               | 0.063              | 0.221                         | <i>ul37</i>       | 0.061                         |
| 0.032               | 0.050              | 0.128                         | <i>ul51</i>       | 0.052                         |
| 0.008               | 0.040              | 0.051                         | <i>ul44</i>       | 0.044                         |
| 0.078               | 0.066              | 0.476                         | <i>us1</i>        | 0.044                         |
| 0.009               | 0.044              | 0.093                         | <i>ul38</i>       | 0.044                         |
| 0.066               | 0.076              | 0.247                         | <i>ul1</i>        | 0.042                         |
| 0.075               | 0.001              | 3.000                         | <i>lft1</i>       | 0.005                         |
| 0.000               | 0.000              | 0.000                         | <i>ul16</i>       | 0.000                         |