

Supplementary Table 4: Relative expression of CDKN1C, E2F1 and TP53 analyzed by qrtRT-PCR.

| Sample Cohort | Sample | ENST | ENSG | Gene Symbol | Housekeeping | 2 ^Δ -Dct 2_control | 2 ^Δ -Dct 2_tumor | P value | Norm_1 | Norm_2 | log2FC | |
|--------------------|----------------------------------|----------------------------------|----------------------------------|------------------|------------------|-------------------------------|-----------------------------|---------|--------|---------|--------|--------|
| Exploratory cohort | 554 | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,270 | 0,000 | 1,000 | 0,081 | -3,625 | |
| | | ENSG00000101412 | ENSG00000101412 | E2F1 | b2-microglobulin | 0,460 | 8,540 | 0,000 | 1,000 | 18,560 | 4,214 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,470 | 0,001 | 1,000 | 1,240 | 0,310 | |
| | 238 | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 38,120 | 0,001 | 1,000 | 103,020 | 6,686 | |
| | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,490 | 0,000 | 1,000 | 0,147 | -2,766 | |
| | | ENSG00000101412 | ENSG00000101412 | E2F1 | b2-microglobulin | 0,460 | 0,270 | 0,074 | 1,000 | 0,590 | -0,761 | |
| | 408 | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,720 | 0,001 | 1,000 | 1,450 | 0,536 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 0,200 | 0,062 | 1,000 | 0,540 | -0,888 | |
| | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,480 | 0,000 | 1,000 | 0,144 | -2,795 | |
| | 192 | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,340 | 0,178 | 1,000 | 0,740 | -0,434 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,210 | 0,939 | 1,000 | 1,020 | 0,028 | |
| | | ENSG00000129757 | ENSG00000129757 | TP53 | b2-microglobulin | 0,370 | 0,380 | 0,742 | 1,000 | 1,020 | 0,038 | |
| | 460 | ENSG00000101412 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,080 | 0,000 | 1,000 | 0,024 | -5,380 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 1,570 | 0,000 | 1,000 | 3,410 | 1,769 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 0,690 | 0,001 | 1,000 | 0,580 | -0,780 | |
| | 346 | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 5,040 | 0,000 | 1,000 | 13,620 | 3,767 | |
| | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,290 | 0,000 | 1,000 | 0,087 | -3,522 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,880 | 0,025 | 1,000 | 1,910 | 0,933 | |
| | 840 | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 0,920 | 0,005 | 1,000 | 0,760 | -0,395 | |
| | | ENSG00000129757 | ENSG00000129757 | TP53 | b2-microglobulin | 0,370 | 3,630 | 0,000 | 1,000 | 9,810 | 3,294 | |
| | | ENSG00000101412 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,150 | 0,000 | 1,000 | 0,045 | -4,473 | |
| | Extended cohort | 829 | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,340 | 0,014 | 1,000 | 1,126 | 0,171 |
| | | | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 0,250 | 0,009 | 1,000 | 0,675 | -0,401 |
| | | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,350 | 0,000 | 1,000 | 0,105 | -3,251 |
| 188 | | ENSG00000101412 | ENSG00000101412 | E2F1 | b2-microglobulin | 0,460 | 0,950 | 0,003 | 1,000 | 2,065 | 1,046 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,230 | 0,267 | 1,000 | 1,033 | 0,046 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 1,950 | 0,001 | 1,000 | 5,270 | 2,397 | |
| 080 | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,360 | 0,000 | 1,000 | 0,108 | -3,210 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,470 | 0,957 | 1,000 | 1,021 | 0,029 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 0,750 | 0,000 | 1,000 | 0,630 | -0,666 | |
| 135 | | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 1,090 | 0,000 | 1,000 | 2,945 | 1,558 | |
| | | ENST00000504937 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,130 | 0,000 | 1,000 | 0,039 | -5,107 | |
| | | ENSG00000101412 | ENSG00000101412 | E2F1 | b2-microglobulin | 0,460 | 1,540 | 0,004 | 1,000 | 3,347 | 1,742 | |
| 104 | | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 0,970 | 0,002 | 1,000 | 0,815 | -0,295 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 0,570 | 0,002 | 1,000 | 1,540 | 0,622 | |
| | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,120 | 0,000 | 1,000 | 0,036 | -4,975 | |
| 038 | | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,930 | 0,005 | 1,000 | 2,021 | 1,015 | |
| | | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 4,070 | 0,000 | 1,000 | 3,420 | 1,773 | |
| | | ENSG00000101412 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 11,170 | 0,000 | 1,000 | 30,189 | 4,915 | |
| 101 | | ENST00000504937 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 2,070 | 0,000 | 1,000 | 0,623 | -0,682 | |
| | | ENSG00000101412 | ENSG00000101412 | E2F1 | b2-microglobulin | 0,460 | 1,100 | 0,001 | 1,000 | 2,391 | 1,257 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,710 | 0,000 | 1,000 | 1,436 | 0,522 | |
| 209 | | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 0,230 | 0,006 | 1,000 | 0,621 | -0,687 | |
| | | ENSG00000129757 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,250 | 0,000 | 1,000 | 0,075 | -3,736 | |
| | | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 1,500 | 0,002 | 1,000 | 3,260 | 1,704 | |
| 639 | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 0,370 | 0,000 | 1,000 | 0,310 | -1,689 | | |
| | ENSG00000129757 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 32,310 | 0,001 | 1,000 | 87,320 | 6,448 | | |
| | ENSG00000101412 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 1,460 | 0,000 | 1,000 | 0,439 | -1,187 | | |
| 001 | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,630 | 0,094 | 1,000 | 1,369 | 0,453 | | |
| | ENST00000504937 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,560 | 0,002 | 1,000 | 1,310 | 0,389 | | |
| | ENSG00000101412 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 1,770 | 0,000 | 1,000 | 4,783 | 2,257 | | |
| 001 | ENST00000269305; ENST00000445888 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,590 | 0,000 | 1,000 | 0,177 | -2,498 | | |
| | ENST00000504937 | ENSG00000141510 | E2F1 | b2-microglobulin | 0,460 | 0,330 | 0,143 | 1,000 | 0,717 | -0,479 | | |
| | ENSG00000101412 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,250 | 0,099 | 1,000 | 1,050 | 0,070 | | |
| 001 | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 3,760 | 0,000 | 1,000 | 10,160 | 3,344 | | |
| | ENST00000504937 | ENSG00000129757 | CDKN1C | b-actin | 3,320 | 0,490 | 0,000 | 1,000 | 0,147 | -2,766 | | |
| | ENSG00000101412 | ENSG00000101412 | E2F1 | b2-microglobulin | 0,460 | 2,890 | 0,006 | 1,000 | 6,282 | 2,651 | | |
| 001 | ENST00000269305; ENST00000445888 | ENSG00000141510 | TP53 | b-actin | 1,190 | 1,740 | 0,000 | 1,000 | 1,462 | 0,547 | | |
| | ENST00000504937 | ENSG00000141510 | TP53 | b2-microglobulin | 0,370 | 1,470 | 0,000 | 1,000 | 3,972 | 1,989 | | |

Relative expression values were calculated as the mRNA amount of each gene relative to that of either β-actin or β2 microglobulin (used as reference) and normalized to the relative expression of normal control samples. 2^Δ-Dct 2 numbers indicate mean expression values analysed by the 2^ΔDDct method obtained from three independent experiments in foetal thymuses and each tumour sample. Norm_1 and Norm_2 values represent normalized 2^Δ-Dct 2 mean values. log2FC denotes the log-transformed (base 2) fold change normalized value of expression in each tumour sample relative to controls (foetal thymuses).