

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

Sample Cohort	Sample	ENST	ENSG	Gene Symbol	Housekeeping	2 ^Δ -ΔCt 2_control	2 ^Δ -ΔCt 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	ENSG00000101412	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	ENSG00000141510	TP53	b2-microglobulin	0,370	0,380	0,742	1,000	1,020	0,038
	460	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,080	0,000	1,000	0,024	-5,380
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,570	0,000	1,000	3,410	1,769
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,690	0,001	1,000	0,580	-0,780
	346	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b2-microglobulin	0,370	5,040	0,000	1,000	13,620	3,767
		ENST00000504937	ENSG00000141510	TP53	b-actin	3,320	0,290	0,000	1,000	0,087	-3,522
		ENSG00000101412	ENSG00000101412	E2F1	b2-microglobulin	0,460	0,880	0,025	1,000	1,910	0,933
	840	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,920	0,005	1,000	0,760	-0,395
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	3,630	0,000	1,000	9,810	3,294
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,150	0,000	1,000	0,045	-4,473
Extended cohort	829	ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,410	0,000	1,000	0,123	-3,023
		ENSG00000101412	ENSG00000101412	E2F1	b2-microglobulin	0,460	0,340	0,167	1,000	0,739	-0,436
		ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	1,340	0,014	1,000	1,126	0,171
	188	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
		ENSG00000101412	ENSG00000101412	E2F1	b2-microglobulin	0,460	0,950	0,003	1,000	2,065	1,046
	080	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
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,360	0,000	1,000	0,108	-3,210
	135	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,470	0,957	1,000	1,021	0,029
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	0,750	0,000	1,000	0,630	-0,666
		ENSG00000101412	ENSG00000101412	E2F1	b2-microglobulin	0,460	1,090	0,000	1,000	2,945	1,558
	104	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,130	0,000	1,000	0,039	-5,107
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,540	0,004	1,000	3,347	1,742
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,970	0,002	1,000	0,815	-0,295
	038	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,570	0,002	1,000	1,540	0,622
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	0,120	0,000	1,000	0,036	-4,975
		ENSG00000101412	ENSG00000101412	E2F1	b2-microglobulin	0,460	0,930	0,005	1,000	2,021	1,015
	101	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	4,070	0,000	1,000	3,420	1,773
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	11,170	0,000	1,000	30,189	4,915
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	2,070	0,000	1,000	0,623	-0,682
	209	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	1,100	0,001	1,000	2,391	1,257
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,710	0,000	1,000	1,436	0,522
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,230	0,006	1,000	0,621	-0,687
	639	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,250	0,000	1,000	0,075	-3,736
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,500	0,002	1,000	3,260	1,704
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,370	0,000	1,000	0,310	-1,689
	001	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	32,310	0,001	1,000	87,320	6,448
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,460	0,000	1,000	0,439	-1,187
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,630	0,094	1,000	1,369	0,453
	001	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	1,560	0,002	1,000	1,310	0,389
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,770	0,000	1,000	4,783	2,257
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,590	0,000	1,000	0,177	-2,498
	001	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b2-microglobulin	0,460	0,330	0,143	1,000	0,717	-0,479
		ENST00000504937	ENSG00000141510	TP53	b-actin	1,190	1,250	0,099	1,000	1,050	0,070
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	3,760	0,000	1,000	10,160	3,344
	001	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b-actin	1,190	0,490	0,000	1,000	0,147	-2,766
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	2,890	0,006	1,000	6,282	2,651
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	1,740	0,000	1,000	1,462	0,547
	001	ENST00000269305; ENST00000445888	ENSG00000141510	TP53	b2-microglobulin	0,370	1,470	0,000	1,000	3,972	1,989
		ENST00000504937	ENSG00000141510	TP53	b2-microglobulin	0,370	1,470	0,000	1,000	3,972	1,989
		ENSG00000129757	ENSG00000129757	CDKN1C	b-actin	3,320	0,150	0,000	1,000	0,045	-4,473

Relative expression values were calculated as the mRNA amount of each gene relative to that of either β -actin or $\beta 2$ microglobulin (used as reference) and normalized to the relative expression of normal control samples. 2^Δ-ΔCt 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-ΔCt 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).