Supratentorial and spinal pediatric ependymomas display a hypermethylated phenotype which includes the loss of tumor suppressor genes involved in the control of cell growth and death.

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qPCR validation of selected candidate genes. Each location group displayed a similar pattern of expression to that seen for the tumors run on gene expression arrays (29 PF, 29 ST, 6 SP). An inverse pattern of methylation was seen for the tumors run on the methylation arrays (54 PF, 24 ST, 14 SP). For each box plot the top and bottom of the whiskers display the maximum and minimum values respectively. The top and bottom of the box represent the third and first quartile and the line within the box the median value. PF = posterior fossa, ST = supratentorial, SP = spinal.