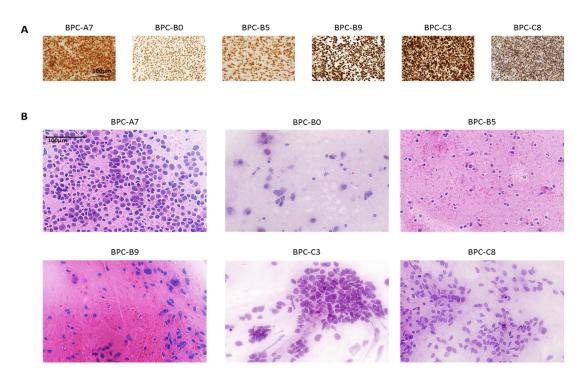
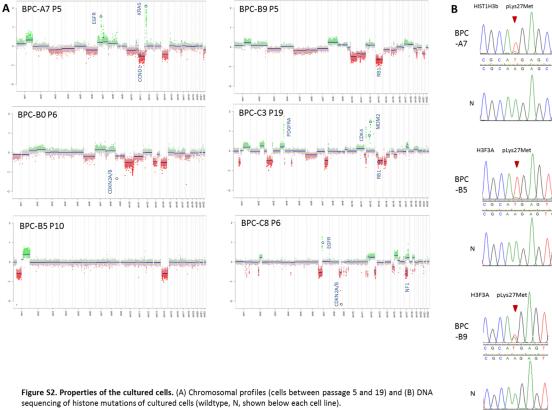
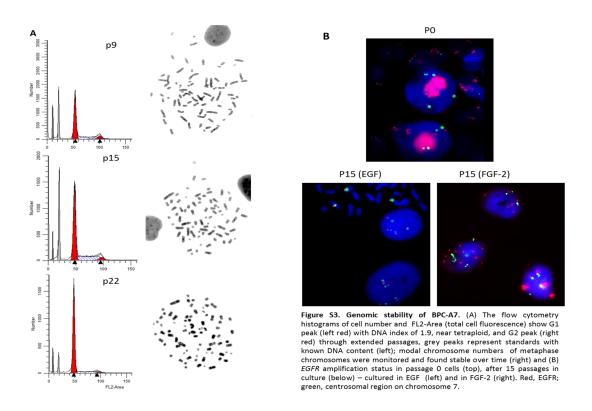
Stem cell cultures derived from pediatric brain tumors accurately model the originating tumors



 $\textbf{Figure S1.} \ (A) \ INI1 \ staining; (B) \ Hematoxylin \ and \ Eosin \ staining \ of \ tumour \ imprints.$





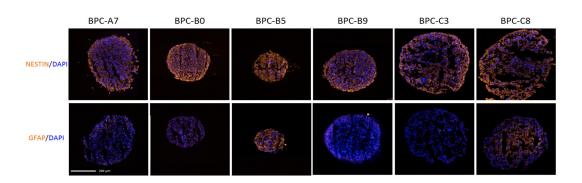


Figure S4. Protein expression in tumour spheres.

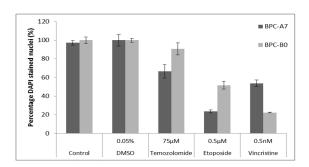


Figure S5. Reproducibility of experiments using the primary cell cultures. BPC-A7 and BPC-B0 show low variation in independent experiments treated with commonly used chemotherapeutic agents; Temozolomide, Etoposide and Vincristine, and DMSO (vehicle) or without treatment (control). The cell lines differ in their response to the treatments. The number of cells is expressed in percentage in relation to the number of cells in the DMSO wells. Error bars denote standard deviation of triplicates.

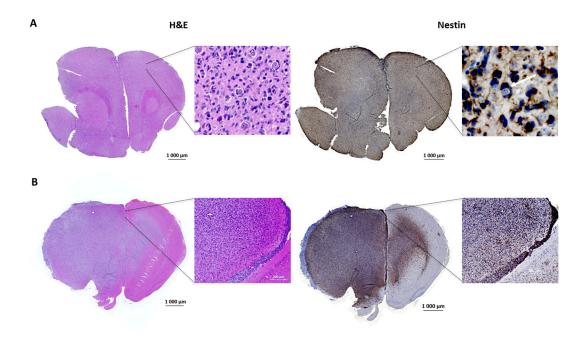


Figure S6. Coronal section of mice brain stained with H&E (left) and human nestin (right). (A) BPC-A7 injected immunodeficient mice demonstrate bilateral invasion of tumour with typical scherer's structure (tumour cells surrounding nerve cells; see arrow). (B) BPC-C3 injected mice show subpial accumulation of tumour cells. Invasion of white matter into the non-injected hemisphere can also be seen.

Table S1. Patient data.

Patient-ID	Gender	Age at diagnosis (years)	Location of the tumour	Primary or relapse	Outcome (years after diagnosis)
BPC-A7	Male	4.2	Right hemisphere (thalamus)	Primary	DOD (0.9)
BPC-B0	Male	10.4	Right hemisphere (parietal)	Relapse	DOD (2.4)
BPC-B5	Female	12.5	Brain stem	Primary	AWD (1.9)
BPC-B9	Male	6.2	Right hemisphere (thalamus)	Primary	DOD (1.3)
BPC-C3	Female	2.9	Left hemisphere (temporal)	Primary	DOD (0.5)
BPC-C8	Female	11.1	Pons (cerebellopontine angle)	Primary	DOD (0.7)

DOD, dead of disease; AWD, alive with disease