## SUPPLEMENTARY INFORMATION

for

## The ten-year evolutionary trajectory of a highly recurrent paediatric high grade neuroepithelial tumour with *MN1:BEND2* fusion

Anna Burford, Alan Mackay, Sergey Popov, Maria Vinci, Diana Carvalho, Matthew Clarke, Elisa Izquierdo, Aimee Avery, Thomas S Jacques, Wendy J Ingram, Andrew S Moore, Kieran Frawley, Timothy E Hassall, Thomas Robertson and Chris Jones **Supplementary Figure S1** – *FISH for MN1:BEND2 fusion in all recurrences*. FISH using probes directed against *MN1* (green) and *BEND2* (red), highlighting fusion signals in samples **A-K**.



MN1:BEND2 fusion probes

**Supplementary Figure S2** – *Exome sequencing of all recurrences*. For each sample **A-K**, a CIRCOS plot is given highlighting somatic SNVs and InDels (outer ring), DNA copy number changes (red=gain, blue=loss) and loss of heterozygosity (yellow) on the inner rings, and inter-chromosomal translocations inside the circle (blue).



**Supplementary Figure S3** – *Expression of IL8 in HGNET-MN1.* (A) Boxplots of RNA sequencing data from the current reference case where available (**E**, **F**, **H** and **I**) compared with a published series of hemispheric high grade glioma (HGG)<sup>13</sup>. (B) Boxplots of Affymetrix U133Plus2.0 expression array data of a series of atypical teratoid / rhabdoid tumours (AT/RT), hemispheric high grade glioma (HGG), medulloblastoma (MG), RELA-fusion positive ependymoma (EPN-RELA) and HGNET-MN1<sup>8</sup>. \*\*\*p<0.0001, t-test

