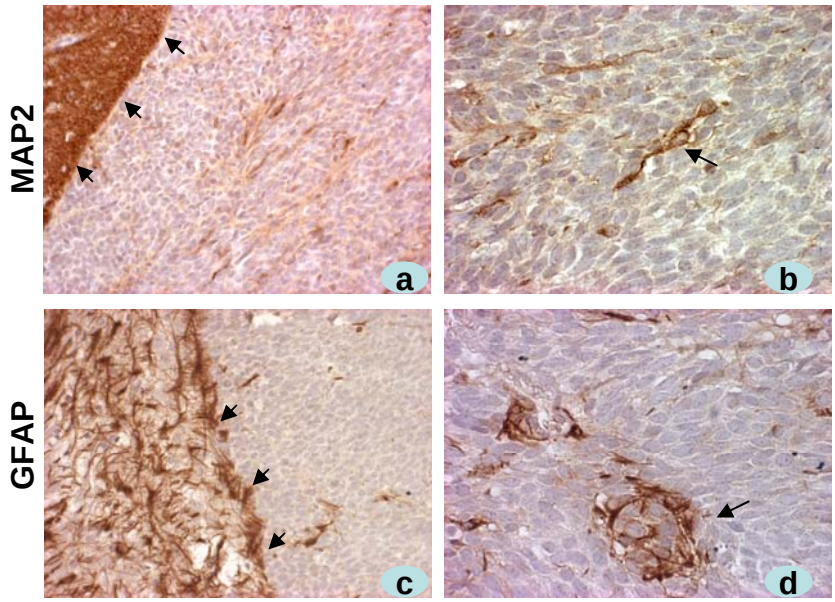
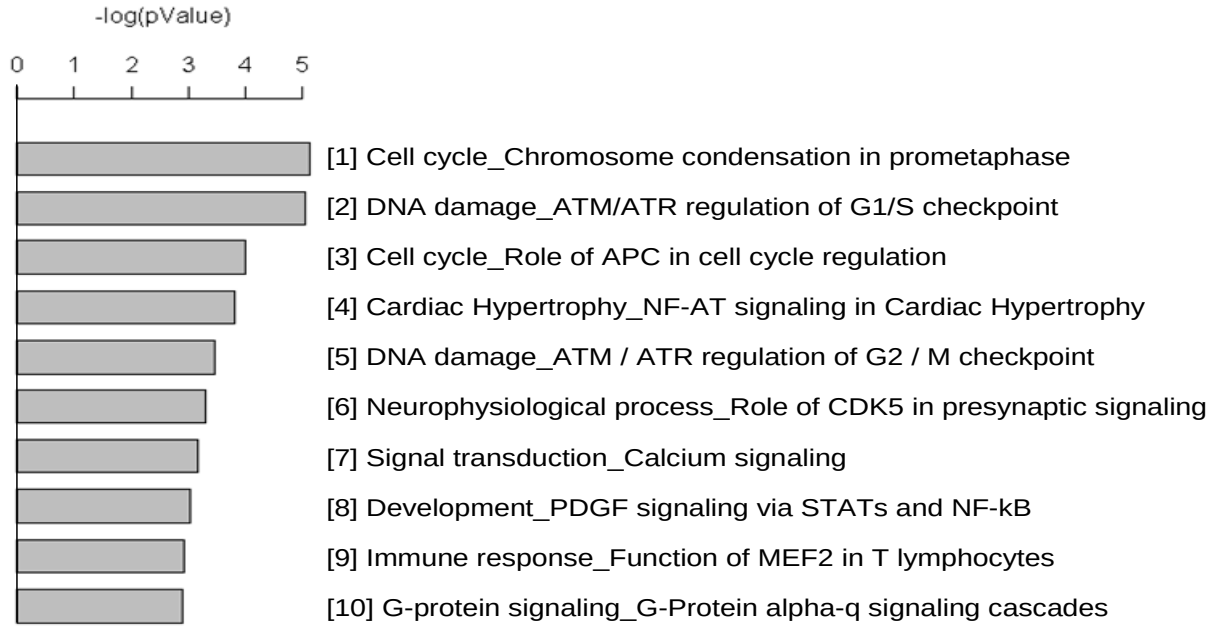
Supplemental Fig. s1. Representative images showing the immunohistochemical staining of MAP and GFAP in the xenograft tumors at passage I (*arrow*). *Arrowheads* indicate the edge of tumor beyond which strong positivity of MAP in normal mouse brain and GFAP in reactive mouse astrocytes were observed.

Supplemental Fig. s2. Gene ontology analysis of the dysregulated signaling pathways that were present in patient tumor and xenografts (both passage I and passage III) compared to the normal pooled RNA samples.

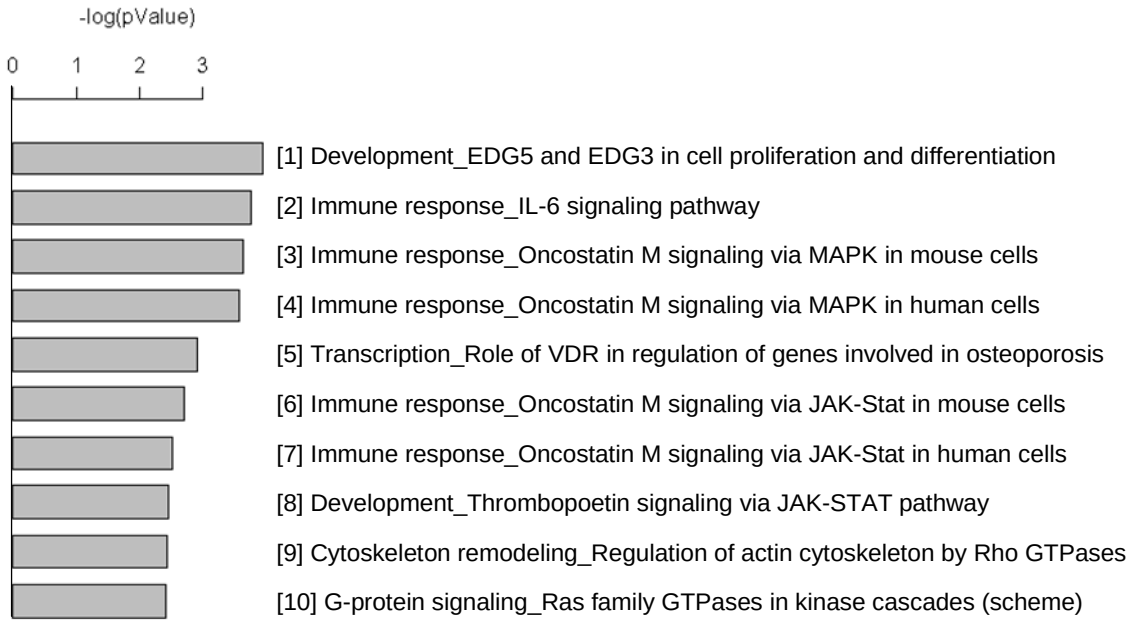
Supplemental Fig. 3. Gene ontology analysis of the dysregulated pathways that were present in the xenografts (both passage I and passage III) compared to the patient tumor RNA sample.



Supplemental Fig. s1



Supplemental Fig. s2



Supplemental Fig. s3