

# TaqMan RT-PCR Primer/Probe Sets Used for Study of Pediatric Brain Tumor Cell Lines

Manuscript (submitted): Novel Cell lines from pediatric brain tumors show multi-drug resistance to chemotherapy. Jingying Xu, Anat-Erdrich-Epstein, Ignacio Gonzalez-Gomez, Elizabeth Y. Melendez, Rex A. Moats, C. Patrick Reynolds  
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*The primers were designed using Primer Express V 1.5 software from Applied Biosystems, based on sequences from GenBank/EMBL/DDBJ. Use of these primer probe sets will be described in a manuscript in preparation.*

## **Human telomerase RNA component (hTR GAPDH GeneBank NR\_001566)**

-forward primer: 5'-TGT CTA ACC CTA ACT GAG AAG GG-3'  
-reverse primer: 5'-GTT TGC TCT AGA ATG AAC GGT GGA AGG -3'  
-probe: 5'-TTT GCT CCC CGC GCG CTG TTT T-3'

## **Human telomerase reverse transcriptase (hTERT GeneBank NM\_198253)**

-forward primer: 5'-CAC GTC CGC AAG GCC TTC AA-3'  
-reverse primer: 5'-GGC GTG GTG GCA CAT GAA-3'  
-probe: 5'-TCA TCG AGC AGA GCT CCT CCC TGT A -3'

## **V-myc myelocytomatosis viral oncogene homolog (c-myc GeneBank V00568)**

-forward primer: 5'-ACC ACC AGC AGC GAC TCT GA-3'  
-reverse primer: 5'-TCC AGC AGA AGG TGA TCC AGA CT-3'  
-probe: 5'-/FAM/ACC TTT TGC CAG GAG CCT GCC TCT -3'

## **V-myc myelocytomatosis viral related oncogene (MYCN GeneBank M13228)**

-forward primer: 5'-CGA CCA CAA GGC CCT CAG TA-3'  
-reverse primer: 5'-CAG CCT TGG TGT TGG AGG AG-3'  
-probe: 5'-/FAM/CGC TTC TCC ACA GTG ACC ACG TCG -3'

## **Glyceraldehyde-3-phosphate dehydrogenase gene (GAPDH GeneBank M33197)**

-forward primer: 5'-CAACTACATGGTTTACATGTTCCAATATG-3'  
-reverse primer: 5'-GGGATCTCGCTCCTGGAAG -3'  
-probe: 5'-CGTTCTCAGCCTTGACGGTGC CA -3'

## **Human beta-1,4-N-acetyl-galactosaminyl transferase 1(GalNAcT GeneBank BC029828)**

-forward primer: 5'-GGCTGCCTGCC-3'  
-reverse primer: 5'-CCCTCAGGAGCA -3'  
-probe: 5'-TGCCAACCTCCCCGCTCCAGTACC-3'

## **Human tyrosine hydroxylase (TH GeneBank NM\_000360)**

-forward primer: 5'-ATTGCTGAGATCGCCTTCCA-3'  
-reverse primer: 5'-AATCTCCTCGGCGGTGTA-3'  
-probe: 5'-ACAGGCACGGCGACCCGATTC-3'

**Human ubiquitin thiolesterase (PGP9.5 GeneBank NM\_004181)**

-forward primer: 5'-GCCTTTTCCGGTGAACCAT-3'

-reverse primer: 5'-AGAATTCACCGAGCGTGAGC -3'

-probe: 5'-CGCCAGTTCAGAGGACACCCTGC-3'