cells

MDPI

Supplementary Material

GPT2 Is Induced by Hypoxia-Inducible Factor (HIF)-2 and Promotes Glioblastoma Growth

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Table S1. The sequences of sgRNAs, shRNAs, and HRE.

GPT2-sgRNA1	5′-GTCGTGAACCCCCCGGTGGC-3′
GPT2-sgRNA2	5′-AAGATCCTCGTCTCCGGGGG-3′
GPT2-shRNA1	5′-CGGCATTTCTACGATCCTGAA-3′
GPT2-shRNA2	5′-GACGCCATCCAGGTGAATTAC-3′
WT GPT2 HRE	5′-GTGCGGCGAGGGCCTACCAGGGGCGACAGGCACGTT GCATGCATGCCTTGGGCGC-3′
Mutant GPT2 HRE	5′-GTGCGGCGAGGGCCTACCAGGGGCGACAGGCTTTTTG CATGCATGCCTTGGGCGC-3′

Table S2. The sequences of qPCR primers.

GPT2 mRNA	Forward: 5′-ATGGCACTATGCACCTACCC-3′
	Reverse: 5′-CGGGCACGTTTCTTAGCATC-3′
RPL13A mRNA	Forward: 5′-CTCAAGGTCGTGCGTCTG-3′
	Reverse: 5′-TGGCTTTCTCTTTCCTCTTCTC-3′
18*S* rRNA	Forward:5′-CGGCGACGACCCATTCGAAC-3′
	Reverse: 5′-GAATCGAACCCTGATTCCCCGTC-3′
GPT2 HRE	Forward: 5′-CGCGAGCTAACCGAGTG-3′
	Reverse: 5′-ACACCCAACCGGCTTTC-3′

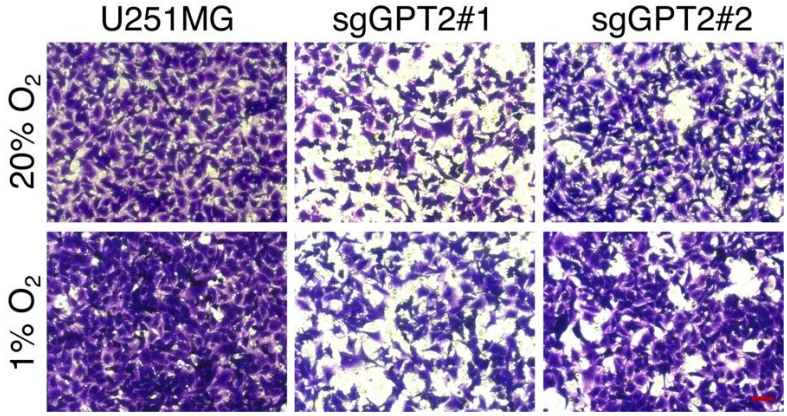

Figure S1. GPT2 promotes GBM cell migration in vitro. Parental and GPT2 knockout U251MG cells were seeded onto transwell inserts and exposed to 20% or 1% O_2 for 16 h. Representative cell migration images are shown. Scale bar, 50 μm.

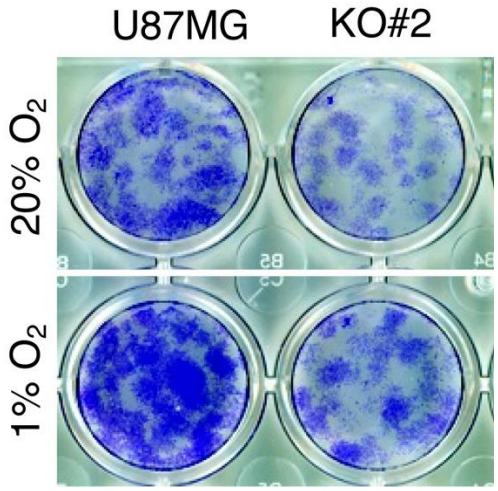

Figure S2. GPT2 promotes GBM cell growth in vitro. Parental and GPT2 KO#2 U87MG cells were exposed to 20% or 1% O_2 for 12 days. Colonies were stained with 0.01% crystal violet and imaged. Representative images are shown.