

Supplementary Information

Modeling Hypoxia Integrated Glioblastoma Microenvironment to Mimic Tumor Heterogeneity and Chemoresistance

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Supplementary Table 1 Primer list

Gene	Forward and Reverse Sequence
Glial Fibrillary Acidic Protein (GFAP)	Forward: 5'-CTGGAGAGGAAGATTGAGTCGC-3' Reverse: 5'-ACGTCAAGCTCCACATGGACCT-3'
Hypoxia-Inducible Factor 1 Alpha (HIF-1 α)	Forward: 5'-TATGAGCCAGAAGAAGCTTTTAGGC-3' Reverse: 5'-CACCTCTTTTGGCAAGCATCCTG-3'
SRY-Box Transcription Factor 2 (SOX2)	Forward: 5'-GCTACAGCATGATGCAGGACCA-3 Reverse: 5'-TCTGCGAGCTGGTCATGGAGTT-3
Chitinase-3-Like Protein 1 (CHI3L1)	Forward: 5'-CCACAGTCCATAGAATCCTCGG-3 Reverse: 5'-TGCCTGTCCTTCAGGTACTGCA-3
Matrix Metalloproteinase 2 (MMP2)	Forward: 5'-AGCGAGTGGATGCCGCCTTTAA -3 Reverse: 5'-CATTCCAGGCATCTGCGATGAG -3
Matrix Metalloproteinase 9 (MMP9)	Forward: 5'-GCCACTACTGTGCCTTTGAGTC-3 Reverse: 5'-CCCTCAGAGAATCGCCAGTACT-3

Nestin (NES)	Forward: 5'-TCAAGATGTCCCTCAGCCTGGA-3 Reverse: 5'-AAGCTGAGGGAAGTCTTGGAGC-3
Transforming Growth Factor Beta (TGF- β)	Forward: 5'-TACCTGAACCCGTGTTGCTCTC -3 Reverse: 5'-GTTGCTGAGGTATCGCCAGGAA-3
Epidermal Growth Factor Receptor (EGFR)	Forward: 5'-AACACCCTGGTCTGGAAGTACG -3 Reverse: 5'-TCGTTGGACAGCCTTCAAGACC -3
Cluster of Differentiation 44 (CD44)	Forward: 5'-CCAGAAGGAACAGTGGTTTGGC-3 Reverse: 5'-ACTGTCCTCTGGGCTTGGTGTT-3
Ki-67 Antigen (Ki-67)	Forward: 5'-GAAAGAGTGGCAACCTGCCTTC-3 Reverse: 5'-GCACCAAGTTTTACTACATCTGCC-3
Glyceraldehyde-3-Phosphate Dehydrogenase (GAPDH)	Forward: 5'-GTCTCCTCTGACTTCAACAGCG-3 Reverse: 5'-ACCACCCTGTTGCTGTAGCCAA-3