

Table SI. STR analysis of U-118MG.

Locus	STR data
D5S818	11
D13S317	9
D7S820	9
D16S539	12, 13
vWA	18
TH01	6
Amelogenin	X, Y
TPOX	8
CSF1PO	11,12

vWA, von Willebrand factor A; TH01, tyrosine hydroxylase 01;
TPOX, thyroid peroxidase; CSF1PO, colony stimulating factor 1.

Table SII. Primer sequences of the targeting tumor-associated genes.

Target gene	Forward primer, 5'→3'	Reverse primer, 5'→3'
<i>KRAS</i>	ATGACTGAATATAAACTTGTGGT	TTACATAATTACACACTTTGTCTTT
<i>EGFR</i>	ATGCGACCCTCCGGGACGGCCGGGG	TCATGCTCCAATAAATTCAC TGCTTTGT
<i>BRAF</i>	ATGGCGGCGCTGAGCGGTGGCGGTGG	CAGTGGACAGGAAACGCACCATAT

Table SIII. shRNA sequences.

Target gene	Target sequence, 5'→3'
<i>pLKO.1-TRC</i>	TTCTCCGAACGTGTCACGT
<i>shPTEN-1</i>	AGGCGCTATGTGTATTATTAT
<i>shPTEN-2</i>	CTAGAACTTATCAAACCCTTT
<i>shPTEN-3</i>	CCACAAATGAAGGGATATAAA

sh, short hairpin.

Table SIV. Reverse transcription-quantitative PCR primers.

Target gene	Forward primer, 5'→3'	Reverse primer, 5'→3'
<i>GAPDH</i>	GGAGCGAGATCCCTCCAAAAT	GGCTGTTGTCATACTTCTCATGG
<i>KRAS</i>	GGACTGGGGAGGGCTTTCT	GCCTGTTTTGTGTCTACTGTTCT
<i>KRAS^{G13D}</i>	GGAGCTGGTGACGTAGGCAAG	CTTGCCTACGTCACCAGCTCC
<i>BRAF</i>	AATACACCAGCAAGCTAGATGC	AATCAGTTCCGTTCCCCAGAG
<i>EGFR</i>	AGGCACGAGTAACAAGCTCAC	ATGAGGACATAACCAGCCACC
<i>PTEN</i>	TGGATTGCGACTTAGACTTGACCT	GGTGGGTTATGGTCTTCAAAAGG
<i>SOX2</i>	GCCGAGTGGAACCTTTTGTCTG	GGCAGCGTGTACTTATCCTTCT
<i>NANOG</i>	TGAACCTCAGCTACAAACAG	TGGTGGTAGGAAGAGTAAAG
<i>OCT4</i>	CCTCACTTCACTGCACTGTA	CAGGTTTTCTTTCCCTAGCT
<i>SOX1</i>	AATTTTATTTTCGGCGTTGC	TGGGCTCTGTCTCTTAAATTTGT
<i>PAX6</i>	ATGTGTGAGTAAAATTCTGGGCA	GCTTACAACCTTCTGGAGTCGCTA

PAX6, paired box 6.