

OMTO, Volume 22

Supplemental information

**Circular RNA *SERPINE2* promotes development
of glioblastoma by regulating the
miR-361-3p/miR-324-5p/*BCL2* signaling pathway**

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Supplementary Table 1. Sequences of qRT-PCR primers and siRNAs

Primers of qRT-PCR	circSERPINE2 Forward (5'-3')	GTGCAGTGTGCCTGTCACTA
	circSERPINE2 Reverse (5'-3')	GGCTGACGAATGTCTAAAAGGC
	GAPDH Forward (5'-3')	GGAGCGAGATCCCTCCAAAAT
	GAPDH Reverse (5'-3')	GGCTGTTGTCATACTTCTCATGG
	miR-324-5p Forward (5'-3')	GCTATCACAGAGCATTTCAT
	miR-324-5p Reverse (5'-3')	TGCACCAAACACGACTTTTAACC
	miR-361-3p Forward (5'-3')	ACACTCCAGCTGGGTCCCCCAG
	miR-361-3p Reverse (5'-3')	CTCAACTGGTGT CGTGGA
	U6 Forward (5'-3')	CTCGCTTCGGCAGCACA
	U6 Reverse (5'-3')	AACGCTTCACGAATTTGCGT
siRNAs	circSERPINE2 #1	UCACAAUCUGAUUGAAAACCU
	circSERPINE2 #2	UCCAUUUACGCCGUAUCUCAU
	circSERPINE2 #3	UUUACCAACUCCAUUUACGCC
	NC	TTCTCCGAACGTGTACGT

Supplementary Table 2. Somatic mutations of cancer-related genes in GB cell lines.

Gene Symbol	Cell lines			
	A172	U251	U87	SHG44
PTEN	Non-mutant	Mutant	Non-mutant	Non-mutant
PIK3CA	Non-mutant	Non-mutant	Non-mutant	Non-mutant
KRAS	Non-mutant	Non-mutant	Non-mutant	Non-mutant
MTOR	Non-mutant	Non-mutant	Non-mutant	Non-mutant
AKT1	Non-mutant	Non-mutant	Non-mutant	Non-mutant

Supplementary Figure 1 The expression circSERPINE2, miR-324-5p and miR-361-3p. circSERPINE2 expression is markedly upregulated in GM cancer tissues compared to normal brain tissues detected by qRT-PCR(A). miR-324-5p and miR-361-3p are silencing by miR-324-5p inhibitor and miR-361-5p inhibitor respectively (B).

Supplementary figure 1

