Supplementary Information

Supplementary Figure 1. Volcano plot describing the profile of circRNAs expression in glioma tissue and normal brain tissue.

Supplementary Figure 2. The results of RNA-Seq were confirmed by qPCR in 9 sequencing samples.
Supplementary Figure 3. The inhibition of miR-3938 expression could counteract the abilities of proliferation, migration and invasion in circCDK14 knockdown glioma cells.
Supplementary Figure 4. The level of miR-3938 and PDGFRA in glioma cells.
| Genes                  | Primer                  | Sequence (5'→3')                                    |
|-----------------------|-------------------------|----------------------------------------------------|
| circCDK14 (divergence)| Forward primer          | CTCCTCCACTGGCAGAAGAG                                 |
|                       | Reverse primer          | GTGTAGACATCTTTTGACACATATCGAG                                |
| circCDK14 (convergence)| Forward primer          | TGATCAAAACCCCTGGGACACA                                  |
|                       | Reverse primer          | GCCAGTGAGAGAGGTCTCTAA                                  |
| GAPDH (convergence)   | Forward primer          | GTTCCTCTCTGACTTCAACAGCG                                |
|                       | Reverse primer          | ACCACCTCTGTTGCTAGGCAA                                 |
| GAPDH (divergence)    | Forward primer          | TGGTCGTTTCCGTGTGAGG                                   |
|                       | Reverse primer          | TGTTGAGAGACCTCTGTTCG                                    |
| CDK14                 | Forward primer          | TGTTCAACATTTTCAACAG                                   |
|                       | Reverse primer          | GGTTGCTTTCGTGTGAG                                    |
| has_circ_0117874      | Forward primer          | CAAAGACCTAGTCAGAAGC                                   |
|                       | Reverse primer          | ATTAACCTCTTCATGCAAGC                                  |
| has_circ_0114651      | Forward primer          | TCACTGCAAAGACACACAG                                   |
|                       | Reverse primer          | GOCGTTCCAGTTTCATGCG                                   |
| has_circ_0112695      | Forward primer          | GCCATTCAAAGCTCTATCCG                                  |
|                       | Reverse primer          | GTAACCAATCTGACCTGGTAGCT                                |
| has_circ_0099761      | Forward primer          | AGATCTGGGACTTAGCAGC                                   |
|                       | Reverse primer          | GCAAGCACAAAACACAGTCTA                                 |
| has_circ_0092794      | Forward primer          | TTTCCCTGCCTATTAATAATACAGT                             |
|                       | Reverse primer          | TTTGCAGTTTCAGTTT                                       |
| has_circ_0000835      | Forward primer          | ATCCAAGTGGCAATAAGGCA                                   |
|                       | Reverse primer          | GCACCTGGCAAAGATCCCTC                                  |
| has_circ_0007061      | Forward primer          | AATGGTGACAGATCCAGCA                                   |
|                       | Reverse primer          | GATTCGAGCAGCTTCAGC                                    |
| has_circ_0005102      | Forward primer          | GGGCAGGGCAATAAAAATGGGCA                               |
|                       | Reverse primer          | AGACTGAGCCTCTCACAGC                                   |
| has_circ_0137243      | Forward primer          | TTTGCGAGGAGAAGACTATACCC                               |
|                       | Reverse primer          | CTTGCACCTTCCAGT                                        |
| has_circ_0069152      | Forward primer          | GAAGGACCATGTCAGAAGC                                   |
|                       | Reverse primer          | ATTAACCTCTCATGCAAGC                                   |
| has_circ_0136829      | Forward primer          | CAGAAGGCCAGTGATAGAA                                   |
|                       | Reverse primer          | GCTTCCTGAGCTAGCTTCTATATAAGA                           |
| miR-3938              | Stem-loop primer        | GTGCTATCCAGCTAGCGGTCAGTTCCGAGGTATTCGCAGTACGACAGCAGCTGGT |
| miR-3938              | Forward primer          | GCAGCAATTTCCCTGTAGATA                                 |
|                       | Reverse primer          | CTCGCTTCAGACAGC                                       |
| U6                    | Forward primer          | AAGCTTGCTACAGAATTTCG                                  |
|                       | Reverse primer          | CTCGCTTCAGACAGC                                       |
| PDGFRA                | Forward primer          | ATGGATAAGCAGCAGTAGC                                   |
|                       | Reverse primer          | TAAATGGGCCTGACTTGT                                     |
Table S2 Correlation between circCDK14, miR-3938 expression and clinicopathological features of patients.

| Characteristics | Case | CircCDK14 expression | P value | miR-3938 expression | P value |
|-----------------|------|----------------------|---------|---------------------|---------|
|                 |      | High | low |                   |         | High | low |         |
| All cases       | 76   | 37   | 39  | 0.643               | 38      | 38   |     | 0.486   |
| Age(years)      |      |      |     |                     |         |      |     |         |
| >50             | 34   | 17   | 15  | 0.486               | 14      | 18   |     |         |
| <=50            | 42   | 20   | 24  |                     | 24      | 20   |     |         |
| Gender          |      |      |     | 0.359               | 0.358   |      |     |         |
| Male            | 38   | 21   | 17  | 0.358               | 21      | 16   |     |         |
| Female          | 38   | 16   | 22  |                     | 17      | 22   |     |         |
| Grade           |      |      |     | 0.027               | 0.002   |      |     |         |
| I-II            | 30   | 9    | 23  | 0.002               | 22      | 8    |     |         |
| III-IV          | 46   | 28   | 16  |                     | 16      | 30   |     |         |