**Supplementary Table S1** Correlation between Tim-1 expression and clinicopathology of gliomas.

Clinicopathological features		Patients (n)	Tim-1 (Mean value 3.89) Low (n)	High (n)	*p* value
Age					0.381
	< 50 y	29	14	15	
	≥ 50 y	39	23	16	
Sex					0.592
	Male	46	24	22	
	Female	22	13	9	
WHO grade					0.002**
	I~II	29	22	7	
	III~IV	39	15	24	
Tumor size					0.874
	< 5 cm	38	21	17	
	≥ 5 cm	30	16	14	
Karnofsky					0.233
	< 70	63	33	30	
	≥ 70	5	4	1	

**p < 0.01

Supplementary Fig S1
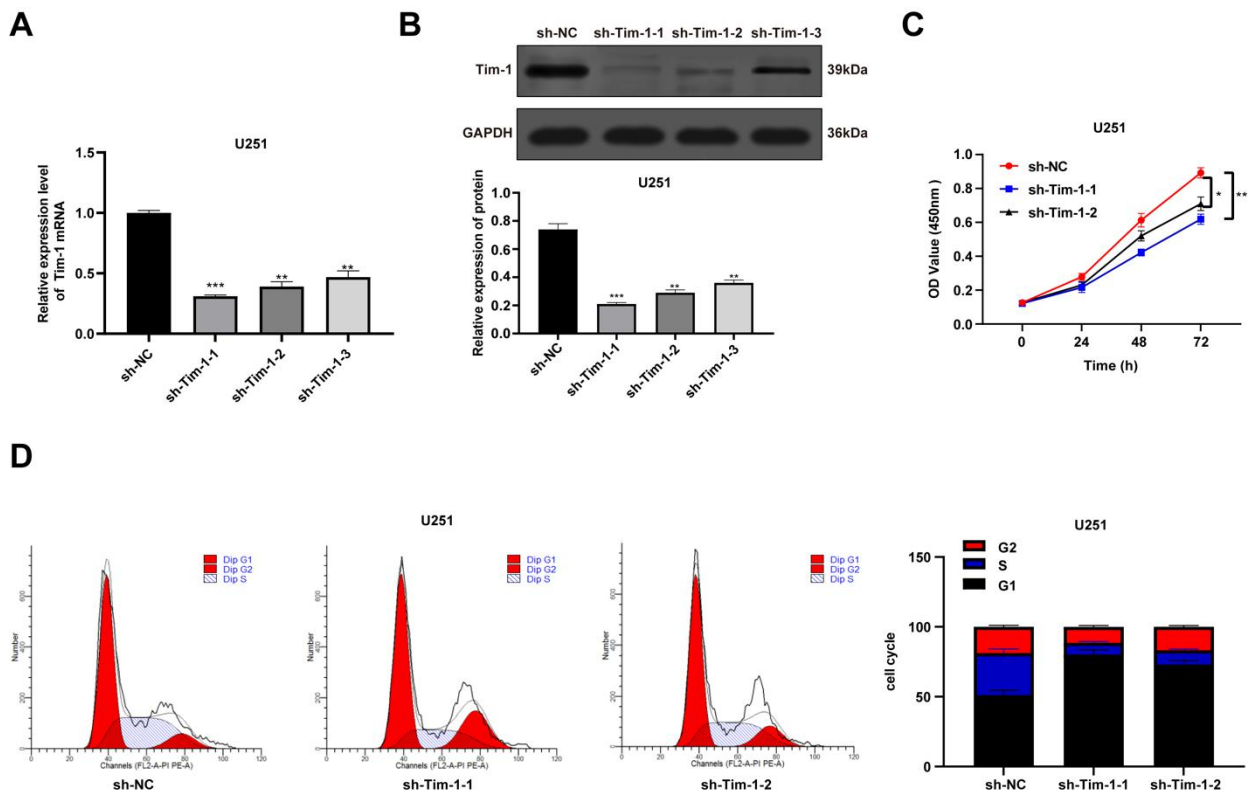
Supplementary Fig S1 A-B, Tim-1 levels in glioma cells after Tim-1 was knocked down detected by RT-qPCR and Western blot analysis; C, OD values in U87 and U251 cells detected by CCK-8 assay; D, cell cycle detected by flow cytometry;***$p < 0.001$,**$p < 0.01$. Replicates = 3. Data in panels C and D were processed with two-way ANOVA, and data in panel A and B were processed with one-way ANOVA, followed by Tukey's multiple comparisons test.

Supplementary information 1 the STR analysis of U87 cells

Cell Line Authentication – STR Profiling

Sample from: FuHeng Cell Center，Shanghai，China

Testing Method: STR Genotyping

Report Time:Mar 22, 2019

Cell Line Authentication – STR Profiling Report

Sample code

Table 1. Sample Code

Customer's code	Company Code
U87	20190314-01

Sample Number:1

Sample Type: Cell line

Testing Type: STR

Sample From: **FuHeng Cell Center，Shanghai，China**

Testing Method:

DNA was extracted by a commercial kit from CORNING (AP-EMN-BL-GDNA-250G). The twenty STRs including Amelogenin locus were amplified by six multiplex PCR and separated onABI 3730XL Genetic Analyzer. The signals were then analyzed by the software GeneMapper.

Data Interpretation:

Cell lines were authenticated using Short Tandem Repeat (STR) analysis as described in 2012 in ANSI Standard (ASN-0002) by the ATCC Standards Development Organization (SDO) and in Capes-Davis et al., Match criteria for human cell line authentication: Where do we draw the line?Int J Cancer.2013;132(11):2510-9.

Test Results:

1. Result

Table 2. Matching information on the cell lines

Sample Code	Multi-allele	Cell line matched	Cell Bank
20190314-01	NO	U87MG	ATCC

Multi-allele means some STR contain more than two loci.

2. Sample Description

20190314-01 The DNA of the cell lines found to basic match the type of cell lines in a cell lineretrieval,**ATCC** database shows that cells called **U-87MG** corresponding to the cell number **HTB-14**. No multiple alleles were found in this cell line.

3. Genotyping Result

STR and Amelogenin Genotyping Results of Cell line 20190314-01						
	Sample:u87			Cell Bank information：U-87MG		
Loci	Allele1	Allele2	Allele3	Allele1	Allele2	Allele3
D5S818	11	12		11	12	
D13S317	8	11		8	11	
D7S820	8	9		8	9	
D16S539	12	12.3		12	12	
VWA	15	17		15	17	
THO1	9.3	9.3		9.3	9.3	

AMEL	X	Y		X	X	
TPOX	8	8		8	8	.
CSF1PO	10	11		10	11	
D12S391	18	21		18	21	
FGA	18	24				
D2S1338	20	23				
D21S11	33.2	36.2				
D18S51	13	13				
D8S1179	8.3	8.3				
D3S1358	16	16.2	17			
D6S1043	11	11				
PENTAE	7	11	14			
D19S433	15	15.2				
PENTAD	9	14				

Others

1. Genotyping Strategy and Site DistributionAttached Table. Experimental Strategy and Sites

	Strategy 1	Strategy 2	Strategy 3	Strategy 4
1	TH01	TPOX	D3S1358	AMEL
2	D12S391	VWA	D13S317	D5S818
3	D7S820	D8S1179	D6S1043	D2S1338

4	CSF1PO	PENTAD	D16S539	D21S11
5	FGA		D19S433	D18S51
6	PENTAE			

The allele match algorithm compares the 8 core loci plus amelogenin only, even though alleles from all loci will be reported when available.

2. STR database comparison

DSMZ tools was used to carry on the cell line comparison, which contains 2455 cell lines STR data from ATCC, DSMZ, JCRB ,ECACC and RIKEN databases. If the cell is not included in the above cell library, users need to compared with other databases.

Sample File		Sample Name		Panel		SQO		OS		SQ	

26_B04_CellLineAuthentication-1-0320.fsa | u87 | 21Plex_STR_Panel_v0.4

26_B04_CellLineAuthentication-1-0320.fsa | u87 | 21Plex_STR_Panel_v0.4

26_B04_CellLineAuthentication-1-0320.fsa | u87 | 21Plex_STR_Panel_v0.4

26_B04_CellLineAuthentication-1-0320.fsa | u87 | 21Plex_STR_Panel_v0.4