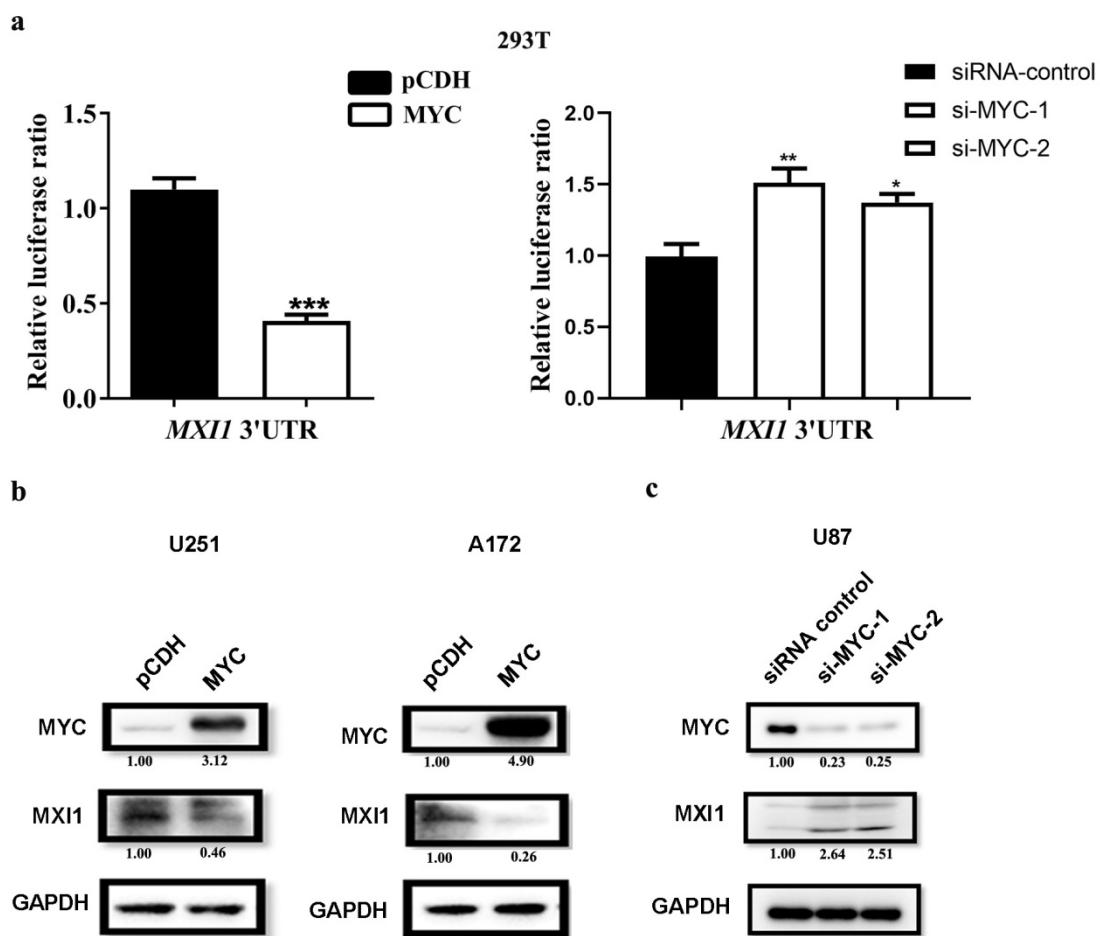
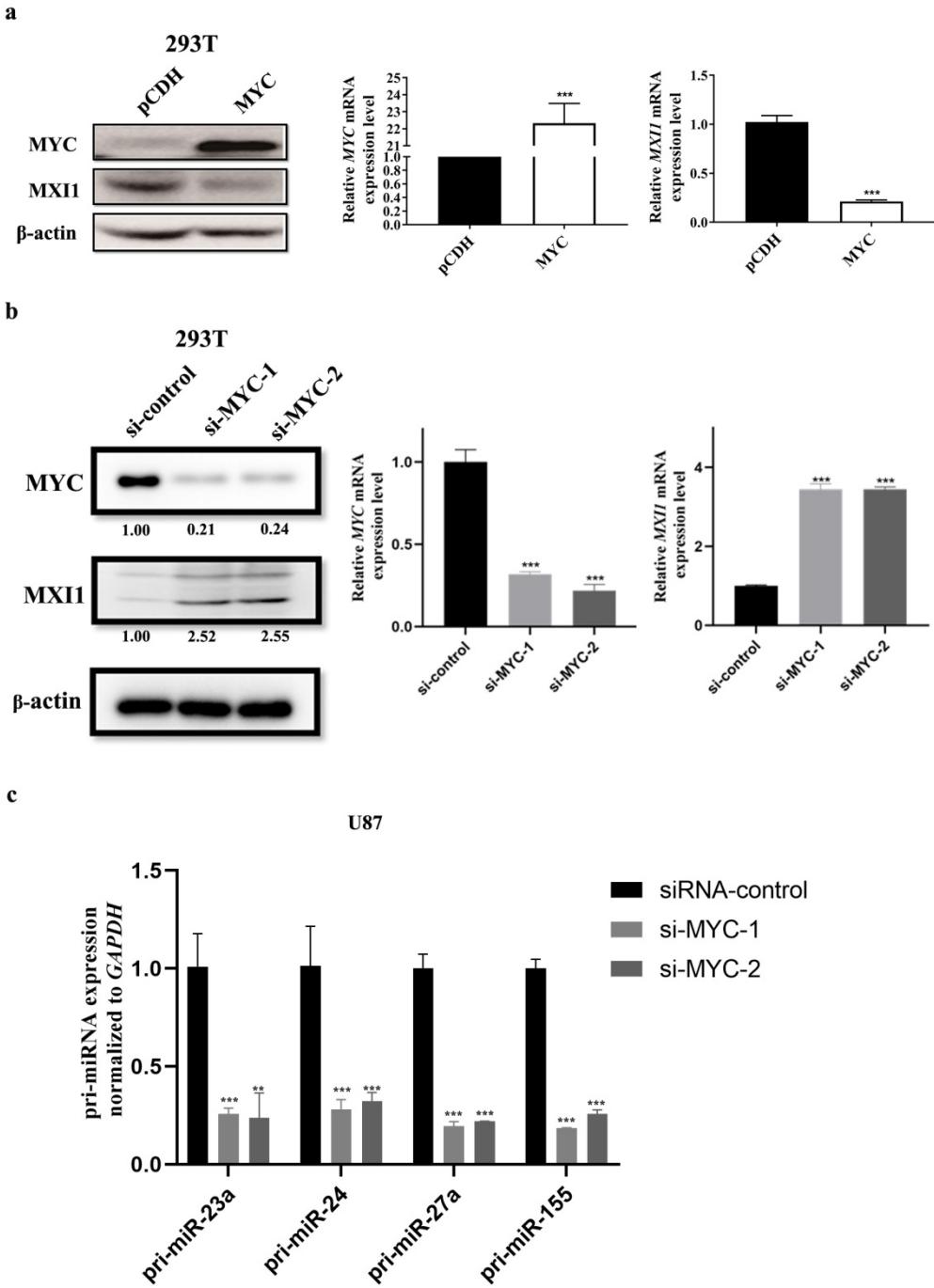


## SUPPLEMENTARY INFORMATION



**Supplementary Figure S1.** MYC inhibits MXI1 expression in glioma cell lines. **a** The *MXII* 3'UTR luciferase reporter vector were co-transfected into 293T cells with MYC overexpressing vector or MYC siRNAs (si-MYC-1, si-MYC-2), and the relative luciferase ratio was measured two days posttransfection ( $n=3$ , \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ ). **b** MYC was overexpressed in U251 and A172 cells by lentivirus infection, and the MXI1 protein level were measured by western blot in U251 and A172 glioma cells. **c** Western blot shows that transfecting U87 cells with two MYC siRNAs (si-MYC-1, si-MYC-2) both depleted MYC protein level compared to the siRNA control.



**Supplementary Figure S2.** MYC inhibited MXI1 expression in 293T cells and MYC knockdown decreased levels of miRNAs in glioma cells. **a** 293T cells were transiently transfected with MYC overexpression vector. Western blot showed that MXI1 expression decreased greatly upon MYC overexpression. Consistently, qRT-PCR indicated that MYC inhibited MXI1 expression on the mRNA level. **b** MYC depletion by siRNAs (si-MYC-1, si-MYC-2) showed higher MXI1 expression on both the mRNA and protein levels. All the data are reported as the means  $\pm$  SD after being normalized to the control. ( $n=3$ , \*\*\*  $P < 0.001$ ). **c** MYC depletion by siRNAs (si-MYC-1, si-MYC-2) decreased RNA levels of pri-miR-23, -24, -27, and -155.

**a****miR-23a-p-1k**

**GGTATTGTCTG TATTGCGCAG GCTGGTCTTG AACTCCTGGC CTCAGGTGAC TCTCCTGCCT CGGCCTCCCA - 912**

AAGTGCCTGG ATTACAGGCG TGAGCCGCCA TGCTGGCCT GAAATTCTTA GTTTCGAAC TAGAGGACCA CGTGTTCATT TTGCACCGGG TCCTGAAAAT CCTGTATCTT GCCCTGGTGC TGGGCACCTA CTGAGTGACA TACATACTCG GTGACATCTC ACTGGGCTAT GCAAAAGAGG CTCTGGCTC CATTACAG ATGGGGAAAC

TGAAGCTTTG GAGAGCTTTT GGGAAACTGT GGAGCAAGGA TTTGAACCTT GGGCTGTTG GG**TGGAGAGG - 603**

**miR-23a-p-0.5k**

CCTGTATCTT GGAGCTTGGA TCCTGTGCTC TGGGGGGCGG GGGGTGCGTG TCTAGAAAGA GAGGGGGGTG

CCTTGCTGCC GGCATCCGCC CTGGTGGGTG TGGGCTAACG CCTGGCCACT GAGGAGACCG GGCCACGGGG GGGGAGGCCG TGGTGGTTTC CTCCTGCCCT CCAGGCTTCT AGGAAGTGGC GCCAGCTGGG GTGAGATCAC TTCCTCACCC GCCTGCTGG CCCCCCTTGG CTTCTCTCC CCATGGCCCG ATTTGGCCTG CCCAGGGCTC AATGAGGGGG GAGCTTGGCC ATGCAAGTTG CTGTAGCCTC CTTGTCCCCTC ATGGGCCCTC TAGGTATCTC TGCCTCTCCA GTCCTGGGGC TGGAACGGAG GGCACAGCTA GGCTCCAGCT CCCCGTGTGG TGGCTCCTGC ATATGAGAAA AGAGCTTCCC TGTGATCAA GGAAGCATCT GGGGACCTGG AGGGGAGGTG TCCCCAAATC TCATTACCTC CTTTGCTCTC TCTCTCTTC TCCCCTCCAG GTGCCAGCCT CTGGCCCCGC CCGGTGCC

**miR-23a-p-1k miR-23a-p-0.5k**

**CCTCACCCCT GTGCCACGGC CGGCTGGGT TCCTGGGAT GGGATTTGCT **T**CCTGTCACA AATCACATTG + 1 pre-miR-23a + 49**

**CCAGGGATTT CCAACCGACC**

**b****miR-155-p-1k**

**GATTCCCCCTC TTGTACTGCA GGAGACCACA TACTTGAATG ATACTCTAAC TTCTAGGTT TGTATAGTA - 965**

ACACTGAAAT CAGAAACCTG TGGGAGAAAT GTCACTTTAT CTGAGAGAGT AAAATCAGAC TCTAAAGGA AGTAGCAAAT TCATCTTGT CTTTTTTTA ATCAACCCTC TGCTAAGAC AAGTAGTTG AAACACAGAG GACTCTTAA GTCATACTTC CTTTATGTAG TCAAAACCAA AGCCACTGGG TAGTGCTTTC CCCAAAGGAA TCTCTAAATA GTAGACGGGG ACATTTTCAG ATAGATTCTG TTGTAGGCAA ACCTCCATTG CTTGTATCAC ATTTCTGAA AGAATAAAGG TAAAACCTCA ACTATGTATT ACAGAAAGAA AAATTCAAGCC TGAACCCTAC

CCTTATAAAA CAGGTTAATT GGGTTTAAT TTTCATAAAAT CATAAAGGAC TATTTGAAC ATTT**GGGCCT - 491**

**miR-155-p-0.5k**

**TTAATTGTCT AGCTCCTAGA TGAAGTACAA ATCAGAAAAA AAAAAAACTG TACTGTGTCA GAATGCAAGC**

TTTCCTCTTT GCATTTGGC ATTTGAAAC TCCGAAGAGC GGTTTTGTT TTTTATTAA AGAAGATGAT ACATATGTGT ACCCGATTCA AACTAGAGA ATAGAATTAA AAACATAATT TTCAAGTCT TCAAATATGC CTAAGGTTAA CAATGTCATC TTTTAATTGC CAATTCTCT ACCACTTCA AAAAATTACT TCCAAGGATT TAATGAGCTC CTTCTTCA ACAGAAAATG GACTATTTC CTTTCAGATT TACTATATGC TGTCACTCCA GCTTATAAAC CGCATGTGCA TACACAAACA TTCTTCTC TCTTGAGGT GGCACAAACC AGGAAGGGGA

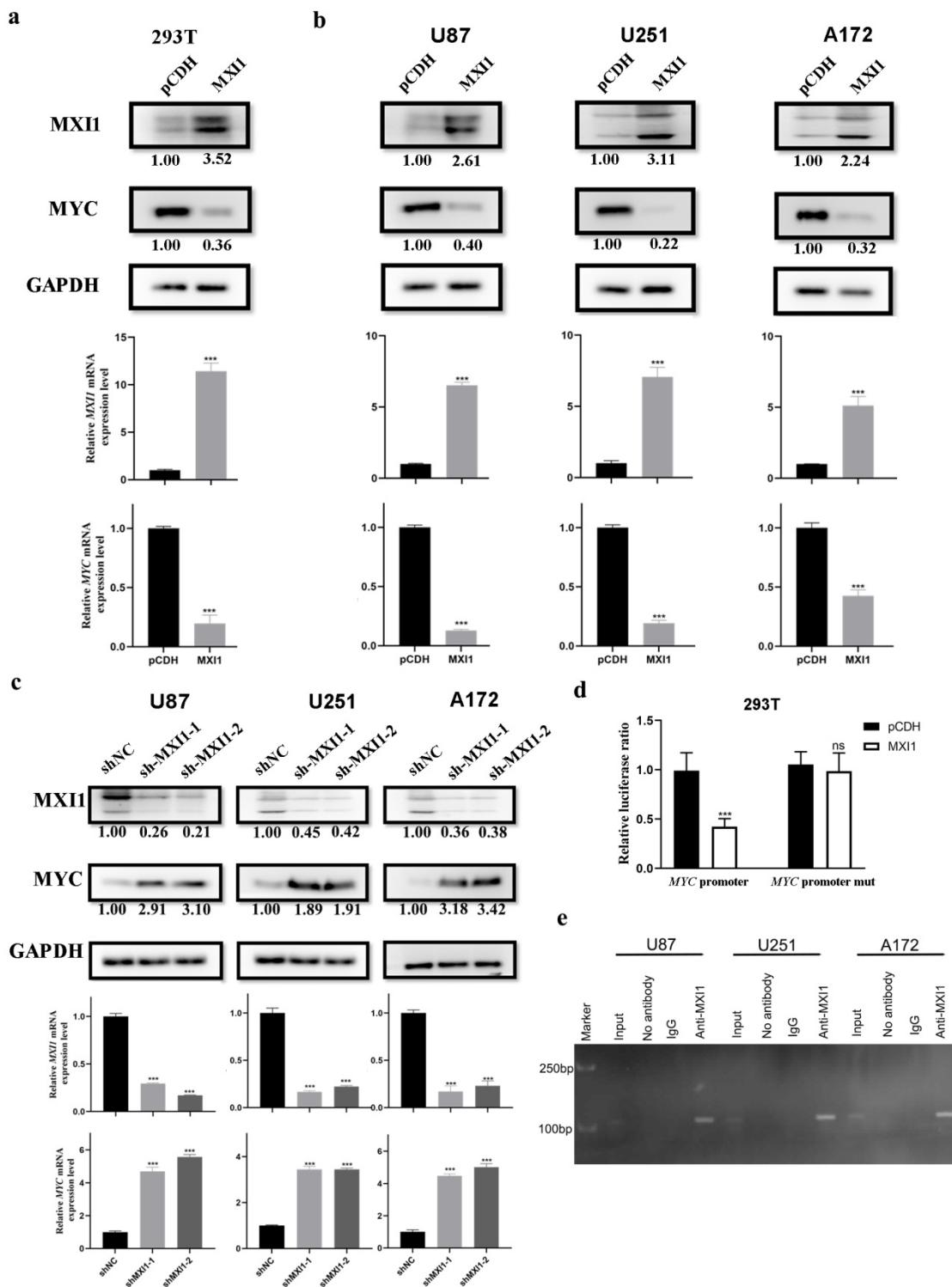
**miR-155-p-1k miR-155-p-0.5k**

**AATCTGTGGT TTAAATTCTT TATGCCAT CCTCTGAGTG CTGAAGGCTT G**C**TGTAGGCT GTAT**G**CTGTT - 14 + 1**

**pre-miR-155**

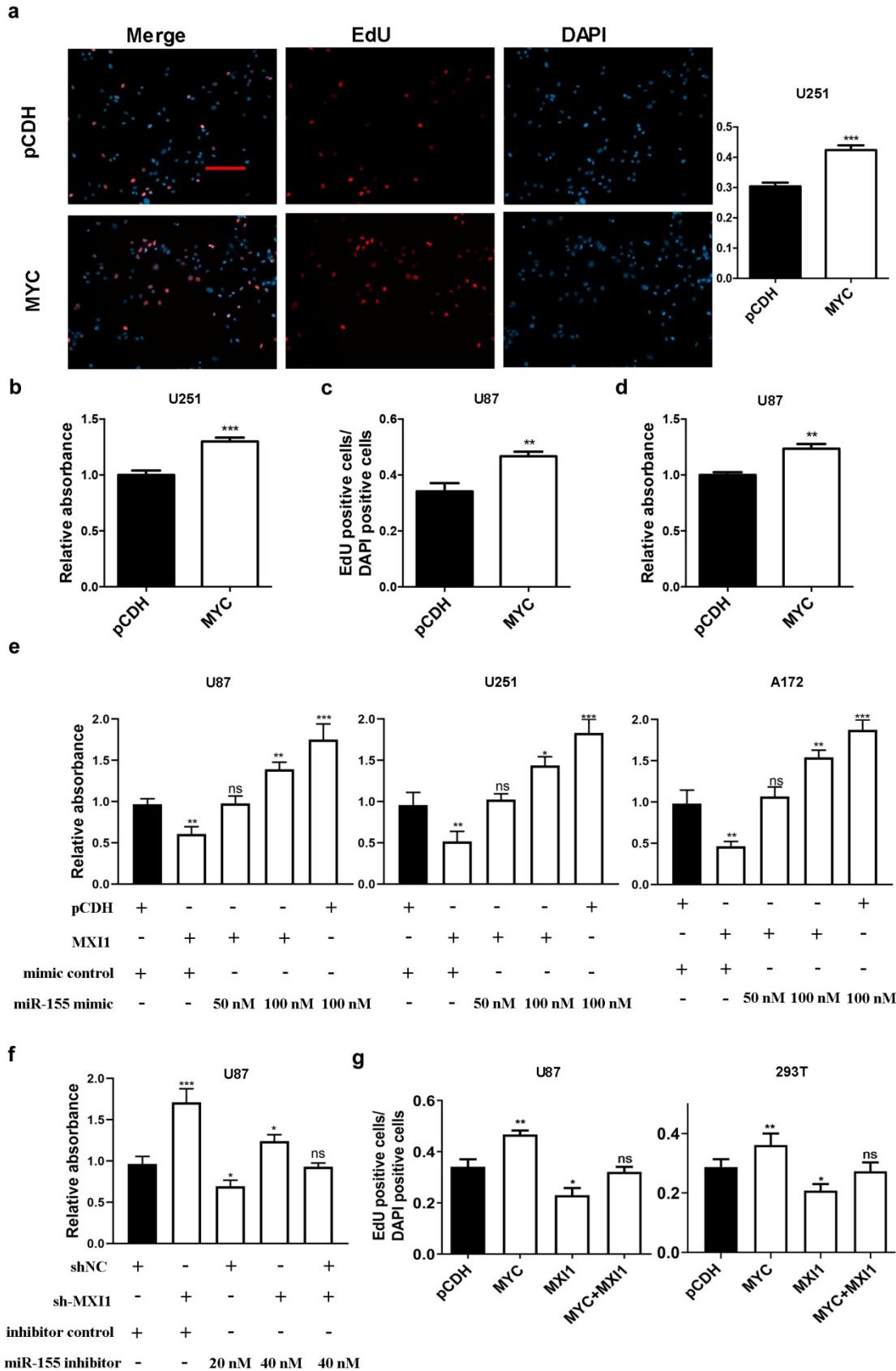
**AATGCTAACATC GTGATAGGGG TTTTGCCCTC CAACTGACTC CTACATATTA GCATTAACAG TGTATGATGC**

**Supplementary Figure S3.** Sequences and primers of miR-23a cluster and miR-155 promoters. **a** Detailed sequences and positions of miR-23a-p-1k and miR-23a-p-0.5k and the primers used were shown. **b** Detailed sequences and positions of miR-155-p-1k and miR-155-p-0.5k and the primers used were shown.



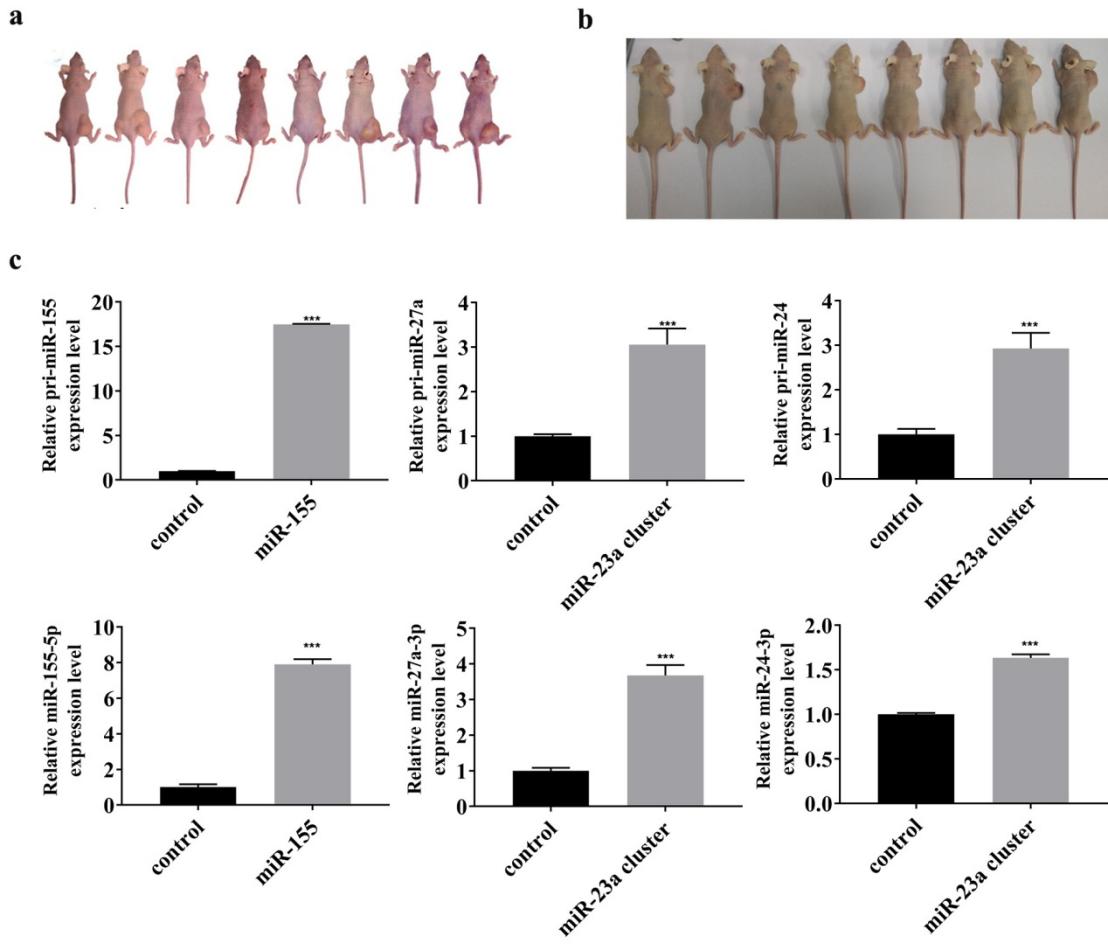
**Supplementary Figure S4.** MXI1 inhibits MYC expression. **a** Western blot shows that overexpression of MXI1 in 293T cells down-regulated MYC protein level. The protein levels of MXI1 and MYC were detected 48 h after transfection of 293T cells with an MXI1 expression vector or empty vector pCDH. GAPDH was used as a loading control. **b, c** U87, U251, or A172 cells were infected by lentivirus (**b**) overexpressing MXI1 or empty vector (as a control), or (**c**) depleting MXI1 or empty vector (as a control). Western blot (upper panel) and qRT-PCR (lower panel) were performed to examine the protein and mRNA level of MXI1 and MYC 48 h after infection, GAPDH served as a loading control for western blot and a

normalized control for qRT-PCR. **d** Measurement of the activity of the *MYC* promoter after co-transfection of a luciferase reporter of the wild-type or site-mutated *MYC* promoter and MXI1 overexpression vectors (n=3). **e** MXI1 pulled down *MYC* promoter in U87, U251, and A172 cells.

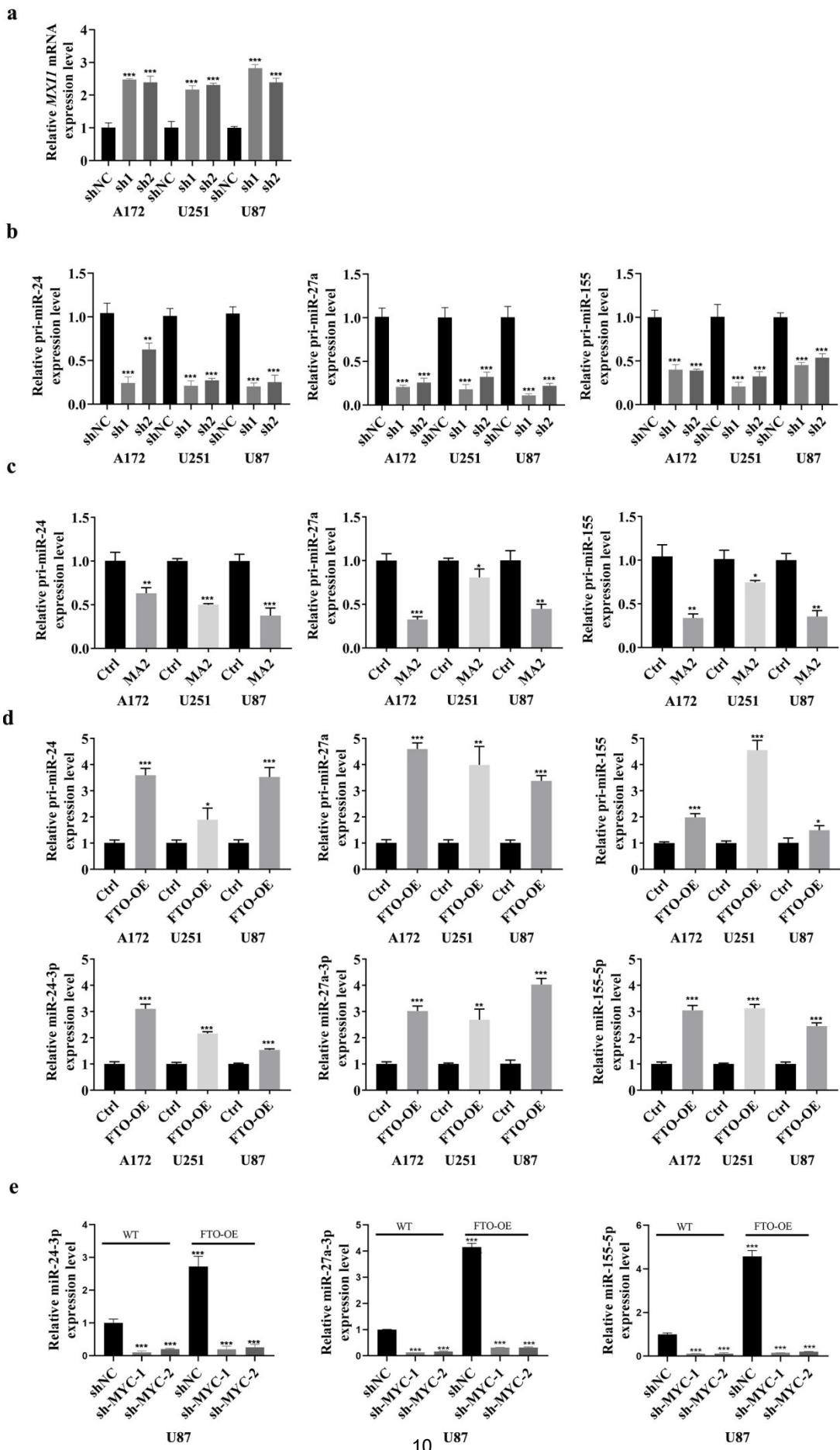


**Supplementary Figure S5.** Effects of miR-155 and MYC on proliferation can be rescued by MXI1 in glioma cells. **a** U251 cells were infected with lentivirus expressing MYC (empty vector pCDH as a control), and an EdU incorporation assay was performed. The EdU

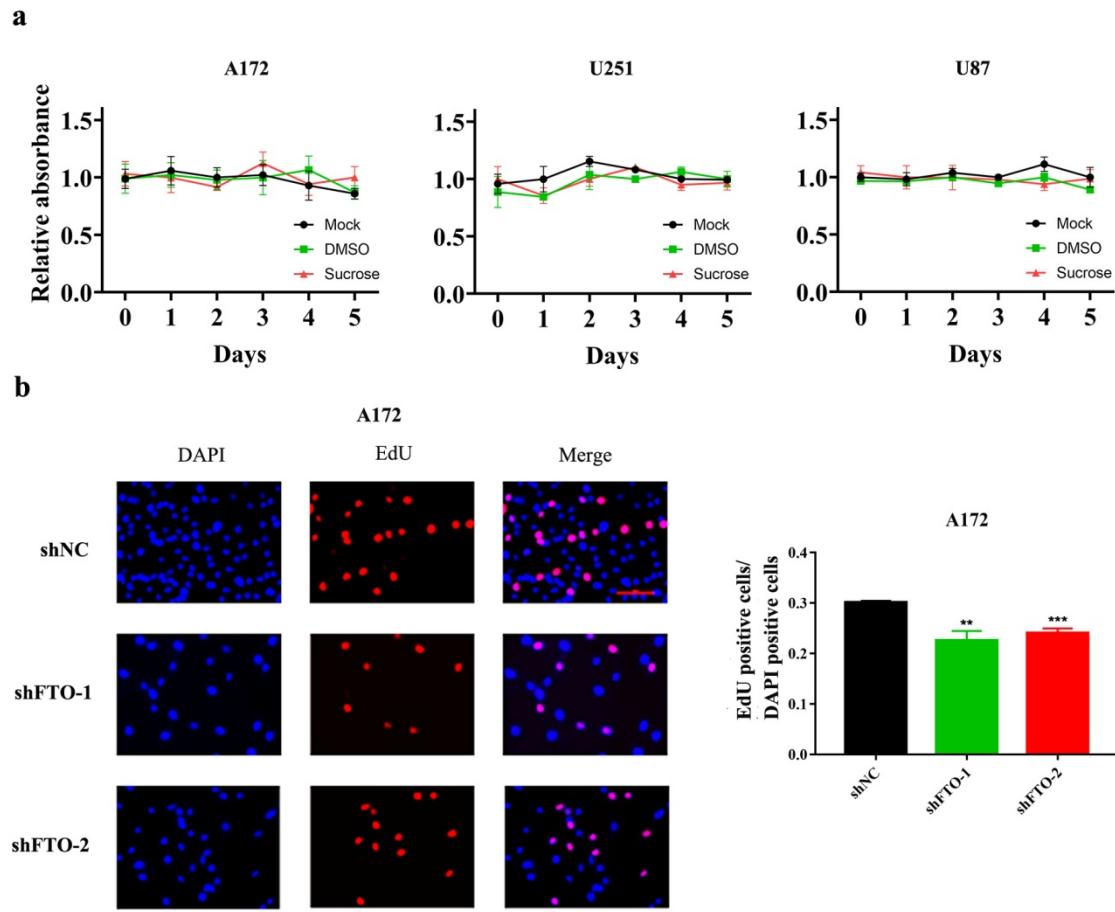
incorporation rate was expressed as the ratio of EdU-positive cells to the DAPI-positive cells; a representative graph is shown in the left panel (scale bar, 100  $\mu$ m), and the statistical results are shown in the right panel (n=5). **b** U251 cells were infected with lentivirus expressing MYC (empty vector pCDH as a control). MTT assay was performed and the statistical results are shown (n=5). **c, d** U87 cells were infected with lentivirus expressing MYC (empty vector pCDH as a control), and EdU incorporation assay (**c**) and MTT assay (**d**) were performed to investigate cell proliferation rate (n=5). **e, f** MXI1 expression (**e**) or depletion (**f**) impaired respectively the effect of the miR-155 mimic-mediated increase or the miR-155 inhibitor-mediated decrease in proliferation. U87, U251 or A172 cells were infected with lentivirus expressing or silencing MXI1 and then transfected with a miR-155 mimic or inhibitor, or infected with lentivirus expressing empty vector and then transfected with the mimic or inhibitor control. Then, cell proliferation rate was measured by MTT assay and relative absorbance was reported with the means  $\pm$  SD. **g** MXI1 rescued MYC-induced cell proliferation. U87 or 293T cells were infected with lentivirus expressing MYC, MXI1, both genes, or empty vector. EdU assay suggested that MXI1 significantly rescued the MYC-induced higher cell proliferation rate (n=5). Each data point was measured in triplicate with values representing the means  $\pm$  SD. Significant differences from the control value are indicated by \*  $P < 0.05$ , \*\*  $P < 0.01$ , and \*\*\*  $P < 0.001$ .



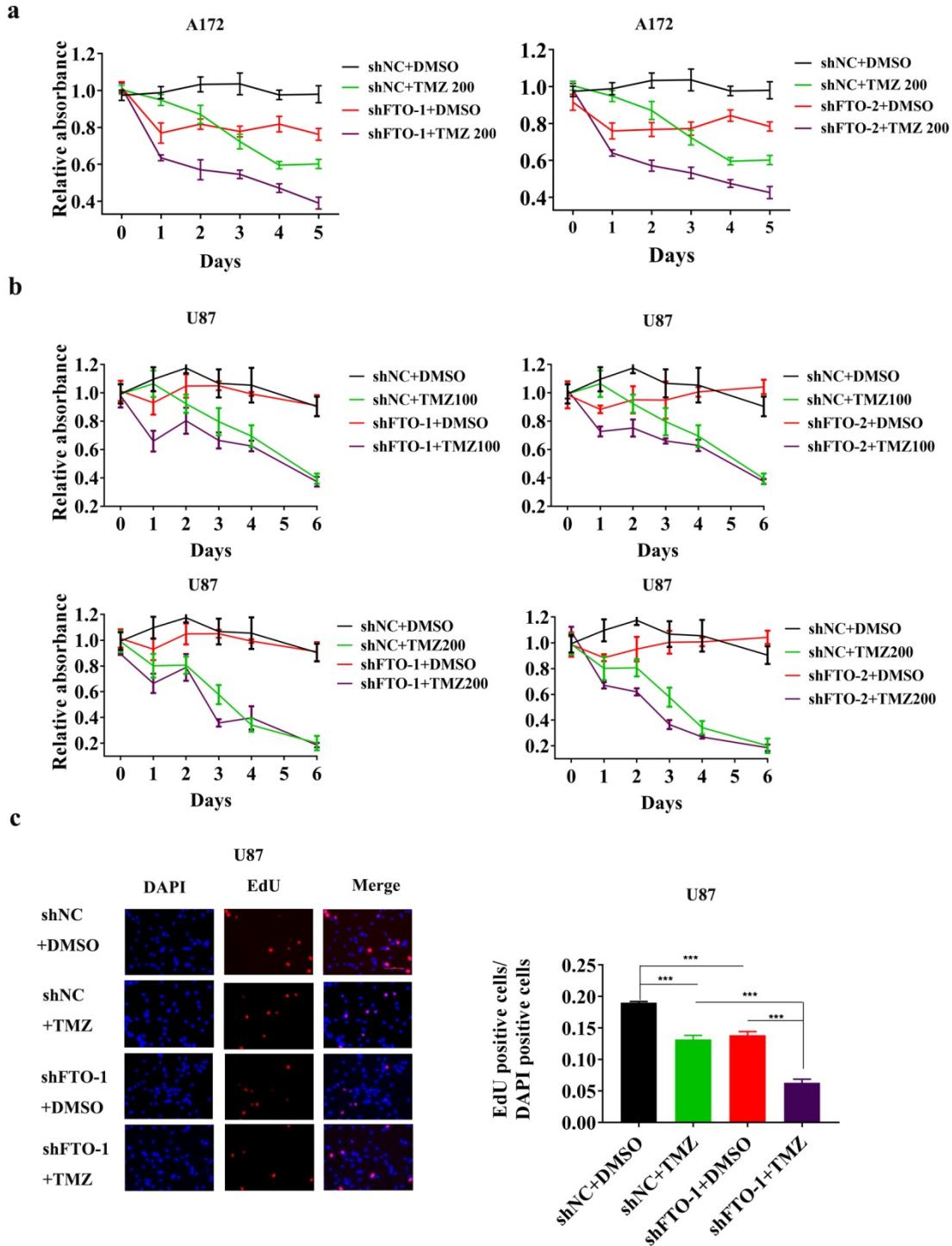
**Supplementary Figure S6.** miR-155 and the miR-23a cluster regulate MXI1 and MYC expression in xenografts. **a** Photograph showing xenograft in nude mice through subcutaneously injection of U87 overexpressing miR-155 or negative control (U87-miR-155: armpit of right hindlimb, U87-control: armpit of left hindlimb). **b** Photograph of xenograft in nude mouse after subcutaneously injection of U87 cells overexpressing miR-23a cluster or negative control (U87-miR-23a cluster: armpit of right forelimb, U87-control: armpit of left forelimb). **c** qRT-PCR to confirm the overexpression of miR-155 or miR-23a cluster in xenografts. Significant differences from the control value are indicated by \*\*\*  $P < 0.001$ .



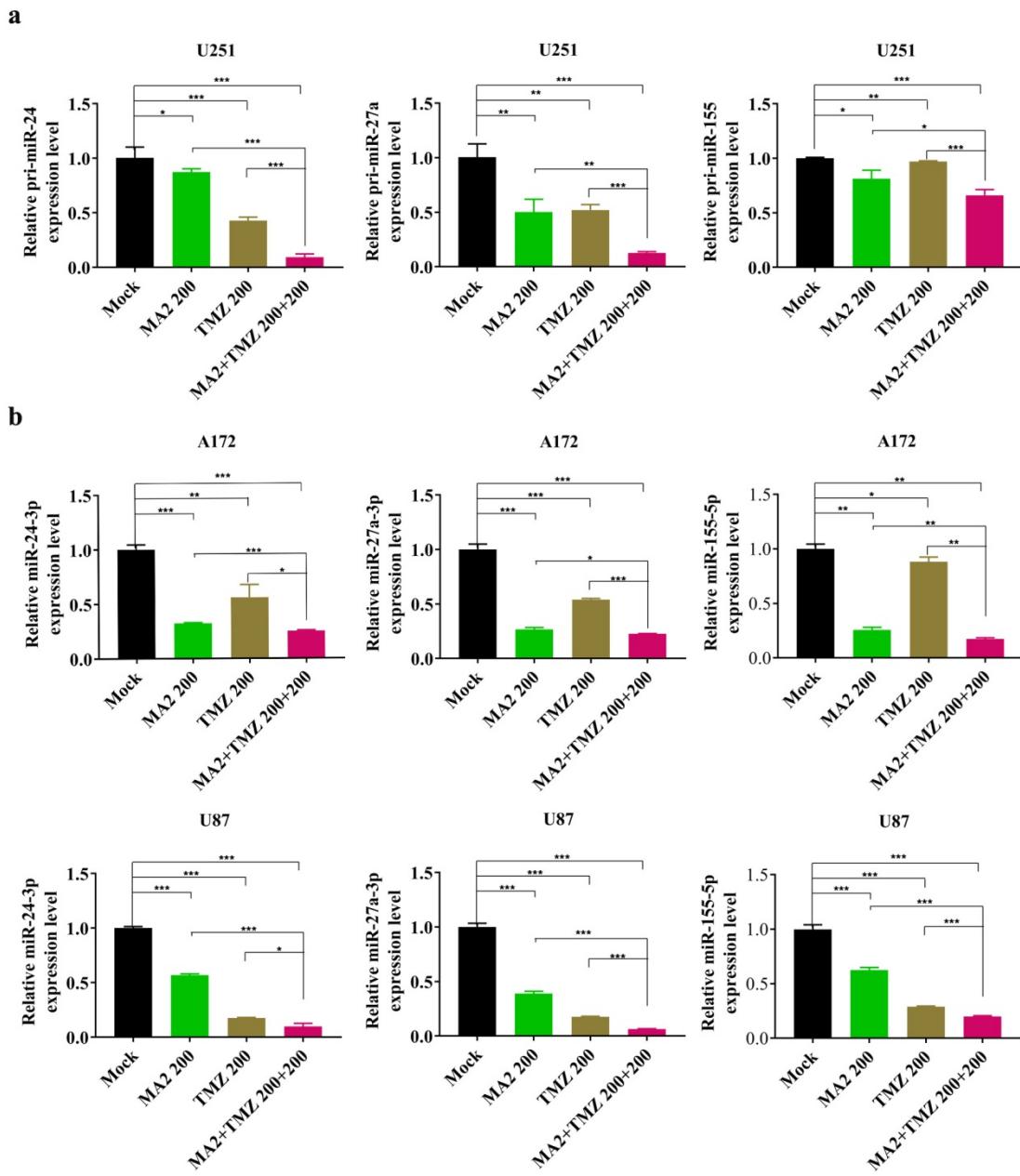
**Supplementary Figure S7.** FTO regulated downstream miRNAs of MYC in glioma cells. **a** The mRNA level of *MXII*, normalized to vector control, in A172, U251 and U87 glioma cells after FTO knockdown were measured. **b-d** The levels of primary transcripts of miR-24, -27a and -155 in A172, U251 and U87 glioma cells were measured and normalized to vector control after the cells were treated with FTO knockdown (**b**), 200  $\mu$ M MA2 for 48 h (**c**), or FTO overexpression (**d**). **e** The levels of miR-24-3p, -27a-3p and -155-5p in U87 glioma cells were measured and normalized to vector control after the cells were treated with both FTO overexpression (or control) and MYC knockdown. Significant differences from the control value are indicated by \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ .



**Supplementary Figure S8. FTO knockdown inhibited the proliferation in A172 glioma cells.** **a** A172, U251 and U87 glioma cells were treated with 400  $\mu$ M sucrose, an irrelevant compound as negative control for MA2 in Fig. 5a, for 1-5 days. MTT assay was used to analyze cell viability, and the statistical results were normalized to solvent control. **b** The effect of FTO knockdown with shFTO-1 and -2 on the proliferation in A172 glioma cells were measured with EdU assay. Representative graphs were shown in the left panel (scale bar, 100  $\mu$ m) and the corresponding ratios of EdU-positive cells to the DAPI-positive cells were shown in the right panel(n=3). Significant differences from the control value are indicated by \*\*  $P<0.01$ , \*\*\*  $P<0.001$ .



**Supplementary Figure S9.** Down-regulation of FTO expression enhanced the proliferation-inhibiting effect of TMZ. **a, b** MTT assay demonstrated that FTO KD (shFTO-1 or shFTO-2), TMZ treatment (100  $\mu$ M or 200  $\mu$ M), or their combination lowered the absorbance value of A172 (**a**) and U87 (**b**) cells. **c** EdU assay demonstrated that both FTO KD (shFTO-1), TMZ treatment (100  $\mu$ M), or their combination lowered the absorbance value of U87 cells. Representative graphs were shown in the left panel and the statistical results are shown in the right panel ( $n=3$ ). Significant differences from the control value are indicated by \*\*\*  $P < 0.001$ .



**Supplementary Figure S10.** FTO inhibitor enhanced significantly the suppression of TMZ on MYC's downstream miRNAs transcripts in glioma cells. **a** The levels of primary miRNAs miR-24, miR-27a, and miR-155 downstream of MYC in U251 cells decreased most significantly when treated with 200  $\mu$ M MA2 and 200  $\mu$ M TMZ. **b** The levels of mature miRNAs miR-24-3p, miR-27a-3p, and miR-155-5p downstream of MYC in A172 and U87 cells decreased notably after the united medication. Significant differences from the control value are indicated by \*  $P < 0.05$ , \*\*  $P < 0.01$ , \*\*\*  $P < 0.001$ .

**Supplementary Table S1. Primers used in this study**

Gene	Primer Sequence (5' to 3')
MYC	S:ATTCTAGAGCTAGCGAATTCTAGACGATGGACTACAAAGATGACGACGATA AS:AACCCCTCAACGTTAGCTT
MXII	S: GATCCTTGCGGCCGCGGATCCTACGCACAAGAGTTCCGTAGCTG AS: CACAACTCGAGATGGAGCGGGTAAGATGATCAAC
FTO	S: AAGGATCCTGCACTGTTATGTCATGCTGGGT AS: CCGCTCGAGGCCACCATGAAGCGCACCCGACTGCCG
miR-23a cluster	S: TCTAGACTAGGGTTTGCTTCCAGAACAGTGACCTCTG AS: cacaactcgagTGCTGTAGCCTCCTTGTCC
MYC-p (promoter)	S: aaggatccTCCAAGCATCAGCCCCACCC AS: tgatctagaAAAGCTTGGCCGTTTAGGG
MYC-p-mutant	S: tgaagatctGCTGCAAGGAGAGCCTTCAGAGA AS: TCAGGGCTTTATGAGACTCGCTGTAGTAATTCCAGCG
CHIP-P1	S: ACTACAGCGAGTCTCATAAAAGCCCCAAAACCGGCTT AS: AAGAACGGAGGGAGGGATCG
miR-23a-p	S: CCCGGCTCTTCCACCCCTA AS: cagtacggaaatgccaagttAAGCAAATCCCATCCCCAGG
miR-23a-p-1k	S: tgatctagaGGTATTGTCGTATTGCGCAGG AS: tgaagatctAAGCAAATCCCATCCCCAGG
miR-23a-p-0.5k	S: tgatctagaTGGAGCAAGGATTGAACCTTGG AS: tgaagatctAAGCAAATCCCATCCCCAGG
miR-155-p	S: tgatctagaGGTATTGTCGTATTGCGCAGG AS: cagtacggaaatgccaagttGCAAGCCTTCAGCACTCAGA
miR-155-p-1k	S: tgatctagaGGTATTGTCGTATTGCGCAGG AS: cagtacggaaatgccaagttGCAAGCCTTCAGCACTCAGA
miR-155-p-0.5k	S: tgatctagaGGTATTGTCGTATTGCGCAGG AS: cagtacggaaatgccaagttGCAAGCCTTCAGCACTCAGA
FTO shRNA1	S: GATCCGCACAAGCATGGCTGTTATTCAAGAGATAAGCAGCCATGCTTGCTTTTG AS: AATTCAAAAAGCACAAGCATGGCTGTTATTCAAGAGATAAGCAGCCATGCTTGCG
FTO shRNA2	S: GATCCCTCTTTGAAATCCTTGATTCAAGAGATCAAAGGATTCAAAGAGATTTC AS: AATTCAAAAATCTCTTGAAATCCTTGATCTCTGAATCAAAGGATTCAAAGAGAG
MXI1 shRNA1	S:GATCCGGAGATGGAACGAATACGATTCAAGAGAGATCGTATTGCTTCAAGAGATAAGCAGCCATGCTTGCTTTTG AS: AATTCAAAAAGAGATGGAACGAATACGATTCAAGAGAGATCGTATTGCTTCAAGAGATAAGCAGCCATGCTTGCG
MXI1 shRNA2	S:GATCCCCCTCTGAGCTTATGGTCAAGAGACCATAAGCTCAGGAAGGGTTTTG AS: AATTCAAAAACCCCTCTGAGCTTATGGTCTCTGAACCATAAGCTCAGGAAGGGG
MYC shRNA1	S:GATCCGACAGTGTCAAGAGATCAGGACTCTGACACTGTCTTCAAGAGACAAGTTGTGTTCAACTGTTTTTG AS: AATTCAAAAAGACAGTGTCAAGAGACTCTGACACTGTCTTCAAGAGACAAGTTGTGTTCAACTGTC
MYC shRNA2	S:GATCCCAGTTGAAACACAAACTTGTCAAGAGACAAGTTGTGTTCAACTGTTTTTG AS: AATTCAAAAACAGTTGAAACACAAACTTGTCTTGAACAAAGTTGTGTTCAACTG

**qRT-PCR**

pri-miR-155	S: GCTAATCGTGATAGGGTTT AS: TAATGCTAATATGTAGGAGT
pri-miR-23a	S: TCCTGGGGATGGGATTGCTT AS: GTCGGTTGAAATCCCTGGC
pri-miR-24	S: CCGTGCCTACTGAGCTGAAAC AS: CTGAAC TGAGCCAGTGTACACAAA
pri-miR-27a	S: AGGGCTTAGCTGCTTGTGAG AS: AGCCACTGTGAACACGACTT
miR-155	RT: CTCAACTGGTGTGAGTCGGCAATT CAGTTGAGaccctat S: CCAGCTGGGTTAACGTAATCGTGAT AS: CTGGTGTGAGTCGGCAATT
miR-23a-3p	RT: CTCAACTGGTGTGAGTCGGCAATT CAGTTGAGggaaatcc S: CCAGCTGGGATCACATTGCCAGGG AS: CTGGTGTGAGTCGGCAATT
miR-24-3p	RT: CTCAACTGGTGTGAGTCGGCAATT CAGTTGAGctgttcct S: CCAGCTGGGTTCACAGTGGCTAAG AS: CTGGTGTGAGTCGGCAATT
miR-27a-3p	RT: CTCAACTGGTGTGAGTCGGCAATT CAGTTGAGgccaact S: CCAGCTGGGTTCACAGTGGCTAAG AS: CTGGTGTGAGTCGGCAATT
U6 snRNA	RT: CTCAACTGGTGTGAGTCGGCAATT CAGTTGAGAAAAATATG S: CTCGCTTCGGCAGCACA AS: AACGCTTCACGAATTGCGT
MXI1	S: GGAAAAGAACGACGAGCTCAT AS: GGGTGCAGTCTGGTCCCTAGTG
MYC	S: GTCAAGAGGCGAACACACAAAC AS: TTGGACGGACAGGATGTATGC
FTO	S: CGGTATCTCGCATCCTCATT AS: ATTCAGCCTCGGTGTGTTT
GAPDH	S: CCCACTCCTCCACCTTGAC AS: CCACCACCCCTGTTGCTGTAG

**Supplementary Table S2. RNA oligonucleotides used in this study**

siRNA	Sequence (5' to 3')
siRNA/miRNA control	S: UUCUCCGAACGUGUCACGUTT AS: ACGUGACACGUUCGGAGAATT
si-MYC-1	S: GACAGUGUCAGAGUCCUGATT AS: UCAGGACUCUGACACUGUCTT
si-MYC-2	A: CAGUUGAACACAAACUUGAATT AS: UUCAAGUUUGUGUUUCAACUGTT
miR-155 mimic	S: UUAAUGCUALCGUGAUAGGGTT AS: CCCUAUCACGAUUAGCAUUAAATT
inhibitor control	S: CAGUACUUUUGUGUAGUACAA
miR-155-5p inhibitor	S: ACCCCUAUCACGAUUAGCAUUAA
miR-24-3p inhibitor	S: CUGUCCUGCUGAACUGAGCCA
miR-27a-3p inhibitor	S: GCGAACUUAGCCACUGUGAA

**Supplementary Table S3.** List of pre-miRNAs and their corresponding mature miRNAs that are both dysregulated in glioma and show strong interaction with *MXII* 3'UTR

No.	Current Name	Previous Name	Responding pre-miRNA
1	hsa-let-7d-3p	hsa-let-7dstar	hsa-let-7d
2	hsa-let-7f-2-3p	hsa-let-7f-2star	hsa-let-7f-2
3	hsa-miR-106a-5p	hsa-miR-106a	hsa-mir-106a
4	hsa-miR-155-5p	hsa-miR-155	hsa-mir-155
5	hsa-miR-183-5p	hsa-miR-183	hsa-mir-183
6	hsa-miR-200b-3p	hsa-miR-200b	hsa-mir-200b
7	hsa-miR-24-3p	hsa-miR-24	hsa-mir-24-2
8	hsa-miR-27a-3p	hsa-miR-27a	hsa-mir-27a
9	hsa-miR-29a-5p	hsa-miR-29astar	hsa-mir-29a
10	hsa-miR-335-3p	hsa-miR-335star	hsa-mir-335
11	hsa-miR-335-5p	hsa-miR-335	
12	hsa-miR-342-5p	hsa-miR-345	hsa-mir-342
13	hsa-miR-361-3p		hsa-mir-361
14	hsa-miR-486-5p	hsa-miR-486	hsa-mir-486
15	hsa-miR-512-3p		hsa-mir-512-1/hsa-mir-512-2
16	hsa-miR-512-5p		
17	hsa-miR-513a-5p	hsa-miR-513	hsa-mir-513a-2
18	hsa-miR-623		hsa-mir-623
19	hsa-miR-664a-3p	hsa-miR-664	hsa-mir-664

**Supplementary Table S4. Large-scale screening for miRNAs that interact with *MXI1***

pre-miRNA	Average log2 fold change	SSMD	Frequency	Percent	Valid Percent	Cumulative Percent	Cumulative Percent/100
hsa-mir-486	-1.229936529	-5.539791	1	0.2	0.2	0.5	0.004942
hsa-mir-328	-1.127334915	-4.3050843	1	0.2	0.2	1.0	0.009885
hsa-mir-27a	-1.244514299	-4.0882033	1	0.2	0.2	0.3	0.003295
hsa-mir-183	-0.803864151	-3.9653378	1	0.2	0.2	1.6	0.016474
hsa-mir-105-1	-1.161109402	-3.7922664	1	0.2	0.2	0.8	0.008237
hsa-mir-892b	-0.668449151	-3.599428	1	0.2	0.2	2.8	0.028007
hsa-mir-29a	-1.074965933	-3.598893	1	0.2	0.2	1.2	0.011532
hsa-mir-513a-2	-0.803559002	-3.5905195	1	0.2	0.2	1.8	0.018122
hsa-let-7d	-1.209139618	-3.5456608	1	0.2	0.2	0.7	0.00659
hsa-mir-512-2	-0.586817261	-3.5365015	1	0.2	0.2	4.3	0.042834
hsa-mir-934	-1.304320155	-3.3903554	1	0.2	0.2	0.2	0.001647
hsa-mir-744	-0.71976096	-3.2749827	1	0.2	0.2	2.3	0.023064
hsa-mir-24-2	-0.880390454	-3.2040887	1	0.2	0.2	1.3	0.01318
hsa-mir-551a	-0.643791012	-3.0256829	1	0.2	0.2	3.3	0.032949
hsa-mir-340	-0.538351967	-3.019203	1	0.2	0.2	5.4	0.054366
hsa-mir-623	-0.60628356	-2.919873	1	0.2	0.2	3.6	0.036244
hsa-mir-335	-0.557061897	-2.7927576	1	0.2	0.2	4.9	0.049423
hsa-mir-1913	-0.433102735	-2.5956542	1	0.2	0.2	7.6	0.075783
hsa-mir-512-1	-0.644107954	-2.5777674	1	0.2	0.2	3.1	0.031301
hsa-mir-1826	-0.601132892	-2.4833831	1	0.2	0.2	4.0	0.039539
hsa-mir-155	-0.59497576	-2.4530948	1	0.2	0.2	4.1	0.041186
hsa-mir-875	-0.730897157	-2.448258	1	0.2	0.2	2.0	0.019769
hsa-mir-199a-2	-0.507744515	-2.4468321	1	0.2	0.2	6.3	0.062603
hsa-mir-133a-2	-0.465846769	-2.4366976	1	0.2	0.2	6.8	0.067545
hsa-mir-664	-0.544982873	-2.3885164	1	0.2	0.2	5.3	0.052718
hsa-mir-361	-0.823689122	-2.3700165	1	0.2	0.2	1.5	0.014827
hsa-mir-106a	-0.729993798	-2.367874	1	0.2	0.2	2.1	0.021417
hsa-mir-548i-1	-0.471286907	-2.3192523	1	0.2	0.2	6.6	0.065898
hsa-mir-561	-0.420831957	-2.3053707	1	0.2	0.2	8.2	0.082372
hsa-let-7a-2	-0.428748247	-2.2826947	1	0.2	0.2	7.7	0.07743
hsa-mir-1200	-0.423029727	-2.1578944	1	0.2	0.2	7.9	0.079077
hsa-mir-648	-0.340715609	-2.1416914	1	0.2	0.2	13.5	0.135091
hsa-mir-1281	-0.416337934	-2.1403383	1	0.2	0.2	8.6	0.085667
hsa-mir-937	-0.334772543	-2.1275027	1	0.2	0.2	13.8	0.138386
hsa-mir-874	-0.400808752	-2.090162	1	0.2	0.2	9.2	0.092257
hsa-let-7f-2	-0.566951082	-2.0705336	1	0.2	0.2	4.6	0.046129
hsa-let-7f-1	-0.567169465	-2.0548375	1	0.2	0.2	4.4	0.044481
hsa-mir-200b	-0.508592342	-2.0326459	1	0.2	0.2	6.1	0.060956
hsa-mir-129-2	-0.665310066	-2.0278618	1	0.2	0.2	3.0	0.029654
hsa-mir-342	-0.690378687	-2.0100637	1	0.2	0.2	2.5	0.024712
hsa-mir-1264	-0.206852245	-2.0043497	1	0.2	0.2	25.5	0.255354
hsa-mir-1244	-0.377468208	-2.0017463	1	0.2	0.2	11.0	0.110379
hsa-mir-770	-0.38398075	-1.99691	1	0.2	0.2	10.2	0.102142
hsa-mir-15b	-0.62418715	-1.9934181	1	0.2	0.2	3.5	0.034596
hsa-mir-105-2	-0.434980546	-1.9675908	1	0.2	0.2	7.4	0.074135
hsa-mir-24-1	-0.420835751	-1.9594484	1	0.2	0.2	8.1	0.080725
hsa-mir-520f	-0.601938093	-1.9145265	1	0.2	0.2	3.8	0.037891

hsa-mir-128-1	-0.351601189	-1.8724685	1	0.2	0.2	12.7	0.126853
hsa-mir-516b-2	-0.454292811	-1.8645785	1	0.2	0.2	7.1	0.07084
hsa-mir-655	-0.362918416	-1.861408	1	0.2	0.2	11.9	0.118616
hsa-mir-511-2	-0.241771823	-1.8340462	1	0.2	0.2	20.9	0.209226
hsa-mir-29b-2	-0.285225746	-1.8046995	1	0.2	0.2	17.0	0.169687
hsa-mir-516b-1	-0.677233995	-1.7712117	1	0.2	0.2	2.6	0.026359
hsa-mir-23a	-0.401097048	-1.7675998	1	0.2	0.2	9.1	0.09061
hsa-mir-193b	-0.362552241	-1.7124478	1	0.2	0.2	12.2	0.121911
hsa-mir-617	-0.274779846	-1.6849063	1	0.2	0.2	18.3	0.182867
hsa-mir-615	-0.308678781	-1.6767753	1	0.2	0.2	14.8	0.14827
hsa-mir-944	-0.290716282	-1.6679892	1	0.2	0.2	16.6	0.166392
hsa-mir-555	-0.373212636	-1.6634393	1	0.2	0.2	11.4	0.113674
hsa-mir-149	-0.281302749	-1.6576745	1	0.2	0.2	17.5	0.174629
hsa-mir-346	-0.282236361	-1.6557331	1	0.2	0.2	17.1	0.171334
hsa-mir-1278	-0.3592096	-1.6476569	1	0.2	0.2	12.4	0.123558
hsa-mir-142	-0.549950855	-1.6470994	1	0.2	0.2	5.1	0.051071
hsa-mir-100	-0.39757191	-1.6348034	1	0.2	0.2	9.7	0.097199
hsa-let-7e	-0.39162993	-1.626693	1	0.2	0.2	9.9	0.098847
hsa-mir-302d	-0.208239454	-1.6232837	1	0.2	0.2	25.2	0.252059
hsa-mir-324	-0.519219454	-1.6146789	1	0.2	0.2	5.6	0.056013
hsa-mir-1267	-0.186847087	-1.6106398	1	0.2	0.2	27.8	0.278418
hsa-mir-429	-0.565935938	-1.6071977	1	0.2	0.2	4.8	0.047776
hsa-mir-584	-0.419108561	-1.6014119	1	0.2	0.2	8.4	0.08402
hsa-mir-140	-0.383887705	-1.5964876	1	0.2	0.2	10.4	0.103789
hsa-mir-133b	-0.296371071	-1.5906058	1	0.2	0.2	16.3	0.163097
hsa-mir-507	-0.398364342	-1.546829	1	0.2	0.2	9.4	0.093904
hsa-mir-138-2	-0.50154039	-1.5084948	1	0.2	0.2	6.4	0.06425
hsa-mir-205	-0.355869953	-1.4856624	1	0.2	0.2	12.5	0.125206
hsa-mir-619	-0.238461097	-1.4601152	1	0.2	0.2	21.3	0.212521
hsa-mir-222	-0.514811855	-1.4595622	1	0.2	0.2	5.8	0.057661
hsa-mir-7-1	-0.311757951	-1.4582759	1	0.2	0.2	14.5	0.144975
hsa-mir-519b	-0.463387265	-1.4357285	1	0.2	0.2	6.9	0.069193
hsa-mir-432	-0.235088098	-1.4342224	1	0.2	0.2	21.9	0.21911
hsa-mir-135a-2	-0.336904291	-1.422283	1	0.2	0.2	13.7	0.136738
hsa-mir-548f-2	-0.309004776	-1.388298	1	0.2	0.2	14.7	0.146623
hsa-mir-1243	-0.242849223	-1.3842913	1	0.2	0.2	20.8	0.207578
hsa-mir-504	-0.344310521	-1.3429612	1	0.2	0.2	13.2	0.131796
hsa-mir-552	-0.312118973	-1.335722	1	0.2	0.2	14.3	0.143328
hsa-mir-760	-0.273722361	-1.3334889	1	0.2	0.2	18.5	0.184514
hsa-mir-508	-0.511870475	-1.3271747	1	0.2	0.2	5.9	0.059308
hsa-mir-505	-0.298852757	-1.3191373	1	0.2	0.2	16.1	0.16145
hsa-mir-511-1	-0.302185991	-1.304899	1	0.2	0.2	15.5	0.15486
hsa-mir-20a	-0.30780703	-1.304368	1	0.2	0.2	15.0	0.149918
hsa-mir-643	-0.24661143	-1.2731795	1	0.2	0.2	20.4	0.204283
hsa-mir-625	-0.37908542	-1.2577348	1	0.2	0.2	10.7	0.107084
hsa-let-7g	-0.193055616	-1.2302656	1	0.2	0.2	27.0	0.270181
hsa-mir-802	-0.36773805	-1.2277941	1	0.2	0.2	11.7	0.116969
hsa-mir-1284	-0.383353756	-1.2241932	1	0.2	0.2	10.5	0.105437
hsa-mir-325	-0.224579949	-1.2212565	1	0.2	0.2	23.2	0.23229
hsa-mir-1273	-0.282226792	-1.2148319	1	0.2	0.2	17.3	0.172982

hsa-mir-548a-3	-0.347923181	-1.2104468	1	0.2	0.2	12.9	0.128501
hsa-mir-671	-0.444552969	-1.2085877	1	0.2	0.2	7.2	0.072488
hsa-mir-1298	-0.378044535	-1.2047833	1	0.2	0.2	10.9	0.108731
hsa-mir-1283-2	-0.347756155	-1.1951764	1	0.2	0.2	13.0	0.130148
hsa-mir-219-1	-0.401110313	-1.1913665	1	0.2	0.2	8.9	0.088962
hsa-mir-187	-0.397833237	-1.1887241	1	0.2	0.2	9.6	0.095552
hsa-mir-1270	-0.221045825	-1.1859677	1	0.2	0.2	23.9	0.23888
hsa-mir-26b	-0.207799646	-1.1585147	1	0.2	0.2	25.4	0.253707
hsa-mir-548b	-0.225482089	-1.1547595	1	0.2	0.2	23.1	0.230643
hsa-let-7b	-0.247095497	-1.1415821	1	0.2	0.2	20.3	0.202636
hsa-mir-135b	-0.173218891	-1.1408184	1	0.2	0.2	29.5	0.294893
hsa-mir-378	-0.257930598	-1.1305612	1	0.2	0.2	19.4	0.194399
hsa-mir-487b	-0.23692565	-1.1232695	1	0.2	0.2	21.4	0.214168
hsa-mir-331	-0.168668613	-1.1221793	1	0.2	0.2	30.0	0.299835
hsa-mir-373	-0.2029335	-1.1220073	1	0.2	0.2	26.2	0.261944
hsa-mir-28	-0.184292061	-1.1213324	1	0.2	0.2	28.2	0.281713
hsa-mir-647	-0.196492971	-1.0956617	1	0.2	0.2	26.5	0.265239
hsa-mir-153-1	-0.257165901	-1.0941995	1	0.2	0.2	19.6	0.196046
hsa-mir-1282	-0.302148943	-1.0851825	1	0.2	0.2	15.7	0.156507
hsa-mir-202	-0.370572071	-1.0851274	1	0.2	0.2	11.5	0.115321
hsa-mir-660	-0.205495963	-1.0847381	1	0.2	0.2	25.7	0.257002
hsa-mir-548f-3	-0.211178701	-1.0800571	1	0.2	0.2	25.0	0.250412
hsa-mir-1262	-0.341014191	-1.0772936	1	0.2	0.2	13.3	0.133443
hsa-mir-337	-0.177115672	-1.0735779	1	0.2	0.2	28.7	0.286656
hsa-mir-551b	-0.275882419	-1.0652946	1	0.2	0.2	18.1	0.181219
hsa-mir-653	-0.203446559	-1.0644019	1	0.2	0.2	26.0	0.260297
hsa-mir-487a	-0.280318511	-1.0614378	1	0.2	0.2	17.6	0.176277
hsa-mir-632	-0.136906114	-1.0566113	1	0.2	0.2	33.6	0.336079
hsa-mir-204	-0.214663692	-1.0424387	1	0.2	0.2	24.5	0.24547
hsa-mir-519a-2	-0.411397054	-1.0389913	1	0.2	0.2	8.7	0.087315
hsa-mir-941-1	-0.230891153	-1.024281	1	0.2	0.2	22.6	0.2257
hsa-mir-297	-0.264910669	-1.0211379	1	0.2	0.2	18.9	0.189456
hsa-mir-1539	-0.126951548	-1.0181942	1	0.2	0.2	34.9	0.349259
hsa-mir-1302-5	-0.195414395	-1.0144213	1	0.2	0.2	26.7	0.266886
hsa-mir-370	-0.160765764	-0.9875146	1	0.2	0.2	30.6	0.306425
hsa-mir-197	-0.269805862	-0.9866037	1	0.2	0.2	18.8	0.187809
hsa-mir-548h-3	-0.205198701	-0.9864896	1	0.2	0.2	25.9	0.258649
hsa-mir-720	-0.235203991	-0.9806787	1	0.2	0.2	21.7	0.217463
hsa-mir-520d	-0.288498263	-0.9747704	1	0.2	0.2	16.8	0.16804
hsa-mir-126	-0.300199041	-0.9738804	1	0.2	0.2	16.0	0.159802
hsa-mir-518a-1	-0.300565882	-0.9551732	1	0.2	0.2	15.8	0.158155
hsa-mir-379	-0.223360842	-0.9521004	1	0.2	0.2	23.4	0.233937
hsa-mir-29b-1	-0.376476064	-0.9518834	1	0.2	0.2	11.2	0.112026
hsa-mir-29c	-0.128916815	-0.9453692	1	0.2	0.2	34.6	0.345964
hsa-mir-1225	-0.200631531	-0.9359539	1	0.2	0.2	26.4	0.263591
hsa-mir-9-2	-0.106758985	-0.9326622	1	0.2	0.2	36.6	0.365733
hsa-let-7c	-0.272649908	-0.9287916	1	0.2	0.2	18.6	0.186161
hsa-mir-1908	-0.191248961	-0.9104107	1	0.2	0.2	27.3	0.273476
hsa-mir-1304	-0.081175088	-0.9050558	1	0.2	0.2	40.9	0.408567
hsa-mir-1299	-0.169871079	-0.8987337	1	0.2	0.2	29.8	0.298188

hsa-mir-886	-0.155920134	-0.8821178	1	0.2	0.2	31.5	0.314662
hsa-mir-433	-0.251147486	-0.8700481	1	0.2	0.2	19.9	0.199341
hsa-mir-302c	-0.214474178	-0.8666992	1	0.2	0.2	24.7	0.247117
hsa-mir-30c-1	-0.221168653	-0.8664409	1	0.2	0.2	23.7	0.237232
hsa-mir-497	-0.17483914	-0.8647121	1	0.2	0.2	29.2	0.291598
hsa-mir-455	-0.112878691	-0.863973	1	0.2	0.2	36.4	0.364086
hsa-mir-890	-0.171264107	-0.8555961	1	0.2	0.2	29.7	0.29654
hsa-mir-1302-8	-0.138936096	-0.848998	1	0.2	0.2	33.3	0.332784
hsa-mir-1255a	-0.221728226	-0.843732	1	0.2	0.2	23.6	0.235585
hsa-mir-7-3	-0.174013908	-0.8328238	1	0.2	0.2	29.3	0.293245
hsa-mir-323	-0.136033352	-0.8322011	1	0.2	0.2	33.8	0.337727
hsa-mir-215	-0.083803877	-0.8305819	1	0.2	0.2	40.5	0.405272
hsa-mir-1274b	-0.176455821	-0.8288572	1	0.2	0.2	28.8	0.288303
hsa-mir-25	-0.073575923	-0.8227442	1	0.2	0.2	43.2	0.431631
hsa-mir-195	-0.315246054	-0.8083425	1	0.2	0.2	14.2	0.14168
hsa-mir-764	-0.12698515	-0.8082356	1	0.2	0.2	34.8	0.347611
hsa-mir-421	-0.228420805	-0.8081794	1	0.2	0.2	22.7	0.227348
hsa-mir-493	-0.362820733	-0.8051257	1	0.2	0.2	12.0	0.120264
hsa-mir-362	-0.185399182	-0.7982939	1	0.2	0.2	28.0	0.280066
hsa-mir-942	-0.160471169	-0.7978218	1	0.2	0.2	30.8	0.308072
hsa-mir-135a-1	-0.276277605	-0.7844611	1	0.2	0.2	18.0	0.179572
hsa-mir-16-1	-0.302754172	-0.7842935	1	0.2	0.2	15.3	0.153213
hsa-mir-1286	-0.192377602	-0.7721556	1	0.2	0.2	27.2	0.271829
hsa-mir-1295	-0.234642703	-0.7714155	1	0.2	0.2	22.1	0.220758
hsa-mir-490	-0.188795475	-0.767461	1	0.2	0.2	27.5	0.275124
hsa-mir-767	-0.154757682	-0.7643596	1	0.2	0.2	31.8	0.317957
hsa-mir-1973	-0.080979272	-0.7618939	1	0.2	0.2	41.0	0.410214
hsa-mir-101-1	-0.23127108	-0.7481372	1	0.2	0.2	22.4	0.224053
hsa-mir-18a	-0.157843951	-0.746939	1	0.2	0.2	31.1	0.311367
hsa-mir-509-1	-0.130743907	-0.7449956	1	0.2	0.2	34.3	0.342669
hsa-mir-296	-0.256561415	-0.7440775	1	0.2	0.2	19.8	0.197694
hsa-mir-210	-0.19344364	-0.7382571	1	0.2	0.2	26.9	0.268534
hsa-mir-302b	-0.306388341	-0.7209682	1	0.2	0.2	15.2	0.151565
hsa-mir-1254	-0.126933744	-0.7118323	1	0.2	0.2	35.1	0.350906
hsa-mir-30c-2	-0.324979471	-0.7105721	1	0.2	0.2	14.0	0.140033
hsa-mir-888	-0.152267623	-0.7021444	1	0.2	0.2	32.1	0.321252
hsa-mir-656	-0.135091274	-0.697075	1	0.2	0.2	33.9	0.339374
hsa-mir-627	-0.235524131	-0.695563	1	0.2	0.2	21.6	0.215815
hsa-mir-488	-0.180403489	-0.6940249	1	0.2	0.2	28.3	0.283361
hsa-mir-1274a	-0.098892434	-0.6876881	1	0.2	0.2	38.1	0.38056
hsa-mir-618	-0.126779308	-0.6863693	1	0.2	0.2	35.3	0.352554
hsa-mir-1291	-0.090787951	-0.6856936	1	0.2	0.2	39.5	0.395387
hsa-mir-206	-0.096653484	-0.683353	1	0.2	0.2	38.2	0.382208
hsa-mir-16-2	-0.247448605	-0.6738897	1	0.2	0.2	20.1	0.200988
hsa-mir-95	-0.21917551	-0.6717853	1	0.2	0.2	24.4	0.243822
hsa-mir-143	-0.280028062	-0.6710394	1	0.2	0.2	17.8	0.177924
hsa-mir-936	-0.147750006	-0.6484129	1	0.2	0.2	32.6	0.326194
hsa-mir-320d-2	-0.179778815	-0.6473217	1	0.2	0.2	28.5	0.285008
hsa-mir-30a	-0.258338115	-0.6364832	1	0.2	0.2	19.3	0.192751
hsa-mir-1260	-0.163515911	-0.6326589	1	0.2	0.2	30.3	0.30313

hsa-mir-30e	-0.219335226	-0.6235174	1	0.2	0.2	24.2	0.242175
hsa-mir-1253	-0.162351216	-0.6223762	1	0.2	0.2	30.5	0.304778
hsa-mir-620	-0.146214766	-0.6125354	1	0.2	0.2	32.8	0.327842
hsa-mir-20b	-0.166049925	-0.6075152	1	0.2	0.2	30.1	0.301483
hsa-mir-765	-0.125138637	-0.6063818	1	0.2	0.2	35.4	0.354201
hsa-mir-654	-0.105406267	-0.5998865	1	0.2	0.2	36.7	0.367381
hsa-mir-220b	-0.033093763	-0.5875305	1	0.2	0.2	50.4	0.504119
hsa-mir-186	-0.05313268	-0.5782429	1	0.2	0.2	46.1	0.461285
hsa-mir-363	-0.090917448	-0.5781227	1	0.2	0.2	39.4	0.39374
hsa-mir-199a-1	-0.391514553	-0.5660062	1	0.2	0.2	10.0	0.100494
hsa-mir-657	-0.095354147	-0.5653773	1	0.2	0.2	38.6	0.385502
hsa-mir-611	-0.228138287	-0.561345	1	0.2	0.2	22.9	0.228995
hsa-mir-548j	-0.188140559	-0.5554064	1	0.2	0.2	27.7	0.276771
hsa-mir-579	-0.25858215	-0.5334727	1	0.2	0.2	19.1	0.191104
hsa-mir-1280	-0.074125623	-0.5237738	1	0.2	0.2	43.0	0.429984
hsa-mir-634	-0.120277559	-0.5236298	1	0.2	0.2	35.7	0.357496
hsa-mir-193a	-0.071135032	-0.5058938	1	0.2	0.2	43.5	0.434926
hsa-mir-759	-0.095516476	-0.5033821	1	0.2	0.2	38.4	0.383855
hsa-mir-517a	-0.158088156	-0.5018322	1	0.2	0.2	31.0	0.30972
hsa-mir-1226	-0.099662045	-0.4980591	1	0.2	0.2	37.7	0.377265
hsa-mir-495	-0.133118001	-0.4910061	1	0.2	0.2	34.1	0.341021
hsa-mir-181d	-0.221045025	-0.4883601	1	0.2	0.2	24.1	0.240527
hsa-mir-637	-0.092634333	-0.4823186	1	0.2	0.2	39.0	0.390445
hsa-mir-208a	-0.074674851	-0.4783866	1	0.2	0.2	42.5	0.425041
hsa-mir-329-1	-0.04233767	-0.468398	1	0.2	0.2	49.8	0.497529
hsa-mir-485	-0.245715307	-0.4655137	1	0.2	0.2	20.6	0.205931
hsa-mir-107	-0.295976509	-0.4654548	1	0.2	0.2	16.5	0.164745
hsa-mir-1294	-0.138307329	-0.4542161	1	0.2	0.2	33.4	0.334432
hsa-mir-219-2	-0.148439697	-0.4492274	1	0.2	0.2	32.5	0.324547
hsa-mir-19b-1	-0.155037763	-0.4461238	1	0.2	0.2	31.6	0.31631
hsa-mir-1974	-0.042350682	-0.43944	1	0.2	0.2	49.6	0.495881
hsa-mir-377	-0.12381658	-0.435009	1	0.2	0.2	35.6	0.355848
hsa-mir-103-1	-0.240822438	-0.4284484	1	0.2	0.2	21.1	0.210873
hsa-mir-99b	-0.058896321	-0.4151288	1	0.2	0.2	45.3	0.453048
hsa-mir-635	-0.077687315	-0.4137388	1	0.2	0.2	41.4	0.413509
hsa-mir-503	-0.151369741	-0.4038717	1	0.2	0.2	32.3	0.3229
hsa-mir-491	-0.10236852	-0.4032657	1	0.2	0.2	37.4	0.37397
hsa-mir-943	-0.048249427	-0.3885736	1	0.2	0.2	47.8	0.477759
hsa-mir-548m	-0.07728864	-0.3884975	1	0.2	0.2	41.5	0.415157
hsa-mir-605	-0.233410119	-0.385244	1	0.2	0.2	22.2	0.222405
hsa-mir-548h-2	-0.089122527	-0.3798732	1	0.2	0.2	39.7	0.397035
hsa-mir-873	-0.086075835	-0.3788709	1	0.2	0.2	40.0	0.400329
hsa-mir-185	-0.130278173	-0.3722053	1	0.2	0.2	34.4	0.344316
hsa-mir-550-1	-0.077251745	-0.3706518	1	0.2	0.2	41.7	0.416804
hsa-mir-502	-0.09133461	-0.3672783	1	0.2	0.2	39.2	0.392092
hsa-mir-34a	-0.21176519	-0.3641813	1	0.2	0.2	24.9	0.248764
hsa-mir-218-1	-0.074314736	-0.361914	1	0.2	0.2	42.7	0.426689
hsa-mir-147b	-0.048324053	-0.3535276	1	0.2	0.2	47.6	0.476112
hsa-mir-1256	-0.101952087	-0.3517129	1	0.2	0.2	37.6	0.375618
hsa-mir-299	0.003625454	-0.3514434	1	0.2	0.2	56.2	0.561779

hsa-mir-520c	-0.175089143	-0.3512712	1	0.2	0.2	29.0	0.289951
hsa-mir-190	-0.042473894	-0.351243	1	0.2	0.2	49.3	0.492586
hsa-mir-891a	-0.139354072	-0.3506777	1	0.2	0.2	33.1	0.331137
hsa-mir-208b	-0.074130528	-0.3469184	1	0.2	0.2	42.8	0.428336
hsa-mir-1292	-0.070410826	-0.3443206	1	0.2	0.2	43.7	0.436573
hsa-mir-129-1	-0.000856241	-0.344074	1	0.2	0.2	55.2	0.551895
hsa-mir-7-2	-0.075927128	-0.3437602	1	0.2	0.2	42.3	0.423394
hsa-mir-1183	-0.056045653	-0.3428298	1	0.2	0.2	45.8	0.45799
hsa-mir-23b	-0.093249	-0.3422203	1	0.2	0.2	38.7	0.38715
hsa-mir-1228	-0.004552926	-0.3342228	1	0.2	0.2	54.7	0.546952
hsa-mir-766	-0.056901917	-0.3331445	1	0.2	0.2	45.6	0.456343
hsa-mir-545	-0.092741043	-0.3243696	1	0.2	0.2	38.9	0.388797
hsa-mir-1909	-0.048880926	-0.3231987	1	0.2	0.2	47.4	0.474465
hsa-mir-1972	-0.051574482	-0.321691	1	0.2	0.2	46.6	0.466227
hsa-mir-1-1	-0.009284441	-0.3196702	1	0.2	0.2	53.5	0.53542
hsa-mir-330	-0.022018358	-0.319537	1	0.2	0.2	52.2	0.522241
hsa-mir-18b	-0.049352593	-0.315773	1	0.2	0.2	47.1	0.47117
hsa-mir-218-2	0.000166747	-0.3154798	1	0.2	0.2	55.4	0.553542
hsa-mir-211	-0.119278216	-0.3143676	1	0.2	0.2	35.9	0.359143
hsa-mir-298	-0.047474152	-0.2983312	1	0.2	0.2	48.3	0.482702
hsa-mir-631	-0.116051169	-0.2961012	1	0.2	0.2	36.2	0.362438
hsa-mir-570	-0.047895132	-0.2871405	1	0.2	0.2	48.1	0.481054
hsa-mir-26a-1	-0.013590247	-0.2859969	1	0.2	0.2	52.9	0.52883
hsa-mir-518a-2	-0.084986558	-0.2685153	1	0.2	0.2	40.2	0.401977
hsa-mir-708	-0.023417693	-0.2683148	1	0.2	0.2	51.9	0.518946
hsa-mir-661	-0.046997171	-0.2641884	1	0.2	0.2	48.4	0.484349
hsa-mir-1202	-0.053518445	-0.2641473	1	0.2	0.2	46.0	0.459638
hsa-mir-592	-0.152280085	-0.2591939	1	0.2	0.2	32.0	0.319605
hsa-mir-553	-0.064091558	-0.2540867	1	0.2	0.2	44.3	0.443163
hsa-mir-496	-0.045674656	-0.253358	1	0.2	0.2	48.6	0.485997
hsa-mir-1293	-0.060241455	-0.2529249	1	0.2	0.2	45.0	0.449753
hsa-mir-450b	-0.099521565	-0.2514058	1	0.2	0.2	37.9	0.378913
hsa-mir-668	-0.051737413	-0.2437821	1	0.2	0.2	46.5	0.46458
hsa-mir-924	-0.018803965	-0.2429573	1	0.2	0.2	52.4	0.523888
hsa-mir-302f	-0.103434489	-0.2424842	1	0.2	0.2	37.2	0.372323
hsa-mir-612	0.000737416	-0.2395402	1	0.2	0.2	55.7	0.556837
hsa-mir-30d	-0.072375109	-0.2387891	1	0.2	0.2	43.3	0.433278
hsa-mir-1287	-0.077151867	-0.2340507	1	0.2	0.2	41.8	0.418451
hsa-let-7i	-0.062216374	-0.2256162	1	0.2	0.2	44.5	0.444811
hsa-mir-642	-0.083220053	-0.2220783	1	0.2	0.2	40.7	0.406919
hsa-mir-651	0.001022522	-0.2205783	1	0.2	0.2	55.8	0.558484
hsa-mir-548c	-0.060481702	-0.2196569	1	0.2	0.2	44.8	0.448105
hsa-mir-1910	-0.042733151	-0.2182915	1	0.2	0.2	49.1	0.490939
hsa-mir-136	-0.003770556	-0.2181843	1	0.2	0.2	54.9	0.5486
hsa-mir-372	0.036833912	-0.1921225	1	0.2	0.2	59.1	0.591433
hsa-mir-526a-2	-0.078878022	-0.1909223	1	0.2	0.2	41.2	0.411862
hsa-mir-221	0.016152339	-0.185676	1	0.2	0.2	57.2	0.571664
hsa-mir-1255b-	-0.051541605	-0.1832267	1	0.2	0.2	46.8	0.467875
hsa-mir-626	-0.118573048	-0.1828356	1	0.2	0.2	36.1	0.360791
hsa-mir-548i-4	-0.043131415	-0.1790067	1	0.2	0.2	48.9	0.489292

hsa-mir-614	-0.044560834	-0.1717133	1	0.2	0.2	48.8	0.487644
hsa-mir-652	-0.015953402	-0.1715319	1	0.2	0.2	52.6	0.525535
hsa-mir-194-1	0.018163844	-0.1712715	1	0.2	0.2	57.5	0.574959
hsa-mir-1469	-0.009850603	-0.1708143	1	0.2	0.2	53.4	0.533773
hsa-mir-453	-0.048067731	-0.1649116	1	0.2	0.2	47.9	0.479407
hsa-mir-889	-0.014822362	-0.1634713	1	0.2	0.2	52.7	0.527183
hsa-mir-663b	-0.065516315	-0.1518827	1	0.2	0.2	44.2	0.441516
hsa-mir-589	0.029032361	-0.1501394	1	0.2	0.2	58.5	0.584843
hsa-mir-194-2	-0.049848386	-0.1449684	1	0.2	0.2	47.0	0.469522
hsa-mir-1204	0.009190128	-0.143864	1	0.2	0.2	56.8	0.568369
hsa-mir-106b	-0.156524443	-0.141005	1	0.2	0.2	31.3	0.313015
hsa-mir-921	0.00022869	-0.1397764	1	0.2	0.2	55.5	0.555189
hsa-mir-412	0.045266935	-0.1339952	1	0.2	0.2	60.3	0.602965
hsa-mir-34c	-0.141187195	-0.1272994	1	0.2	0.2	32.9	0.329489
hsa-mir-302a	-0.057030949	-0.1172566	1	0.2	0.2	45.5	0.454695
hsa-mir-616	-0.00891156	-0.1113118	1	0.2	0.2	53.7	0.537068
hsa-mir-19b-2	-0.076562031	-0.1063048	1	0.2	0.2	42.0	0.420099
hsa-mir-583	-0.084146493	-0.106181	1	0.2	0.2	40.4	0.403624
hsa-mir-521-1	-0.038681387	-0.1003333	1	0.2	0.2	50.1	0.500824
hsa-mir-125b-1	-0.104227998	-0.0965639	1	0.2	0.2	37.1	0.370675
hsa-mir-451	-0.02952881	-0.0919338	1	0.2	0.2	50.9	0.509061
hsa-mir-1261	-0.036467873	-0.0820136	1	0.2	0.2	50.2	0.502471
hsa-mir-216b	0.0559674	-0.0790806	1	0.2	0.2	61.3	0.61285
hsa-mir-665	-0.02851257	-0.0723406	1	0.2	0.2	51.1	0.510708
hsa-mir-582	-0.06602088	-0.0708233	1	0.2	0.2	44.0	0.439868
hsa-mir-1296	-0.049204597	-0.0679976	1	0.2	0.2	47.3	0.472817
hsa-mir-1911	-0.006914062	-0.0657769	1	0.2	0.2	54.2	0.54201
hsa-mir-489	0.022837506	-0.0648146	1	0.2	0.2	57.7	0.576606
hsa-mir-137	0.06892833	-0.050053	1	0.2	0.2	63.6	0.635914
hsa-mir-568	-0.059563795	-0.049413	1	0.2	0.2	45.1	0.4514
hsa-mir-448	-0.024032681	-0.0419468	1	0.2	0.2	51.7	0.517298
hsa-mir-1303	0.037931356	-0.0355734	1	0.2	0.2	59.5	0.594728
hsa-mir-1227	-0.022889812	-0.0318638	1	0.2	0.2	52.1	0.520593
hsa-mir-200a	-0.070297643	-0.0269462	1	0.2	0.2	43.8	0.438221
hsa-mir-411	0.015985146	-0.0243876	1	0.2	0.2	57.0	0.570016
hsa-mir-101-2	-0.076218989	-0.0235028	1	0.2	0.2	42.2	0.421746
hsa-mir-1912	0.00573731	-0.0070172	1	0.2	0.2	56.5	0.565074
hsa-mir-1289-2	-0.030701668	-0.0032891	1	0.2	0.2	50.7	0.507414
hsa-mir-519a-1	-0.010795216	-0.0028574	1	0.2	0.2	53.2	0.532125
hsa-mir-548o	-0.008792253	4.8694E-05	1	0.2	0.2	53.9	0.538715
hsa-mir-99a	0.025682812	0.00708335	1	0.2	0.2	57.8	0.578254
hsa-mir-576	0.008779952	0.00812496	1	0.2	0.2	56.7	0.566722
hsa-mir-133a-1	0.086411117	0.01035462	1	0.2	0.2	65.6	0.655684
hsa-mir-1285-1	-0.061153237	0.01415391	1	0.2	0.2	44.6	0.446458
hsa-mir-1180	-0.008748959	0.02903843	1	0.2	0.2	54.0	0.540362
hsa-mir-572	-0.039790929	0.04174951	1	0.2	0.2	49.9	0.499176
hsa-mir-624	0.051332906	0.04434461	1	0.2	0.2	61.1	0.611203
hsa-mir-382	0.073166606	0.04497843	1	0.2	0.2	64.4	0.644152
hsa-mir-31	0.098622065	0.04859407	1	0.2	0.2	67.4	0.673806
hsa-mir-152	0.070629523	0.04899046	1	0.2	0.2	63.9	0.639209

hsa-mir-374b	0.059095606	0.04986709	1	0.2	0.2	61.9	0.61944
hsa-mir-628	-0.052362321	0.05629982	1	0.2	0.2	46.3	0.462932
hsa-mir-214	0.074738979	0.0605377	1	0.2	0.2	64.6	0.645799
hsa-mir-1255b-	-0.00561082	0.06511319	1	0.2	0.2	54.5	0.545305
hsa-mir-145	-0.104385009	0.06584375	1	0.2	0.2	36.9	0.369028
hsa-mir-574	-0.028489235	0.07000805	1	0.2	0.2	51.2	0.512356
hsa-mir-575	-0.025073472	0.07112188	1	0.2	0.2	51.6	0.515651
hsa-mir-484	0.036157525	0.07219983	1	0.2	0.2	59.0	0.589786
hsa-mir-454	0.003923634	0.07354615	1	0.2	0.2	56.3	0.563427
hsa-mir-595	-0.031617406	0.07700533	1	0.2	0.2	50.6	0.505766
hsa-mir-381	-0.088515127	0.08659003	1	0.2	0.2	39.9	0.398682
hsa-mir-220a	0.048259873	0.09783407	1	0.2	0.2	60.8	0.607908
hsa-mir-1825	0.07296585	0.12502315	1	0.2	0.2	64.3	0.642504
hsa-mir-1231	0.057939818	0.13697297	1	0.2	0.2	61.8	0.617792
hsa-mir-577	-0.006784484	0.1441017	1	0.2	0.2	54.4	0.543657
hsa-mir-501	0.017189791	0.14996165	1	0.2	0.2	57.3	0.573311
hsa-mir-938	0.107952492	0.15902037	1	0.2	0.2	68.2	0.682043
hsa-mir-376b	0.119003248	0.17147431	1	0.2	0.2	69.0	0.69028
hsa-mir-1277	0.047056865	0.18046206	1	0.2	0.2	60.5	0.604613
hsa-mir-223	0.141341741	0.19894905	1	0.2	0.2	71.5	0.714992
hsa-mir-640	-0.027997635	0.20667376	1	0.2	0.2	51.4	0.514003
hsa-mir-548e	0.03031448	0.2084975	1	0.2	0.2	58.6	0.586491
hsa-mir-1229	0.047833199	0.21795139	1	0.2	0.2	60.6	0.60626
hsa-mir-1308	-0.01108976	0.21987637	1	0.2	0.2	53.0	0.530478
hsa-mir-548f-1	0.056128206	0.22483101	1	0.2	0.2	61.4	0.614498
hsa-mir-548h-4	0.04318338	0.23231862	1	0.2	0.2	59.8	0.598023
hsa-mir-326	0.090843517	0.23360716	1	0.2	0.2	66.1	0.660626
hsa-mir-375	0.044361014	0.24316715	1	0.2	0.2	60.1	0.601318
hsa-mir-569	-0.001933856	0.24444162	1	0.2	0.2	55.0	0.550247
hsa-mir-188	0.026365653	0.25310128	1	0.2	0.2	58.0	0.579901
hsa-mir-192	0.062299945	0.25347664	1	0.2	0.2	62.9	0.629325
hsa-mir-376c	0.095058184	0.25414045	1	0.2	0.2	66.7	0.667216
hsa-mir-646	0.080721931	0.26074887	1	0.2	0.2	65.2	0.652389
hsa-mir-922	0.094564118	0.26587054	1	0.2	0.2	66.6	0.665568
hsa-mir-610	0.077142665	0.26778164	1	0.2	0.2	64.7	0.647446
hsa-mir-876	0.096295887	0.28468995	1	0.2	0.2	67.2	0.672158
hsa-mir-892a	0.166818531	0.28753548	1	0.2	0.2	74.6	0.746293
hsa-mir-380	0.19233396	0.28877302	1	0.2	0.2	78.1	0.78089
hsa-mir-659	0.145015346	0.30053743	1	0.2	0.2	72.3	0.723229
hsa-mir-450a-2	0.079861587	0.30063291	1	0.2	0.2	65.1	0.650741
hsa-mir-517b	0.10005108	0.30274703	1	0.2	0.2	67.5	0.675453
hsa-mir-548n	0.060508197	0.30592524	1	0.2	0.2	62.3	0.622735
hsa-mir-1203	0.119582126	0.30827134	1	0.2	0.2	69.2	0.691928
hsa-mir-1288	0.028101937	0.31470451	1	0.2	0.2	58.3	0.583196
hsa-mir-920	0.09623558	0.31579368	1	0.2	0.2	66.9	0.668863
hsa-mir-566	0.060811904	0.32028981	1	0.2	0.2	62.4	0.624382
hsa-mir-613	0.043465536	0.32037714	1	0.2	0.2	60.0	0.599671
hsa-mir-607	0.061049998	0.32049779	1	0.2	0.2	62.6	0.62603
hsa-mir-548p	0.063641454	0.33049174	1	0.2	0.2	63.1	0.630972
hsa-mir-509-2	0.162686108	0.33723436	1	0.2	0.2	74.1	0.741351

hsa-mir-524	0.037880259	0.34401125	1	0.2	0.2	59.3	0.593081
hsa-mir-424	0.182113583	0.34425783	1	0.2	0.2	76.8	0.767771
hsa-mir-220c	0.289688963	0.35010682	1	0.2	0.2	87.8	0.878089
hsa-mir-374a	0.222421411	0.35252662	1	0.2	0.2	80.4	0.803954
hsa-mir-196a-1	-0.042419414	0.35579478	1	0.2	0.2	49.4	0.494234
hsa-mir-548a-2	0.066883158	0.35668111	1	0.2	0.2	63.4	0.634267
hsa-mir-548d-1	0.060257572	0.35764777	1	0.2	0.2	62.1	0.621087
hsa-mir-769	0.094391058	0.35852676	1	0.2	0.2	66.4	0.663921
hsa-mir-1290	0.050647457	0.36781895	1	0.2	0.2	61.0	0.609555
hsa-mir-139	0.06955135	0.37193291	1	0.2	0.2	63.8	0.637562
hsa-mir-571	0.027243739	0.38456481	1	0.2	0.2	58.2	0.581549
hsa-mir-301a	0.065314199	0.39519128	1	0.2	0.2	63.3	0.632619
hsa-mir-144	0.040415865	0.40264604	1	0.2	0.2	59.6	0.596376
hsa-mir-644	0.174900282	0.40327601	1	0.2	0.2	75.9	0.759473
hsa-mir-559	0.078635328	0.4126144	1	0.2	0.2	64.9	0.649094
hsa-mir-5481	0.061168481	0.41294767	1	0.2	0.2	62.8	0.627677
hsa-mir-887	0.273919642	0.42471079	1	0.2	0.2	86.3	0.863262
hsa-mir-27b	0.109100949	0.43174251	1	0.2	0.2	68.4	0.68369
hsa-mir-452	0.130691577	0.44378719	1	0.2	0.2	70.2	0.701812
hsa-mir-30b	0.117069765	0.44402925	1	0.2	0.2	68.7	0.686985
hsa-mir-15a	0.173316631	0.44448153	1	0.2	0.2	75.8	0.757825
hsa-mir-141	0.09060511	0.44849935	1	0.2	0.2	65.9	0.658979
hsa-mir-154	0.141683018	0.45775124	1	0.2	0.2	71.8	0.718287
hsa-mir-153-2	0.233022598	0.46329507	1	0.2	0.2	81.4	0.813839
hsa-mir-494	0.101838443	0.46493763	1	0.2	0.2	67.9	0.678748
hsa-mir-1-2	0.072090755	0.48098857	1	0.2	0.2	64.1	0.640857
hsa-mir-1245	0.100339102	0.48298479	1	0.2	0.2	67.7	0.67771
hsa-mir-581	0.057074732	0.49122674	1	0.2	0.2	61.6	0.616145
hsa-mir-940	0.138797347	0.49130007	1	0.2	0.2	71.3	0.713344
hsa-mir-580	0.133682611	0.49462199	1	0.2	0.2	70.5	0.705107
hsa-mir-513b	0.247030438	0.50614928	1	0.2	0.2	83.4	0.833608
hsa-mir-506	0.153118404	0.51506754	1	0.2	0.2	73.1	0.731466
hsa-mir-130a	0.169248313	0.52126605	1	0.2	0.2	75.1	0.751236
hsa-mir-320c-1	0.132689739	0.52646269	1	0.2	0.2	70.3	0.70346
hsa-mir-1827	0.204969334	0.52658598	1	0.2	0.2	78.9	0.789127
hsa-mir-1302-2	0.113306572	0.52669153	1	0.2	0.2	68.5	0.685338
hsa-mir-1233	0.138047551	0.53337664	1	0.2	0.2	71.0	0.710049
hsa-mir-98	0.138344012	0.54609796	1	0.2	0.2	71.2	0.711697
hsa-mir-523	0.096260677	0.54792549	1	0.2	0.2	67.1	0.670511
hsa-mir-1275	0.443209441	0.54866198	1	0.2	0.2	93.9	0.939044
hsa-mir-2052	0.146831379	0.55491998	1	0.2	0.2	72.5	0.724876
hsa-mir-125b-2	0.186667862	0.57077544	1	0.2	0.2	77.4	0.7743
hsa-mir-520g	0.227551829	0.5721968	1	0.2	0.2	81.1	0.810544
hsa-mir-499	0.118887566	0.57562045	1	0.2	0.2	68.9	0.688633
hsa-mir-1272	0.18485044	0.57788169	1	0.2	0.2	77.3	0.772652
hsa-mir-2053	0.149761826	0.57809227	1	0.2	0.2	73.0	0.729819
hsa-mir-519c	0.184688226	0.57810551	1	0.2	0.2	77.1	0.771005
hsa-mir-649	0.166374079	0.5884771	1	0.2	0.2	74.5	0.744646
hsa-mir-410	0.320982913	0.58864279	1	0.2	0.2	89.0	0.889621
hsa-mir-633	0.172742765	0.59147446	1	0.2	0.2	75.6	0.756178

hsa-mir-33a	0.198694811	0.59261128	1	0.2	0.2	78.4	0.784185
hsa-mir-320d-1	0.23337704	0.59824368	1	0.2	0.2	81.5	0.815486
hsa-mir-587	0.127330025	0.59866075	1	0.2	0.2	69.7	0.69687
hsa-mir-758	0.143073678	0.5998621	1	0.2	0.2	72.2	0.721582
hsa-mir-549	0.124083454	0.60283226	1	0.2	0.2	69.4	0.693575
hsa-mir-606	0.22734481	0.60680408	1	0.2	0.2	80.9	0.808896
hsa-mir-22	0.214153858	0.61690858	1	0.2	0.2	79.7	0.797364
hsa-mir-630	0.091063143	0.62486118	1	0.2	0.2	66.2	0.662273
hsa-mir-32	0.106494279	0.62583523	1	0.2	0.2	68.0	0.680395
hsa-mir-933	0.149442802	0.62814339	1	0.2	0.2	72.8	0.728171
hsa-mir-1321	0.169931439	0.63669285	1	0.2	0.2	75.3	0.752883
hsa-mir-1977	0.135903393	0.63850658	1	0.2	0.2	70.7	0.706755
hsa-mir-520b	0.082599781	0.64194365	1	0.2	0.2	65.4	0.654036
hsa-mir-548k	0.130016052	0.65500036	1	0.2	0.2	69.9	0.698517
hsa-mir-641	0.161393735	0.66011689	1	0.2	0.2	73.8	0.738056
hsa-mir-556	0.156715774	0.66921138	1	0.2	0.2	73.5	0.734761
hsa-mir-384	0.001257215	0.68428232	1	0.2	0.2	56.0	0.560132
hsa-mir-302e	0.088351075	0.68578675	1	0.2	0.2	65.7	0.657331
hsa-mir-365-1	0.170073974	0.69075932	1	0.2	0.2	75.5	0.75453
hsa-mir-217	0.245238802	0.69761462	1	0.2	0.2	82.9	0.828666
hsa-mir-544	0.176586548	0.70213975	1	0.2	0.2	76.3	0.762768
hsa-let-7a-1	0.225135636	0.71390903	1	0.2	0.2	80.6	0.805601
hsa-mir-1323	0.125245789	0.71426865	1	0.2	0.2	69.5	0.695222
hsa-mir-1263	0.167828917	0.72562685	1	0.2	0.2	74.8	0.747941
hsa-mir-21	0.189444912	0.73235985	1	0.2	0.2	77.6	0.775947
hsa-mir-376a-2	0.176161386	0.74518726	1	0.2	0.2	76.1	0.76112
hsa-mir-339	0.200519384	0.76114339	1	0.2	0.2	78.7	0.787479
hsa-mir-1279	0.455936685	0.7712775	1	0.2	0.2	94.9	0.948929
hsa-mir-1238	0.214715162	0.77194697	1	0.2	0.2	79.9	0.799012
hsa-mir-539	0.489128721	0.81516598	1	0.2	0.2	96.0	0.960461
hsa-mir-1205	0.142190937	0.82410986	1	0.2	0.2	72.0	0.719934
hsa-mir-371	0.250781008	0.82557861	1	0.2	0.2	83.7	0.836903
hsa-mir-557	0.137307706	0.83023145	1	0.2	0.2	70.8	0.708402
hsa-mir-224	0.483025303	0.83380537	1	0.2	0.2	95.7	0.957166
hsa-mir-520h	0.519487132	0.83605537	1	0.2	0.2	97.0	0.970346
hsa-mir-638	0.165663494	0.85347013	1	0.2	0.2	74.3	0.742998
hsa-mir-147	0.169024512	0.85462486	1	0.2	0.2	75.0	0.749588
hsa-mir-602	0.161686096	0.85488289	1	0.2	0.2	74.0	0.739703
hsa-mir-130b	0.189715961	0.8555393	1	0.2	0.2	77.9	0.779242
hsa-mir-320c-2	0.214049995	0.85815517	1	0.2	0.2	79.6	0.795717
hsa-mir-1306	0.130615468	0.86164063	1	0.2	0.2	70.0	0.700165
hsa-mir-1979	0.179320543	0.86395744	1	0.2	0.2	76.6	0.766063
hsa-mir-1269	0.384387041	0.86904778	1	0.2	0.2	91.4	0.914333
hsa-mir-146a	0.235141399	0.88044566	1	0.2	0.2	81.7	0.817133
hsa-mir-26a-2	0.333114658	0.88735209	1	0.2	0.2	89.6	0.896211
hsa-mir-34b	0.034983197	0.90541792	1	0.2	0.2	58.8	0.588138
hsa-mir-573	0.147381857	0.90655658	1	0.2	0.2	72.7	0.726524
hsa-mir-519e	0.363033156	0.90751736	1	0.2	0.2	90.4	0.904448
hsa-let-7a-3	0.196083727	0.9210161	1	0.2	0.2	78.3	0.782537
hsa-mir-500	0.177635027	0.93006578	1	0.2	0.2	76.4	0.764415

hsa-mir-1266	0.219441558	0.93889195	1	0.2	0.2	80.2	0.802306
hsa-mir-1468	0.24210813	0.95873922	1	0.2	0.2	82.5	0.825371
hsa-mir-2054	0.277799449	0.96102045	1	0.2	0.2	86.7	0.866557
hsa-mir-1537	0.27997653	0.97556188	1	0.2	0.2	86.8	0.868204
hsa-mir-150	0.200149118	1.00070432	1	0.2	0.2	78.6	0.785832
hsa-mir-1258	0.260261548	1.00132523	1	0.2	0.2	85.0	0.850082
hsa-mir-300	0.416909985	1.00379868	1	0.2	0.2	93.2	0.932455
hsa-mir-608	0.300041144	1.01827117	1	0.2	0.2	88.0	0.879736
hsa-mir-526a-1	0.451537361	1.01830135	1	0.2	0.2	94.7	0.947282
hsa-mir-510	0.325710214	1.04119708	1	0.2	0.2	89.5	0.894563
hsa-mir-586	0.205637242	1.05574735	1	0.2	0.2	79.1	0.790774
hsa-mir-590	0.160453634	1.06137176	1	0.2	0.2	73.6	0.736409
hsa-mir-1302-7	0.14156539	1.06768582	1	0.2	0.2	71.7	0.716639
hsa-mir-1305	0.156080376	1.07816326	1	0.2	0.2	73.3	0.733114
hsa-mir-526b	0.2620299	1.08555509	1	0.2	0.2	85.5	0.855025
hsa-mir-891b	0.239395875	1.10816206	1	0.2	0.2	82.4	0.823723
hsa-mir-604	0.605772596	1.11032072	1	0.2	0.2	97.9	0.978583
hsa-mir-1185-1	0.287838237	1.15176721	1	0.2	0.2	87.5	0.874794
hsa-mir-609	0.253905525	1.1725172	1	0.2	0.2	84.2	0.841845
hsa-mir-365-2	0.275841932	1.19022991	1	0.2	0.2	86.5	0.864909
hsa-mir-603	0.182617998	1.20007202	1	0.2	0.2	76.9	0.769357
hsa-mir-548h-1	0.314900869	1.2198907	1	0.2	0.2	88.6	0.886326
hsa-mir-1236	0.242162862	1.24491011	1	0.2	0.2	82.7	0.827018
hsa-mir-518d	0.375799639	1.24610727	1	0.2	0.2	91.1	0.911038
hsa-mir-548i-2	0.239243559	1.25142451	1	0.2	0.2	82.2	0.822076
hsa-mir-320b-1	0.189506178	1.25155064	1	0.2	0.2	77.8	0.777595
hsa-mir-516a-1	0.310257709	1.26601418	1	0.2	0.2	88.5	0.884679
hsa-mir-629	0.238869307	1.27262278	1	0.2	0.2	82.0	0.820428
hsa-mir-320b-2	0.229150908	1.28502801	1	0.2	0.2	81.2	0.812191
hsa-mir-558	0.253859391	1.28879588	1	0.2	0.2	84.0	0.840198
hsa-mir-563	0.261406877	1.30285459	1	0.2	0.2	85.2	0.85173
hsa-mir-543	0.450344339	1.32452949	1	0.2	0.2	94.4	0.943987
hsa-mir-1207	0.44979885	1.33893167	1	0.2	0.2	94.2	0.942339
hsa-mir-542	0.519053428	1.3533456	1	0.2	0.2	96.9	0.968699
hsa-mir-597	0.322396885	1.36839487	1	0.2	0.2	89.3	0.892916
hsa-mir-93	0.37166338	1.37603265	1	0.2	0.2	90.9	0.90939
hsa-mir-522	0.613186156	1.37907861	1	0.2	0.2	98.0	0.980231
hsa-mir-1201	0.337265232	1.38829421	1	0.2	0.2	90.0	0.899506
hsa-mir-527	0.345818842	1.39001329	1	0.2	0.2	90.1	0.901153
hsa-mir-645	0.263667798	1.40156065	1	0.2	0.2	85.8	0.85832
hsa-mir-1184	0.238144837	1.41259449	1	0.2	0.2	81.9	0.818781
hsa-mir-548g	0.207027005	1.42186877	1	0.2	0.2	79.4	0.794069
hsa-mir-138-1	0.362257452	1.42556058	1	0.2	0.2	90.3	0.902801
hsa-mir-541	0.395766572	1.42685066	1	0.2	0.2	92.3	0.92257
hsa-mir-516a-2	0.636456013	1.42814501	1	0.2	0.2	98.5	0.985173
hsa-mir-1976	0.334908128	1.43222983	1	0.2	0.2	89.8	0.897858
hsa-mir-367	0.206510051	1.43378477	1	0.2	0.2	79.2	0.792422
hsa-mir-1322	0.24616989	1.43427373	1	0.2	0.2	83.2	0.83196
hsa-mir-1181	0.317528251	1.43703885	1	0.2	0.2	88.8	0.887974
hsa-mir-17	0.262607287	1.45895174	1	0.2	0.2	85.7	0.856672

hsa-mir-1271	0.394447723	1.47429843	1	0.2	0.2	92.1	0.920923
hsa-mir-1251	0.383138164	1.52322879	1	0.2	0.2	91.3	0.912685
hsa-mir-514-3	0.282911068	1.52919383	1	0.2	0.2	87.1	0.871499
hsa-mir-1178	0.245824147	1.53160779	1	0.2	0.2	83.0	0.830313
hsa-mir-122	0.248852874	1.54104687	1	0.2	0.2	83.5	0.835255
hsa-mir-1182	0.255647626	1.55253419	1	0.2	0.2	84.3	0.843493
hsa-mir-596	0.22613956	1.57332272	1	0.2	0.2	80.7	0.807249
hsa-mir-1252	0.251059485	1.57796435	1	0.2	0.2	83.9	0.83855
hsa-mir-548d-2	0.363755908	1.61145478	1	0.2	0.2	90.6	0.906096
hsa-mir-600	0.494125151	1.6320321	1	0.2	0.2	96.2	0.962109
hsa-mir-588	0.259969318	1.63493185	1	0.2	0.2	84.8	0.848435
hsa-mir-181b-2	0.672242419	1.64162828	1	0.2	0.2	99.3	0.99341
hsa-mir-449a	0.255693921	1.64520034	1	0.2	0.2	84.5	0.84514
hsa-mir-146b	0.281458182	1.68477894	1	0.2	0.2	87.0	0.869852
hsa-mir-1237	0.286565089	1.69165612	1	0.2	0.2	87.3	0.873147
hsa-mir-203	0.21841146	1.69803129	1	0.2	0.2	80.1	0.800659
hsa-mir-2113	0.264859391	1.70936123	1	0.2	0.2	86.0	0.859967
hsa-mir-92a-2	0.322007624	1.71925371	1	0.2	0.2	89.1	0.891269
hsa-mir-190b	0.417886831	1.72542048	1	0.2	0.2	93.4	0.934102
hsa-mir-1307	0.436072604	1.75067094	1	0.2	0.2	93.7	0.937397
hsa-mir-514-2	0.481490937	1.7521263	1	0.2	0.2	95.6	0.955519
hsa-mir-518c	0.623382164	1.81316267	1	0.2	0.2	98.4	0.983526
hsa-mir-124-2	0.46103044	1.81559103	1	0.2	0.2	95.2	0.952224
hsa-mir-1246	0.472067843	1.82656515	1	0.2	0.2	95.4	0.953871
hsa-mir-567	0.305013439	1.83623331	1	0.2	0.2	88.1	0.881384
hsa-mir-548f-4	0.457853237	1.83977386	1	0.2	0.2	95.1	0.950577
hsa-mir-1250	0.261693847	1.84734973	1	0.2	0.2	85.3	0.853377
hsa-mir-1978	0.407865715	1.84807625	1	0.2	0.2	92.9	0.92916
hsa-mir-1185-2	0.259121543	1.84844016	1	0.2	0.2	84.7	0.846787
hsa-mir-518f	0.619623005	1.85422198	1	0.2	0.2	98.2	0.981878
hsa-mir-564	0.267703654	1.8571363	1	0.2	0.2	86.2	0.861614
hsa-mir-196a-2	0.498124447	1.90826044	1	0.2	0.2	96.4	0.963756
hsa-mir-1297	0.288429594	1.92070246	1	0.2	0.2	87.6	0.876442
hsa-mir-376a-1	0.745080321	1.9376229	1	0.2	0.2	99.7	0.996705
hsa-mir-216a	0.448566863	1.94980619	1	0.2	0.2	94.1	0.940692
hsa-mir-1197	0.431338884	1.97035631	1	0.2	0.2	93.6	0.93575
hsa-mir-369	0.532546914	2.02358266	1	0.2	0.2	97.2	0.971993
hsa-mir-1471	0.365069797	2.18594574	1	0.2	0.2	90.8	0.907743
hsa-mir-409	0.654679768	2.20542396	1	0.2	0.2	99.2	0.991763
hsa-mir-103-2	0.38473693	2.2480838	1	0.2	0.2	91.6	0.91598
hsa-mir-181a-2	0.451389377	2.28595605	1	0.2	0.2	94.6	0.945634
hsa-mir-1249	0.414635762	2.29087147	1	0.2	0.2	93.1	0.930807
hsa-mir-548a-1	0.774117711	2.30195319	1	0.2	0.2	99.8	0.998353
hsa-mir-450a-1	0.308355974	2.30318045	1	0.2	0.2	88.3	0.883031
hsa-mir-329-2	0.508402169	2.3043753	1	0.2	0.2	96.5	0.965404
hsa-mir-148b	0.560352387	2.34426718	1	0.2	0.2	97.5	0.975288
hsa-mir-1257	0.407790788	2.36374696	1	0.2	0.2	92.8	0.927512
hsa-mir-578	0.398578394	2.44612276	1	0.2	0.2	92.4	0.924217
hsa-mir-518e	0.724969449	2.52779464	1	0.2	0.2	99.5	0.995058
hsa-mir-591	0.406448274	2.56523588	1	0.2	0.2	92.6	0.925865

hsa-mir-1179	0.388660073	2.73954067	1	0.2	0.2	91.8	0.917628
hsa-mir-184	0.641116109	2.80838161	1	0.2	0.2	98.7	0.98682
hsa-mir-1276	0.555151384	2.84513438	1	0.2	0.2	97.4	0.973641
hsa-mir-532	0.561227549	2.92569365	1	0.2	0.2	97.7	0.976936
hsa-mir-1301	0.842122611	3.07775401	1	0.2	0.2	100.0	1
hsa-mir-449b	0.644179574	3.11925599	1	0.2	0.2	98.8	0.988468
hsa-mir-148a	0.389399672	3.17146307	1	0.2	0.2	91.9	0.919275
hsa-mir-1302-6	0.48756123	3.30855851	1	0.2	0.2	95.9	0.958814
hsa-mir-10a	0.51341969	3.38071333	1	0.2	0.2	96.7	0.967051
hsa-mir-520a	0.645995384	3.53587111	1	0.2	0.2	99.0	0.990115
TOTAL			607	100.0	100.0		

**Supplementary Table S5.** List of pre-miRNAs and their corresponding mature miRNAs that target *MXII* 3'UTR efficiently (with log2(fold change) less than -0.5)

Mature miRNA	Pre-miRNA
hsa-let-7d-5p	hsa-let-7d
hsa-let-7d-3p	
hsa-let-7f-5p	hsa-let-7f-1
hsa-let-7f-1-3p	
hsa-let-7f-5p	hsa-let-7f-2
hsa-let-7f-2-3p	
hsa-miR-105-5p	hsa-mir-105-1
hsa-miR-105-3p	
hsa-miR-106a-5p	hsa-mir-106a
hsa-miR-106a-3p	
hsa-miR-129-5p	hsa-mir-129-2
hsa-miR-129-2-3p	
hsa-miR-155-5p	hsa-mir-155
hsa-miR-155-3p	
hsa-miR-183-5p	hsa-mir-183
hsa-miR-183-3p	
hsa-miR-200b-5p	hsa-mir-200b
hsa-miR-200b-3p	
hsa-miR-24-2-5p	hsa-mir-24-2
hsa-miR-24-3p	
hsa-miR-27a-5p	hsa-mir-27a
hsa-miR-27a-3p	
hsa-miR-29a-5p	hsa-mir-29a
hsa-miR-29a-3p	
hsa-miR-328-5p	hsa-mir-328
hsa-miR-328-3p	
hsa-miR-335-5p	hsa-mir-335
hsa-miR-335-3p	
hsa-miR-340-5p	hsa-mir-340
hsa-miR-340-2p	
hsa-miR-342-5p	hsa-mir-342
hsa-miR-342-3p	
hsa-miR-361-5p	hsa-mir-361
hsa-miR-361-3p	
hsa-miR-486-5p	hsa-mir-486
hsa-miR-486-3p	
hsa-miR-512-5p	hsa-mir-512-1
hsa-miR-512-3p	
hsa-miR-512-5p	hsa-mir-512-2
hsa-miR-512-3p	
hsa-miR-513a-5p	hsa-mir-513a-2
hsa-miR-513a-3p	
hsa-miR-551a	hsa-mir-551a
hsa-miR-623	hsa-mir-623
hsa-miR-664a-5p	hsa-mir-664
hsa-miR-664a-3p	
hsa-miR-744-5p	hsa-mir-744
hsa-miR-744-3p	
hsa-miR-875-5p	hsa-mir-875
hsa-miR-875-3p	
hsa-mir-892b	hsa-mir-892b
hsa-mir-934	hsa-mir-934

**Supplementary Table S6.** List of dysregulated miRNAs in glioma

Current Name	Previous Name	References			
hsa-let-7a-2-3p	hsa-let-7a-2star	3			
hsa-let-7a-3p	hsa-let-7astar	3			
hsa-let-7b-3p	hsa-let-7bstar	3			
hsa-let-7c-5p	hsa-let-7c	3	4		
hsa-let-7d-3p	hsa-let-7dstar	3			
hsa-let-7f-2-3p	hsa-let-7f-2star	3			
hsa-let-7g-3p	hsa-let-7gstar	3			
hsa-let-7i-3p	hsa-let-7istar	3			
hsa-let-7i-5p	hsa-let-7i	3	4		
hsa-miR-100-3p	hsa-miR-100star	3			
hsa-miR-100-5p	hsa-miR-100	3	4		
hsa-miR-106a-5p	hsa-miR-106a	1	2	3	4
hsa-miR-106b-3p	hsa-miR-106b*	1	3		
hsa-miR-106b-5p	hsa-miR-106b	1	2	3	4
hsa-miR-10a-3p	hsa-miR-10astar	3			
hsa-miR-10a-5p	hsa-miR-10a	1	2	3	4
hsa-miR-10b-3p	hsa-miR-10bstar	3			
hsa-miR-10b-5p	hsa-miR-10b	1	2	3	4
hsa-miR-122-3p	hsa-miR-122*	1			
hsa-miR-122-5p	hsa-miR-122a	4			
hsa-miR-1226-3p	hsa-miR-1226	3			
hsa-miR-1260a	hsa-miR-1260	3			
hsa-miR-1261		3			
hsa-miR-126-5p	hsa-miR-126*	1	3	4	
hsa-miR-1271-5p	hsa-miR-1271	3			
hsa-miR-1285-3p	hsa-miR-1285	3			
<i>hsa-miR-1287-5p</i>	hsa-miR-1287	3			
hsa-miR-1307-3p	hsa-miR-1307	3			
hsa-miR-130b-5p	hsa-miR-130bstar	3			
hsa-miR-1343-3p	hsa-miR-1343	3			
hsa-miR-135a-3p	hsa-miR-135astar	3			
hsa-miR-135b-5p	hsa-miR-135b	1	2	3	4
hsa-miR-140-3p		3			
hsa-miR-141-3p	hsa-miR-141	2	4		
hsa-miR-142-3p		1	3	4	
hsa-miR-142-5p		1	3	4	
hsa-miR-143-5p	hsa-miR-143star	3			
hsa-miR-144-3p	hsa-miR-144	1	3	4	
hsa-miR-144-5p	hsa-miR-144star	3			
hsa-miR-145-3p	hsa-miR-145star	3			
hsa-miR-1468-5p	hsa-miR-1468	3			
hsa-miR-146a-5p	hsa-miR-146a	1	3	4	
hsa-miR-146b-3p		3			
hsa-miR-146b-5p		1	3		
hsa-miR-147a	hsa-miR-147	4			
hsa-miR-148a-3p	hsa-miR-148a	3	4		
hsa-miR-148a-5p	hsa-miR-148astar	3			

hsa-miR-152-3p	hsa-miR-152	1	3	4		
hsa-miR-155-5p	hsa-miR-155	1	2	3	4	
hsa-miR-16-5p	hsa-miR-16	1	3	4		
hsa-miR-17-3p	hsa-miR-17*	1	4			
hsa-miR-17-5p	hsa-miR-17	1	2	3	4	
hsa-miR-182-3p	hsa-miR-182*	2	4			
hsa-miR-182-5p	hsa-miR-182	1	2	3	4	
hsa-miR-183-5p	hsa-miR-183	2	3	4		
hsa-miR-184	hsa-miR-184	3	4			
hsa-miR-185-3p	hsa-miR-185star	3				
hsa-miR-186-3p	hsa-miR-186star	3				
hsa-miR-186-5p	hsa-miR-186	3	4			
hsa-miR-18a-3p	hsa-miR-18a*	4				
hsa-miR-18a-5p	hsa-miR-18a	3	4			
hsa-miR-18b-5p	hsa-miR-18b	4				
hsa-miR-193a-3p		1	2	3	4	
hsa-miR-193a-5p		3				
hsa-miR-193b-3p	hsa-miR-193b	1	3	4		
hsa-miR-193b-5p	hsa-miR-193bstar	3				
hsa-miR-194-5p	hsa-miR-194	3	4			
hsa-miR-195-5p	hsa-miR-195	1	3	4		
hsa-miR-196b-5p	hsa-miR-196b	3	4			
hsa-miR-199a-3p		1	3	4		
hsa-miR-199a-5p		1	3	4		
hsa-miR-199b-3p		1	3			
hsa-miR-199b-5p		1	3	4		
hsa-miR-19a-3p	hsa-miR-19a	1	2	3	4	
hsa-miR-19b-1-5p	hsa-miR-19b-1star	3				
hsa-miR-19b-3p	hsa-miR-19b	1	1	2	3	4
hsa-miR-200a-5p	hsa-miR-200a*	4				
hsa-miR-200b-3p	hsa-miR-200b	3	4			
hsa-miR-200c-3p	hsa-miR-200c	2	3	4		
hsa-miR-202-3p	hsa-miR-202	4				
hsa-miR-202-5p	hsa-miR-202*	4				
hsa-miR-204-5p	hsa-miR-204	1	3	4		
hsa-miR-205-5p	hsa-miR-205	2	4			
hsa-miR-206		2	4			
hsa-miR-208a-3p	hsa-miR-208	2	4			
hsa-miR-20a-5p	hsa-miR-20	2	3	4		
hsa-miR-20b-3p	hsa-miR-20b*	1	3	4		
<i>hsa-miR-210-3p</i>	hsa-miR-210	2	3	4		
hsa-miR-2114-5p	hsa-miR-2114	3				
hsa-miR-211-5p	hsa-miR-211	3	4			
hsa-miR-21-3p	hsa-miR-21*	3				
<i>hsa-miR-215-5p</i>	hsa-miR-215	1	4			
hsa-miR-21-5p	hsa-miR-21	1	2	3	4	5
hsa-miR-216a-5p	hsa-miR-216	2	4			
hsa-miR-217		2	3	4		
hsa-miR-223-3p	hsa-miR-223	3	4			
hsa-miR-224-3p	hsa-miR-224star	3	4			

hsa-miR-2355-3p		3			
hsa-miR-23a-3p	hsa-miR-23a	1	3	4	
hsa-miR-24-1-5p	hsa-miR-24-1*, hsa-miR-189	1	4		
hsa-miR-24-3p	hsa-miR-24	1	4		
hsa-miR-25-3p	hsa-miR-25	1	2	3	4
hsa-miR-26b-3p	hsa-miR-26bstar	3			
hsa-miR-27a-3p	hsa-miR-27a	3	4		
hsa-miR-28-3p		3			
hsa-miR-28-5p	hsa-miR-28	3	4		
hsa-miR-296-3p		3			
hsa-miR-2964a-3p		3			
hsa-miR-2964a-5p		3			
hsa-miR-296-5p	hsa-miR-296	2	3	4	
hsa-miR-29a-5p	hsa-miR-29astar	3			
hsa-miR-29c-5p	hsa-miR-29cstar	3			
hsa-miR-301a-3p	hsa-miR-301, hsa-miR-301a	2	3	4	
hsa-miR-302a-3p	hsa-miR-302a	2	4		
hsa-miR-302a-5p	hsa-miR-302a*	4			
hsa-miR-302b-3p	hsa-miR-302b	2	4		
hsa-miR-302b-5p	hsa-miR-302b*	2	4		
hsa-miR-302c-5p	hsa-miR-302c*	2	4		
hsa-miR-302d-3p	hsa-miR-302d	2	4		
hsa-miR-3065-3p		3			
hsa-miR-3074-3p		3			
hsa-miR-30a-3p		4			
hsa-miR-30a-5p	hsa-miR-30a	3	4		
hsa-miR-30b-5p	hsa-miR-30b	3	4		
hsa-miR-30c-3p	hsa-miR-30c-2star	3			
hsa-miR-30c-5p	hsa-miR-30c	3	4		
hsa-miR-30d-3p	hsa-miR-30dstar	3			
hsa-miR-30d-5p	hsa-miR-30d	3	4		
hsa-miR-30e-5p	hsa-miR-30e	3	4		
hsa-miR-3135b		3			
hsa-miR-320a	hsa-miR-320	1	2	3	4
hsa-miR-320b		3			
hsa-miR-320c		3			
hsa-miR-320d		3			
hsa-miR-323b-5p	hsa-miR-453	4			
hsa-miR-325		4			
hsa-miR-32-5p	hsa-miR-32	1	3	4	
hsa-miR-335-3p	hsa-miR-335star	3			
hsa-miR-335-5p	hsa-miR-335	1	3	4	
hsa-miR-337-3p	hsa-miR-337	1	4		
hsa-miR-337-5p		1			
hsa-miR-339-3p		3			
hsa-miR-339-5p	hsa-miR-339	1	3	4	
hsa-miR-33b-5p	hsa-miR-33b	3	4		
hsa-miR-345-5p	hsa-miR-345	3	4		
hsa-miR-34a-5p	hsa-miR-34a	1	3	4	
<i>hsa-miR-34b-5p, -3p</i>	hsa-miR-34b	3	4		

hsa-miR-34c-3p		3		
hsa-miR-3605-3p		3		
hsa-miR-3613-5p		3		
hsa-miR-361-3p		3		
hsa-miR-3615		3		
hsa-miR-362-3p		1	3	
hsa-miR-362-5p	hsa-miR-362	3	4	
hsa-miR-363-5p	hsa-miR-363*	1	4	
hsa-miR-3647-3p		3		
hsa-miR-367-3p	hsa-miR-367	2	4	
hsa-miR-371a-3p	hsa-miR-371	2	4	
<i>hsa-miR-372-3p</i>	hsa-miR-372	2	4	
hsa-miR-373-3p	hsa-miR-373	2	4	
hsa-miR-373-5p	hsa-miR-373*	4		
hsa-miR-374a-3p	hsa-miR-374astar	3		
hsa-miR-374a-5p	hsa-miR-374a	1	3	4
hsa-miR-374b-3p	hsa-miR-374bstar	3		
hsa-miR-374b-5p	hsa-miR-374b	1	3	
hsa-miR-378a-3p	hsa-miR-378	1	3	4
hsa-miR-378a-5p	hsa-miR-378star	3		
hsa-miR-378c		3		
hsa-miR-380-5p		4		
hsa-miR-384		4		
hsa-miR-3960		3		
hsa-miR-409-5p		4		
hsa-miR-423-5p		3		
hsa-miR-429		4		
hsa-miR-432-3p	hsa-miR-432*	4		
hsa-miR-4443		3		
hsa-miR-4448		3		
hsa-miR-448		4		
hsa-miR-449a	hsa-miR-449	4		
hsa-miR-449b-5p	hsa-miR-449b	4		
hsa-miR-450a-5p	hsa-miR-450a	1	3	
hsa-miR-450b-5p		3		
hsa-miR-452-3p	hsa-miR-452*	4		
hsa-miR-452-5p	hsa-miR-452	3	4	
hsa-miR-454-3p	hsa-miR-454	3	4	
hsa-miR-455-3p		3		
hsa-miR-455-5p	hsa-miR-455	3	4	
hsa-miR-4632-3p	hsa-miR-4632	3		
hsa-miR-4677-3p		3		
hsa-miR-486-5p	hsa-miR-486	3	4	5
<i>hsa-miR-489-3p</i>	hsa-miR-489	4		
hsa-miR-493-3p		3	4	
hsa-miR-493-5p	hsa-miR-493star	3	4	
hsa-miR-497-3p	hsa-miR-497star	3		
hsa-miR-497-5p	hsa-miR-497	1	3	4
hsa-miR-499a-5p	hsa-miR-499	4		
hsa-miR-500a-3p	hsa-miR-500astar	3		

hsa-miR-500a-5p	hsa-miR-500, hsa-miR-500a	3	4
hsa-miR-501-3p		3	
hsa-miR-501-5p	hsa-miR-501	3	4
hsa-miR-502-3p		3	
hsa-miR-506-3p	hsa-miR-506	4	
hsa-miR-507		4	
hsa-miR-508-3p	hsa-miR-508	4	
hsa-miR-5096		3	
<i>hsa-miR-510-5p</i>	hsa-miR-510	4	
<i>hsa-miR-511-5p</i>	hsa-miR-511	4	
hsa-miR-512-3p		4	
hsa-miR-512-5p		4	
hsa-miR-513a-5p	hsa-miR-513	1	4
hsa-miR-514a-3p	hsa-miR-514	4	
hsa-miR-515-5p		4	
hsa-miR-516a-5p		1	
hsa-miR-516b-3p	hsa-miR-516-3p	4	5
hsa-miR-516b-5p	hsa-miR-516-5p	4	
hsa-miR-517-5p	hsa-miR-517*	4	
hsa-miR-517c-3p	hsa-miR-517c	4	
hsa-miR-518a-3p	hsa-miR-518a	4	
hsa-miR-518b		4	
hsa-miR-518c-3p	hsa-miR-518c	4	
hsa-miR-518c-5p	hsa-miR-518c*	4	
hsa-miR-518d-3p	hsa-miR-518d	4	
hsa-miR-518e-3p	hsa-miR-518e	4	
hsa-miR-518f-3p	hsa-miR-518f	4	
hsa-miR-518f-5p	hsa-miR-518f*	4	
hsa-miR-519a-3p	hsa-miR-519a	4	
hsa-miR-519b-3p	hsa-miR-519b	4	
hsa-miR-519c-3p	hsa-miR-519c	4	
hsa-miR-519c-5p	hsa-miR-526c	4	
<i>hsa-miR-519d-3p</i>	hsa-miR-519d	4	5
hsa-miR-519e-3p	hsa-miR-519e	4	
hsa-miR-520a-3p	hsa-miR-520a	4	
hsa-miR-520b		4	
hsa-miR-520c-3p	hsa-miR-520c	4	
hsa-miR-520d-5p	hsa-miR-520d*	4	
hsa-miR-520e		4	
hsa-miR-520f-3p	hsa-miR-520f	4	
hsa-miR-520g-3p	hsa-miR-520g	4	
hsa-miR-521		4	
hsa-miR-523-3p	hsa-miR-523	4	
hsa-miR-524-3p	hsa-miR-524	4	
hsa-miR-524-5p	hsa-miR-524*	4	
hsa-miR-525-3p	hsa-miR-525*	4	
hsa-miR-525-5p	hsa-miR-525	4	
hsa-miR-526a		4	
hsa-miR-526b-5p	hsa-miR-526b	4	
hsa-miR-527		4	

hsa-miR-532-3p		3		
hsa-miR-532-5p	hsa-miR-532	1	3	4
hsa-miR-542-3p		3	4	
hsa-miR-542-5p		1	4	
hsa-miR-544a	hsa-miR-544	4		
hsa-miR-545-3p	hsa-miR-545	4		
hsa-miR-545-5p	hsa-miR-545star	3		
hsa-miR-548b-3p	hsa-miR-548b	3	4	
hsa-miR-548c-3p	hsa-miR-548c	4		
hsa-miR-548c-5p		3		
hsa-miR-550a-3p	hsa-miR-550astar	3		
hsa-miR-550a-5p	hsa-miR-550, hsa-miR-550a	1	3	4
hsa-miR-551b-3p	hsa-miR-551b	1	4	
hsa-miR-553		4		
hsa-miR-554		4		
hsa-miR-555		4		
hsa-miR-556-5p	hsa-miR-556	4		
hsa-miR-557		4		
hsa-miR-559		4		
hsa-miR-561-3p	hsa-miR-561	4		
hsa-miR-562		4		
hsa-miR-563		4		
hsa-miR-564		4		
hsa-miR-566		4		
hsa-miR-567		4		
hsa-miR-568		4		
hsa-miR-570-3p	hsa-miR-570	4		
hsa-miR-571		4		
hsa-miR-572		4		
hsa-miR-573		4		
hsa-miR-574-5p		3		
hsa-miR-575		4		
hsa-miR-576-3p		3		
hsa-miR-576-5p	hsa-miR-576	4		
hsa-miR-577		4		
hsa-miR-581		4		
hsa-miR-582-3p		3		
hsa-miR-582-5p	hsa-miR-582	3	4	
hsa-miR-587		4		
hsa-miR-588		4		
hsa-miR-589-5p,-3p	hsa-miR-589	3	4	
hsa-miR-590-3p		3		
hsa-miR-590-5p	hsa-miR-590	4		
hsa-miR-591		4		
hsa-miR-593-3p	hsa-miR-593	4		
hsa-miR-595		4		
hsa-miR-596		4		
hsa-miR-597-5p	hsa-miR-597	4		
hsa-miR-599		4		
hsa-miR-600		4		

hsa-miR-602		1	4
hsa-miR-604		4	
hsa-miR-605-5p	hsa-miR-605	4	
hsa-miR-606		4	
hsa-miR-607		4	
hsa-miR-608		4	
hsa-miR-609		4	
hsa-miR-610		4	
hsa-miR-612		4	
hsa-miR-614		4	
hsa-miR-615-3p	hsa-miR-615	3	4
hsa-miR-616-3p, -5p	hsa-miR-616	4	
hsa-miR-617		4	
hsa-miR-619	hsa-miR-619	4	
hsa-miR-620		4	
hsa-miR-621		4	
hsa-miR-622		4	
hsa-miR-623		4	
hsa-miR-624-3p	hsa-miR-624	4	
hsa-miR-624-5p	hsa-miR-624star	3	
hsa-miR-626		4	
hsa-miR-627	hsa-miR-627	4	
hsa-miR-629-3p	hsa-miR-629star	3	
hsa-miR-630		4	
hsa-miR-631		4	
hsa-miR-632		4	
hsa-miR-633		4	
hsa-miR-635		4	
hsa-miR-636		4	
hsa-miR-639		4	
hsa-miR-641		4	
hsa-miR-643		4	
hsa-miR-644a	hsa-miR-644	4	
hsa-miR-646		4	
hsa-miR-648		4	
hsa-miR-649		4	
hsa-miR-651	hsa-miR-651	4	
hsa-miR-653	hsa-miR-653	4	
hsa-miR-657		4	
hsa-miR-658		4	
hsa-miR-661		4	
hsa-miR-662		4	
hsa-miR-663a	hsa-miR-663	4	
hsa-miR-664a-3p	hsa-miR-664	3	
hsa-miR-671-5p	hsa-miR-671	3	4
hsa-miR-676-3p	hsa-miR-676	3	
hsa-miR-767-3p		4	
hsa-miR-768-3p		4	
hsa-miR-768-5p		4	
hsa-miR-802		4	

hsa-miR-877-5p	hsa-miR-877	3			
hsa-miR-886-3p		1			
hsa-miR-886-5p		1			
hsa-miR-887	hsa-miR-887	3			
hsa-miR-891a	hsa-miR-891a	3			
hsa-miR-891b		3			
hsa-miR-92a-1-5p	hsa-miR-92a-1star	3			
hsa-miR-92a-3p	hsa-miR-92a	1	2	3	4
hsa-miR-92b-3p	hsa-miR-92b	1	3	4	
hsa-miR-92b-5p	hsa-miR-92bstar	3			
hsa-miR-93-5p	hsa-miR-93	1	2	3	4
hsa-miR-937-3p	hsa-miR-937	3			
hsa-miR-938		1			
hsa-miR-9-3p	hsa-miR-9*	1	3	4	
hsa-miR-941		3			
hsa-miR-96-5p	hsa-miR-96	1	2	4	
hsa-miR-99a-3p	hsa-miR-99astar	3			
hsa-miR-99a-5p	hsa-miR-99a	1	3	4	
hsa-miR-99b-3p	hsa-miR-99bstar	3			

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