

Table SI. Differently expressed pseudogenes in glioblastoma screened from the authors previous microarray data (Dataset no: GSE51146).

Sequence code	Gene	Fold-change	P value	Variation	Location
ENST00000426153	ANXA2P2	8.002206	0.0038029	up	chr9
ENST00000437802	COX7A2P2	4.065227	0.031665	down	chr4
ENST00000446556	COX7CP1	4.100699	0.009572	down	chr13
ENST00000325349	EEF1A1P6	2.271004	0.015757	down	chr7
ENST00000441380	IFITM4P	2.197886	0.024843	up	chr6
ENST00000412073	MEMO1P1	4.728832	0.00032	down	chr21
ENST00000240349	NACA3P	3.721486	0.030728	down	chr4
ENST00000289731	OR10J6P	2.419051	0.044494	up	chr1
ENST00000437536	OR3B1P	2.134671	0.049751	up	chrX
ENST00000511110	OR51A1P	2.022852	0.042427	down	chr11
NR_002171	OR7E156P	2.63186	0.048964	up	chr13
ENST00000446672	PARP4P2	3.367109	0.007723	up	chr13
ENST00000450588	PPIAP3	2.370162	0.008113	down	chr20
ENST00000403866	PPIAP9	2.061279	0.000661	down	chr6
NR_003594	REXO1L2P	2.193508	0.027244	up	chr8
ENST00000374520	RPL12P1	2.006069	0.027864	down	chr6
ENST00000432629	RPL12P4	2.840407	0.034929	down	chr20
NR_026715	RPL13AP6	2.288057	0.041259	down	chr10
ENST00000439981	RPL15P1	3.141947	0.007694	down	chr20
ENST00000461464	RPL17P20	3.547392	0.000552	down	chr4
NR_026911	RPL21P2	3.983187	0.044473	down	chr13
NR_026911	RPL21P28	3.983187	0.044473	down	chr13
ENST00000453844	RPL23AP3	3.540026	0.02512	down	chr21
ENST00000398116	RPL31P1	4.398863	0.027156	down	chr21
ENST00000413849	RPL31P2	6.45924	0.040365	down	chr20
ENST00000473882	RPL36AP40	3.47362	0.048934	down	chr11
ENST00000317197	RPL37AP8	2.819296	0.00786	down	chr11
ENST00000432310	RPL37P1	4.725642	0.020953	down	chr20
ENST00000456825	RPL37P3	2.298569	0.049397	down	chr21
ENST00000437106	RPL3P1	4.571561	0.034236	down	chr21
ENST00000430239	RPL7P4	3.353215	0.047812	down	chr6
ENST00000440331	RPS26P2	2.689931	0.033509	down	chr9
ENST00000457576	RPS27AP2	3.468124	0.022733	down	chr20
ENST00000450250	SLC25A5P1	2.575056	0.004699	down	chr22
ENST00000515328	SLC25A5P6	2.465091	0.006879	down	chr4
ENST00000457888	UBDP1	6.245092	0.000846	up	chr6
ENST00000403778	VN1R12P	2.37355	0.004322	down	chr6

Table SII. Univariate analysis of factors associated with overall survival of patients with glioblastoma.

Variables	Hazard ratio	95%Confidence interval	P-value
UBDP1 (Low vs. High)	2.305	1.076-4.941	0.032
Gender (Male vs. Female)			0.491
Age (≤ 45 vs. >45)	4.139	1.617-10.595	0.003
Tumor size (<4 cm vs. ≥ 4 cm)	5.34	2.095-13.612	<0.001
Resection degree (Total vs. Subtotal)	9.87	2.454-39.703	0.001
Radio-chemotherapy (Yes vs. No)	0.17	0.055-0.525	0.002
IDH1 mutation (Yes vs. No)	0.153	0.020-1.167	0.07

Table SIII. miRNAs that bind to both UBDP1 and UBD.

miRNA	UBDP1_s	UBDP1_e	UBDP1_l	UBD_s	UBD_e	UBD_l
hsa-miR-3162-3p	3	19	17	3	20	17
hsa-miR-3189-3p	3	20	17	2	20/20	18/19
hsa-miR-486-3p	3	16	13	2	20	21
hsa-miR-5006-5p	2	18	16	3	20	18
hsa-miR-5685	3	13	10	2	18	16
hsa-miR-6072	2	19	20	2	18/19	19/20
hsa-miR-6747-3p	2	20	18	2	18/19	17/17
hsa-miR-6783-3p	2	21	19	2	21	20
hsa-miR-6818-3p	2	21	20	2	21	20

miRNA or miR, microRNA; has, *Homo sapiens*.