

## Supplementary Material S1: The primers sequences (5'-3')

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### AGO2

Forward primer TCCACCTAGACCCGACTTTGG

Reverse primer GTGTTCCACGATTTCCCTGTT

### EIF4E3

Forward primer GCAAAGGGTGGCGTATGGAA

Reverse primer CCCGATGGTTGCTAACAGC

### EIF4E

Forward primer GAAACCACCCCTACTCCTAATCC

Reverse primer AGAGTGCCCATCTGTTCTGTA

### DCPS

Forward primer GCAGCTCCTCAACTAGGCAAG

Reverse primer GAAGCCGGAGAACGGTAAGC

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## Supplementary Material S2: Expression of 24 m7GRGs in RNA-seq.

gene	conMean	treatMean	logFC	pValue	fdr
DCP2	2.497743	2.548924	0.029263	0.430586	0.449307
IFIT5	3.068548	3.122906	0.025333	0.711143	0.711143
EIF3D	6.184146	5.808371	-0.09044	3.76E-13	7.51E-13
EIF4G3	3.400347	3.458298	0.02438	0.10058	0.120696
NSUN2	3.613179	4.002495	0.147631	1.03E-17	2.25E-17
GEMIN5	3.040677	2.931432	-0.05279	0.005423	0.007231
AGO2	2.380648	2.373953	-0.00406	0.109148	0.124741
NUDT10	0.902379	0.785625	-0.19989	2.10E-06	3.36E-06
EIF4E	1.719527	1.916329	0.156333	1.89E-09	3.24E-09
EIF4E2	3.160464	3.437258	0.121122	8.78E-25	5.27E-24
NCBP2	4.077928	4.472261	0.133168	9.58E-27	7.66E-26
NUDT11	1.209852	0.818136	-0.56442	7.16E-22	2.45E-21
NUDT3	0.056035	0.109145	0.961855	2.22E-18	5.33E-18
NCBP1	3.189531	3.569618	0.162425	1.39E-20	3.70E-20
METTL1	2.602957	3.241659	0.316581	7.95E-30	9.54E-29
LARP1	4.64933	4.897966	0.07516	6.24E-11	1.15E-10
NUDT4	2.649405	2.547042	-0.05685	0.022936	0.028972
EIF4E3	2.854685	2.022631	-0.4971	1.44E-44	3.45E-43
SNUPN	2.011552	1.984982	-0.01918	0.241631	0.263597
WDR4	1.852233	2.375233	0.358803	9.94E-22	2.98E-21
LSM1	2.515897	3.105072	0.303554	1.98E-24	9.50E-24
NUDT16	3.407635	2.991726	-0.18779	1.09E-23	4.35E-23
DCPS	1.884296	2.048251	0.120367	0.00024	0.000338
CYFIP1	4.316232	4.167891	-0.05046	1.57E-05	2.35E-05

## Supplementary Material S3: The changes of DNA methylation in 18 m7GRGs

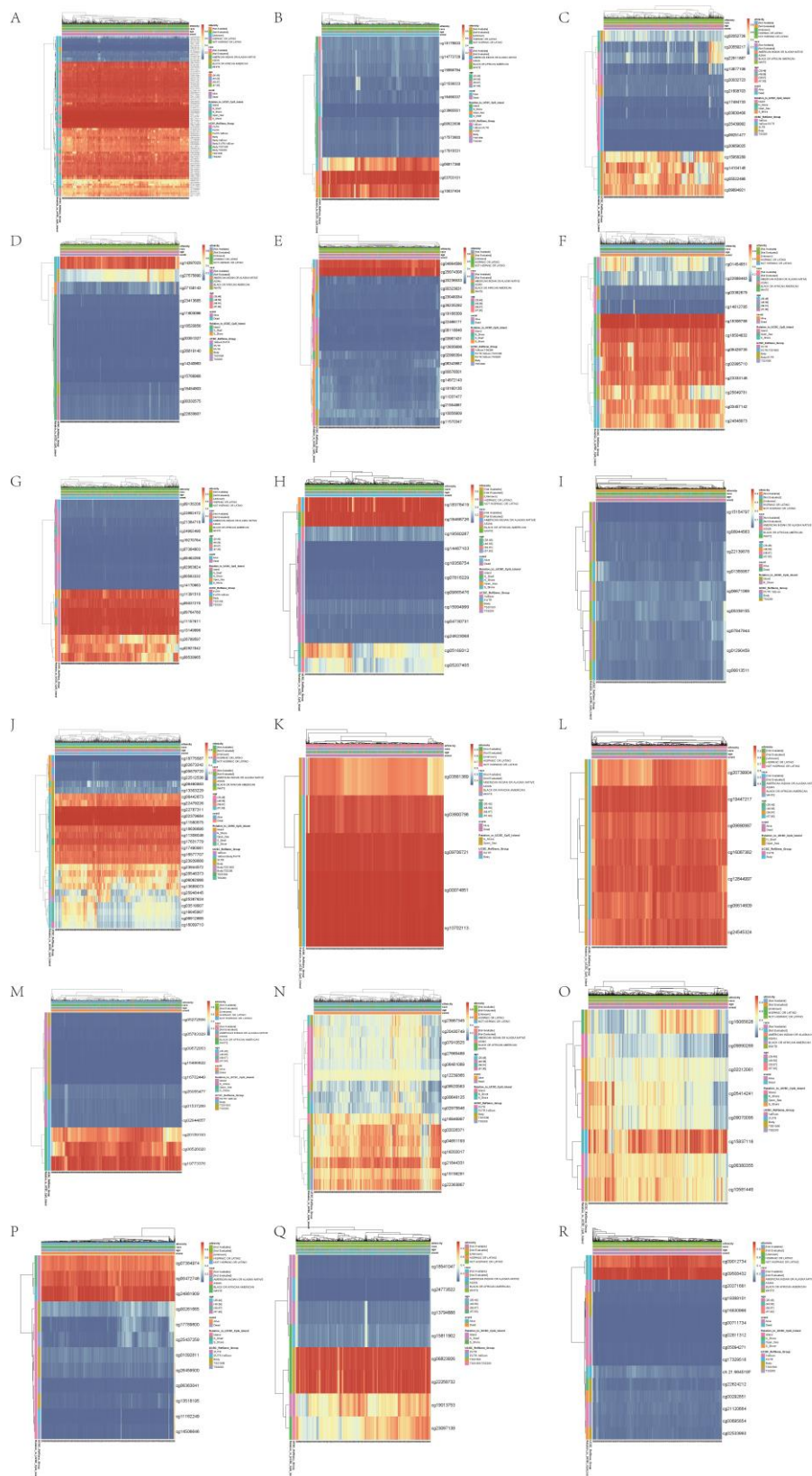


Figure 1 The changes of DNA methylation in 18 m7GRGs: CYFIP1(A), DCP2 (B), DCPS (C), EIF3D (D), EIF4E (E), EIF4E3 (F), EIF4G3 (G), GEMIN5 (H), IFIT5 (I), LARP1 (J), NCBP2 (K), NSUN2 (L), NUDT3 (M), NUDT10 (N), NUDT11 (O), NUDT16 (P), SNUPN (Q), WDR4 (R).

**Supplementary Material S4: Cluster results of TCGA-BRCA queue.**

sample	Subtype
TCGA-A8-A08A-01A	C1
TCGA-A8-A0A7-01A	C1
TCGA-A8-A09W-01A	C1
TCGA-A8-A08L-01A	C1
TCGA-E9-A1RD-01A	C1
TCGA-AC-A8OR-01A	C1
TCGA-AN-A04C-01A	C1
TCGA-E9-A248-01A	C1
TCGA-BH-A0E0-01A	C1
TCGA-AR-A0TR-01A	C1
TCGA-AN-A0XL-01A	C1
TCGA-BH-A0RX-01A	C1
TCGA-AN-A0XW-01A	C1
TCGA-AC-A3EH-01A	C1
TCGA-E9-A249-01A	C1
TCGA-AN-A0AK-01A	C1
TCGA-AN-A0FL-01A	C1
TCGA-AN-A0FJ-01A	C1
TCGA-A8-A07S-01A	C1
TCGA-E2-A1LK-01A	C1
TCGA-A8-A07R-01A	C1
TCGA-E2-A15O-01A	C1
TCGA-BH-A0E6-01A	C1
TCGA-C8-A278-01A	C1
TCGA-D8-A27R-01A	C1
TCGA-A7-A6VX-01A	C1
TCGA-BH-A0GZ-01A	C1
TCGA-A7-A5ZX-01A	C1
TCGA-A7-A3J1-01A	C1
TCGA-C8-A12M-01A	C1
TCGA-C8-A12P-01A	C1
TCGA-JL-A3YW-01A	C1
TCGA-B6-A0I9-01A	C1
TCGA-A7-A5ZV-01A	C1
TCGA-C8-A130-01A	C1
TCGA-EW-A1IW-01A	C1
TCGA-C8-A1HM-01A	C1
TCGA-C8-A138-01A	C1
TCGA-D8-A27V-01A	C1
TCGA-C8-A12V-01A	C1
TCGA-C8-A12O-01A	C1

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TCGA-D8-A27G-01A	C1
TCGA-D8-A145-01A	C1
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TCGA-S3-AA11-01A	C1
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TCGA-D8-A1JH-01A	C1
TCGA-E2-A15S-01A	C1
TCGA-OL-A66P-01A	C1
TCGA-D8-A1Y3-01A	C1
TCGA-BH-A0E2-01A	C1
TCGA-A7-A4SD-01A	C1
TCGA-AC-A2QJ-01A	C1
TCGA-E2-A158-01A	C1
TCGA-AC-A3OD-01B	C1
TCGA-A8-A09V-01A	C1
TCGA-BH-A0H0-01A	C1
TCGA-EW-A6S9-01A	C1
TCGA-BH-A18N-01A	C1
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TCGA-D8-A1XS-01A	C1
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TCGA-S3-AA10-01A	C1
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TCGA-XX-A899-01A	C2
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TCGA-D8-A1JC-01A	C2
TCGA-D8-A1XR-01A	C2
TCGA-D8-A1XQ-01A	C2
TCGA-EW-A1J3-01A	C2
TCGA-EW-A6SA-01A	C2
TCGA-A8-A0AB-01A	C2
TCGA-LL-A5YL-01A	C2
TCGA-D8-A1XD-01A	C2
TCGA-EW-A3U0-01A	C2
TCGA-D8-A1J9-01A	C2
TCGA-A7-A4SF-01A	C2
TCGA-A8-A06R-01A	C2
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TCGA-A2-A0YJ-01A	C2
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TCGA-D8-A1JE-01A	C2
TCGA-EW-A1J1-01A	C2
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TCGA-A1-A0SP-01A	C2
TCGA-A2-A0YK-01A	C2
TCGA-E2-A154-01A	C2
TCGA-OL-A6VQ-01A	C2
TCGA-D8-A1XL-01A	C2
TCGA-EW-A1PB-01A	C2
TCGA-D8-A1JL-01A	C2
TCGA-D8-A1JJ-01A	C2
TCGA-BH-A18J-01A	C2
TCGA-AC-A8OP-01A	C2
TCGA-AO-A1KO-01A	C2
TCGA-A2-A0T4-01A	C2
TCGA-A7-A26J-01B	C2
TCGA-A1-A0SI-01A	C2
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TCGA-A2-A4RY-01A	C2
TCGA-A2-A0YH-01A	C2
TCGA-BH-A8G0-01A	C2
TCGA-A2-A0YG-01A	C2
TCGA-EW-A2FW-01A	C2
TCGA-AC-A2B8-01A	C2
TCGA-A7-A2KD-01A	C2
TCGA-AO-A0J8-01A	C2
TCGA-EW-A1OW-01A	C2
TCGA-E2-A153-01A	C2
TCGA-A2-A0YT-01A	C2
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TCGA-AQ-A04H-01B	C2
TCGA-BH-A0W4-01A	C2

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TCGA-EW-A2FV-01A	C2
TCGA-EW-A1OV-01A	C2
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TCGA-E9-A5FK-01A	C2
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TCGA-LL-A5YN-01A	C4
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TCGA-BH-A0AY-01A	C4
TCGA-OL-A6VO-01A	C4
TCGA-OL-A5RX-01A	C4
TCGA-A8-A08C-01A	C4
TCGA-AC-A4ZE-01A	C4
TCGA-EW-A1OY-01A	C4
TCGA-EW-A1P7-01A	C4
TCGA-BH-A0GY-01A	C4
TCGA-A7-A0CJ-01A	C4



TCGA-A8-A08O-01A	C4
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TCGA-E9-A3Q9-01A	C4
TCGA-E2-A1II-01A	C4
TCGA-AR-A1AY-01A	C4
TCGA-A2-A0D2-01A	C4
TCGA-BH-A1FH-01A	C4
TCGA-E2-A2P6-01A	C4
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TCGA-B6-A1KC-01B	C4
TCGA-A8-A09I-01A	C4
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TCGA-B6-A0RV-01A	C4
TCGA-B6-A0IA-01A	C4
TCGA-B6-A0RU-01A	C4

**Supplementary Material S5: DMFS (Distant metastasis free survival) curve of AGO2, EIF4E3, and EIF4E**

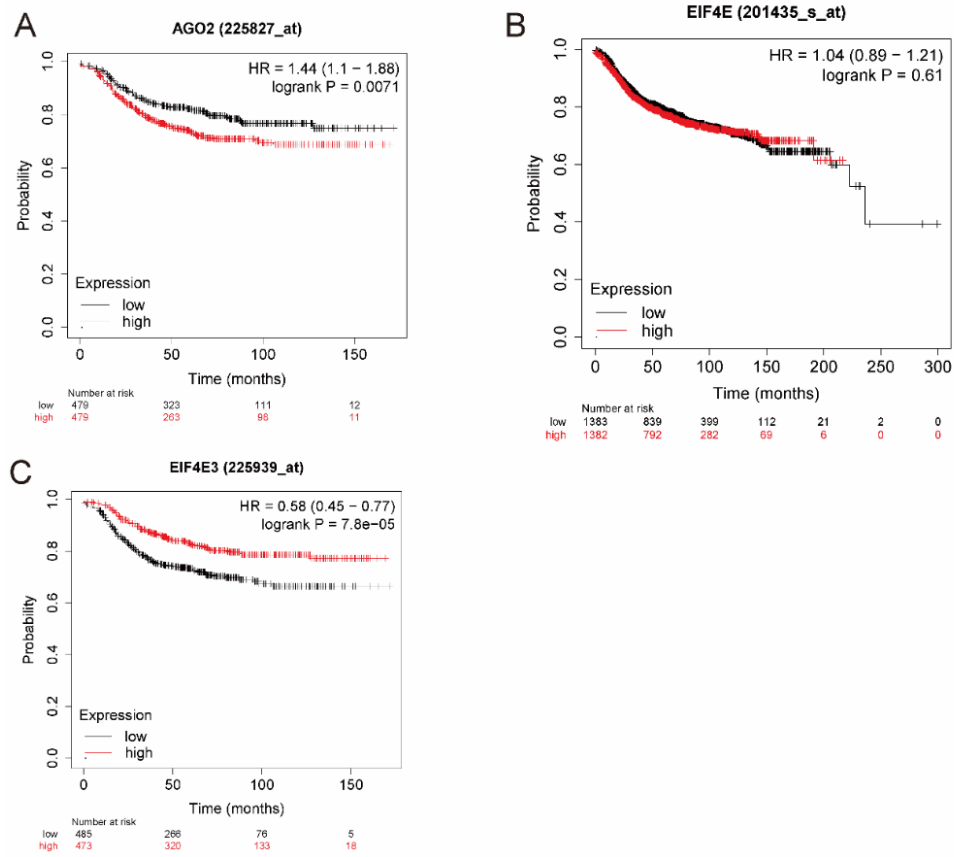


Figure 2 KM curve (DMFS) of AGO2 (A), EIF4E3 (B), and EIF4E (C).

**Supplementary Material S6: C index of nomogram**

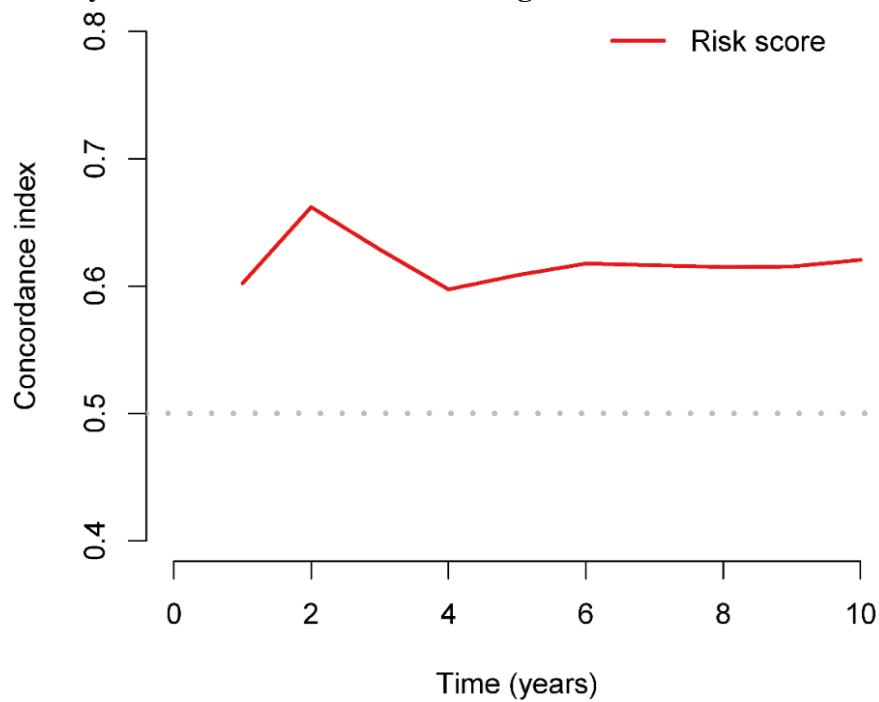
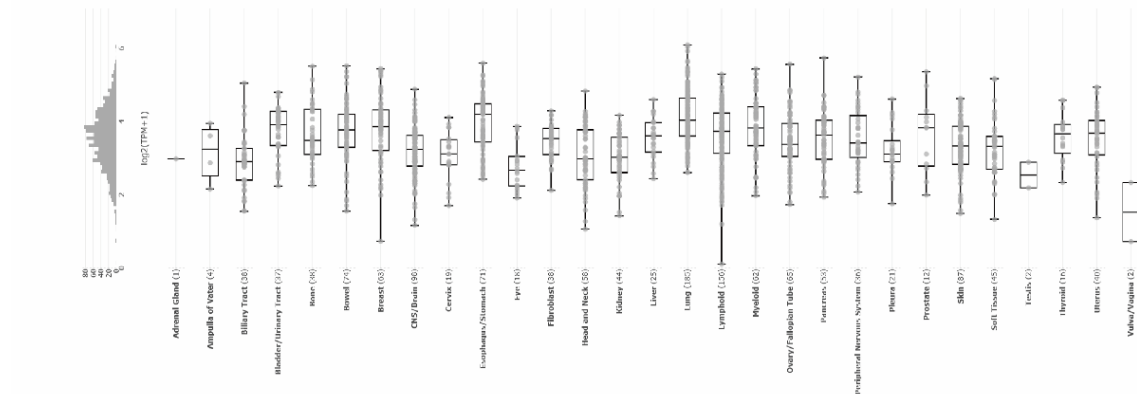


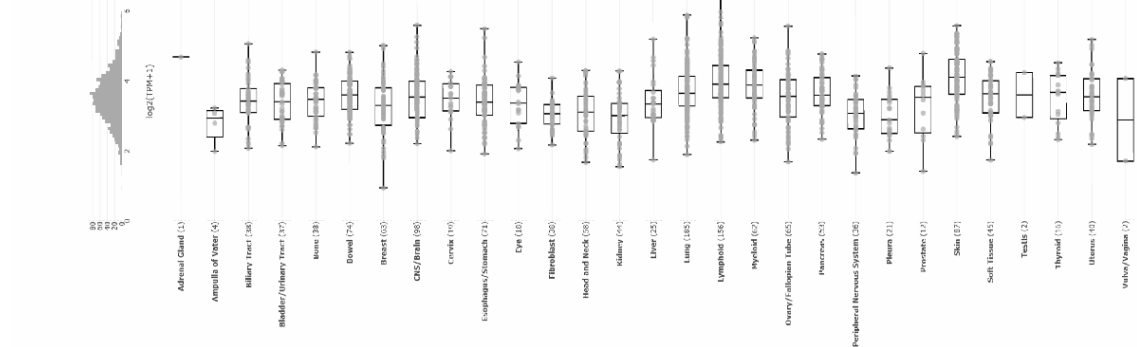
Figure 3 C index of nomogram

# Supplementary Material S7: The expression landscapes of AGO2, EIF4E3, DCPS, and EIF4E in different cell lines based on the CCLE database.

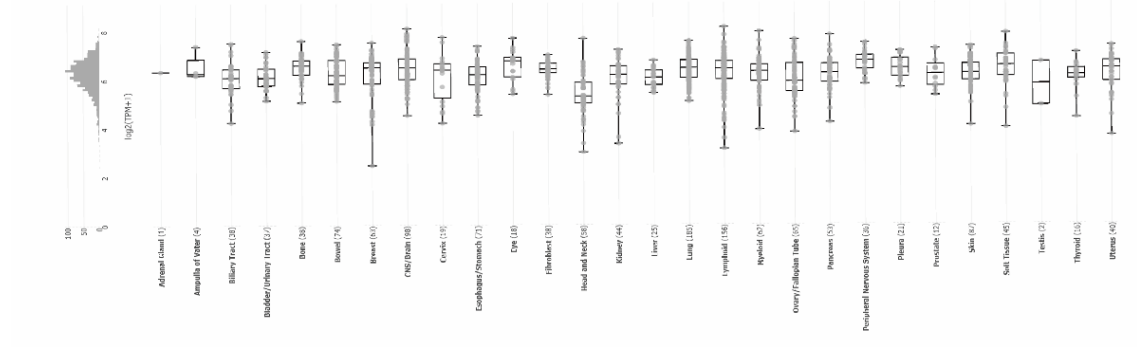
## AGO2



## DCPS



## EIF4E



## EIF4E3

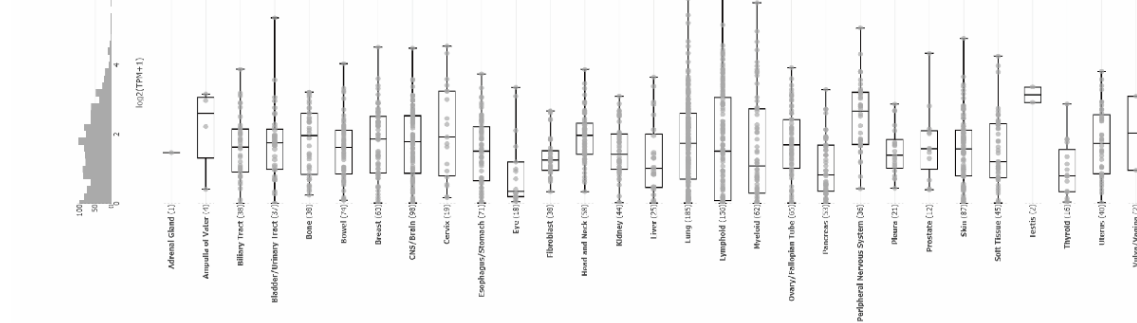


Figure 4 The expression landscapes of AGO2, EIF4E3, DCPS, and EIF4E in different cell lines based on the CCLE database.