

Supplemental Materials.**Supplemental Table S1**

TCGA cervical cancer patient characteristics.

Clinical characteristics		Total (296)	%
Age (y)	≥ 60	57	19.26
	< 60	239	80.74
Clinical Stage	I	93	49.47
	II	53	28.19
	III	23	12.23
T Classification	T1	86	50.59
	T2	61	35.88
	T3	13	7.65
	T4	10	5.88
N Classification	N0	90	74.38
	N1	31	25.62
Hysterectomy Performed Type	Radical Hysterectomy	154	91.12
	Simple Hysterectomy	6	3.55
	Other	9	5.33
Keratinizing	Keratinizing squamous cell carcinoma	52	31.33
	Non-keratinizing squamous cell carcinoma	114	68.67
Lymphovascular Invasion	Absent	71	46.10
	Present	83	53.90
Measure of Response	Complete Response	83	74.77
	Partial Response	9	8.11
	Radiographic Progressive Disease	16	14.41
	Stable Disease	3	2.70
Neoplasm Histologic Grade	G1	13	7.78
	G2	82	49.10
	G3	71	42.51
	G4	1	0.60
Distant Metastasis	Positive	31	10.47
	Negative	265	89.53
Locoregional Recurrence	Positive	11	3.72
	Negative	285	96.28
Menopause Status	Peri(6-12 months since last menstrual period)	25	10.64
	Pre (<6 months since LMP AND no prior bilateral ovariectomy AND not on estrogen replacement)	127	54.04
	Post (prior bilateral ovariectomy OR >12 mo since LMP with no prior hysterectomy)	83	35.32
Status	With tumor	74	31.22
	Tumor free	163	68.78

Supplemental Table S2**TABLE S2.** NUSAP1 expression* related to clinical pathological characteristics (logistic regression).

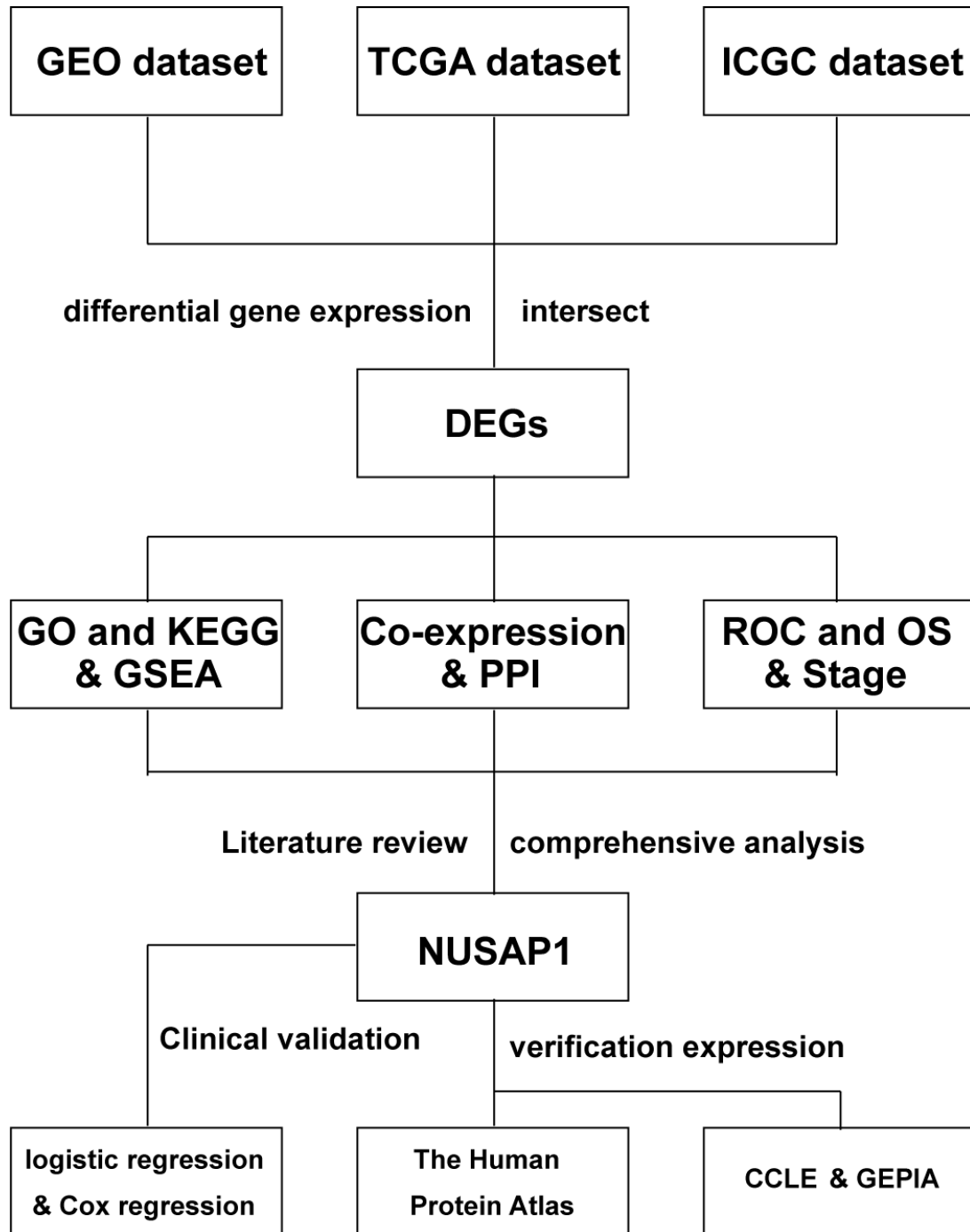
Clinical characteristic	Total(N)	Odds ratio in NUSAP1 expression	p-value
Age (continuous)	296	0.993(0.975-1.011)	0.437
Stage (III-VI vs. I-II)	188	0.465(0.247-0.873)	0.017
Status (with tumor vs. tumor free)	296	0.794(0.443-1.421)	0.437
Distant Metastasis (negative vs. positive)	296	0.860(0.387-1.911)	0.711
Locoregional Recurrence (negative vs. positive)	296	1.114(0.289-4.304)	0.875
Uteri involvement (absent vs. present)	118	1.524(0.407-5.710)	0.532
Hysterectomy performed (other vs. hysterectomy)	169	0.581(0.138-2.438)	0.458
Keratinizing indicator (non-keratinizing vs. keratinizing)	166	0.977(0.459-2.081)	0.952
BMI (continuous)	256	1.019(0.981-1.059)	0.330
Lymphovascular invasion indicator (absent vs. present)	154	1.318(0.610-2.850)	0.482
Grade (G2-G3 vs. G1)	167	0.704(0.185-2.678)	0.607

* Categorical dependent variable, less or greater than the median expression level.

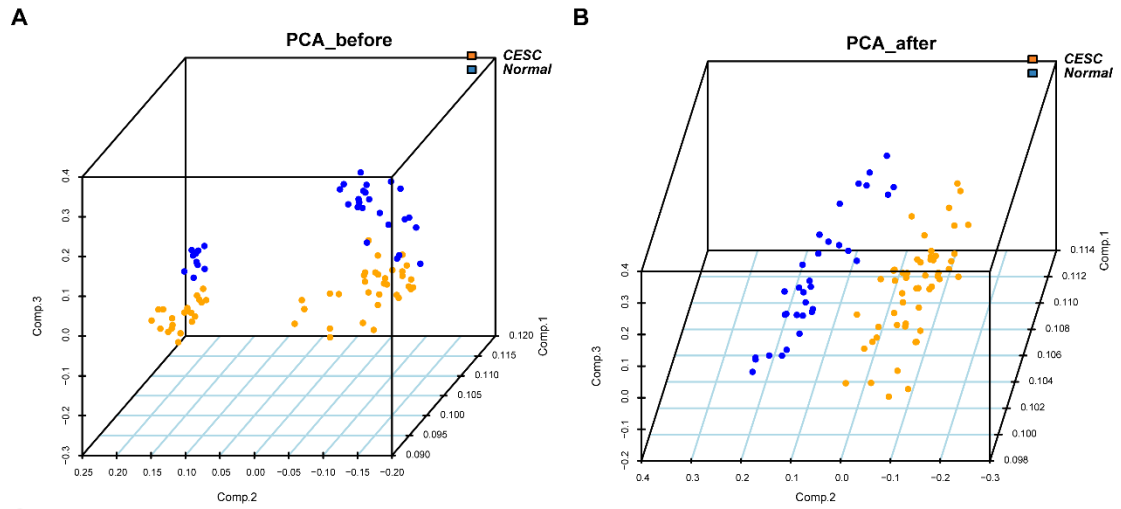
Supplemental Table S3**TABLE 3.** a. Relationship between overall survival and clinicopathologic characteristics in TCGA patients analyzed with Cox regression. b. Multivariate survival model after variable selection.

Clinicopathologic variable	HR (95% CI)	p-Value
a		
Age (continuous)	1.018(0.984-1.053)	0.299
Hysterectomy performed Type (other vs. hysterectomy)	3.490(1.406-8.662)	0.007
Stage (III IV vs. I II)	3.185(1.311-7.736)	0.011
Status (with tumor vs. tumor free)	41.668(9.687-179.231)	0.000
Distant Metastasis (negative vs. positive)	8.034(3.337-19.114)	0.000
Locoregional Recurrence (negative vs. positive)	11.882(3.890-36.295)	0.000
BMI (continuous)	0.930(0.340-2.544)	0.887
NUSAP1(low vs. high)	0.422(0.178-1.001)	0.050
Grade (G2 G3 vs. G1)	0.755(0.310-1.841)	0.537
b		
Hysterectomy performed Type (other vs. hysterectomy)	1.242(0.236-6.55)	0.798
Stage (III VI vs. I II)	11.828(1.991-70.288)	0.007
Status (with tumor vs. tumor free)	42.687(7.747-235.222)	0.000
Distant Metastasis (negative vs. positive)	2.188(0.718-6.662)	0.168
Locoregional Recurrence (negative vs. positive)	10.782(2.223-52.296)	0.003
NUSAP1 (high vs. low)	0.128(0.041-0.401)	0.000

Supplemental Figure S1



Supplemental Figure S2



C **Q-Q plot**

