

Table S1 Information of the normal samples in GEO

Characteristic	GSE29265, N=10	GSE3467, N=9	GSE3678, N=7	GSE6004, N=4
Gender				
Female	5 (50%)	4 (44%)	0 (NA%)	3 (75%)
Male	5 (50%)	5 (56%)	0 (NA%)	1 (25%)
Unknown	0	0	7	0
Age				
≤60	8 (80%)	8 (89%)	0 (0%)	3 (75%)
>60	2 (20%)	1 (11%)	7 (100%)	1 (25%)

GEO, the Gene Expression Omnibus.

Table S2 Information of the PTC samples in GEO

Characteristic	GSE29265, N=10	GSE3467, N=9	GSE3678, N=7	GSE6004, N=14
Gender				
Female	5 (50%)	4 (44%)	0 (NA%)	12 (86%)
Male	5 (50%)	5 (56%)	0 (NA%)	2 (14%)
Unknown	0	0	7	0
Age				
≤60	8 (80%)	8 (89%)	0 (0%)	12 (86%)
>60	2 (20%)	1 (11%)	7 (100%)	2 (14%)

PTC, papillary thyroid carcinoma; GEO, the Gene Expression Omnibus.

Table S3 Information of the normal samples in TCGA

Characteristic	N=56
Age	
≤60	42 (75%)
>60	14 (25%)
Gender	
Female	40 (71%)
Male	16 (29%)
Radiation	
No-therapy	14 (31%)
Therapy	31 (69%)
Unknown	11
pM	
M0	41 (73%)
M1	2 (3.6%)
MX	13 (23%)
pN	
N0	29 (52%)
N1	23 (41%)
NX	4 (7.1%)
pT	
T1	11 (20%)
T2	21 (38%)
T3	20 (36%)
T4	4 (7.1%)
Stage	
Stage I	34 (61%)
Stage II	7 (12%)
Stage III	11 (20%)
Stage IV	4 (7.1%)

TCGA, The Cancer Genome Atlas.

Table S4 Information of the PTC samples in TCGA

Characteristic	cluster1, N=106	cluster2, N=114	cluster3, N=178	cluster4, N=91
Age				
≤60	78 (74%)	80 (70%)	151 (85%)	69 (76%)
>60	28 (26%)	34 (30%)	27 (15%)	22 (24%)
Gender				
Female	77 (73%)	83 (73%)	135 (76%)	64 (70%)
Male	29 (27%)	31 (27%)	43 (24%)	27 (30%)
Radiation				
No-therapy	38 (38%)	26 (27%)	70 (45%)	33 (40%)
Therapy	63 (62%)	71 (73%)	84 (55%)	49 (60%)
Unknown	5	17	24	9
pM				
M0	56 (53%)	69 (61%)	108 (61%)	45 (50%)
M1	3 (2.8%)	1 (0.9%)	2 (1.1%)	1 (1.1%)
MX	47 (44%)	44 (39%)	68 (38%)	44 (49%)
Unknown	0	0	0	1
pN				
N0	62 (58%)	36 (32%)	69 (39%)	57 (63%)
N1	32 (30%)	70 (61%)	94 (53%)	21 (23%)
NX	12 (11%)	8 (7.0%)	15 (8.4%)	13 (14%)
pT				
T1	30 (28%)	23 (20%)	57 (32%)	32 (35%)
T2	42 (40%)	26 (23%)	55 (31%)	37 (41%)
T3	26 (25%)	54 (47%)	61 (34%)	22 (24%)
T4	7 (6.6%)	11 (9.6%)	4 (2.2%)	0 (0%)
TX	1 (0.9%)	0 (0%)	1 (0.6%)	0 (0%)
Stage				
Stage I	62 (58%)	52 (46%)	108 (61%)	54 (60%)
Stage II	18 (17%)	5 (4.4%)	14 (7.9%)	14 (16%)
Stage III	17 (16%)	34 (30%)	40 (23%)	18 (20%)
Stage IV	9 (8.5%)	23 (20%)	15 (8.5%)	4 (4.4%)
Unknown	0	0	1	1

PTC, papillary thyroid carcinoma; TCGA, The Cancer Genome Atlas.