

Supplementary Table 1 The Correlation between clinicopathologic features and TGF β R2 protein expression in NPC

Characteristics	n	TGF β R2 (%)		P
		High expression	Low expression	
Gender				
Male	103	50(48.5)	53 (51.5)	0.735
Female	53	28(52.8)	25 (47.2)	
Age(y)				
≥50	71	31 (43.7)	40 (56.3)	0.198
<50	85	47 (55.3)	38(44.7)	
Smoking				
Yes	31	18 (58.1)	13 (41.9)	0.423
No	125	60 (48.0)	65 (52.0)	
Family tumor history				
Yes	5	4(80.0)	1(20.0)	0.367
No	151	74(49.0)	77(51.0)	
Recurrence				
Yes	39	17(43.6)	22(56.4)	0.460
No	117	61(52.1)	56(47.9)	
T classification				
T ₁ -T ₂	109	62(56.9)	40 (43.1)	<0.001
T ₃ -T ₄	47	16 (51.7)	38(48.3)	
N classification				
N ₀ -N ₁	87	45 (51.7)	28(48.3)	0.010
N ₂ -N ₃	69	33(47.8)	50 (52.2)	
Distant metastasis [#]				
Yes	9	3 (33.3)	6 (66.7)	0.495
No	147	75 (51.0)	72 (49.0)	
TNM Clinical stage				
I-II	47	31 (66.0)	16 (34.0)	0.014
III-IV	109	47(43.1)	62(56.9)	

[#]The difference that was not statistically significant, possibly due to few patients with distant metastasis

Supplementary Table 2 Summary of univariate and multivariate Cox regression analysis of overall survival duration

Parameter	Univariate analysis			Multivariate analysis		
	<i>P</i>	HR	95%CI	<i>P</i>	HR	95%CI
Gender						
Male vs. female	0.880	1.041	0.617-1.755			
Age						
≥50 vs. <50 years	0.073	1.576	0.959-2.592			
Family tumor history						
Yes vs. No	0.369	0.404	0.056-2.917			
Smoking						
Yes vs. No	0.536	0.814	0.425-1.560			
Biotherapy						
Yes vs. No	0.554	0.653	0.159-2.677			
T classification						
T ₁ -T ₂ vs. T ₃ -T ₄	<0.001	2.574	1.573-4.215	0.040	1.867	1.030-3.383
N classification						
N ₀ -N ₁ vs. N ₂ -N ₃	<0.001	3.553	2.011-6.277	0.002	3.562	1.583-8.014
M classification						
M ₀ vs. M ₁	<0.001	6.367	3.002-13.507	0.000	7.689	3.388-17.448
Clinical stage						
I-II vs. III-IV	<0.001	3.563	1.755-7.234	0.628	0.759	0.249-2.314
TGFBR2 expression						
High vs. low	<0.001	0.181	0.098-0.333	0.000	0.239	0.125-0.458

Supplementary Table 3. Differentially expressed miRNAs in three subgroups of tissue samples

Description	Parametric p-value	FDR	Permutation p-value	Geom mean of ratios			Unique id
				group 1	group 2	Group 2	
hsa-miR-20a	0.00339	0.1932708	0.0012	0.489626	0.4907058	0.9801892	6519885
hsa-miR-93	0.00621	0.1932708	0.0025	0.5247165	0.5789282	1.0329631	6520210
hsa-miR-20b	0.00793	0.1932708	0.0095	0.5672913	0.4738735	1.3353771	6520264
hsa-miR-18a	0.04642	0.3629741	0.0727	0.2738743	0.3217721	0.6608565	6520174

Supplementary Table 4 The information of TGFBR2 interference fragments

The interference fragment	Base sequence
SiRNA-TGFBR2-homo-462	Sense ; 5'-GUUCAGAAGUCGGUAAUATT-3' Antisense ; 5'-UAUUAACCGACUUCUGAACTT-3'
SiRNA-TGFBR2-homo-663	Sense ; 5'-GUGGCUGUAUGGAGAAAGATT-3' Antisense ; 5'-UCUUUCUCCAUACAGCCACTT-3'
SiRNA-TGFBR2-homo-796	Sense ; 5'-GCUCUGAUGAGUGCAAUGATT-3' Antisense ; 5'-UCAUUGCACUCAUCAGAGCTT-3'
SiRNA-TGFBR2-homo-1141	Sense ; 5'-GCUUUGCUGAGGUCUAUAATT-3' Antisense ; 5'-UUAUAGACCUCAGCAAAGCTT-3'
SiRNA-TGFBR2-homo-1515	Sense ; 5'-GACCUCAAGAGCUCCAAUATT-3' Antisense ; 5'-UAUUGGAGCUCUUGAGGUCTT-3'
SiRNA-negative control	Sense ; 5'-UUCUCCGAACGUGUCACGUTT-3' Antisense ; 5'-ACGUGACACGUUCGGAGAATT-3'