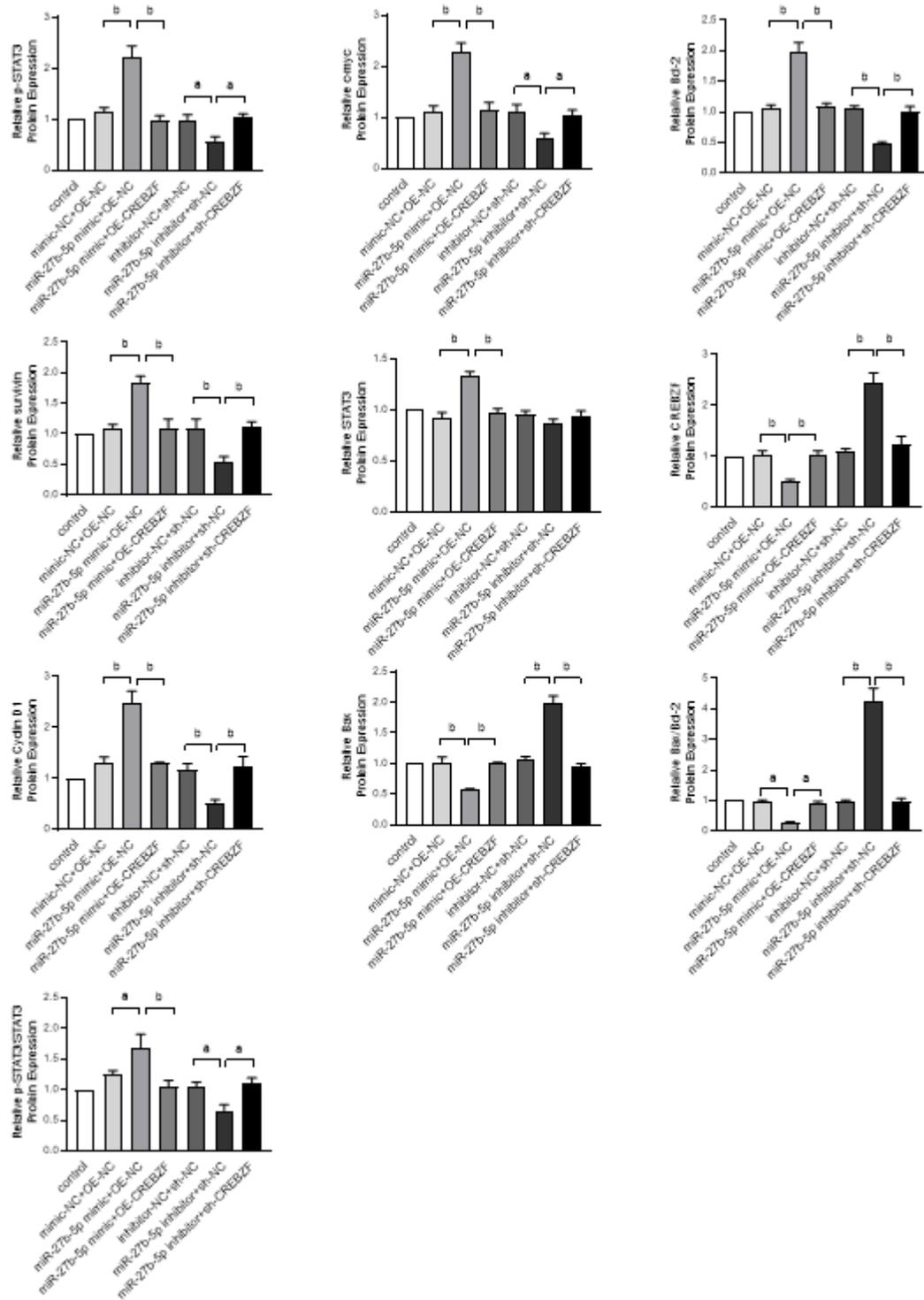
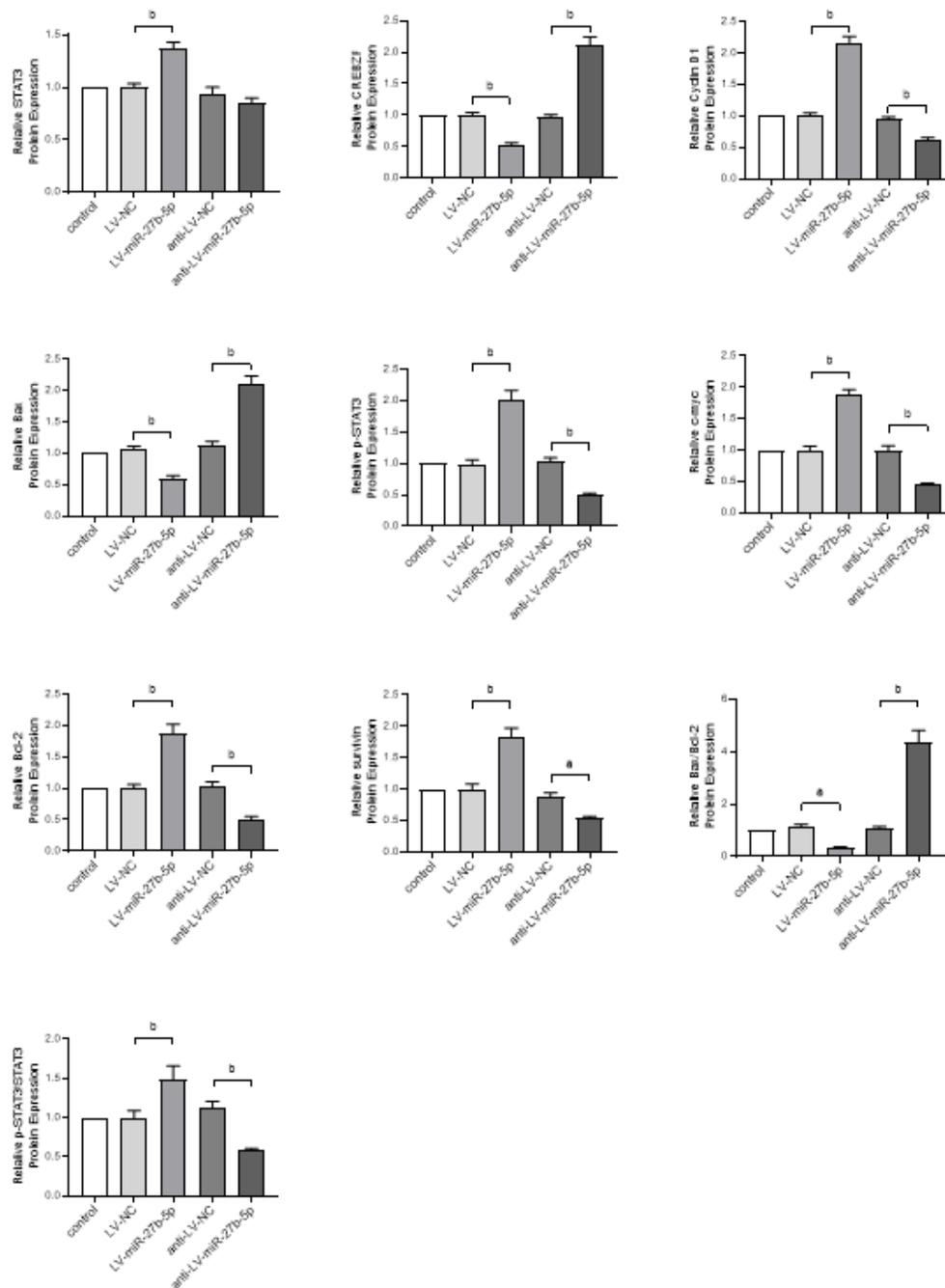


Supplementary Figure 1 Expression difference of signal transducer and activator of transcription 3 (STAT3) pathway-related proteins in AGS cell line after miR-27b-5p and CREBZF interference, based on western blotting. ^a $P < 0.05$; ^b $P < 0.01$.



Supplementary Figure 2 Expression difference of signal transducer and activator of transcription 3 (STAT3) pathway-related proteins in NCI-N87 cell line after miR-27b-5p and CREBZF interference, based on western blotting. ^a $P < 0.05$; ^b $P < 0.01$.



Supplementary Figure 3 Expression difference of signal transducer and activator of transcription 3 (STAT3) pathway-related proteins in xenograft tumors after miR-27b-5p and CREBZF interference, based on western blotting. ^a $P < 0.05$; ^b $P < 0.01$.

Supplementary Table 1 Basic information of the included plasma samples from three clinical centres, *n* (%)

Characteristics	Early GC (<i>n</i> = 71)	Advanced GC (<i>n</i> = 97)
Gender		
Male	31 (43.7)	68 (70.1)
Female	40 (56.3)	29 (29.9)
Age (yr)		
< 60	45 (63.4)	75 (77.3)
≥ 60	26 (36.6)	22 (22.7)
AJCC stage		
I	71 (100)	37 (38.1)
II	0	5 (5.2)
III	0	17 (17.5)
IV	0	38 (39.2)
T		
1	71 (100)	0
2	0	42 (43.3)
3	0	6 (6.2)
4	0	49 (50.5)
N		
0	71 (100)	42 (43.3)
1	0	12 (12.4)
2	0	22 (22.7)
3	0	21 (21.6)
M		
0	71 (100)	66 (68.0)
1	0	31 (32.0)