

Supplementary Table 1. Association between *TOBI* polymorphism and risk of GC

Genotypes	Cases (N=506)	Controls (N=548)	<i>P</i> ^a	Crude OR (95%CI)	<i>P</i>	Adjusted OR (95%CI)	<i>P</i> ^b
rs35220381							
CC	438(86.6)	484 (88.3)	0.075	1		1	
CT	68 (13.4)	60 (11.0)		1.25 (0.86-1.81)	0.234	1.32 (0.89-1.95)	0.168
TT	0 (0)	4 (0.7)		0 (0-)	0.982	0 (0-)	0.982
Dominant	68 (13.4)	64 (11.7)		1.17 (0.82-1.69)	0.388	1.25 (0.85-1.84)	0.255
Recessive	506(100)	544 (99.3)		0 (0-)	0.981	0 (0-)	0.982
C	944(93.3)	1028(93.8)	0.631	1.089(0.77-1.54)			
T	68 (6.7)	68 (6.2)					
HWE	0.105	0.165					
rs12949115							
CC	274(54.2)	301(54.9)	0.932	1		1	
CA	198(39.1)	213(38.9)		1.02 (0.79-1.32)	0.871	1.05 (0.80-1.38)	0.711
AA	34 (6.7)	34 (6.2)		1.10 (0.66-1.82)	0.714	1.13 (0.66-1.92)	0.661
Dominant	232(45.9)	247(45.1)		1.03 (0.81-1.32)	0.800	1.06 (0.82-1.37)	0.645
Recessive	472(93.3)	514(93.8)		1.09 (0.67-1.78)	0.734	1.10 (0.65-1.86)	0.712
C	746(73.7)	815(74.4)	0.735	1.03 (0.85-1.26)			
A	266(26.3)	281(25.6)					
HWE	0.826	0.650					
rs12601477							
GG	192(37.9)	237(43.3)	0.209	1		1	
GA	245(48.4)	240(43.8)		1.26 (0.97-1.64)	0.082	1.26 (0.96-1.67)	0.098
AA	69 (13.6)	71 (13.0)		1.20 (0.82-1.76)	0.351	1.24 (0.83-1.86)	0.290
Dominant	314(62.1)	311(56.8)		1.25 (0.97-1.59)	0.080	1.26 (0.97-1.64)	0.085
Recessive	437(86.2)	477(87.0)		1.06 (0.74-1.51)	0.745	1.10 (0.75-1.60)	0.626
G	629(62.2)	714(65.2)	0.154	1.14 (0.95-1.36)			
A	383(37.8)	382(34.9)					
HWE	0.511	0.405					
rs34700818							
CC	272(53.8)	305(55.7)	0.825	1		1	
CT	203(40.1)	211(38.5)		1.08 (0.84-1.39)	0.556	1.13 (0.87-1.48)	0.359
TT	31 (6.1)	32 (5.8)		1.09 (0.65-1.83)	0.755	1.06 (0.61-1.85)	0.832
Dominant	234(46.3)	243(44.3)		1.08 (0.85-1.38)	0.535	1.12 (0.87-1.46)	0.374
Recessive	475(93.9)	516(94.2)		1.05 (0.63-1.75)	0.844	1.01 (0.59-1.73)	0.980
C	747(73.8)	821(74.9)	0.565	1.06 (0.87-1.29)			
T	265(26.2)	275(25.1)					
HWE	0.395	0.570					
rs12950561							
CC	437(86.4)	477(87.0)	0.689	1		1	
CT	67 (13.2)	67 (12.2)		1.09 (0.76-1.57)	0.636	1.11 (0.75-1.62)	0.608
TT	2 (0.4)	4 (0.7)		0.55 (0.10-2.99)	0.486	1.10 (0.20-6.15)	0.910
Dominant	69 (13.6)	71 (13.0)		1.06 (0.74-1.51)	0.745	1.11 (0.76-1.61)	0.602

Recessive	504(99.6)	544 (99.3)		0.54 (0.10-2.96)	0.478	1.09 (0.20-6.06)	0.922
C	941(93.0)	1021(93.2)	0.876	1.03 (0.73-1.44)			
T	71(7.0)	75 (6.8)					
HWE	0.738	0.337					
rs9903822							
TT	208(41.1)	232(42.3)	0.817	1		1	
TA	235(46.4)	244(44.5)		1.07 (0.83-1.39)	0.588	1.10 (0.83-1.44)	0.517
AA	63 (12.5)	72 (13.1)		0.98 (0.66-1.44)	0.902	1.04 (0.69-1.57)	0.840
Dominant	298(58.9)	316(57.7)		1.05 (0.82-1.34)	0.686	1.08 (0.84-1.41)	0.546
Recessive	443(87.6)	476(86.9)		0.94 (0.65-1.35)	0.739	0.99 (0.68-1.46)	0.978
T	651(64.3)	708(64.6)	0.897	1.01 (0.85-1.21)			
A	361(35.7)	388(35.4)					
HWE	0.788	0.535					
rs11656976							
TT	208(41.1)	232(42.3)	0.817	1		1	
TC	235(46.4)	244(44.5)		1.07 (0.83-1.39)	0.588	1.10 (0.83-1.44)	0.517
CC	63 (12.5)	72 (13.1)		0.98 (0.66-1.44)	0.902	1.04 (0.69-1.57)	0.840
Dominant	298(58.9)	316(57.7)		1.05 (0.82-1.34)	0.686	1.08 (0.84-1.41)	0.546
Recessive	443(87.6)	476(86.9)		0.94 (0.65-1.35)	0.739	0.99 (0.68-1.46)	0.978
T	651(64.3)	708(64.6)	0.897	1.01 (0.85-1.21)			
C	361(35.7)	388(35.4)					
HWE	0.788	0.535					
rs7221352							
GG	391(77.3)	446(81.4)	0.065	1		1	
GA	111(21.9)	93 (17.0)		1.36 (1.00-1.85)	0.049	1.28 (0.92-1.77)	0.137
AA	4 (0.8)	9 (1.6)		0.51 (0.15-1.66)	0.262	0.67 (0.20-2.31)	0.530
Dominant	115(22.7)	102(18.6)		1.29 (0.95-1.73)	0.099	1.23 (0.90-1.69)	0.195
Recessive	502(99.2)	539(98.4)		0.48 (0.15-1.56)	0.221	0.64 (0.19-2.20)	0.481
G	893(88.2)	985(89.9)	0.230	1.18 (0.90-1.55)			
A	119(11.8)	111(10.1)					
HWE	0.199	0.113					
rs61482741							
CC	273(54.0)	302(55.1)	0.869	1		1	
CG	199(39.3)	213(38.9)		1.03 (0.80-1.33)	0.799	1.10 (0.84-1.44)	0.482
GG	34 (6.7)	33 (6.0)		1.14 (0.69-1.89)	0.612	1.16 (0.68-1.99)	0.589
Dominant	233(46.1)	246(44.9)		1.05 (0.82-1.34)	0.706	1.11 (0.86-1.44)	0.431
Recessive	472(93.3)	515(94.0)		1.12 (0.69-1.84)	0.643	1.11 (0.66-1.89)	0.687
C	745(73.6)	817(74.5)	0.627	1.05 (0.86-1.28)			
G	267(26.4)	279(25.5)					
HWE	0.7797	0.572					
rs9303568							
CC	289(57.1)	314(57.3)	0.948	1		1	
CT	186(36.8)	203(37.0)		1.00 (0.77-1.28)	0.973	1.02 (0.78-1.34)	0.887
TT	31 (6.1)	31 (5.7)		1.09 (0.64-1.83)	0.756	1.01 (0.58-1.77)	0.960

Dominant	217(42.9)	234(42.7)		1.01 (0.79-1.29)	0.952	1.02 (0.79-1.32)	0.886
Recessive	475(93.9)	517(94.3)		1.09 (0.65-1.82)	0.746	1.01 (0.58-1.73)	0.982
C	764(75.5)	831(75.8)	0.861	1.02 (0.83-1.24)			
T	248(24.5)	265(24.2)					
HWE	0.883	0.809					
rs4626							
AA	158(31.2)	187(34.1)	0.543	1		1	
AG	251(49.6)	266(48.5)		1.12 (0.85-1.47)	0.429	1.15 (0.86-1.54)	0.335
GG	97 (19.2)	95 (17.3)		1.21 (0.85-1.72)	0.294	1.28 (0.88-1.87)	0.190
Dominant	348(68.8)	361(65.9)		1.14 (0.88-1.48)	0.317	1.19 (0.90-1.56)	0.219
Recessive	409(80.8)	453(82.7)		1.13 (0.83-1.55)	0.441	1.18 (0.85-1.64)	0.331
A	567(56.0)	640(58.4)	0.273	1.10 (0.93-1.30)			
G	445(47.0)	456(41.6)					
HWE	0.880	0.981					

Notes: CI, confidence interval; OR, odd ratio, Hardy-Weinberg equilibrium

^a Chi square test for genotype and allele distributions between cases and controls

^b Adjusted for age, gender, smoking status, pack-years, and drinking status in logistic regress models

Supplementary Table 2. Stratified analyses for *TOBI* gene rs35220381 and rs12949115 genotypes in cases and controls

Variables	rs35220381		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a	rs12949115		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a
	(cases/controls)						CA+AA	CC				
	CT+TT	CC										
Age												
≤58	27/29	204/236	1.08 (0.62-1.88)	0.793	1.11 (0.62-1.99)	0.718	99/129	132/136	0.79 (0.55-1.13)	0.195	0.79 (0.55-1.15)	0.223
>58	41/35	234/248	1.24(0.76-2.02)	0.383	1.35(0.80-2.29)	0.266	133/118	142/165	1.31 (0.94-1.83)	0.114	1.39 (0.97-2.01)	0.076
Gender												
Male	49/44	322/344	1.19 (0.77-1.84)	0.433	1.21(0.76-1.94)	0.413	169/170	202/218	1.07 (0.81-1.43)	0.630	1.08 (0.79-1.47)	0.627
Female	19/20	116/140	1.15 (0.58-2.25)	0.691	1.31(0.65-2.65)	0.453	63/77	72/83	0.94 (0.60-1.49)	0.803	1.14 (0.70-1.85)	0.601
Smoking status												
Nonsmoker	38/49	202/374	1.44 (0.91-2.27)	0.121	1.45(0.91-2.29)	0.117	119/190	121/233	1.20 (0.88-1.66)	0.247	1.16 (0.84-1.60)	0.359
Smoker	30/15	236/110	0.93 (0.48-1.80)	0.835	0.88(0.45-1.75)	0.724	113/57	153/68	0.88 (0.57-1.35)	0.562	0.96 (0.61-1.49)	0.843
Pack-years												
0	38/49	202/374	1.44 (0.91-2.27)	0.121	1.45(0.91-2.29)	0.117	119/190	121/233	1.20 (0.88-1.66)	0.247	1.16 (0.84-1.60)	0.359
≤25	9/3	69/22	0.96 (0.24-3.85)	0.950	0.71(0.15-3.26)	0.655	31/12	47/13	0.71 (0.29-1.77)	0.467	0.70 (0.26-1.86)	0.474
>25	21/12	167/88	0.92 (0.43-1.97)	0.833	0.93(0.43-2.02)	0.858	82/45	106/55	0.95 (0.58-1.54)	0.822	1.03(0.63-1.70)	0.902
Drinking status												
Nondrinker	43/54	263/365	1.11 (0.72-1.70)	0.649	1.12(0.71-1.77)	0.619	134/189	172/230	0.95 (0.70-1.28)	0.725	0.98 (0.72-1.35)	0.923
Drinker	25/10	175/119	1.70(0.79-3.67)	0.177	1.61(0.72-3.59)	0.243	98/58	102/71	1.18 (0.75-1.83)	0.474	1.26 (0.79-2.01)	0.337

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 3. Stratified analyses for *TOBI* gene rs34700818 and rs12950561 genotypes in cases and controls

Variables	rs34700818		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a	rs12950561		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a
	(cases/controls)						(cases/controls)					
	CT+TT	CC					CT+TT	CC				
Age												
≤58	102/125	129/140	0.89 (0.62-1.26)	0.502	0.89 (0.61-1.29)	0.526	29/33	202/232	1.01 (0.59-1.72)	0.973	0.97(0.55-1.69)	0.910
>58	132/118	143/165	1.29(0.92-1.80)	0.135	1.39 (0.96-2.01)	0.081	40/38	235/245	1.10(0.68-1.77)	0.704	1.20 (0.71-2.02)	0.490
Gender												
Male	167/166	204/222	1.09 (0.82-1.46)	0.536	1.09 (0.80-1.49)	0.569	51/49	320/339	1.10 (0.72-1.68)	0.649	1.09 (0.70-1.72)	0.694
Female	67/77	68/83	1.06 (0.67-1.68)	0.797	1.32 (0.81-2.15)	0.265	18/22	117/138	0.97 (0.49-1.89)	0.917	1.09 (0.54-2.20)	0.810
Smoking status												
Nonsmoker	123/187	117/236	1.33 (0.97-1.82)	0.081	1.28 (0.93-1.77)	0.128	37/54	203/369	1.25 (0.79-1.96)	0.341	1.23 (0.78-1.94)	0.378
Smoker	111/56	155/69	0.88(0.57-1.35)	0.567	0.94 (0.60-1.46)	0.780	32/17	234/108	0.87 (0.46-1.63)	0.662	0.86 (0.45-1.65)	0.652
Pack-years												
0	123/187	117/236	1.33(0.97-1.82)	0.081	1.28 (0.93-1.77)	0.128	37/54	203/369	1.25 (0.79-1.96)	0.341	1.23 (0.78-1.94)	0.378
≤25	33/12	45/13	0.79 (0.32-1.96)	0.618	0.78 (0.29-2.05)	0.611	10/4	68/21	0.77 (0.22-2.72)	0.687	0.79 (0.20-3.04)	0.727
>25	78/44	110/56	0.90 (0.55-1.47)	0.682	0.97(0.59-1.61)	0.919	22/13	166/87	0.89 (0.43-1.85)	0.748	0.93 (0.44-1.97)	0.842
Drinking status												
Nondrinker	137/187	169/232	1.01 (0.75-1.35)	0.970	1.07 (0.78-1.46)	0.677	44/56	262/363	1.09 (0.71-1.67)	0.695	1.08(0.69-1.69)	0.738
Drinker	97/56	103/73	1.23 (0.79-1.92)	0.367	1.26 (0.79-2.02)	0.337	25/15	175/114	1.09(0.55-2.15)	0.813	1.03 (0.50-2.11)	0.934

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 4. Stratified analyses for *TOBI* gene rs9903822 and rs11656976 genotypes in cases and controls

Variables	rs9903822		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a	rs11656976		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a
	(cases/controls)						(cases/controls)					
	AT+AA	TT					CT+CC	TT				
Age												
≤58	134/160	97/105	0.91 (0.63-1.30)	0.592	0.89 (0.61-1.29)	0.531	134/160	97/105	0.91 (0.63-1.30)	0.592	0.89 (0.61-1.29)	0.531
>58	164/156	111/127	1.20 (0.86-1.69)	0.282	1.24 (0.86-1.79)	0.252	164/156	111/127	1.20 (0.86-1.68)	0.282	1.24 (0.86-1.79)	0.252
Gender												
Male	217/222	154/166	1.05 (0.79-1.41)	0.722	1.04(0.77-1.42)	0.794	217/222	154/166	1.05 (0.79-1.41)	0.722	1.04 (0.77-1.42)	0.794
Female	81/94	54/66	1.05 (0.66-1.68)	0.828	1.26 (0.76-2.09)	0.361	81/94	54/66	1.05 (0.66-1.68)	0.828	1.26 (0.76-2.09)	0.361
Smoking status												
Nonsmoker	147/243	93/180	1.17 (0.85-1.62)	0.339	1.17(0.85-1.62)	0.341	147/243	93/180	1.17 (0.85-1.62)	0.339	1.17 (0.85-1.62)	0.341
Smoker	151/73	115/52	0.94 (0.61-1.44)	0.761	0.97 (0.62-1.52)	0.902	151/73	115/52	0.94 (0.61-1.44)	0.761	0.97 (0.62-1.52)	0.902
Pack-years												
0	147/243	93/180	1.17 (0.85-1.62)	0.339	1.17 (0.85-1.62)	0.341	147/243	93/180	1.17 (0.85-1.62)	0.339	1.17 (0.85-1.62)	0.341
≤25	45/17	33/8	0.64 (0.25-1.66)	0.362	0.57 (0.21-1.58)	0.279	45/17	33/8	0.64 (0.25-1.66)	0.362	0.57 (0.21-1.58)	0.279
>25	106/56	82/44	1.02 (0.62-1.66)	0.950	1.08 (0.65-1.79)	0.761	106/56	82/44	1.02 (0.62-1.66)	0.950	1.08 (0.65-1.79)	0.761
Drinking status												
Nondrinker	179/246	127/173	0.99 (0.73-1.34)	0.954	1.01 (0.74-1.39)	0.950	179/246	127/173	0.99 (0.73-1.34)	0.954	1.01 (0.74-1.39)	0.950
Drinker	119/70	81/59	1.24 (0.79-1.94)	0.349	1.22 (0.76-1.96)	0.402	119/70	81/59	1.24 (0.79-1.94)	0.349	1.22 (0.76-1.96)	0.402

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age age, gender, smoking status, pack-years and drinking status

Supplementary Table 5. Stratified analyses for *TOBI* gene rs7221352 and rs61482741 genotypes in cases and controls

Variables	rs7221352		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a	rs61482741		OR(95%CI)	P	Adjusted OR (95%CI)	P ^a
	(cases/controls)						(cases/controls)					
	AG+AA	GG					GC+GG	CC				
Age												
≤58	51/48	180/217	1.28 (0.82-1.99)	0.271	1.18 (0.74-1.87)	0.485	103/126	128/139	0.89 (0.62-1.27)	0.510	0.90 (0.62-1.30)	0.576
>58	64/54	211/229	1.29 (0.86-1.93)	0.226	1.17 (0.75-1.83)	0.490	130/120	145/163	1.22 (0.87-1.70)	0.248	1.34 (0.93-1.93)	0.121
Gender												
Male	87/72	284/316	1.34 (0.95-1.91)	0.098	1.21 (0.83-1.77)	0.316	166/169	205/219	1.05 (0.79-1.40)	0.742	1.07 (0.79-1.46)	0.657
Female	28/30	107/130	1.13 (0.64-2.02)	0.668	1.23 (0.67-2.26)	0.499	67/77	68/83	1.06 (0.67-1.68)	0.797	1.32 (0.81-2.15)	0.265
Smoking status												
Nonsmoker	48/79	192/344	1.09 (0.73-1.62)	0.677	1.09 (0.73-1.63)	0.672	123/191	117/232	1.28 (0.93-1.75)	0.131	1.24 (0.90-1.71)	0.183
Smoker	67/23	199/102	1.49 (0.88-2.54)	0.139	1.47 (0.85-2.55)	0.165	110/55	156/70	0.90 (0.58-1.38)	0.621	0.96 (0.62-1.50)	0.854
Pack-years												
0	48/79	192/344	1.09 (0.73-1.62)	0.677	1.09 (0.73-1.63)	0.672	123/191	117/232	1.28 (0.93-1.75)	0.131	1.24 (0.90-1.71)	0.183
≤25	23/6	55/19	1.32 (0.47-3.74)	0.596	1.33 (0.44-4.03)	0.612	33/12	45/13	0.79 (0.32-1.96)	0.618	0.78 (0.29-2.05)	0.611
>25	44/17	144/83	1.49 (0.80-2.78)	0.207	1.50 (0.80-2.83)	0.209	77/43	111/57	0.92 (0.56-1.50)	0.738	1.00 (0.60-1.65)	0.999
Drinking status												
Nondrinker	68/83	238/336	1.16 (0.81-1.66)	0.430	1.04 (0.71-1.53)	0.837	137/191	169/228	0.97 (0.72-1.30)	0.828	1.04 (0.76-1.42)	0.812
Drinker	47/19	153/110	1.78 (0.99-3.20)	0.054	1.57 (0.85-2.90)	0.146	96/55	104/74	1.24 (0.80-1.94)	0.341	1.30 (0.81-2.08)	0.280

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 6. Stratified analyses for *TOBI* gene rs9303568 genotypes in cases and controls

Variables	rs9303568		OR(95%CI)	<i>P</i>	Adjusted OR (95%CI)	<i>P</i> ^a
	(cases/controls)					
	CT+TT	CC				
Age						
≤58	86/116	145/149	0.76 (0.53-1.09)	0.139	0.77 (0.53-1.12)	0.176
>58	131/118	144/165	1.27 (0.91-1.78)	0.159	1.31 (0.91-1.88)	0.152
Gender						
Male	159/164	212/224	1.02 (0.77-1.37)	0.870	1.02 (0.75-1.39)	0.902
Female	58/70	77/90	0.97 (0.61-1.54)	0.892	1.09 (0.67-1.78)	0.736
Smoking status						
Nonsmoker	110/179	130/244	1.15 (0.84-1.59)	0.380	1.12 (0.81-1.55)	0.479
Smoker	107/55	159/70	0.86 (0.56-1.32)	0.480	0.85 (0.55-1.33)	0.489
Pack-years						
0	110/179	130/244	1.15 (0.84-1.59)	0.380	1.12 (0.81-1.55)	0.479
≤25	27/12	51/13	0.57 (0.23-1.43)	0.233	0.51 (0.19-1.38)	0.186
>25	80/43	108/57	0.98 (0.60-1.60)	0.942	0.99 (0.60-1.63)	0.960
Drinking status						
Nondrinker	125/180	181/239	0.92 (0.68-1.24)	0.570	0.94 (0.69-1.29)	0.703
Drinker	92/54	108/75	1.18 (0.76-1.85)	0.461	1.18 (0.73-1.90)	0.494

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 7. Association between *TOBI* (rs35220381 and rs12949115) genotypes and clinicopathologic characteristics of GC

Variables	rs35220381				rs12949115			
	CT+TT	CC	Adjusted OR	<i>P</i>	CA+AA	CC	Adjusted OR	<i>P</i>
	(n)	(n)	(95% CI) ^a		(n)	(n)	(95% CI) ^a	
Family history of cancer								
none	20	198	1		104	114	1	
Gastric cancer	3	21	1.40 (0.37-5.24)	0.620	10	14	0.77 (0.33-1.83)	0.557
Other cancer	6	26	2.45 (0.88-6.85)	0.087	15	17	1.02 (0.48-2.17)	0.952
Tumor size (cm)								
<5	18	143	1		69	92	1	
≥ 5	11	102	0.81 (0.36-1.83)	0.616	60	53	1.55 (0.94-2.54)	0.083
Neoplasia location								
Non-cardia	26	212	1		113	125	1	
Cardia	3	33	0.68 (0.19-2.45)	0.561	16	20	0.87 (0.42-1.77)	0.695
Invasion depth								
T1-T2	10	80	1		38	52	1	
T3-T4	19	165	0.91 (0.40-2.10)	0.832	91	93	1.34 (0.80-2.26)	0.264
Lymph metastasis								
N0	13	100	1		50	63	1	
N1/N2/N3	16	145	0.69 (0.31-1.54)	0.367	79	82	1.16 (0.70-1.91)	0.571
TNM stage								
I	7	62	1		26	43	1	
II	10	111	0.70 (0.24-2.06)	0.518	64	57	1.79 (0.96-3.33)	0.069
III	12	72	1.33 (0.48-3.69)	0.588	39	45	1.40 (0.72-2.72)	0.328
Lauren's classification								
Intestinal	24	179	1		92	111	1	
Diffuse	5	66	0.59 (0.20-1.76)	0.343	37	34	1.38 (0.76-2.50)	0.289

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 8. Association between *TOBI* (rs12601477 and rs12950561) genotypes and clinicopathologic characteristics of GC

Variables	rs12601477				rs12950561			
	GA+AA	GG	Adjusted OR	<i>P</i>	GA+AA	GG	Adjusted OR	<i>P</i>
	(n)	(n)	(95% CI) ^a		(n)	(n)	(95% CI) ^a	
Family history of cancer								
none	133	85	1		19	199	1	
Gastric cancer	15	9	1.05 (0.43-2.52)	0.922	3	21	1.53 (0.41-5.68)	0.526
Other cancer	21	11	1.22 (0.56-2.69)	0.613	6	26	2.44 (0.88-6.78)	0.088
Tumor size(cm)								
<5cm	96	65	1		18	143	1	
≥5cm	73	40	1.28 (0.77-2.13)	0.336	10	103	0.76 (0.33-1.75)	0.525
Neoplasia location								
Non-cardia	151	87	1		27	211	1	
Cardia	18	18	0.59 (0.29-1.20)	0.143	1	35	0.21 (0.03-1.64)	0.137
Invasion depth								
T1-T2	52	38	1		12	78	1	
T3-T4	117	67	1.32 (0.78-2.24)	0.293	16	168	0.64 (0.28-1.44)	0.281
Lymph metastasis								
N0	70	43	1		11	102	1	
N1/N2/N3	99	62	0.89 (0.53-1.49)	0.657	17	144	0.97 (0.43-2.22)	0.950
TNM stage								
I	37	32	1		9	60	1	
II	78	43	1.57 (0.84-2.92)	0.158	6	115	0.34 (0.11-1.07)	0.066
III	54	30	1.53 (0.78-3.00)	0.212	13	71	1.11 (0.43-2.85)	0.831
Lauren's classification								
Intestinal	126	77	1		23	180	1	
Diffuse	43	28	0.87 (0.48-1.60)	0.663	5	66	0.51 (0.17-1.55)	0.238

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 9. Association between *TOBI* (rs9903822 and rs11656976) genotypes and clinicopathologic characteristics of GC

Variables	rs9903822				rs11656976			
	TA+AA	TT	Adjusted OR	<i>P</i>	TC+CC	TT	Adjusted OR	<i>P</i>
	(n)	(n)	(95% CI) ^a		(n)	(n)	(95% CI) ^a	
Family history of cancer								
none	126	92	1		126	92	1	
Gastric cancer	13	11	0.86 (0.36-2.01)	0.719	13	11	0.86 (0.36-2.01)	0.719
Other cancer	21	11	1.37 (0.63-3.00)	0.428	21	11	1.37 (0.63-3.00)	0.428
Tumor size(cm)								
<5	88	73	1		88	73	1	
≥ 5	72	41	1.53 (0.93-2.53)	0.096	72	41	1.53 (0.93-2.53)	0.096
Neoplasia location								
Non-cardia	140	98	1		140	98	1	
Cardia	20	16	0.93 (0.46-1.91)	0.851	20	16	0.93 (0.46-1.91)	0.851
Invasion depth								
T1-T2	48	42	1		48	42	1	
T3-T4	112	72	1.39 (0.83-2.33)	0.209	112	72	1.39 (0.83-2.33)	0.209
Lymph metastasis								
N0	64	49	1		64	49	1	
N1/N2/N3	96	65	1.08 (0.65-1.78)	0.775	96	65	1.08 (0.65-1.78)	0.775
TNM stage								
I	34	35	1		34	35	1	
II	73	48	1.54 (0.83-2.86)	0.169	73	48	1.54 (0.83-2.86)	0.169
III	53	31	1.74 (0.89-3.40)	0.105	53	31	1.74 (0.89-3.40)	0.105
Lauren's classification								
Intestinal	117	86	1		117	86	1	
Diffuse	43	28	0.98 (0.54-1.79)	0.952	43	28	0.98 (0.54-1.79)	0.952

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 10. Association between *TOBI* (rs7221352 and rs9303568) genotypes and clinicopathologic characteristics of GC

Variables	rs7221352				rs9303568			
	GA+AA	GG	Adjusted OR	<i>P</i>	CT+TT	CC	Adjusted OR	<i>P</i>
	(n)	(n)	(95%CI) ^a		(n)	(n)	(95%CI) ^a	
Family history of cancer								
none	44	174	1		92	126	1	
Gastric cancer	5	19	1.02 (0.35-2.93)	0.974	8	16	0.67 (0.27-1.64)	0.375
Other cancer	9	23	1.42 (0.60-3.36)	0.421	14	18	1.16 (0.54-2.51)	0.702
Tumor size(cm)								
< 5	34	127	1		65	96	1	
≥ 5	24	89	1.06 (0.58-1.94)	0.849	49	64	1.15 (0.70-1.90)	0.577
Neoplasia location								
Non-cardia	52	186	1		101	137	1	
Cardia	6	30	0.77 (0.30-2.01)	0.597	13	23	0.73 (0.35-1.53)	0.402
Invasion depth								
T1-T2	22	68	1		33	57	1	
T3-T4	36	148	0.80 (0.43-1.49)	0.488	81	103	1.39 (0.82-2.37)	0.222
Lymph metastasis								
N0	28	85	1		45	68	1	
N1/N2/N3	30	131	0.69 (0.37-1.26)	0.223	69	92	1.09 (0.66-1.82)	0.732
TNM stage								
I	18	51	1		23	46	1	
II	17	104	0.51 (0.24-1.11)	0.091	53	68	1.50 (0.79-2.84)	0.210
III	23	61	1.10 (0.52-2.33)	0.798	38	46	1.75 (0.88-3.48)	0.110
Lauren's classification								
Intestinal	45	158	1		80	123	1	
Diffuse	13	58	0.71 (0.33-1.51)	0.371	34	37	1.60 (0.87-2.94)	0.127

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status

Supplementary Table 11. Association between *TOBI* rs4626 genotypes and clinicopathologic characteristics of GC

Variables	AG+GG(n)	AA(n)	Adjusted OR(95%CI) ^a	P
Family history of cancer				
none	151	67	1	
Gastric cancer	15	9	0.71 (0.29-1.74)	0.459
Other cancer	24	8	1.39 (0.59-3.28)	0.457
Tumor size(cm)				
< 5	108	53	1	
≥ 5	82	31	1.34 (0.78-2.30)	0.290
Neoplasia location				
Non-cardia	165	73	1	
Cardia	25	11	1.03 (0.47-2.24)	0.939
Invasion depth				
T1-T2	58	32	1	
T3-T4	132	52	1.38 (0.80-2.40)	0.249
Lymph metastasis				
N0	74	39	1	
N1/N2/N3	116	45	1.23 (0.72-2.10)	0.456
TNM stage				
I	41	28	1	
II	89	32	1.80 (0.94-3.45)	0.076
III	60	24	1.58 (0.78-3.18)	0.202
Lauren's classification				
Intestinal	140	63	1	
Diffuse	50	21	1.06 (0.55-2.01)	0.866

Notes: CI, confidence interval; OR, odd ratio

^aAdjusted for age, gender, smoking status, pack-years and drinking status