

Supplementary Materials:

Figure S1. The expression levels of ERBB2(a), VIM (b), EGR1(c), PSMB8 (d), IFI44 (e), IFI44L(f), IFIT2 (g), IFIT3 (h), ISG15 (i), OAS1 (j), OASL (k), SAMD9 (l), BST2 (m), IFI27 (n), IFIT1 (o), IFITM3 (p), MX1(q) and OAS2 (r) in gastric cancer (UALCAN data base). Red represents primary gastric cancer, Blue represents normal samples.

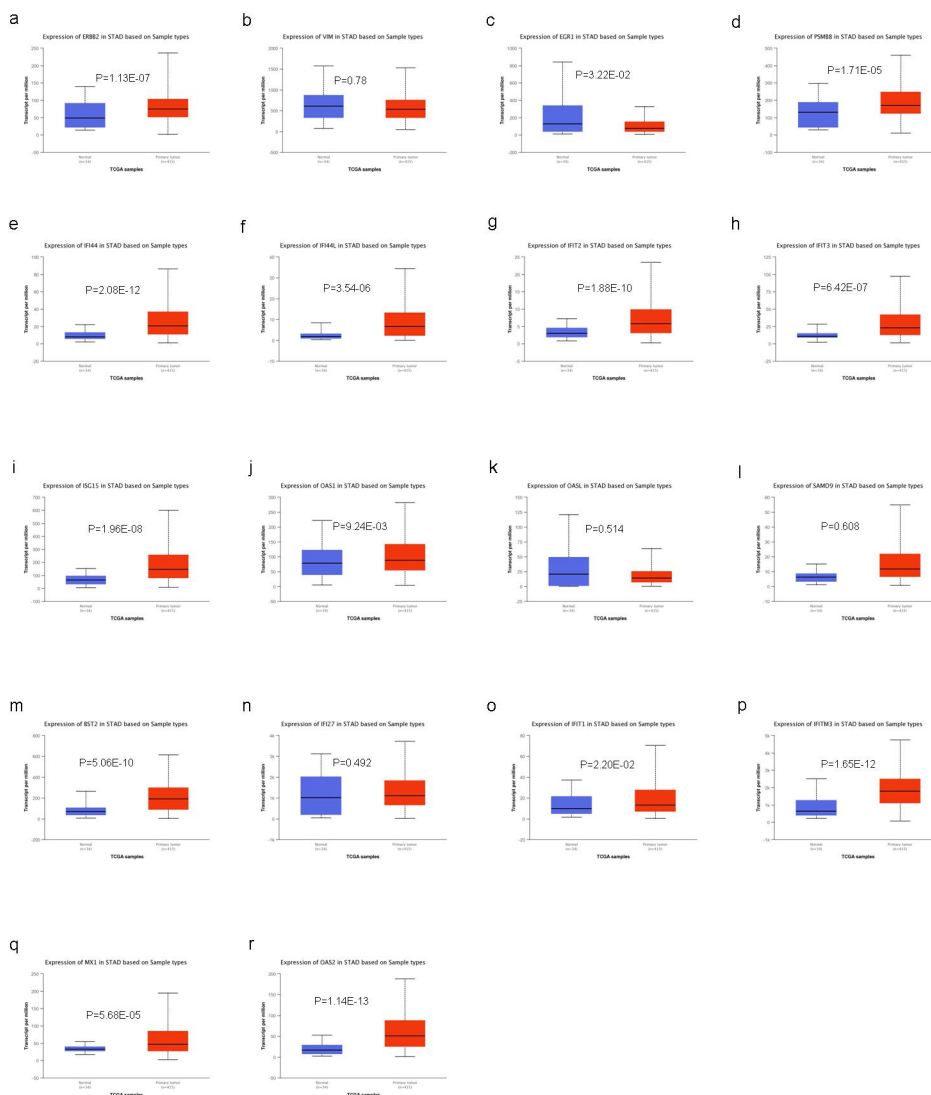


TABLE S1. Survival analyses of the hub genes in gastric cancer with different parameters.

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Parameters	ERBB2 (210930_at)		VIM (201426s-at)		EGR1 (201694_s_at)		PSMB8 (209040_s_at)		IFI44 (214059_at)		IFI44L(204439_at)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Gender												
female	1.38(0.96-1.98)	0.084	1.61(1.13-2.3)	0.0084	0.66(0.45-0.97)	0.032	0.44(0.29-0.67)	7.20E-05	1.81(1.26-2.6)	0.0011	1.29(0.91-1.84)	0.15
male	1.49(1.19-1.86)	5.00E-04	1.35(1.09-1.68)	0.0051	0.53(0.42-0.67)	2.70E-08	0.47(0.37-0.6)	1.10E-10	1.41(1.13-1.74)	0.0018	0.81(0.64-1.02)	0.073
Stage												
I	3.99(1.44-11.04)	0.004	2.04(0.73-5.68)	0.17	2.31(0.79-6.74)	0.11	0(0-hf)	0.0022	0.42(0.15-1.16)	0.083	0.43(0.16-1.14)	0.081
II	1.59(0.78-3.24)	0.2	2.22(1.19-4.16)	0.01	1.77(0.88-3.53)	0.1	0.34(0.19-0.63)	0.00034	1.51(0.82-2.77)	0.18	2.16(1.06-4.37)	0.029
III	1.65(0.18-2.31)	0.0032	1.51(1.13-2.01)	0.0047	0.79(0.59-1.05)	0.11	0.55(0.41-0.75)	0.00012	1.26(0.93-1.7)	0.13	0.83(0.6-1.13)	0.23
IV	0.8(0.54-1.17)	0.25	1.91(1.28-2.85)	0.0012	1.29(0.88-1.91)	0.19	0.49(0.33-0.73)	0.00039	0.62(0.4-0.97)	0.033	0.61(0.39-0.95)	0.027
Differentiation												
poorly differentiated	1.56(1.04-2.33)	0.029	0.61(0.41-0.91)	0.015	1.19(0.77-1.82)	0.43	0.64(0.43-0.95)	0.025	1.5(0.99-2.29)	0.056	0.71(0.45-1.14)	0.15
moderately differentiated	1.84(0.96-3.53)	0.061	2.01(1.01-4.03)	0.044	1.34(0.63-2.84)	0.45	0.72(0.36-1.41)	0.33	0.74(0.39-1.42)	0.36	1.35(0.63-2.87)	0.44
well differentiated	2.18(0.84-5.7)	0.1	2.74(1.12-6.68)	0.021	2.76(0.93-8.23)	0.057	0.46(0.19-1.15)	0.091	3.15(1.31-7.55)	0.0069	3.82(1.38-10.6)	0.0059
Treatment												
surgery alone	1.4(1.03-1.89)	0.03	1.45(1.08-1.93)	0.011	1.37(1.03-1.83)	0.03	0.44(0.31-0.63)	3.50E-06	1.34(0.96-1.89)	0.089	0.76(0.54-1.07)	0.12
5-FU based adjuvant	0.67(0.47-0.95)	0.022	0.62(0.44-0.89)	0.0077	0.46(0.3-0.7)	0.00025	1.35(0.91-2)	0.13	2.26(1.5-3.42)	7.00E-05	0.89(0.62-1.29)	0.55
other adjuvant	0.51(0.17-1.54)	0.22	4.77(1.59-14.31)	0.0021	1.95(0.57-6.68)	0.28	0.09(0.01-0.66)	0.0027	4.75(1.1-20.46)	0.021	0.29(0.07-1.25)	0.078
Parameters	IFIT2 (217502_at)		IFIT3 (204747_at)		ISG15 (205483_s_at)		OAS1 (202869_at)		OASL (210797_s_at)		ASMD9 (219691_at)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Gender												
female	1.61(1.05-2.48)	0.029	1.27(0.88-1.83)	0.21	0.8(0.54-1.17)	0.25	1.25(0.88-1.78)	0.21	1.36(0.96-1.93)	0.082	0.56(0.38-0.82)	0.003
male	1.34(1.08-1.67)	0.0075	1.19(0.96-1.48)	0.1	0.87(0.69-1.11)	0.27	0.86(0.7-1.07)	0.17	1.21(0.94-1.56)	0.14	0.69(0.56-0.86)	0.00092
Stage												
I	0.32(0.12-0.89)	0.022	0.41(0.14-1.18)	0.087	0.33(0.11-1.03)	0.046	0.4(0.15-1.09)	0.064	0.37(0.14-0.99)	0.039	0.18(0.04-0.78)	0.0096
II	1.73(0.95-3.16)	0.068	2.04(0.91-4.61)	0.078	0.61(0.28-1.3)	0.19	1.91(1.04-3.5)	0.034	1.94(1.07-3.52)	0.026	0.66(0.34-1.26)	0.2
III	1.38(1.03-1.85)	0.029	1.28(0.96-1.71)	0.097	0.82(0.59-1.15)	0.25	0.7(0.53-0.94)	0.016	0.76(0.55-1.05)	0.092	0.55(0.4-0.74)	0.00009
IV	1.72(1.15-2.56)	0.0072	0.75(0.51-1.11)	0.15	0.73(0.5-1.07)	0.1	0.79(0.51-1.21)	0.28	0.76(0.49-1.17)	0.21	1.22(0.83-1.79)	0.3
Differentiation												
poorly differentiated	1.49(0.92-2.42)	0.1	0.73(0.45-1.18)	0.2	1.31(0.85-2.02)	0.23	1.61(1.05-2.47)	0.026	0.74(0.47-1.17)	0.2	0.72(0.47-1.1)	0.13
moderately differentiated	1.73(0.76-3.95)	0.19	1.51(0.78-2.94)	0.22	2.65(1.23-5.71)	0.0096	0.62(0.29-1.32)	0.21	1.52(0.73-3.15)	0.26	2.01(1.05-3.87)	0.033
well differentiated	10.5(4-78.81)	0.0046	4.74(1.38-16.24)	0.0065	2.35(0.79-7)	0.11	0.51(0.2-1.32)	0.16	0.49(0.19-1.27)	0.13	1.64(0.55-4.88)	0.37
Treatment												
surgery alone	0.9(0.66-1.23)	0.52	0.77(0.57-1.05)	0.1	0.65(0.46-0.94)	0.02	0.78(0.59-1.04)	0.095	0.79(0.59-1.05)	0.11	0.64(0.46-0.87)	0.0049
5-FU based adjuvant	0.55(0.38-0.79)	0.0011	1.31(0.93-1.85)	0.12	2.0(1.38-2.88)	0.00016	1.69(1.16-2.46)	0.006	0.73(0.51-1.05)	0.089	0.72(0.5-1.06)	0.095
other adjuvant	2.63(0.88-7.88)	0.072	0.59(0.24-1.44)	0.24	0.59(0.24-1.49)	0.26	0.52(0.22-1.25)	0.14	0.36(0.11-1.24)	0.093	0.4(0.15-1.11)	0.07
Parameters	BST2 (201641_at)		IFI27 (202411_at)		IFIT1 (203153_at)		IFITM3 (212203x_at)		MX1 (202086_at)		OAS2 (204972_at)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Gender												
female	0.42(0.26-0.68)	0.00031	0.57(0.39-0.86)	0.0058	0.82(0.56-1.18)	0.28	0.88(0.61-1.25)	0.47	1.3(0.88-1.91)	0.19	0.68(0.48-0.97)	0.032
male	0.79(0.63-1)	0.049	0.75(0.6-0.93)	0.008	0.72(0.58-0.91)	0.0045	1.23(0.98-1.55)	0.069	1.3(1.03-1.65)	0.03	1.1(0.89-1.36)	0.39
Stage												
I	0.19(0.04-0.84)	0.014	0.42(0.16-1.13)	0.076	0.36(0.13-0.96)	0.032	0.51(0.19-1.42)	0.19	0.3(0.07-1.31)	0.088	0.27(0.09-0.85)	0.017
II	0.69(0.37-1.25)	0.22	0.62(0.32-1.18)	0.14	2.41(1.07-5.43)	0.028	0.72(0.38-1.36)	0.31	2.06(0.87-4.89)	0.094	1.66(0.9-3.09)	0.1
III	0.74(0.55-0.98)	0.036	0.6(0.45-0.81)	0.00051	0.62(0.45-0.85)	0.0029	1.79(1.26-2.55)	0.001	1.39(1-1.94)	0.049	0.78(0.55-1.1)	0.15
IV	0.67(0.44-1.04)	0.072	0.59(0.4-0.87)	0.0066	0.72(0.48-1.08)	0.11	0.77(0.52-1.13)	0.17	0.43(0.43-1.03)	0.068	0.67(0.46-0.99)	0.042
Differentiation												
poorly differentiated	0.55(0.37-0.82)	0.0026	0.71(0.47-1.05)	0.086	0.78(0.49-1.25)	0.31	1.38(0.92-2.06)	0.11	0.82(0.54-1.25)	0.35	0.66(0.43-1.01)	0.055
moderately differentiated	2.26(0.99-5.18)	0.048	1.83(0.95-3.51)	0.068	1.45(0.76-2.77)	0.26	0.6(0.27-1.32)	0.2	2.15(1.07-4.31)	0.027	1.87(0.9-3.89)	0.091
well differentiated	4.11(1.12-14.13)	0.015	0.61(0.26-1.44)	0.25	2.78(1.077.22)	0.028	4.71(1.09-20.3)	0.022	2.53(1.04-6.15)	0.035	0.62(0.26-1.48)	0.28
Treatment												
surgery alone	0.57(0.39-0.84)	0.0035	0.57(0.4-0.82)	0.0017	0.86(0.64-1.16)	0.33	1.22(0.89-1.68)	0.21	0.8(0.58-1.09)	0.16	0.74(0.55-0.98)	0.037
5-FU based adjuvant	0.77(0.52-1.14)	0.2	1.55(0.9-2.21)	0.015	0.68(0.48-0.96)	0.026	1.5(1.05-2.16)	0.026	1.68(1.17-2.41)	0.0044	1.72(1.2-2.47)	0.003
other adjuvant	1.84(0.76-4.46)	0.17	0.11(0.01-0.81)	0.0084	1.54(0.56-4.25)	0.4	3.14(0.92-10.72)	0.054	0.53(0.19-1.45)	0.21	0.45(0.16-1.24)	0.11