

Supplementary

Table S1 The primer sequences

Gene	Primer	Base sequence (5' to 3')
<i>NMU</i>	F	CCTCAGGCATCCAACGCACTG
<i>NMU</i>	R	CCTGCTGACCTTCTCCATTCCG
<i>PPBP</i>	F	AGGTGCTGCTGCTTCTGTCATTG
<i>PPBP</i>	R	TGGCTATCACTTCGACTTGGTTGC
<i>GNG4</i>	F	GGCATGTCTAATAACAGCACCCTAG
<i>GNG4</i>	R	CAAAAGAAGCTTCTTCTCGCGAAAGG
<i>GAPDH(HUMAN)</i>	F	GGAGCGAGATCCCTCCAAAAT
<i>GAPDH(HUMAN)</i>	R	GGCTGTTGTCATACTTCTCATGG

Table S2 The clinical characteristics of the tissue microarray

Location	Gender	Age	Type	T	N	M	Survival time (m)	Survival time (d)	Death
A01	Female	89	Tumor	T3	N0	M0	45	1387	0
A02	Female	89	Adjacent	T3	N0	M0	45	1387	0
A03	Male	52	Tumor	T3	N0	M0	45	1371	0
A04	Male	52	Adjacent	T3	N0	M0	45	1371	0
A05	Female	74	Tumor	T2	N0	M0	44	1366	0
A06	Female	74	Adjacent	T2	N0	M0	44	1366	0
A07	Male	77	Tumor	T3	N0	M0	44	1363	0
A08	Male	77	Adjacent	T3	N0	M0	44	1363	0
A09	Female	60	Tumor	T3	N0	M0	44	1339	0
A10	Female	60	Adjacent	T3	N0	M0	44	1339	0
A11	Male	53	Tumor	T3	N1	M0	43	1329	0
A12	Male	53	Adjacent	T3	N1	M0	43	1329	0
A13	Female	64	Tumor	T3	N1	M0	31	960	1
A14	Female	64	Adjacent	T3	N1	M0	31	960	1
A15	Male	66	Tumor	T3	N1	M0	35	1083	1
A16	Male	66	Adjacent	T3	N1	M0	35	1083	1
B01	Female	77	Tumor	T3	N0	M0	43	1321	0
B02	Female	77	Adjacent	T3	N0	M0	43	1321	0
B03	Female	69	Tumor	T3	N0	M0	42	1290	0
B04	Female	69	Adjacent	T3	N0	M0	42	1290	0
B05	Male	80	Tumor	T3	N0	M0	42	1280	0
B06	Male	80	Adjacent	T3	N0	M0	42	1280	0
B07	Male	64	Tumor	T3	N2	M0	18	553	1
B08	Male	64	Adjacent	T3	N2	M0	18	553	1

Table S2 (continued)

Table S2 (continued)

Location	Gender	Age	Type	T	N	M	Survival time (m)	Survival time (d)	Death
B09	Female	78	Tumor	T3	N0	M0	20	635	1
B10	Female	78	Adjacent	T3	N0	M0	20	635	1
B11	Male	56	Tumor	T3	N0	M0	23	727	1
B12	Male	56	Adjacent	T3	N0	M0	23	727	1
B13	Female	70	Tumor	T3	N0	M0	40	1237	0
B14	Female	70	Adjacent	T3	N0	M0	40	1237	0
B15	Male	81	Tumor	T3	N1	M0	40	1219	0
B16	Male	81	Adjacent	T3	N1	M0	40	1219	0
C01	Female	78	Tumor	T3	N0	M0	40	1219	0
C02	Female	78	Adjacent	T3	N0	M0	40	1219	0
C03	Female	68	Tumor	T3	N0	M0	39	1209	0
C04	Female	68	Adjacent	T3	N0	M0	39	1209	0
C05	Female	72	Tumor	T3	N1b	M1b	30	929	1
C06	Female	72	Adjacent	T3	N1b	M1b	30	929	1
C07	Female	80	Tumor	T3	N0	M0	39	1196	0
C08	Female	80	Adjacent	T3	N0	M0	39	1196	0
C09	Male	68	Tumor	T3	N0	M0	38	1180	0
C10	Male	68	Adjacent	T3	N0	M0	38	1180	0
C11	Male	71	Tumor	T3	N1	M0	38	1169	0
C12	Male	71	Adjacent	T3	N1	M0	38	1169	0
C13	Female	81	Tumor	T3	N0	M0	28	859	1
C14	Female	81	Adjacent	T3	N0	M0	28	859	1
C15	Female	63	Tumor	T1	N0	M0	38	1162	0
C16	Female	63	Adjacent	T1	N0	M0	38	1162	0
D01	Male	65	Tumor	T1	N0	M0	37	1154	0
D02	Male	65	Adjacent	T1	N0	M0	37	1154	0
D03	Male	26	Tumor	T3	N1	M0	6	184	1
D04	Male	26	Adjacent	T3	N1	M0	6	184	1
D05	Male	63	Tumor	T3	N2a	M1a	24	752	1
D06	Male	63	Adjacent	T3	N2a	M1a	24	752	1
D07	Female	58	Tumor	T3	N1	M0	37	1142	0
D08	Female	58	Adjacent	T3	N1	M0	37	1142	0
D09	Male	79	Tumor	T3	N1	M0	37	1146	0
D10	Male	79	Adjacent	T3	N1	M0	37	1146	0
D11	Male	45	Tumor	T3	N1	M0	36	1120	0

Table S2 (continued)

Table S2 (continued)

Location	Gender	Age	Type	T	N	M	Survival time (m)	Survival time (d)	Death
D12	Male	45	Adjacent	T3	N1	M0	36	1120	0
D13	Female	70	Tumor	T3	N0	M0	11	361	1
D14	Female	70	Adjacent	T3	N0	M0	11	361	1
D15	Female	75	Tumor	T3	N0	M0	36	1107	0
D16	Female	75	Adjacent	T3	N0	M0	36	1107	0
E01	Male	69	Tumor	T3	N0	M0	36	1097	0
E02	Male	69	Adjacent	T3	N0	M0	36	1097	0
E03	Male	81	Tumor	T3	N0	M0	0	4	1
E04	Male	81	Adjacent	T3	N0	M0	0	4	1
E05	Female	41	Tumor	T3	N0	M0	35	1087	0
E06	Female	41	Adjacent	T3	N0	M0	35	1087	0
E07	Male	64	Tumor	T3	N0	M0	35	1085	0
E08	Male	64	Adjacent	T3	N0	M0	35	1085	0
E09	Female	76	Tumor	T3	N0	M0	35	1081	0
E10	Female	76	Adjacent	T3	N0	M0	35	1081	0
E11	Female	56	Tumor	T3	N0	M0	35	1080	0
E12	Female	56	Adjacent	T3	N0	M0	35	1080	0
E13	Male	72	Tumor	T3	N2b	M1b	1	31	1
E14	Male	72	Adjacent	T3	N2b	M1b	1	31	1
E15	Male	84	Tumor	T3	N0	M0	35	1071	0
E16	Male	84	Adjacent	T3	N0	M0	35	1071	0
F01	Male	67	Tumor	T1	N0	M1a	35	1065	0
F02	Male	67	Adjacent	T1	N0	M1a	35	1065	0
F03	Male	87	Tumor	T3	N0	M0	18	577	1
F04	Male	87	Adjacent	T3	N0	M0	18	577	1
F05	Male	75	Tumor	T3	N1	M0	34	1052	0
F06	Male	75	Adjacent	T3	N1	M0	34	1052	0
F07	Male	84	Tumor	T3	N0	M0	33	1029	0
F08	Male	84	Adjacent	T3	N0	M0	33	1029	0
F09	Female	79	Tumor	T3	N1	M0	34	1035	0
F10	Female	79	Adjacent	T3	N1	M0	34	1035	0
F11	Female	71	Tumor	T3	N1	M0	33	1030	0
F12	Female	71	Adjacent	T3	N1	M0	33	1030	0
F13	Male	61	Tumor	T3	N2a	M1a	33	1028	0
F14	Male	61	Adjacent	T3	N2a	M1a	33	1028	0

Table S2 (continued)

Table S2 (continued)

Location	Gender	Age	Type	T	N	M	Survival time (m)	Survival time (d)	Death
F15	Female	90	Tumor	T2	N0	M0	33	1017	0
F16	Female	90	Adjacent	T2	N0	M0	33	1017	0
G01	Male	36	Tumor	T3	N0	M0	33	1013	0
G02	Male	36	Adjacent	T3	N0	M0	33	1013	0
G03	Female	83	Tumor	T3	N1	M0	33	1003	0
G04	Female	83	Adjacent	T3	N1	M0	33	1003	0
G05	Male	80	Tumor	T3	N0	M0	32	1001	0
G06	Male	80	Adjacent	T3	N0	M0	32	1001	0
G07	Female	59	Tumor	T3	N1	M0	32	992	0
G08	Female	59	Adjacent	T3	N1	M0	32	992	0
G09	Female	61	Tumor	T3	N2	M0	33	1003	0
G10	Female	61	Adjacent	T3	N2	M0	33	1003	0
G11	Female	82	Tumor	T3	N2a	M1a	32	978	0
G12	Female	82	Adjacent	T3	N2a	M1a	32	978	0
G13	Female	69	Tumor	T3	N0	M0	32	975	0
G14	Female	69	Adjacent	T3	N0	M0	32	975	0
G15	Male	68	Tumor	T4	N1a	M1a	24	731	1
G16	Female	77	Tumor	T3	N0	M0	105	3219	0
H01	Male	83	Tumor	T3	N0	M0	105	3201	0
H02	Female	76	Tumor	T3	N0	M0	60	1826	1
H03	Female	59	Tumor	T3	N0	M0	96	2927	0
H04	Female	60	Tumor	T3	N0	M0	88	2682	0
H05	Male	59	Tumor	T3	N0	M1a	86	2638	0
H06	Male	49	Tumor	T3	N1	M0	84	2569	0
H07	Male	80	Tumor	T3	N0	M0	83	2532	0
H08	Female	82	Tumor	T3	N0	M0	2	68	1
H09	Female	58	Tumor	T3	N0	M0	81	2486	0
H10	Male	59	Tumor	T3	N0	M0	8	266	1
H11	Male	78	Tumor	T3	N0	M0	62	1897	1
H12	Female	83	Tumor	T3	N0	M0	77	2371	0

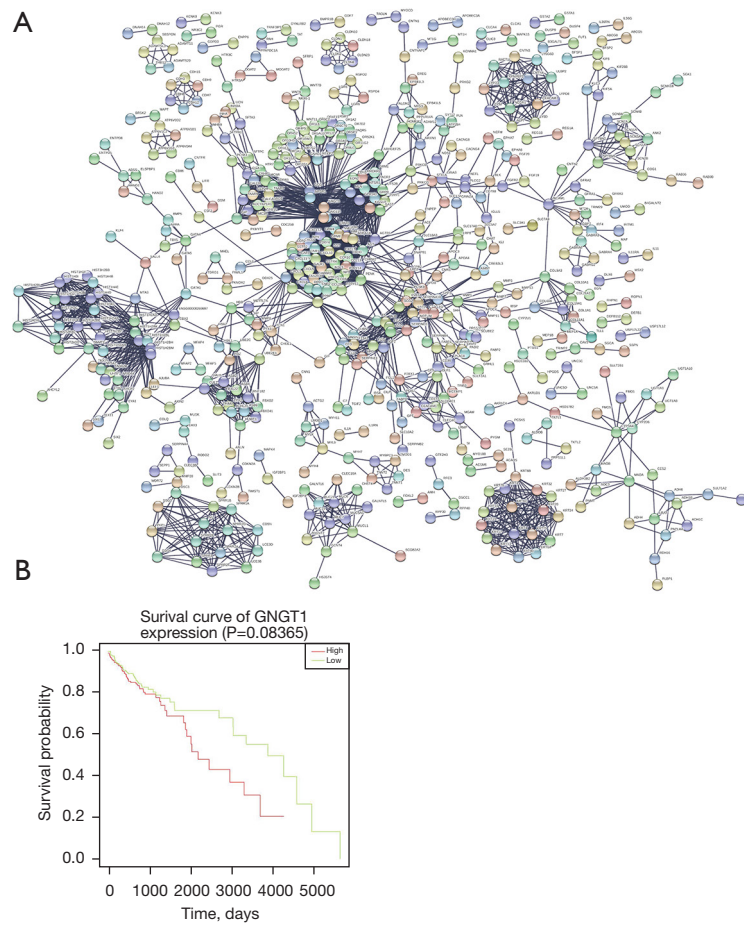


Figure S1 (A) Gene interaction relationship (PPI network). (B) Survival curve of GNGT1. PPI, protein-protein interaction.