Supplementary Table 1. List of genes analyzed in the study

Gene symbol:	Also known as	Affymetrix ID	Protein Name
ROR1	NTRKR1, DJ537F10.1	205805_s_at	Receptor Tyrosine Kinase Like Orphan Receptor
ROR2	BDB1, BDB	205578_at	Receptor Tyrosine Kinase Like Orphan Receptor 2
NKX2-1	TITF1, NK-2 Homolog A, Benign Chorea, NMTC1, NK-2, TEBP, BCH	211024 s_at	NK2 Homeobox 1
FOXF1	FREAC-1, FKHL5, ACDMPV, FOXF1	205935_at	Forkhead box F1
WNT5A	Wnt Family Member 5A	213425_at	Wnt family member 5A

Supplementary Table 2. Correlation between mRNA expression of *ROR1, ROR2, NKX2-1, FOXF1*, and *WNT5A* genes in Cancer patients by using RNA-Seq option from KM Plotter database.

Cancer Type	Patients	Hazard ratio	95% CI	P value
ROR1				
Esophageal Adenocarcinoma	80	0.49	(0.25-0.95)	0.032
Kidney renal clear cell carcinoma	532	0.56	(0.41-0.76)	0.00016
Liver hepatocellular carcinoma	370	1.5	(1.06-2.12)	0.022
ROR2				
Bladder Carcinoma	404	1.38	(1.02-1.85)	0.034
Kidney renal clear cell carcinoma	530	1.6	(1.18-2.16)	0.0022
Kidney renal papillary cell carcinoma	287	1.92	(1.05-3.53)	0.032
Thyroid carcinoma	502	3.62	(1.16-11.32)	0.017
FOXF1				
Cervical squamous cell carcinoma	304	0.57	(0.35-0.92)	0.021
Testicular Germ Cell Tumor	134	0.046	(0-inf)	0.046
WNT5A				
Bladder Carcinoma	404	1.38	(1.03-1.86)	0.032
Kidney renal clear cell carcinoma	530	1.46	(1.08-1.98)	0.013
Kidney renal papillary cell carcinoma	287	0.51	(0.27-0.96)	0.034
Lung squamous cell carcinoma	495	0.75	(0.57-0.98)	0.034
Sarcoma	259	1.59	(1.07-2.38)	0.022
Thyroid carcinoma	302	0.28	(0.09-0.86)	0.018
NKX2-1				
Kidney renal clear cell carcinoma	530	1.9	(1.28-2.82)	0.0012
Lung adenocarcinoma	504	0.72	(0.53-0.96)	0.025
Lung squamous cell carcinoma	594	1.37	(1.04-1.8)	0.023

Supplementary Figure S1

Male   **Female**

A — ROR1 (205805_s_at) — HR = 1.45 (1.17 - 1.79), logrank P = 7e-04

B — ROR1 (205805_s_at) — HR = 1.61 (1.13 - 2.29), logrank P = 0.0078

C — ROR2 (205578_at) — HR = 1.6 (1.29 - 1.99), logrank P = 1.5e-05

D — ROR2 (205578_at) — HR = 1.48 (1.04 - 2.1), logrank P = 0.028

E — NKX2-1 (211024_s_at) — HR = 1.52 (1.23 - 1.88), logrank P = 0.00011

F — NKX2-1 (211024_s_at) — HR = 1.51 (1.07 - 2.14), logrank P = 0.02

G — FOXF1 (205935_at) — HR = 1.33 (1.08 - 1.65), logrank P = 0.0083

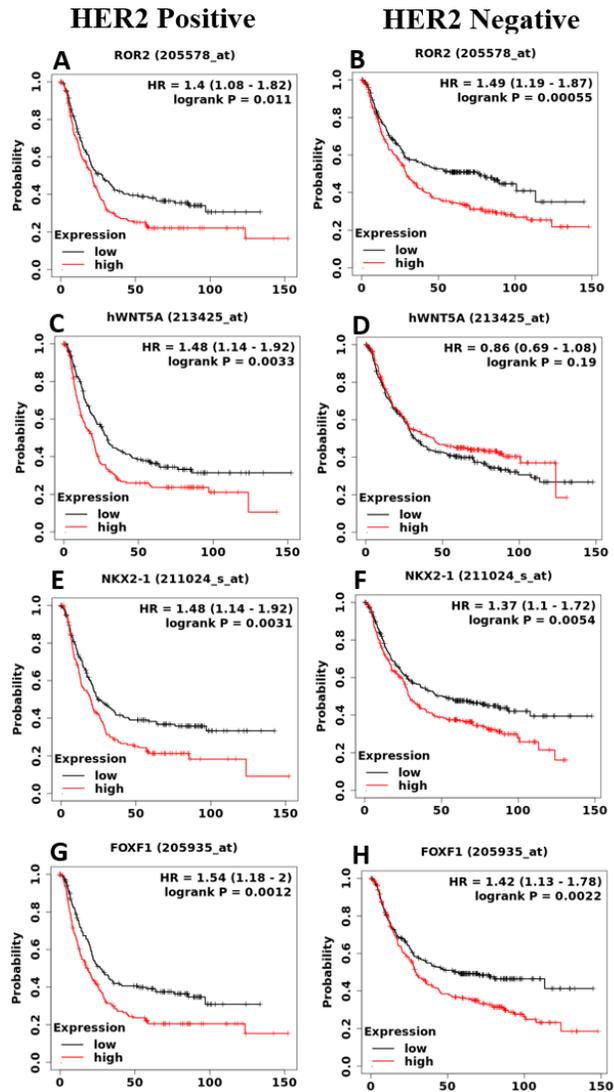**H** — FOXF1 (205935_at) — HR = 1.56 (1.1 - 2.22), logrank P = 0.013
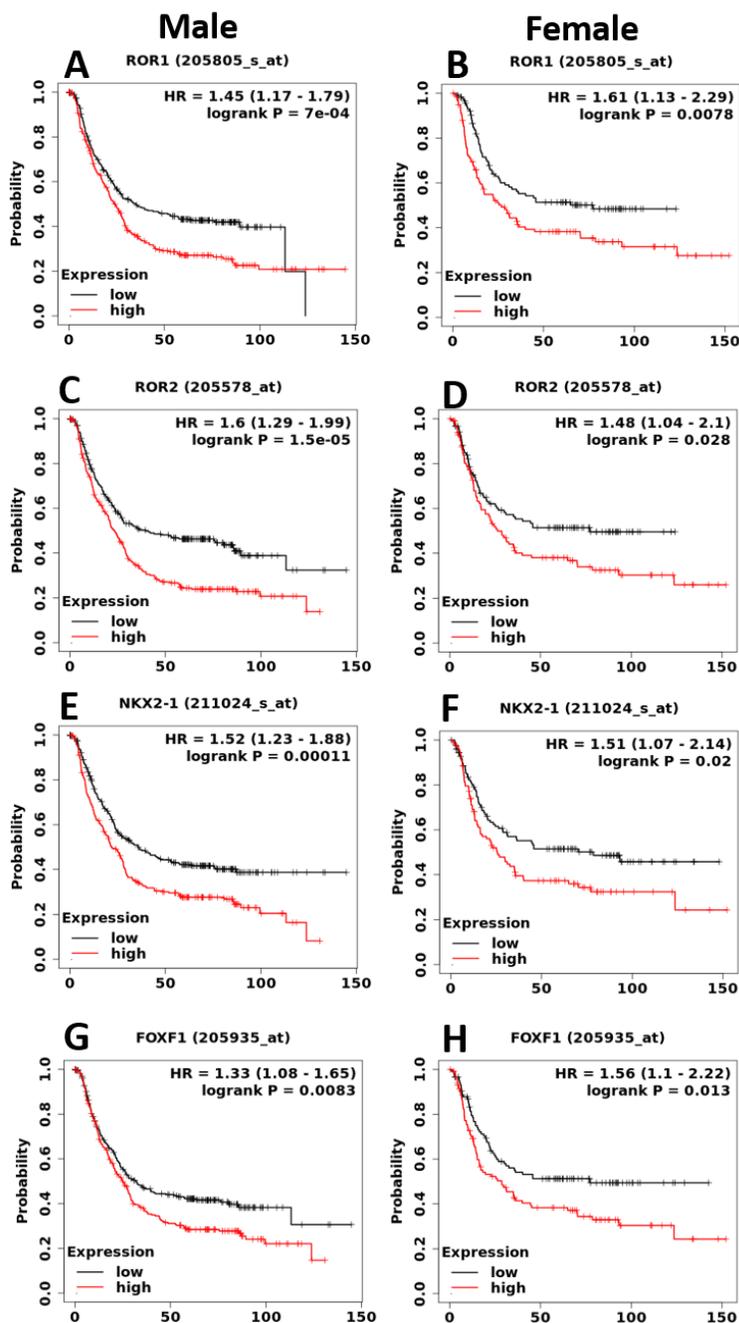
Supplementary Figure S1. The Kaplan-Meier (KM) survival curves (overall survival) were plotted for *ROR1, ROR2 WNT5A, NKX2-1* and *FOXF1* genes for male and female gastric cancer patients separately. (N= 875 GC patients).
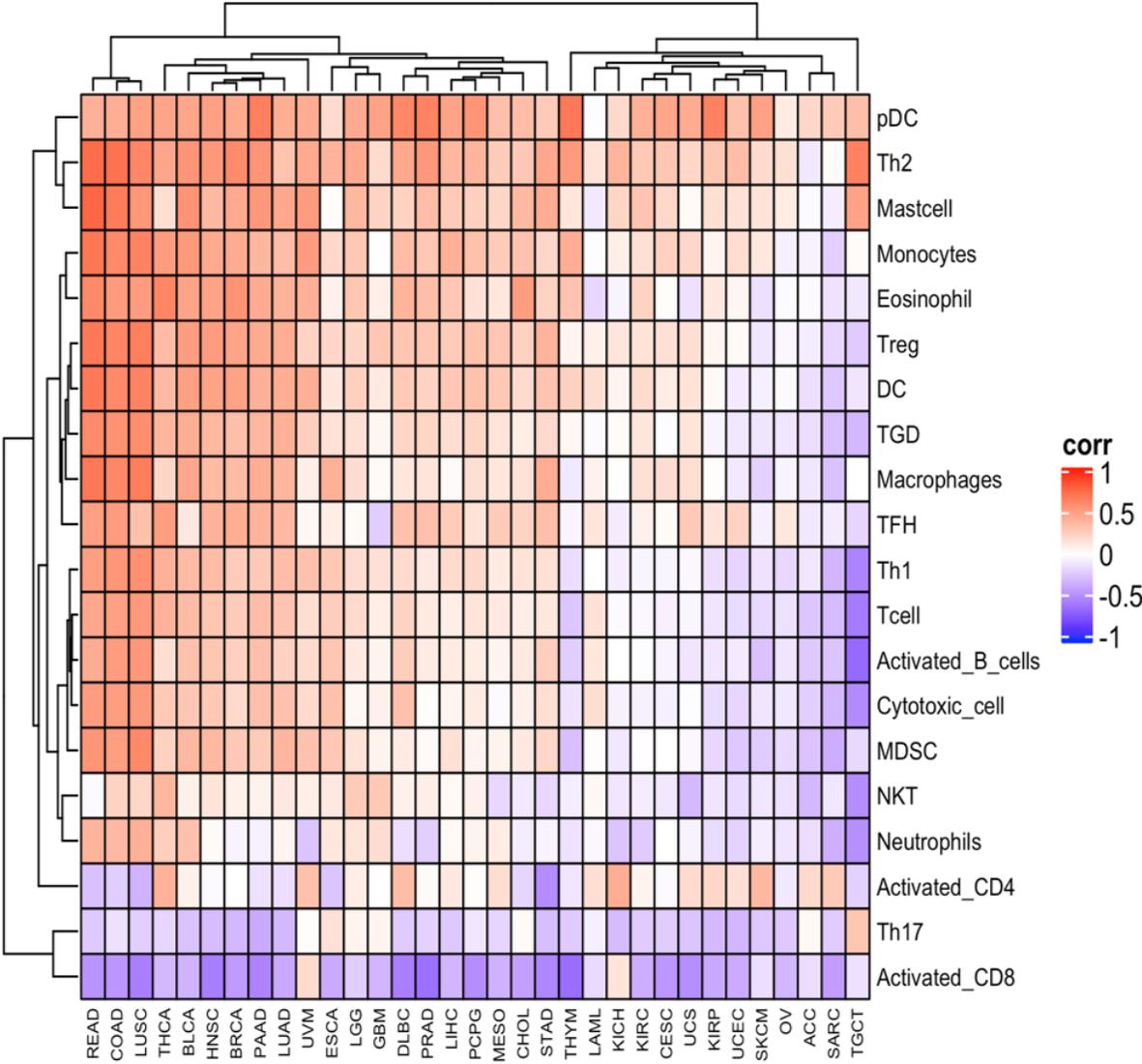
Supplementary Figure S2
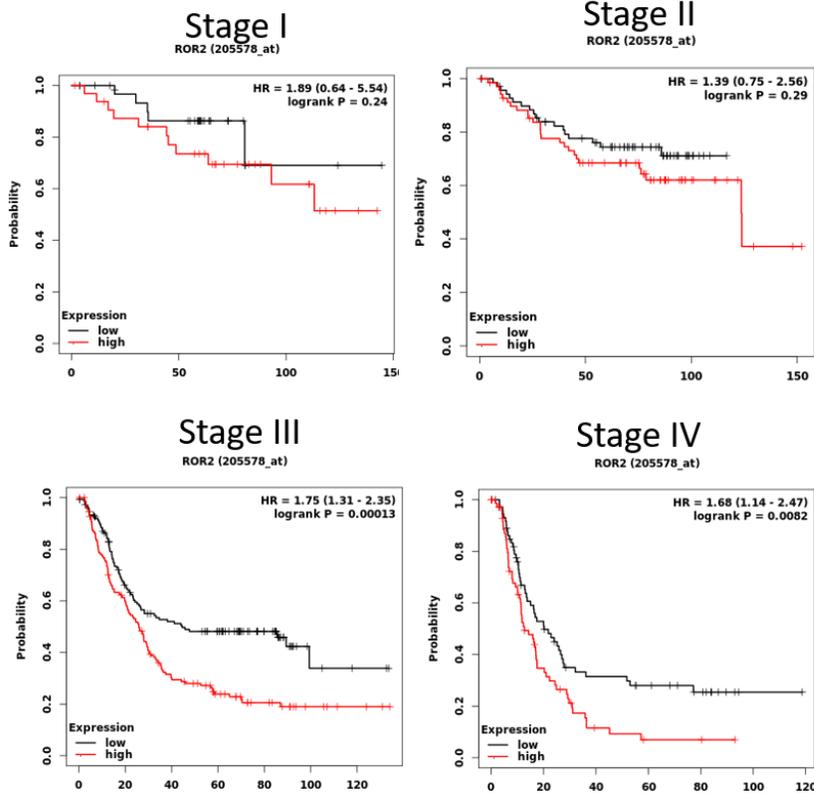
Supplementary Figure S2. The Kaplan-Meier (KM) survival curves (overall survival) were plotted for *ROR2* for different stages of gastric cancer patients separately. (N= 875 GC patients).

Supplementary Figure S3

Supplementary Figure S3. The Kaplan-Meier (KM) survival curves (overall survival) were plotted for *ROR1, ROR2 WNT5A, NKX2-1* and *FOXF1* genes for HER-positive and HER2-negative gastric cancer patients separately. (N= 875 GC patients).

Supplementary Figure S4

Supplementary Figure S4. The Association between the expression of *ROR1* with tumor-infiltrating immune cells in different types of cancer was analyzed by EMTome.