



Figure S1: KEGG pathway and Gene Ontology (GO) analysis based on the STRING database. (A) Top 10 KEGG pathways results. (B) Top 10 biological process (BP) results. (C) Top 10 cellular component (CC) results. (D) Top 10 molecular function (MF) results.

Table S1: The detailed information of ELF3 expression data and corresponding clinicopathological information based on TCGA database.

ID	futime	fustat	age	gender	grade	stage	T	M	N	ELF3	Type
TCGA-HZ-A77P-01A-11R-A33R-07	330	0	77	MALE	G1	Stage IIB	T3	MX	N1	32.91632	Tumor
TCGA-IB-AAUR-01A-21R-A38C-07	338	0	67	MALE	G1	Stage IIB	T3	M0	N1	38.54016	Tumor
TCGA-3A-A9IV-01A-11R-A41B-07	1103	0	59	FEMALE	G1	Stage IB	T2	MX	N0	19.436	Tumor
TCGA-2J-AABH-01A-21R-A41B-07	677	0	61	MALE	G3	Stage IIA	T3	M0	N0	84.19494	Tumor
TCGA-F2-A44H-01A-11R-A26U-07	586	0	65	MALE	G2	Stage IIA	T3	M0	N0	32.80712	Tumor
TCGA-HZ-7924-01A-11R-2156-07	840	0	60	FEMALE	G2	Stage IIA	T3	MX	N0	59.65718	Tumor
TCGA-HZ-A49G-01A-11R-A26U-07	660	0	58	FEMALE	G2	Stage IIB	T2	MX	N1	83.69491	Tumor
TCGA-FB-AAQ2-01A-31R-A41B-07	153	1	81	FEMALE	G3	Stage IIB	T3	MX	N1	40.72716	Tumor
TCGA-2L-AAQE-01A-11R-A39D-07	684	1	56	MALE	G2	Stage IIB	T3	M0	N1	118.5144	Tumor
TCGA-IB-AAUM-01A-11R-A37L-07	8	0	76	MALE	G3	Stage IIB	T2	M0	N1	39.19006	Tumor
TCGA-HZ-A49I-01A-12R-A26U-07	308	1	77	MALE	G2	Stage IIB	T3	MX	N1	157.2511	Tumor
TCGA-FB-A4P6-01A-12R-A26U-07	363	0	54	MALE	G1	Stage IIB	T3	MX	N1	84.04365	Tumor
TCGA-3A-A9IO-01A-11R-A38C-07	1942	0	55	MALE	G1	unknow	TX	MX	NX	2.668527	Tumor
TCGA-YB-A89D-11A-11R-A36G-07	350	0	59	MALE	G2	Stage IIB	T3	MX	N1	31.32477	Normal
TCGA-YB-A89D-01A-12R-A36G-07	350	0	59	MALE	G2	Stage IIB	T3	MX	N1	80.99443	Tumor
TCGA-HZ-7925-01A-11R-2156-07	614	1	66	MALE	G2	Stage IIB	T3	MX	N1	61.57104	Tumor
TCGA-IB-7654-01A-11R-2156-07	476	1	80	MALE	G2	Stage IIB	T2	M0	N1	28.52972	Tumor
TCGA-XN-A8T5-01A-12R-A36G-07	720	0	53	FEMALE	G2	Stage IB	T2	M0	N0	17.35972	Tumor
TCGA-3A-A9IS-01A-21R-A39D-07	998	0	67	MALE	G1	Stage IB	T2	MX	N0	4.975891	Tumor
TCGA-XD-AAUI-01A-42R-A41B-07	366	1	50	FEMALE	G2	Stage IIB	T3	MX	N1	64.07799	Tumor
TCGA-HV-A7OL-01A-11R-A33R-07	252	0	70	MALE	G2	Stage IIA	T3	MX	N0	126.7747	Tumor
TCGA-HZ-8002-01A-11R-2204-07	366	1	61	MALE	G2	Stage IIB	T3	MX	N1	44.68357	Tumor
TCGA-3A-A9IL-01A-11R-A38C-07	2741	0	39	FEMALE	G1	Stage I	T1	MX	unknow	8.580078	Tumor
TCGA-3A-A9J0-01A-11R-A41B-07	743	0	75	MALE	G2	Stage IIB	T3	MX	N1	69.62248	Tumor
TCGA-OE-A75W-01A-12R-A32O-07	267	1	75	MALE	G1	Stage IIA	T3	M0	N0	132.2706	Tumor
TCGA-2J-AABF-01A-31R-A41B-07	691	1	73	MALE	G3	Stage IIB	T3	M0	N1	88.7158	Tumor
TCGA-FB-AAQ6-01A-11R-A41B-07	244	1	85	MALE	G2	Stage IA	T1	MX	N0	151.863	Tumor

TCGA-PZ-A5RE-01A-11R-A32O-07	470	1	44	FEMALE	G3	Stage IIB	T3	MX	N1	110.3475	Tumor
TCGA-2J-AAB9-01A-11R-A41B-07	627	1	70	FEMALE	G1	Stage IIB	T3	M0	N1	43.13908	Tumor
TCGA-2L-AAQJ-01A-12R-A39D-07	394	1	49	FEMALE	G2	Stage III	T4	MX	N0	106.3572	Tumor
TCGA-HZ-A4BH-01A-11R-A26U-07	194	0	75	MALE	G3	Stage IIB	T3	MX	N1b	69.93497	Tumor
TCGA-FB-AAPU-01A-31R-A41B-07	381	1	41	FEMALE	G2	Stage IIA	T3	MX	N0	223.3786	Tumor
TCGA-Z5-AAPL-01A-12R-A41B-07	467	0	74	FEMALE	G1	Stage IIA	T3	M0	N0	30.30895	Tumor
TCGA-FB-AAPQ-01A-11R-A41B-07	1130	1	65	MALE	G2	Stage IIB	T3	MX	N1	130.1008	Tumor
TCGA-HZ-A9TJ-06A-11R-A41B-07	603	0	70	MALE	G2	Stage IV	T3	M1	N0	151.129	Tumor
TCGA-HZ-A9TJ-01A-11R-A41I-07	603	0	70	MALE	G2	Stage IV	T3	M1	N0	164.7197	Tumor
TCGA-IB-7897-01A-21R-2204-07	486	1	53	FEMALE	G2	Stage IIB	T3	M0	N1	11.54993	Tumor
TCGA-3A-A9I5-01A-11R-A38C-07	1794	0	57	MALE	G1	unknow	unknow	MX	N0	65.01189	Tumor
TCGA-HZ-8315-01A-11R-2404-07	299	1	54	FEMALE	G2	Stage IIA	T3	MX	N0	116.7809	Tumor
TCGA-HZ-A8P1-01A-11R-A37L-07	7	0	81	MALE	G1	Stage IB	T2	MX	N0	159.981	Tumor
TCGA-IB-A7M4-01A-11R-A36G-07	483	0	81	MALE	G3	Stage IIB	T3	MX	N1	57.03035	Tumor
TCGA-FB-AAPZ-01A-11R-A41B-07	716	0	54	MALE	G3	Stage IIB	T2	MX	N1	118.8633	Tumor
TCGA-RB-AA9M-01A-11R-A39D-07	286	0	43	MALE	G3	Stage IIB	T1	MX	N1	110.108	Tumor
TCGA-HZ-8638-01A-11R-2404-07	151	1	84	FEMALE	GX	Stage IA	T1	MX	N0	89.819	Tumor
TCGA-LB-A8F3-01A-11R-A36G-07	379	0	64	FEMALE	G1	Stage IIA	T3	MX	N0	128.6713	Tumor
TCGA-IB-A7LX-01A-12R-A36G-07	250	1	57	MALE	G2	Stage IIB	T3	MX	N1	110.7974	Tumor
TCGA-IB-7888-01A-11R-2156-07	1332	1	66	FEMALE	G2	Stage IIA	T3	M0	N0	41.50016	Tumor
TCGA-S4-A8RM-01A-11R-A37L-07	646	0	67	MALE	G3	Stage IIB	T3	MX	N1	248.5009	Tumor
TCGA-FB-AAPS-01A-12R-A39D-07	228	0	62	FEMALE	G2	Stage IIB	T2	MX	N1	15.91854	Tumor
TCGA-IB-AAUO-01A-12R-A38C-07	239	1	64	FEMALE	G3	Stage IIB	T3	M0	N1	65.49398	Tumor
TCGA-3A-A9IB-01A-21R-A39D-07	224	1	69	FEMALE	G3	Stage IIB	T3	MX	N1	52.99745	Tumor
TCGA-FB-AAPP-01A-12R-A41B-07	485	1	71	MALE	G3	Stage IIB	T3	MX	N1	101.8541	Tumor
TCGA-F2-A7TX-01A-33R-A38C-07	95	1	77	MALE	G3	Stage IIB	T3	M0	N1	34.82555	Tumor
TCGA-Q3-AA2A-01A-11R-A37L-07	95	0	64	FEMALE	G1	Stage IB	T3	MX	N1	158.9036	Tumor
TCGA-LB-A9Q5-01A-11R-A39D-07	313	1	63	FEMALE	G3	Stage IIB	T3	MX	N1	26.69217	Tumor
TCGA-XD-AAUH-01A-42R-A41B-07	395	0	57	FEMALE	G2	Stage IIB	T3	M0	N1	28.67008	Tumor

TCGA-IB-7649-01A-11R-2156-07	467	1	73	FEMALE	G2	Stage IIB	T3	M0	N1	41.84686	Tumor
TCGA-IB-A5SO-01A-11R-A32O-07	365	1	71	MALE	G2	Stage IIB	T3	M0	N1	77.88626	Tumor
TCGA-3A-A9IJ-01A-11R-A39D-07	1854	0	65	MALE	G1	Stage IB	T2	MX	N0	2.661031	Tumor
TCGA-FB-A5VM-01A-11R-A32O-07	449	0	74	MALE	G3	Stage IB	T2	M0	N0	42.29446	Tumor
TCGA-IB-8127-01A-11R-2404-07	522	0	59	MALE	G2	Stage IIB	T3	M0	N1	71.52919	Tumor
TCGA-3E-AAAZ-01A-11R-A38C-07	2182	1	71	MALE	G2	Stage IIA	T3	MX	N0	89.19931	Tumor
TCGA-2J-AABU-01A-11R-A41B-07	277	1	56	MALE	G3	Stage IIB	T3	M0	N1	32.96733	Tumor
TCGA-HV-AA8V-01A-11R-A41B-07	920	0	50	MALE	G3	Stage IIB	T3	MX	N1	42.26386	Tumor
TCGA-IB-AAUU-01A-11R-A37L-07	245	0	35	MALE	G3	Stage IIB	T3	M0	N1	147.2643	Tumor
TCGA-IB-A5SS-01A-11R-A32O-07	460	1	64	FEMALE	G3	Stage IIB	T3	M0	N1	49.44647	Tumor
TCGA-3A-A9IU-01A-11R-A39D-07	458	1	65	MALE	G3	Stage IIB	T3	MX	N1	136.9872	Tumor
TCGA-3A-A9IN-01A-11R-A39D-07	2084	0	62	FEMALE	G2	Stage IB	T2	MX	NX	5.83589	Tumor
TCGA-FB-A7DR-01A-21R-A33R-07	353	1	48	MALE	G2	Stage IIA	T3	M0	NX	54.48159	Tumor
TCGA-FB-AAQ0-01A-31R-A41B-07	473	1	68	MALE	G3	Stage IIA	T3	MX	N0	204.2876	Tumor
TCGA-3A-A9IR-01A-11R-A38C-07	1542	0	64	FEMALE	G1	Stage IB	T2	MX	N0	13.08375	Tumor
TCGA-IB-7891-01A-11R-2204-07	648	0	49	FEMALE	G1	Stage IIB	T3	M0	N1	63.01435	Tumor
TCGA-2J-AABI-01A-12R-A41B-07	969	0	55	FEMALE	G3	Stage IIA	T3	M0	N0	21.31916	Tumor
TCGA-IB-AAUS-01A-12R-A38C-07	225	0	84	FEMALE	G2	Stage IIB	T3	M0	N1	27.12239	Tumor
TCGA-FB-AAPY-01A-11R-A41B-07	1059	1	71	MALE	G2	Stage IIB	T2	MX	N1	84.48667	Tumor
TCGA-F2-A44G-01A-11R-A26U-07	233	1	79	FEMALE	G2	Stage IIB	T3	M0	N1	78.79313	Tumor
TCGA-HV-A5A3-11A-11R-A26U-07	128	1	50	MALE	G2	Stage IIA	T3	MX	NX	75.39921	Normal
TCGA-HV-A5A3-01A-11R-A26U-07	128	1	50	MALE	G2	Stage IIA	T3	MX	NX	164.2806	Tumor
TCGA-US-A774-01A-21R-A32O-07	695	1	76	FEMALE	G3	Stage IIB	T3	MX	N1	57.34514	Tumor
TCGA-IB-A5SP-01A-11R-A32O-07	482	0	77	MALE	G2	Stage IIA	T3	M0	N0	123.6878	Tumor
TCGA-US-A77E-01A-11R-A32O-07	430	1	73	MALE	G3	Stage IIB	T3	MX	N1	106.4832	Tumor
TCGA-S4-A8RP-01A-11R-A36G-07	702	1	77	FEMALE	G3	Stage IIB	T3	MX	N1	118.4708	Tumor
TCGA-M8-A5N4-01A-11R-A26U-07	584	0	48	FEMALE	G2	Stage IIA	T3	M0	N0	54.58081	Tumor
TCGA-HZ-8001-01A-11R-2204-07	706	0	69	MALE	G2	Stage III	T4	MX	N0	25.50177	Tumor
TCGA-3A-A9I7-01A-21R-A38C-07	1323	0	45	MALE	G2	Stage IIB	T3	MX	N1	38.13324	Tumor

TCGA-F2-A8YN-01A-11R-A37L-07	517	0	76	MALE	G2	Stage IIA	T3	M0	N0	71.26064	Tumor
TCGA-IB-7645-01A-22R-2204-07	1502	1	44	FEMALE	G1	Stage IIB	T3	M0	N1	53.61161	Tumor
TCGA-IB-7890-01A-12R-2204-07	598	1	73	MALE	G3	Stage IB	T2	M0	N0	16.38162	Tumor
TCGA-US-A776-01A-13R-A33R-07	844	0	61	MALE	G2	Stage IIA	T3	MX	N0	78.57818	Tumor
TCGA-FB-A4P5-01A-11R-A26U-07	179	1	69	FEMALE	G2	Stage IIB	T3	MX	N1	26.09446	Tumor
TCGA-HZ-7926-01A-11R-2156-07	518	1	57	MALE	G1	Stage IIB	T3	MX	N1	89.05828	Tumor
TCGA-IB-A6UF-01A-23R-A33R-07	666	0	63	MALE	G2	Stage IIB	T3	M0	N1	98.14662	Tumor
TCGA-HZ-7918-01A-11R-2156-07	969	0	72	MALE	G3	Stage IIB	T3	M0	N1	34.43317	Tumor
TCGA-3A-A9IH-01A-12R-A39D-07	1021	0	66	FEMALE	G2	Stage IA	T1	MX	N0	88.16779	Tumor
TCGA-FB-A78T-01A-12R-A32O-07	375	1	71	FEMALE	G2	Stage IIB	T3	M0	N1	218.9075	Tumor
TCGA-2L-AAQA-01A-21R-A38C-07	143	1	76	MALE	G2	Stage IIB	T3	MX	N1	224.1535	Tumor
TCGA-2J-AABE-01A-12R-A41B-07	676	0	73	MALE	G2	Stage IIA	T3	M0	N0	125.4138	Tumor
TCGA-2L-AAQI-01A-12R-A39D-07	103	1	66	MALE	G3	Stage IIB	T3	MX	N1	113.4905	Tumor
TCGA-IB-7651-01A-11R-2156-07	603	1	64	FEMALE	G2	Stage IIB	T3	M0	N1	20.63386	Tumor
TCGA-3A-A9IX-01A-11R-A41B-07	1037	0	40	MALE	G2	Stage IA	T1	MX	N0	47.84881	Tumor
TCGA-F2-7273-01A-11R-2156-07	360	0	54	MALE	G3	Stage IIB	T3	M0	N1	50.41872	Tumor
TCGA-2J-AAB8-01A-12R-A41B-07	80	0	71	MALE	G3	Stage IIB	T3	M0	N1	100.3159	Tumor
TCGA-HZ-8636-01A-21R-2404-07	545	1	58	FEMALE	G3	Stage IV	T3	M1	N0	42.60964	Tumor
TCGA-YH-A8SY-01A-11R-A37L-07	388	0	73	FEMALE	G2	unknow	T3	MX	N1	62.63896	Tumor
TCGA-F2-6880-01A-11R-2156-07	295	0	70	MALE	G1	Stage IIB	T3	M0	N1	7.1136	Tumor
TCGA-2J-AABO-01A-21R-A41B-07	440	0	43	MALE	G2	Stage IIB	T3	M0	N1	51.71167	Tumor
TCGA-IB-A6UG-01A-32R-A33R-07	41	1	65	MALE	G3	Stage IIB	T3	M0	N1	77.45783	Tumor
TCGA-2J-AABP-01A-11R-A41B-07	355	0	58	FEMALE	G4	Stage IIB	T3	M0	N1	0.298187	Tumor
TCGA-US-A779-01A-11R-A32O-07	511	1	54	FEMALE	G1	Stage IIB	T3	MX	N1b	110.8355	Tumor
TCGA-HZ-7920-01A-11R-2204-07	236	1	71	MALE	G2	Stage IB	T2	MX	N0	20.24848	Tumor
TCGA-FB-A545-01A-11R-A26U-07	385	0	72	FEMALE	G2	Stage IIB	T3	M0	N1	93.04457	Tumor
TCGA-LB-A7SX-01A-11R-A33R-07	393	1	74	FEMALE	G2	Stage IIB	T3	MX	N1	204.6916	Tumor
TCGA-HV-A5A5-01A-11R-A26U-07	289	0	61	FEMALE	G2	Stage IIB	T3	M0	N1	72.70087	Tumor
TCGA-HZ-8003-01A-21R-2204-07	596	1	65	FEMALE	G2	Stage IIB	T3	MX	N1	12.36404	Tumor

TCGA-IB-AAUQ-01A-22R-A41I-07	183	1	50	MALE	G2	Stage IIB	T3	M0	N1	66.34366	Tumor
TCGA-FB-AAQ1-01A-12R-A41B-07	123	1	49	MALE	G2	Stage IIB	T3	MX	N1	87.47355	Tumor
TCGA-HZ-8317-01A-11R-2404-07	378	1	69	FEMALE	G1	Stage IIB	T3	MX	N1	48.22136	Tumor
TCGA-2J-AABA-01A-21R-A41B-07	607	1	55	MALE	G2	Stage IIB	T3	M0	N1	83.66099	Tumor
TCGA-2J-AABV-01A-12R-A41B-07	652	1	74	MALE	G4	Stage IIB	T3	M0	N1	17.26978	Tumor
TCGA-2L-AAQM-01A-11R-A39D-07	1383	0	52	MALE	G1	Stage IIB	T3	MX	N1	53.48154	Tumor
TCGA-H6-8124-11A-01R-2404-07	392	0	56	FEMALE	G3	Stage IIB	T3	M0	N1	63.38612	Normal
TCGA-H6-8124-01A-11R-2404-07	392	0	56	FEMALE	G3	Stage IIB	T3	M0	N1	71.78085	Tumor
TCGA-XD-AAUG-01A-61R-A41B-07	420	0	66	FEMALE	G2	Stage IV	T3	M1	N1	28.2238	Tumor
TCGA-IB-7887-01A-11R-2156-07	110	1	62	FEMALE	G2	Stage IIB	T3	M0	N1	50.00703	Tumor
TCGA-IB-7652-01A-11R-2156-07	724	0	49	FEMALE	G2	Stage IIB	T3	M0	N1	93.56102	Tumor
TCGA-IB-A5SQ-01A-11R-A32O-07	219	1	56	FEMALE	G2	Stage IB	T2	M0	N0	18.02264	Tumor
TCGA-F2-7276-01A-11R-2156-07	216	1	64	MALE	G1	Stage IIB	T3	M0	N1	46.10309	Tumor
TCGA-HZ-A4BK-01A-11R-A26U-07	657	0	72	MALE	G3	Stage IIB	T3	MX	N1	91.40266	Tumor
TCGA-3A-A9IZ-01A-12R-A41B-07	308	1	47	MALE	G2	Stage IIB	T3	MX	N1	103.1683	Tumor
TCGA-IB-7886-01A-11R-2156-07	123	1	80	MALE	G3	Stage IIB	T3	M0	N1	127.985	Tumor
TCGA-IB-AAUV-01A-11R-A38C-07	404	0	49	MALE	G2	Stage IIB	T3	M0	N1	6.922348	Tumor
TCGA-2J-AAB4-01A-12R-A41B-07	729	0	48	MALE	G2	Stage IIB	T2	M0	N1	133.2309	Tumor
TCGA-US-A77J-01A-11R-A32O-07	568	1	81	FEMALE	G2	Stage IIB	T3	MX	N1b	66.50668	Tumor
TCGA-Q3-A5QY-01A-12R-A32O-07	416	0	58	MALE	G2	Stage IIB	T3	MX	N1	19.94472	Tumor
TCGA-IB-7646-01A-11R-2156-07	145	1	60	MALE	G2	Stage IIB	T3	M0	N1	49.40269	Tumor
TCGA-HZ-A77O-01A-11R-A33R-07	160	1	77	FEMALE	G2	Stage IIB	T2	MX	N1	31.13641	Tumor
TCGA-2J-AABK-01A-31R-A41B-07	484	0	71	MALE	G2	Stage IIB	T3	M0	N1	174.2304	Tumor
TCGA-HV-A5A4-01A-11R-A26U-07	232	0	72	FEMALE	G2	Stage IIA	T3	MX	N0	187.9665	Tumor
TCGA-2J-AAB6-01A-11R-A41B-07	293	1	75	MALE	G2	Stage IIA	T3	M0	N0	48.79471	Tumor
TCGA-2J-AABT-01A-11R-A41B-07	319	0	72	FEMALE	G2	Stage IIB	T3	M0	N1	44.24031	Tumor
TCGA-HZ-A77Q-01A-11R-A36G-07	33	0	55	FEMALE	G2	Stage IIB	T3	MX	N1	57.76599	Tumor
TCGA-IB-7893-01A-11R-2204-07	117	1	64	MALE	G3	Stage IIA	T3	M0	N0	16.25033	Tumor
TCGA-3E-AAAY-01A-11R-A38C-07	2285	0	67	MALE	G3	Stage IIB	T3	MX	N1	97.24485	Tumor

TCGA-HZ-7922-01A-11R-2156-07	4	0	61	FEMALE	G1	Stage IIB	T3	MX	N1	44.46078	Tumor
TCGA-RB-A7B8-01A-12R-A33R-07	466	1	81	FEMALE	G2	Stage IIB	T3	MX	N1	101.4903	Tumor
TCGA-HZ-7289-01A-11R-2156-07	661	1	77	MALE	G1	Stage IIB	T3	MX	N1	75.41798	Tumor
TCGA-YY-A8LH-01A-11R-A36G-07	2016	0	61	FEMALE	G3	Stage IIB	T3	MX	N1	207.9416	Tumor
TCGA-HZ-7923-01A-12R-2156-07	314	0	65	MALE	G2	Stage IIA	T3	MX	N0	39.76472	Tumor
TCGA-H8-A6C1-01A-11R-A32O-07	671	0	53	MALE	G2	Stage IIA	T3	MX	N0	114.8778	Tumor
TCGA-US-A77G-01A-11R-A32O-07	12	1	64	MALE	G2	Stage IIB	T3	MX	N1	187.3444	Tumor
TCGA-3A-A9IC-01A-11R-A38C-07	738	1	61	FEMALE	G2	Stage IIB	T3	MX	N1	94.19425	Tumor
TCGA-IB-A5ST-01A-11R-A32O-07	635	0	64	FEMALE	G2	Stage IIB	T3	M0	N1	35.36733	Tumor
TCGA-HZ-8637-01A-11R-2404-07	517	1	76	FEMALE	G3	Stage IIB	T3	MX	N1	11.31888	Tumor
TCGA-IB-AAUW-01A-12R-A38C-07	230	1	63	FEMALE	G3	Stage IIB	T3	M0	N1	76.33277	Tumor
TCGA-3A-A9I9-01A-11R-A38C-07	634	1	67	MALE	G2	Stage IIA	T3	MX	N0	40.46128	Tumor
TCGA-2J-AABR-01A-11R-A41B-07	438	0	60	FEMALE	G3	Stage IIA	T3	M0	N0	99.86989	Tumor
TCGA-H6-A45N-11A-12R-A26U-07	397	1	88	FEMALE	G3	Stage IIB	T3	MX	N1	0.1076535	Normal
TCGA-H6-A45N-01A-11R-A26U-07	397	1	88	FEMALE	G3	Stage IIB	T3	MX	N1	95.6977	Tumor
TCGA-FB-AAQ3-01A-11R-A41B-07	31	1	65	FEMALE	G2	Stage IIB	T3	MX	N1	70.97887	Tumor
TCGA-HV-AA8X-01A-11R-A39D-07	532	1	75	FEMALE	G2	Stage IIB	T2	MX	N1	171.0373	Tumor
TCGA-IB-8126-01A-11R-2404-07	75	0	79	FEMALE	G1	Stage III	T4	M0	N1	25.2237	Tumor
TCGA-HV-A7OP-01A-11R-A33R-07	978	0	72	MALE	GX	Stage IIB	T3	M0	N1	62.72917	Tumor
TCGA-HZ-A8P0-01A-11R-A36G-07	0	0	76	MALE	G1	Stage IIB	T3	MX	N1	70.39265	Tumor
TCGA-F2-6879-01A-11R-2156-07	334	1	57	MALE	G2	Stage IIB	T3	M0	N1	67.21358	Tumor
TCGA-S4-A8RO-01A-12R-A37L-07	525	0	75	FEMALE	G2	Stage IIB	T3	MX	N1	63.51164	Tumor
TCGA-HZ-A49H-01A-11R-A26U-07	491	0	68	FEMALE	G2	Stage IIB	T3	MX	N1	55.06249	Tumor
TCGA-L1-A7W4-01A-12R-A36G-07	278	1	48	FEMALE	G3	Stage IIB	T3	M0	N1	69.69188	Tumor
TCGA-RL-AAAS-01A-32R-A39D-07	9	0	60	FEMALE	G2	Stage IB	T2	M0	N0	55.25857	Tumor
TCGA-XN-A8T3-01A-11R-A36G-07	951	0	67	MALE	G2	Stage IB	T2	M0	N0	58.62657	Tumor
TCGA-IB-AAUN-01A-12R-A38C-07	144	1	74	FEMALE	G2	Stage IB	T2	M0	N0	53.90334	Tumor
TCGA-HZ-8005-01A-11R-2204-07	120	1	81	MALE	G3	Stage IIB	T3	MX	N1	7.567889	Tumor
TCGA-XD-AAUL-01A-21R-A39D-07	405	0	56	MALE	G2	Stage IIA	T3	MX	N0	54.52769	Tumor

TCGA-IB-AAUP-01A-11R-A37L-07	431	0	68	MALE	G2	Stage IIB	T3	M0	N1	35.93006	Tumor
TCGA-HV-A5A6-01A-11R-A26U-07	2036	1	65	FEMALE	G1	Stage IIB	T3	M0	N1b	88.679	Tumor
TCGA-HZ-8519-01A-11R-2404-07	454	0	73	MALE	G3	Stage IA	T1	MX	N0	38.76402	Tumor
TCGA-IB-7885-01A-11R-2156-07	977	0	78	FEMALE	G2	Stage IIB	T3	M0	N1	49.67984	Tumor
TCGA-2L-AAQL-01A-11R-A38C-07	292	1	82	MALE	G3	Stage IIB	T3	MX	N1	270.6472	Tumor
TCGA-IB-AAUT-01A-11R-A37L-07	287	0	65	MALE	G1	Stage IIB	T2	M0	N1	79.1538	Tumor
TCGA-IB-7644-01A-11R-2156-07	394	1	65	FEMALE	G2	Stage IV	T3	M1	N1	115.4936	Tumor
TCGA-IB-7889-01A-11R-2156-07	481	1	85	FEMALE	G1	Stage IIB	T3	M0	N1	78.65208	Tumor
TCGA-2J-AAB1-01A-11R-A41B-07	66	1	65	MALE	G3	Stage IIB	T3	M0	N1	97.30511	Tumor
TCGA-HZ-7919-01A-11R-2156-07	593	1	52	FEMALE	G2	Stage IIB	T3	M0	N1	111.1395	Tumor

Table S2: The detailed information of miR-1224-5p expression data and corresponding clinicopathological information based on TCGA database.

ID	type	futime	fustat	age	gender	grade	stage	T	M	N	hsa-mir-1224-5p
TCGA-HZ-A77P-01A-11R-A343-13	Tumor	330	0	77	MALE	G1	Stage IIB	T3	MX	N1	32.76310662
TCGA-IB-AAUR-01A-21R-A38N-13	Tumor	338	0	67	MALE	G1	Stage IIB	T3	M0	N1	62.17552459
TCGA-3A-A9IV-01A-11R-A41G-13	Tumor	1103	0	59	FEMALE	G1	Stage IB	T2	MX	N0	442.4620777
TCGA-2J-AABH-01A-21R-A41G-13	Tumor	677	0	61	MALE	G3	Stage IIA	T3	M0	N0	65.77365008
TCGA-F2-A44H-01A-11R-A26Y-13	Tumor	586	0	65	MALE	G2	Stage IIA	T3	M0	N0	26.06849884
TCGA-HZ-7924-01A-11R-2155-13	Tumor	840	0	60	FEMALE	G2	Stage IIA	T3	MX	N0	23.1886151
TCGA-HZ-A49G-01A-11R-A26Y-13	Tumor	660	0	58	FEMALE	G2	Stage IIB	T2	MX	N1	20.37745301
TCGA-FB-AAQ2-01A-31R-A41G-13	Tumor	153	1	81	FEMALE	G3	Stage IIB	T3	MX	N1	156.9003602
TCGA-2L-AAQE-01A-11R-A39J-13	Tumor	684	1	56	MALE	G2	Stage IIB	T3	M0	N1	7.606675925
TCGA-IB-AAUM-01A-11R-A37H-13	Tumor	8	0	76	MALE	G3	Stage IIB	T2	M0	N1	22.56214128
TCGA-HZ-A49I-01A-12R-A26Y-13	Tumor	308	1	77	MALE	G2	Stage IIB	T3	MX	N1	25.65736803
TCGA-FB-A4P6-01A-12R-A26Y-13	Tumor	363	0	54	MALE	G1	Stage IIB	T3	MX	N1	25.61500915
TCGA-3A-A9IO-01A-11R-A38N-13	Tumor	1942	0	55	MALE	G1	unknow	TX	MX	NX	475.4023008
TCGA-YB-A89D-11A-11R-A36B-13	Normal	350	0	59	MALE	G2	Stage IIB	T3	MX	N1	3.652432814
TCGA-YB-A89D-01A-12R-A36B-13	Tumor	350	0	59	MALE	G2	Stage IIB	T3	MX	N1	38.99280599

TCGA-HZ-7925-01A-11R-2155-13	Tumor	614	1	66	MALE	G2	Stage IIB	T3	MX	N1	17.662489
TCGA-IB-7654-01A-11R-2155-13	Tumor	476	1	80	MALE	G2	Stage IIB	T2	M0	N1	45.71202425
TCGA-XN-A8T5-01A-12R-A36B-13	Tumor	720	0	53	FEMALE	G2	Stage IB	T2	M0	N0	25.4342006
TCGA-3A-A9IS-01A-21R-A39J-13	Tumor	998	0	67	MALE	G1	Stage IB	T2	MX	N0	699.1848174
TCGA-XD-AAUI-01A-42R-A41G-13	Tumor	366	1	50	FEMALE	G2	Stage IIB	T3	MX	N1	35.64930505
TCGA-HV-A7OL-01A-11R-A343-13	Tumor	252	0	70	MALE	G2	Stage IIA	T3	MX	N0	5.687412532
TCGA-HZ-8002-01A-11R-2203-13	Tumor	366	1	61	MALE	G2	Stage IIB	T3	MX	N1	38.13759766
TCGA-3A-A9IL-01A-11R-A38N-13	Tumor	2741	0	39	FEMALE	G1	Stage I	T1	MX	unknow	1824.777572
TCGA-3A-A9J0-01A-11R-A41G-13	Tumor	743	0	75	MALE	G2	Stage IIB	T3	MX	N1	1.755847557
TCGA-OE-A75W-01A-12R-A32J-13	Tumor	267	1	75	MALE	G1	Stage IIA	T3	M0	N0	3.580929753
TCGA-2J-AABF-01A-31R-A41G-13	Tumor	691	1	73	MALE	G3	Stage IIB	T3	M0	N1	93.59774597
TCGA-FB-AAQ6-01A-11R-A41G-13	Tumor	244	1	85	MALE	G2	Stage IA	T1	MX	N0	29.67256511
TCGA-PZ-A5RE-01A-11R-A32J-13	Tumor	470	1	44	FEMALE	G3	Stage IIB	T3	MX	N1	25.24866203
TCGA-2J-AAB9-01A-11R-A41G-13	Tumor	627	1	70	FEMALE	G1	Stage IIB	T3	M0	N1	27.15552605
TCGA-2L-AAQJ-01A-12R-A39J-13	Tumor	394	1	49	FEMALE	G2	Stage III	T4	MX	N0	10.01179658
TCGA-HZ-A4BH-01A-11R-A26Y-13	Tumor	194	0	75	MALE	G3	Stage IIB	T3	MX	N1b	55.43765962
TCGA-FB-AAPU-01A-31R-A41G-13	Tumor	381	1	41	FEMALE	G2	Stage IIA	T3	MX	N0	29.78536372
TCGA-Z5-AAPL-01A-12R-A41G-13	Tumor	467	0	74	FEMALE	G1	Stage IIA	T3	M0	N0	3.877820543
TCGA-FB-AAPQ-01A-11R-A41G-13	Tumor	1130	1	65	MALE	G2	Stage IIB	T3	MX	N1	106.7057607
TCGA-HZ-A9TJ-06A-11R-A41G-13	Tumor	603	0	70	MALE	G2	Stage IV	T3	M1	N0	406.9982142
TCGA-HZ-A9TJ-01A-11R-A41D-13	Tumor	603	0	70	MALE	G2	Stage IV	T3	M1	N0	15.62877489
TCGA-IB-7897-01A-21R-2203-13	Tumor	486	1	53	FEMALE	G2	Stage IIB	T3	M0	N1	463.6887359
TCGA-3A-A9I5-01A-11R-A38N-13	Tumor	1794	0	57	MALE	G1	unknow	unknow	MX	N0	94.41158242
TCGA-HZ-8315-01A-11R-2401-13	Tumor	299	1	54	FEMALE	G2	Stage IIA	T3	MX	N0	17.16481822
TCGA-HZ-A8P1-01A-11R-A37H-13	Tumor	7	0	81	MALE	G1	Stage IB	T2	MX	N0	15.89850116
TCGA-IB-A7M4-01A-11R-A36B-13	Tumor	483	0	81	MALE	G3	Stage IIB	T3	MX	N1	7.304752452
TCGA-IB-7647-01A-11R-2155-13	Tumor	666	1	41	MALE	G2	Stage IIB	T3	M0	N1	155.4608817
TCGA-FB-AAPZ-01A-11R-A41G-13	Tumor	716	0	54	MALE	G3	Stage IIB	T2	MX	N1	1.776009238
TCGA-RB-AA9M-01A-11R-A39J-13	Tumor	286	0	43	MALE	G3	Stage IIB	T1	MX	N1	98.1945215

TCGA-LB-A8F3-01A-11R-A36B-13	Tumor	379	0	64	FEMALE	G1	Stage IIA	T3	MX	N0	19.7986191
TCGA-IB-A7LX-01A-12R-A36B-13	Tumor	250	1	57	MALE	G2	Stage IIB	T3	MX	N1	1.086869479
TCGA-IB-7888-01A-11R-2155-13	Tumor	1332	1	66	FEMALE	G2	Stage IIA	T3	M0	N0	92.05808476
TCGA-S4-A8RM-01A-11R-A37H-13	Tumor	646	0	67	MALE	G3	Stage IIB	T3	MX	N1	11.67820388
TCGA-FB-AAPS-01A-12R-A39J-13	Tumor	228	0	62	FEMALE	G2	Stage IIB	T2	MX	N1	16.44349448
TCGA-IB-AAUO-01A-12R-A38N-13	Tumor	239	1	64	FEMALE	G3	Stage IIB	T3	M0	N1	23.37748008
TCGA-3A-A9IB-01A-21R-A39J-13	Tumor	224	1	69	FEMALE	G3	Stage IIB	T3	MX	N1	1.994108922
TCGA-FB-AAPP-01A-12R-A41G-13	Tumor	485	1	71	MALE	G3	Stage IIB	T3	MX	N1	9.351879407
TCGA-F2-A7TX-01A-33R-A38N-13	Tumor	95	1	77	MALE	G3	Stage IIB	T3	M0	N1	39.43386
TCGA-Q3-AA2A-01A-11R-A37H-13	Tumor	95	0	64	FEMALE	G1	Stage IB	T3	MX	N1	1.134552664
TCGA-LB-A9Q5-01A-11R-A39J-13	Tumor	313	1	63	FEMALE	G3	Stage IIB	T3	MX	N1	15.29399063
TCGA-XD-AAUH-01A-42R-A41G-13	Tumor	395	0	57	FEMALE	G2	Stage IIB	T3	M0	N1	424.4863232
TCGA-IB-7649-01A-11R-2155-13	Tumor	467	1	73	FEMALE	G2	Stage IIB	T3	M0	N1	36.5404434
TCGA-IB-A5SO-01A-11R-A32J-13	Tumor	365	1	71	MALE	G2	Stage IIB	T3	M0	N1	32.31501901
TCGA-3A-A9IJ-01A-11R-A39J-13	Tumor	1854	0	65	MALE	G1	Stage IB	T2	MX	N0	433.5786064
TCGA-FB-A5VM-01A-11R-A32J-13	Tumor	449	0	74	MALE	G3	Stage IB	T2	M0	N0	43.92675416
TCGA-IB-8127-01A-11R-2401-13	Tumor	522	0	59	MALE	G2	Stage IIB	T3	M0	N1	20.93103208
TCGA-3E-AAAZ-01A-11R-A38N-13	Tumor	2182	1	71	MALE	G2	Stage IIA	T3	MX	N0	7.709191429
TCGA-2J-AABU-01A-11R-A41G-13	Tumor	277	1	56	MALE	G3	Stage IIB	T3	M0	N1	3.938724514
TCGA-HV-AA8V-01A-11R-A41G-13	Tumor	920	0	50	MALE	G3	Stage IIB	T3	MX	N1	22.72282005
TCGA-IB-AAUU-01A-11R-A37H-13	Tumor	245	0	35	MALE	G3	Stage IIB	T3	M0	N1	37.38862827
TCGA-IB-A5SS-01A-11R-A32J-13	Tumor	460	1	64	FEMALE	G3	Stage IIB	T3	M0	N1	11.58885309
TCGA-3A-A9IU-01A-11R-A39J-13	Tumor	458	1	65	MALE	G3	Stage IIB	T3	MX	N1	6.4184147
TCGA-3A-A9IN-01A-11R-A39J-13	Tumor	2084	0	62	FEMALE	G2	Stage IB	T2	MX	NX	304.2062981
TCGA-FB-AAQ0-01A-31R-A41G-13	Tumor	473	1	68	MALE	G3	Stage IIA	T3	MX	N0	8.283885451
TCGA-3A-A9IR-01A-11R-A38N-13	Tumor	1542	0	64	FEMALE	G1	Stage IB	T2	MX	N0	1897.931948
TCGA-IB-7891-01A-11R-2203-13	Tumor	648	0	49	FEMALE	G1	Stage IIB	T3	M0	N1	107.4065439
TCGA-2J-AABI-01A-12R-A41G-13	Tumor	969	0	55	FEMALE	G3	Stage IIA	T3	M0	N0	2.898385547
TCGA-IB-AAUS-01A-12R-A38N-13	Tumor	225	0	84	FEMALE	G2	Stage IIB	T3	M0	N1	11.80310065

TCGA-FB-AAPY-01A-11R-A41G-13	Tumor	1059	1	71	MALE	G2	Stage IIB	T2	MX	N1	37.41610539
TCGA-F2-A44G-01A-11R-A26Y-13	Tumor	233	1	79	FEMALE	G2	Stage IIB	T3	M0	N1	7.324042761
TCGA-HV-A5A3-11A-11R-A26Y-13	Normal	128	1	50	MALE	G2	Stage IIA	T3	MX	NX	2.87776677
TCGA-HV-A5A3-01A-11R-A26Y-13	Tumor	128	1	50	MALE	G2	Stage IIA	T3	MX	NX	1.112321969
TCGA-US-A774-01A-21R-A32J-13	Tumor	695	1	76	FEMALE	G3	Stage IIB	T3	MX	N1	9.051554009
TCGA-IB-A5SP-01A-11R-A32J-13	Tumor	482	0	77	MALE	G2	Stage IIA	T3	M0	N0	21.47387751
TCGA-US-A77E-01A-11R-A32J-13	Tumor	430	1	73	MALE	G3	Stage IIB	T3	MX	N1	8.227604255
TCGA-S4-A8RP-01A-11R-A36B-13	Tumor	702	1	77	FEMALE	G3	Stage IIB	T3	MX	N1	53.84533782
TCGA-M8-A5N4-01A-11R-A26Y-13	Tumor	584	0	48	FEMALE	G2	Stage IIA	T3	M0	N0	0.159360861
TCGA-HZ-8001-01A-11R-2203-13	Tumor	706	0	69	MALE	G2	Stage III	T4	MX	N0	201.5132524
TCGA-3A-A9I7-01A-21R-A38N-13	Tumor	1323	0	45	MALE	G2	Stage IIB	T3	MX	N1	19.91229484
TCGA-F2-A8YN-01A-11R-A37H-13	Tumor	517	0	76	MALE	G2	Stage IIA	T3	M0	N0	0.26155392
TCGA-IB-7645-01A-22R-2203-13	Tumor	1502	1	44	FEMALE	G1	Stage IIB	T3	M0	N1	101.4400015
TCGA-IB-7890-01A-12R-2203-13	Tumor	598	1	73	MALE	G3	Stage IB	T2	M0	N0	125.2109427
TCGA-FB-A4P5-01A-11R-A26Y-13	Tumor	179	1	69	FEMALE	G2	Stage IIB	T3	MX	N1	52.68652491
TCGA-HZ-7926-01A-11R-2155-13	Tumor	518	1	57	MALE	G1	Stage IIB	T3	MX	N1	3.631245494
TCGA-IB-A6UF-01A-23R-A343-13	Tumor	666	0	63	MALE	G2	Stage IIB	T3	M0	N1	7.048796042
TCGA-HZ-7918-01A-11R-2155-13	Tumor	969	0	72	MALE	G3	Stage IIB	T3	M0	N1	70.05613169
TCGA-3A-A9IH-01A-12R-A39J-13	Tumor	1021	0	66	FEMALE	G2	Stage IA	T1	MX	N0	67.20461692
TCGA-FB-A78T-01A-12R-A32J-13	Tumor	375	1	71	FEMALE	G2	Stage IIB	T3	M0	N1	7.041383316
TCGA-2L-AAQA-01A-21R-A38N-13	Tumor	143	1	76	MALE	G2	Stage IIB	T3	MX	N1	4.70092433
TCGA-2J-AABE-01A-12R-A41G-13	Tumor	676	0	73	MALE	G2	Stage IIA	T3	M0	N0	17.46766661
TCGA-2L-AAQI-01A-12R-A39J-13	Tumor	103	1	66	MALE	G3	Stage IIB	T3	MX	N1	66.03490126
TCGA-IB-7651-01A-11R-2155-13	Tumor	603	1	64	FEMALE	G2	Stage IIB	T3	M0	N1	21.58851091
TCGA-3A-A9IX-01A-11R-A41G-13	Tumor	1037	0	40	MALE	G2	Stage IA	T1	MX	N0	61.38682471
TCGA-F2-7273-01A-11R-2155-13	Tumor	360	0	54	MALE	G3	Stage IIB	T3	M0	N1	93.92667308
TCGA-2J-AAB8-01A-12R-A41G-13	Tumor	80	0	71	MALE	G3	Stage IIB	T3	M0	N1	0
TCGA-HZ-8636-01A-21R-2401-13	Tumor	545	1	58	FEMALE	G3	Stage IV	T3	M1	N0	65.40130108
TCGA-YH-A8SY-01A-11R-A37H-13	Tumor	388	0	73	FEMALE	G2	unknow	T3	MX	N1	4.195411419

TCGA-F2-6880-01A-11R-2155-13	Tumor	295	0	70	MALE	G1	Stage IIB	T3	M0	N1	42.6357857
TCGA-2J-AABO-01A-21R-A41G-13	Tumor	440	0	43	MALE	G2	Stage IIB	T3	M0	N1	63.02489942
TCGA-IB-A6UG-01A-32R-A343-13	Tumor	41	1	65	MALE	G3	Stage IIB	T3	M0	N1	7.588677638
TCGA-US-A779-01A-11R-A32J-13	Tumor	511	1	54	FEMALE	G1	Stage IIB	T3	MX	N1b	26.15082727
TCGA-HZ-7920-01A-11R-2203-13	Tumor	236	1	71	MALE	G2	Stage IB	T2	MX	N0	275.3167624
TCGA-FB-A545-01A-11R-A26Y-13	Tumor	385	0	72	FEMALE	G2	Stage IIB	T3	M0	N1	4.095693166
TCGA-LB-A7SX-01A-11R-A343-13	Tumor	393	1	74	FEMALE	G2	Stage IIB	T3	MX	N1	10.76353479
TCGA-HV-A5A5-01A-11R-A26Y-13	Tumor	289	0	61	FEMALE	G2	Stage IIB	T3	M0	N1	75.07800153
TCGA-HZ-8003-01A-21R-2203-13	Tumor	596	1	65	FEMALE	G2	Stage IIB	T3	MX	N1	172.0377779
TCGA-IB-AAUQ-01A-22R-A41D-13	Tumor	183	1	50	MALE	G2	Stage IIB	T3	M0	N1	77.47944347
TCGA-FB-AAQ1-01A-12R-A41G-13	Tumor	123	1	49	MALE	G2	Stage IIB	T3	MX	N1	10.71618244
TCGA-HZ-8317-01A-11R-2401-13	Tumor	378	1	69	FEMALE	G1	Stage IIB	T3	MX	N1	2.632015618
TCGA-2J-AABA-01A-21R-A41G-13	Tumor	607	1	55	MALE	G2	Stage IIB	T3	M0	N1	3.050547823
TCGA-2J-AABV-01A-12R-A41G-13	Tumor	652	1	74	MALE	G4	Stage IIB	T3	M0	N1	25.13839381
TCGA-2L-AAQM-01A-11R-A39J-13	Tumor	1383	0	52	MALE	G1	Stage IIB	T3	MX	N1	193.2557644
TCGA-H6-8124-11A-01R-2401-13	Normal	392	0	56	FEMALE	G3	Stage IIB	T3	M0	N1	40.75117565
TCGA-H6-8124-01A-11R-2401-13	Tumor	392	0	56	FEMALE	G3	Stage IIB	T3	M0	N1	52.31719164
TCGA-XD-AAUG-01A-61R-A41G-13	Tumor	420	0	66	FEMALE	G2	Stage IV	T3	M1	N1	154.1283284
TCGA-IB-7887-01A-11R-2155-13	Tumor	110	1	62	FEMALE	G2	Stage IIB	T3	M0	N1	20.83799384
TCGA-IB-7652-01A-11R-2155-13	Tumor	724	0	49	FEMALE	G2	Stage IIB	T3	M0	N1	71.16158737
TCGA-IB-A5SQ-01A-11R-A32J-13	Tumor	219	1	56	FEMALE	G2	Stage IB	T2	M0	N0	296.2934841
TCGA-F2-7276-01A-11R-2155-13	Tumor	216	1	64	MALE	G1	Stage IIB	T3	M0	N1	95.48013274
TCGA-HZ-A4BK-01A-11R-A26Y-13	Tumor	657	0	72	MALE	G3	Stage IIB	T3	MX	N1	7.813179702
TCGA-3A-A9IZ-01A-12R-A41G-13	Tumor	308	1	47	MALE	G2	Stage IIB	T3	MX	N1	3.091420625
TCGA-IB-7886-01A-11R-2155-13	Tumor	123	1	80	MALE	G3	Stage IIB	T3	M0	N1	0.07946156
TCGA-IB-AAUV-01A-11R-A38N-13	Tumor	404	0	49	MALE	G2	Stage IIB	T3	M0	N1	106.4366254
TCGA-2J-AAB4-01A-12R-A41G-13	Tumor	729	0	48	MALE	G2	Stage IIB	T2	M0	N1	44.23230249
TCGA-US-A77J-01A-11R-A32J-13	Tumor	568	1	81	FEMALE	G2	Stage IIB	T3	MX	N1b	38.84958533
TCGA-Q3-A5QY-01A-12R-A32J-13	Tumor	416	0	58	MALE	G2	Stage IIB	T3	MX	N1	1.869533751

TCGA-IB-7646-01A-11R-2155-13	Tumor	145	1	60	MALE	G2	Stage IIB	T3	M0	N1	89.09362125
TCGA-HZ-A77O-01A-11R-A343-13	Tumor	160	1	77	FEMALE	G2	Stage IIB	T2	MX	N1	10.34350978
TCGA-2J-AABK-01A-31R-A41G-13	Tumor	484	0	71	MALE	G2	Stage IIB	T3	M0	N1	165.4771755
TCGA-HV-A5A4-01A-11R-A26Y-13	Tumor	232	0	72	FEMALE	G2	Stage IIA	T3	MX	N0	38.31996552
TCGA-2J-AAB6-01A-11R-A41G-13	Tumor	293	1	75	MALE	G2	Stage IIA	T3	M0	N0	96.36551465
TCGA-2J-AABT-01A-11R-A41G-13	Tumor	319	0	72	FEMALE	G2	Stage IIB	T3	M0	N1	1.894689861
TCGA-HZ-A77Q-01A-11R-A36B-13	Tumor	33	0	55	FEMALE	G2	Stage IIB	T3	MX	N1	0
TCGA-IB-7893-01A-11R-2203-13	Tumor	117	1	64	MALE	G3	Stage IIA	T3	M0	N0	5.76678286
TCGA-3E-AAAY-01A-11R-A38N-13	Tumor	2285	0	67	MALE	G3	Stage IIB	T3	MX	N1	111.4851074
TCGA-HZ-7922-01A-11R-2155-13	Tumor	4	0	61	FEMALE	G1	Stage IIB	T3	MX	N1	30.07561128
TCGA-RB-A7B8-01A-12R-A343-13	Tumor	466	1	81	FEMALE	G2	Stage IIB	T3	MX	N1	17.80622082
TCGA-HZ-7289-01A-11R-2155-13	Tumor	661	1	77	MALE	G1	Stage IIB	T3	MX	N1	4.714740951
TCGA-YY-A8LH-01A-11R-A36B-13	Tumor	2016	0	61	FEMALE	G3	Stage IIB	T3	MX	N1	33.98734499
TCGA-HZ-7923-01A-12R-2155-13	Tumor	314	0	65	MALE	G2	Stage IIA	T3	MX	N0	222.4393272
TCGA-H8-A6C1-01A-11R-A32J-13	Tumor	671	0	53	MALE	G2	Stage IIA	T3	MX	N0	11.59316234
TCGA-US-A77G-01A-11R-A32J-13	Tumor	12	1	64	MALE	G2	Stage IIB	T3	MX	N1	16.4509393
TCGA-3A-A9IC-01A-11R-A38N-13	Tumor	738	1	61	FEMALE	G2	Stage IIB	T3	MX	N1	2.867112294
TCGA-IB-A5ST-01A-11R-A32J-13	Tumor	635	0	64	FEMALE	G2	Stage IIB	T3	M0	N1	0.190914996
TCGA-HZ-8637-01A-11R-2401-13	Tumor	517	1	76	FEMALE	G3	Stage IIB	T3	MX	N1	115.518263
TCGA-IB-AAUW-01A-12R-A38N-13	Tumor	230	1	63	FEMALE	G3	Stage IIB	T3	M0	N1	49.18799731
TCGA-3A-A9I9-01A-11R-A38N-13	Tumor	634	1	67	MALE	G2	Stage IIA	T3	MX	N0	44.89528082
TCGA-2J-AABR-01A-11R-A41G-13	Tumor	438	0	60	FEMALE	G3	Stage IIA	T3	M0	N0	30.56141583
TCGA-H6-A45N-11A-12R-A26Y-13	Normal	397	1	88	FEMALE	G3	Stage IIB	T3	MX	N1	1.876272423
TCGA-H6-A45N-01A-11R-A26Y-13	Tumor	397	1	88	FEMALE	G3	Stage IIB	T3	MX	N1	118.167628
TCGA-FB-AAQ3-01A-11R-A41G-13	Tumor	31	1	65	FEMALE	G2	Stage IIB	T3	MX	N1	6.838530698
TCGA-HV-AA8X-01A-11R-A39J-13	Tumor	532	1	75	FEMALE	G2	Stage IIB	T2	MX	N1	22.83917398
TCGA-IB-8126-01A-11R-2401-13	Tumor	75	0	79	FEMALE	G1	Stage III	T4	M0	N1	75.64812233
TCGA-HV-A7OP-01A-11R-A343-13	Tumor	978	0	72	MALE	GX	Stage IIB	T3	M0	N1	0.6182208
TCGA-HZ-A8P0-01A-11R-A36B-13	Tumor	0	0	76	MALE	G1	Stage IIB	T3	MX	N1	3.356893582

TCGA-F2-6879-01A-11R-2155-13	Tumor	334	1	57	MALE	G2	Stage IIB	T3	M0	N1	0.053554754
TCGA-S4-A8RO-01A-12R-A37H-13	Tumor	525	0	75	FEMALE	G2	Stage IIB	T3	MX	N1	33.26173683
TCGA-HZ-A49H-01A-11R-A26Y-13	Tumor	491	0	68	FEMALE	G2	Stage IIB	T3	MX	N1	107.0221726
TCGA-L1-A7W4-01A-12R-A36B-13	Tumor	278	1	48	FEMALE	G3	Stage IIB	T3	M0	N1	6.014223619
TCGA-RL-AAAS-01A-32R-A39J-13	Tumor	9	0	60	FEMALE	G2	Stage IB	T2	M0	N0	21.86859673
TCGA-XN-A8T3-01A-11R-A36B-13	Tumor	951	0	67	MALE	G2	Stage IB	T2	M0	N0	29.00348464
TCGA-IB-AAUN-01A-12R-A38N-13	Tumor	144	1	74	FEMALE	G2	Stage IB	T2	M0	N0	14.65159655
TCGA-HZ-8005-01A-11R-2203-13	Tumor	120	1	81	MALE	G3	Stage IIB	T3	MX	N1	6.846537121
TCGA-XD-AAUL-01A-21R-A39J-13	Tumor	405	0	56	MALE	G2	Stage IIA	T3	MX	N0	14.8361253
TCGA-IB-AAUP-01A-11R-A37H-13	Tumor	431	0	68	MALE	G2	Stage IIB	T3	M0	N1	19.00369786
TCGA-HV-A5A6-01A-11R-A26Y-13	Tumor	2036	1	65	FEMALE	G1	Stage IIB	T3	M0	N1b	4.600067946
TCGA-HZ-8519-01A-11R-2401-13	Tumor	454	0	73	MALE	G3	Stage IA	T1	MX	N0	1135.338822
TCGA-IB-7885-01A-11R-2155-13	Tumor	977	0	78	FEMALE	G2	Stage IIB	T3	M0	N1	6.88537977
TCGA-2L-AAQL-01A-11R-A38N-13	Tumor	292	1	82	MALE	G3	Stage IIB	T3	MX	N1	139.7052267
TCGA-IB-7644-01A-11R-2155-13	Tumor	394	1	65	FEMALE	G2	Stage IV	T3	M1	N1	7.146087401
TCGA-IB-7889-01A-11R-2155-13	Tumor	481	1	85	FEMALE	G1	Stage IIB	T3	M0	N1	29.13933408
TCGA-HZ-7919-01A-11R-2155-13	Tumor	593	1	52	FEMALE	G2	Stage IIB	T3	M0	N1	59.13370885

Table S3: The detailed information of primary antibodies used in this study.

Antibody	Source	Catalog
P-PI3K	Absin	abs130868
PI3K	Cell Signaling Technology	4257T
AKT	Cell Signaling Technology	4685S
P-AKT	Cell Signaling Technology	4060T
HES1	Cell Signaling Technology	11988S
ELF3	Invitrogen	PA5-89261
SNAIL	Invitrogen	MA5-14801
SLUG	Invitrogen	MA5-26385

GAPDH	Proteintech	60004-1-Ig
Beta Actin Antibody	Proteintech	60008-1-Ig
E-Cadherin	Proteintech	20874-1-AP
N-Cadherin	Proteintech	22018-1-AP
NOTCH1	Proteintech	20687-1-AP
C-MYC	Proteintech	10828-1-AP
Vimentin	Servicebio	GB12192
MMP9	Servicebio	GB12132
VEGFA	Wanleibio	WL00009b
Cyclin D1	Wanleibio	WL01435a

Table S4: The detailed RT-PCR primers' sequences used in this study.

Target	Application	Sequence
ELF3	qRT-PCR	F:ATGGTTTTCGTGAAGCAAGAA
		R:CAGTACTCTTTGCTCAGCTTTC
hsa-mir-1224-5p	qRT-PCR	F:CGCGGTGAGGACTCGGG
		R:AGTGCAGGGTCCGAGGTATT
		RT Primer:GTCGTATCCAGTGCAGGGTCCGAGGTATTCGCACTGGATACGACCCACCT
GAPDH	qRT-PCR	F:ACAACCTTTGGTATCGTGGAAGG
		R:GCCATCACGCCACAGTTTC
U6	qRT-PCR	F:CGCTTCGGCAGCACATATAC
		R:TTCACGAATTTGCGTGTCATC

Table S5: The raw data of correlation analysis between ELF3 and miR-1224-5p.

	ID	ELF3	mir-1224-5P
1	TCGA-HZ-A77P-01A-11R-A33R-07	5.04073	5.034000256

2	TCGA-IB-AAUR-01A-21R-A38C-07	5.26829	5.95827487
3	TCGA-3A-A9IV-01A-11R-A41B-07	4.28066	8.789410001
4	TCGA-2J-AABH-01A-21R-A41B-07	6.39566	6.039437829
5	TCGA-F2-A44H-01A-11R-A26U-07	5.03594	4.704235602
6	TCGA-HZ-7924-01A-11R-2156-07	5.89862	4.535344755
7	TCGA-HZ-A49G-01A-11R-A26U-07	6.38707	4.348901834
8	TCGA-FB-AAQ2-01A-31R-A41B-07	5.34792	7.293704854
9	TCGA-2L-AAQE-01A-11R-A39D-07	6.88892	2.927266142
10	TCGA-IB-AAUM-01A-11R-A37L-07	5.29242	4.495832089
11	TCGA-HZ-A49I-01A-12R-A26U-07	7.29693	4.681301279
12	TCGA-FB-A4P6-01A-12R-A26U-07	6.39307	4.678917502
13	TCGA-3A-A9IO-01A-11R-A38C-07	1.41604	8.893005075
14	TCGA-YB-A89D-01A-12R-A36G-07	6.33975	5.285136072
15	TCGA-HZ-7925-01A-11R-2156-07	5.94418	4.142616757
16	TCGA-IB-7654-01A-11R-2156-07	4.83439	5.514501802
17	TCGA-XN-A8T5-01A-12R-A36G-07	4.11767	4.668697846
18	TCGA-3A-A9IS-01A-21R-A39D-07	2.31495	9.449530047
19	TCGA-XD-AAUI-01A-42R-A41B-07	6.00176	5.155802048
20	TCGA-HV-A7OL-01A-11R-A33R-07	6.98612	2.507772453
21	TCGA-HZ-8002-01A-11R-2204-07	5.48167	5.253142064
22	TCGA-3A-A9IL-01A-11R-A38C-07	3.10099	10.8335049
23	TCGA-3A-A9J0-01A-11R-A41B-07	6.12148	0.812167595
24	TCGA-OE-A75W-01A-12R-A32O-07	7.04735	1.840334218
25	TCGA-2J-AABF-01A-31R-A41B-07	6.47112	6.548401882
26	TCGA-FB-AAQ6-01A-11R-A41B-07	7.24663	4.891057744
27	TCGA-PZ-A5RE-01A-11R-A32O-07	6.78591	4.658135034
28	TCGA-2J-AAB9-01A-11R-A41B-07	5.43092	4.763173906
29	TCGA-2L-AAQJ-01A-12R-A39D-07	6.73277	3.323628979
30	TCGA-HZ-A4BH-01A-11R-A26U-07	6.12794	5.792794448

31	TCGA-FB-AAPU-01A-31R-A41B-07	7.80335	4.896531671
32	TCGA-Z5-AAPL-01A-12R-A41B-07	4.92167	1.95524604
33	TCGA-FB-AAPQ-01A-11R-A41B-07	7.02349	6.737494254
34	TCGA-HZ-A9TJ-06A-11R-A41B-07	7.23964	8.668878654
35	TCGA-HZ-A9TJ-06A-11R-A41B-07	7.23964	3.966132788
36	TCGA-HZ-A9TJ-01A-11R-A41I-07	7.36387	8.668878654
37	TCGA-HZ-A9TJ-01A-11R-A41I-07	7.36387	3.966132788
38	TCGA-IB-7897-01A-21R-2204-07	3.52981	8.85701287
39	TCGA-3A-A9I5-01A-11R-A38C-07	6.02263	6.560891955
40	TCGA-HZ-8315-01A-11R-2404-07	6.86766	4.101382674
41	TCGA-HZ-A8P1-01A-11R-A37L-07	7.32176	3.990818856
42	TCGA-IB-A7M4-01A-11R-A36G-07	5.83366	2.868835383
43	TCGA-FB-AAPZ-01A-11R-A41B-07	6.89316	0.828639086
44	TCGA-RB-AA9M-01A-11R-A39D-07	6.78278	6.61757063
45	TCGA-LB-A8F3-01A-11R-A36G-07	7.00755	4.307327905
46	TCGA-IB-A7LX-01A-12R-A36G-07	6.79178	0.120178699
47	TCGA-IB-7888-01A-11R-2156-07	5.37504	6.524472523
48	TCGA-S4-A8RM-01A-11R-A37L-07	7.95711	3.545746498
49	TCGA-FB-AAPS-01A-12R-A39D-07	3.99264	4.03944502
50	TCGA-IB-AAUO-01A-12R-A38C-07	6.03329	4.547047521
51	TCGA-3A-A9IB-01A-21R-A39D-07	5.72785	0.995744215
52	TCGA-FB-AAPP-01A-12R-A41B-07	6.67036	3.225256326
53	TCGA-F2-A7TX-01A-33R-A38C-07	5.12207	5.301363031
54	TCGA-Q3-AA2A-01A-11R-A37L-07	7.31201	0.182123578
55	TCGA-LB-A9Q5-01A-11R-A39D-07	4.73834	3.93489299
56	TCGA-XD-AAUH-01A-42R-A41B-07	4.84147	8.729574261
57	TCGA-IB-7649-01A-11R-2156-07	5.38705	5.191422235
58	TCGA-IB-A5SO-01A-11R-A32O-07	6.2833	5.014132935
59	TCGA-3A-A9IJ-01A-11R-A39D-07	1.41199	8.760149763

60	TCGA-FB-A5VM-01A-11R-A32O-07	5.4024	5.457027994
61	TCGA-IB-8127-01A-11R-2404-07	6.16046	4.387571546
62	TCGA-3E-AAAZ-01A-11R-A38C-07	6.47896	2.946579552
63	TCGA-2J-AABU-01A-11R-A41B-07	5.04297	1.977728514
64	TCGA-HV-AA8V-01A-11R-A41B-07	5.40135	4.506069989
65	TCGA-IB-AAUU-01A-11R-A37L-07	7.20226	5.224527637
66	TCGA-IB-A5SS-01A-11R-A32O-07	5.6278	3.53466589
67	TCGA-3A-A9IU-01A-11R-A39D-07	7.0979	2.682217007
68	TCGA-3A-A9IN-01A-11R-A39D-07	2.54495	8.248906212
69	TCGA-FB-AAQ0-01A-31R-A41B-07	7.67446	3.050307604
70	TCGA-3A-A9IR-01A-11R-A38C-07	3.7097	10.89021255
71	TCGA-IB-7891-01A-11R-2204-07	5.97761	6.746938084
72	TCGA-2J-AABI-01A-12R-A41B-07	4.41408	1.535249517
73	TCGA-IB-AAUS-01A-12R-A38C-07	4.76141	3.561093997
74	TCGA-FB-AAPY-01A-11R-A41B-07	6.40065	5.225587492
75	TCGA-F2-A44G-01A-11R-A26U-07	6.3	2.872640214
76	TCGA-HV-A5A3-01A-11R-A26U-07	7.36002	0.153574446
77	TCGA-US-A774-01A-21R-A32O-07	5.8416	3.178165501
78	TCGA-IB-A5SP-01A-11R-A32O-07	6.95056	4.424510815
79	TCGA-US-A77E-01A-11R-A32O-07	6.73448	3.040472402
80	TCGA-S4-A8RP-01A-11R-A36G-07	6.88839	5.75074953
81	TCGA-M8-A5N4-01A-11R-A26U-07	5.77032	-2.649630748
82	TCGA-HZ-8001-01A-11R-2204-07	4.67253	7.65473091
83	TCGA-3A-A9I7-01A-21R-A38C-07	5.25298	4.315587592
84	TCGA-F2-A8YN-01A-11R-A37L-07	6.15503	-1.934819703
85	TCGA-IB-7645-01A-22R-2204-07	5.74447	6.664482862
86	TCGA-IB-7890-01A-12R-2204-07	4.03401	6.968216841
87	TCGA-FB-A4P5-01A-11R-A26U-07	4.70567	5.719362121
88	TCGA-HZ-7926-01A-11R-2156-07	6.47668	1.860464468

89	TCGA-IB-A6UF-01A-23R-A33R-07	6.61687	2.817376861
90	TCGA-HZ-7918-01A-11R-2156-07	5.10573	6.130439424
91	TCGA-3A-A9IH-01A-12R-A39D-07	6.46218	6.070488444
92	TCGA-FB-A78T-01A-12R-A32O-07	7.77418	2.815858882
93	TCGA-2L-AAQA-01A-21R-A38C-07	7.80834	2.232944458
94	TCGA-2J-AABE-01A-12R-A41B-07	6.97055	4.126614996
95	TCGA-2L-AAQI-01A-12R-A39D-07	6.82643	6.045156825
96	TCGA-IB-7651-01A-11R-2156-07	4.36694	4.43219183
97	TCGA-3A-A9IX-01A-11R-A41B-07	5.58041	5.939857142
98	TCGA-F2-7273-01A-11R-2156-07	5.65589	6.553463004
99	TCGA-2J-AAB8-01A-12R-A41B-07	6.64841	0
100	TCGA-HZ-8636-01A-21R-2404-07	5.41311	6.031247432
101	TCGA-YH-A8SY-01A-11R-A37L-07	5.96899	2.068812294
102	TCGA-F2-6880-01A-11R-2156-07	2.83058	5.413992938
103	TCGA-2J-AABO-01A-21R-A41B-07	5.69242	5.977850006
104	TCGA-IB-A6UG-01A-32R-A33R-07	6.27534	2.923848511
105	TCGA-US-A779-01A-11R-A32O-07	6.79228	4.708784681
106	TCGA-HZ-7920-01A-11R-2204-07	4.33974	8.10494864
107	TCGA-FB-A545-01A-11R-A26U-07	6.53985	2.034107638
108	TCGA-LB-A7SX-01A-11R-A33R-07	7.67731	3.428080038
109	TCGA-HV-A5A5-01A-11R-A26U-07	6.1839	6.230318343
110	TCGA-HZ-8003-01A-21R-2204-07	3.62808	7.426581592
111	TCGA-IB-AAUQ-01A-22R-A41I-07	6.05189	6.275741686
112	TCGA-FB-AAQ1-01A-12R-A41B-07	6.45077	3.421719143
113	TCGA-HZ-8317-01A-11R-2404-07	5.5916	1.39616805
114	TCGA-2J-AABA-01A-21R-A41B-07	6.38648	1.609068348
115	TCGA-2J-AABV-01A-12R-A41B-07	4.11018	4.651820568
116	TCGA-2L-AAQM-01A-11R-A39D-07	5.74097	7.594367637
117	TCGA-H6-8124-01A-11R-2404-07	6.16553	5.709213195

118	TCGA-XD-AAUG-01A-61R-A41B-07	4.81884	7.26798824
119	TCGA-IB-7887-01A-11R-2156-07	5.64406	4.381144485
120	TCGA-IB-7652-01A-11R-2156-07	6.54784	6.153026787
121	TCGA-IB-A5SQ-01A-11R-A32O-07	4.17174	8.21088309
122	TCGA-F2-7276-01A-11R-2156-07	5.52679	6.577128667
123	TCGA-HZ-A4BK-01A-11R-A26U-07	6.51416	2.965909796
124	TCGA-3A-A9IZ-01A-12R-A41B-07	6.68886	1.628269964
125	TCGA-IB-7886-01A-11R-2156-07	6.99983	-3.653599073
126	TCGA-IB-AAUV-01A-11R-A38C-07	2.79126	6.733850865
127	TCGA-2J-AAB4-01A-12R-A41B-07	7.05778	5.467028438
128	TCGA-US-A77J-01A-11R-A32O-07	6.05543	5.279827295
129	TCGA-Q3-A5QY-01A-12R-A32O-07	4.31793	0.902678517
130	TCGA-IB-7646-01A-11R-2156-07	5.62652	6.477250239
131	TCGA-HZ-A77O-01A-11R-A33R-07	4.96053	3.370653902
132	TCGA-2J-AABK-01A-31R-A41B-07	7.44485	7.370488428
133	TCGA-HV-A5A4-01A-11R-A26U-07	7.55433	5.260024358
134	TCGA-2J-AAB6-01A-11R-A41B-07	5.60865	6.590445051
135	TCGA-2J-AABT-01A-11R-A41B-07	5.46729	0.921961715
136	TCGA-HZ-A77Q-01A-11R-A36G-07	5.85215	0
137	TCGA-IB-7893-01A-11R-2204-07	4.0224	2.527766701
138	TCGA-3E-AAAY-01A-11R-A38C-07	6.60355	6.800707192
139	TCGA-HZ-7922-01A-11R-2156-07	5.47446	4.910522155
140	TCGA-RB-A7B8-01A-12R-A33R-07	6.6652	4.154309447
141	TCGA-HZ-7289-01A-11R-2156-07	6.23684	2.237178505
142	TCGA-YY-A8LH-01A-11R-A36G-07	7.70003	5.086925761
143	TCGA-HZ-7923-01A-12R-2156-07	5.31342	7.797268068
144	TCGA-H8-A6C1-01A-11R-A32O-07	6.84396	3.535202248
145	TCGA-US-A77G-01A-11R-A32O-07	7.54955	4.040098055
146	TCGA-3A-A9IC-01A-11R-A38C-07	6.55757	1.519598411

147	TCGA-IB-A5ST-01A-11R-A32O-07	5.14435	-2.388997667
148	TCGA-HZ-8637-01A-11R-2404-07	3.50066	6.851977144
149	TCGA-IB-AAUW-01A-12R-A38C-07	6.25423	5.620234412
150	TCGA-3A-A9I9-01A-11R-A38C-07	5.33847	5.488491899
151	TCGA-2J-AABR-01A-11R-A41B-07	6.64198	4.933639476
152	TCGA-H6-A45N-01A-11R-A26U-07	6.58041	6.884691053
153	TCGA-FB-AAQ3-01A-11R-A41B-07	6.14932	2.773686386
154	TCGA-HV-AA8X-01A-11R-A39D-07	7.41817	4.513438569
155	TCGA-IB-8126-01A-11R-2404-07	4.65671	6.241232368
156	TCGA-HV-A7OP-01A-11R-A33R-07	5.97106	-0.6938059
157	TCGA-HZ-A8P0-01A-11R-A36G-07	6.13735	1.747126802
158	TCGA-F2-6879-01A-11R-2156-07	6.07068	-4.222841543
159	TCGA-S4-A8RO-01A-12R-A37L-07	5.98895	5.055791599
160	TCGA-HZ-A49H-01A-11R-A26U-07	5.783	6.741765912
161	TCGA-L1-A7W4-01A-12R-A36G-07	6.12292	2.588378511
162	TCGA-RL-AAAS-01A-32R-A39D-07	5.78813	4.450788743
163	TCGA-XN-A8T3-01A-11R-A36G-07	5.87348	4.858154339
164	TCGA-IB-AAUN-01A-12R-A38C-07	5.7523	3.872985975
165	TCGA-HZ-8005-01A-11R-2204-07	2.91989	2.775374478
166	TCGA-XD-AAUL-01A-21R-A39D-07	5.76892	3.891042452
167	TCGA-IB-AAUP-01A-11R-A37L-07	5.16712	4.24820827
168	TCGA-HV-A5A6-01A-11R-A26U-07	6.47052	2.201655171
169	TCGA-HZ-8519-01A-11R-2404-07	5.27665	10.14890719
170	TCGA-IB-7885-01A-11R-2156-07	5.63459	2.78353623
171	TCGA-2L-AAQL-01A-11R-A38C-07	8.08027	7.126242186
172	TCGA-IB-7644-01A-11R-2156-07	6.85167	2.837153559
173	TCGA-IB-7889-01A-11R-2156-07	6.29741	4.864896003
174	TCGA-HZ-7919-01A-11R-2156-07	6.79623	5.88590886