

Table SI. Patient clinicopathological profiles and ELISA analysis of serum and urinary TFF1, TFF2 and TFF3.

Patient number	Age, years	Sex	Histology	TNM ^a	uCre (mg/ml)	sTFF1 (ng/ml)	uTFF1 (ng/ml)	uTFF1 / uCre	sTFF2 (ng/ml)	uTFF2 (ng/ml)	uTFF2/ uCre	sTFF3 (ng/ml)	uTFF3 (ng/ml)	uTFF3 / uCre	TFF1-3 values ^a	Judgement ^b
1	74	M	AC	T4N0	2.8506	1.0488	1.4373	0.5042	3.2261	18.0773	6.3416	11.7409	10.0961	3.5417	0.8492	Positive
2	64	M	AC	T1aN0	2.1589	2.7612	4.5369	2.1015	8.8642	27.9592	12.9507	8.2132	5.1340	2.3781	0.9510	Positive
3	66	M	AC	T1aN0	0.6764	2.2762	2.4504	3.6227	6.9390	13.5437	20.0231	7.8419	2.4900	3.6813	0.7968	Positive
4	85	F	AC	T1aN0	0.1723	2.3938	0.6912	4.0116	8.5338	4.1973	24.3604	11.2199	0.2882	1.6727	0.9446	Positive
5	75	F	AC	T1bN0	0.4920	1.7401	0.8076	1.6415	4.2879	8.3141	16.8986	9.0325	1.2060	2.4512	0.8124	Positive
6	68	M	pleo	T3N2	2.6550	0.5094	2.4687	0.9298	2.4539	23.0267	8.6730	5.8415	18.3020	6.8934	0.3130	Negative
7	68	M	AC	T1bN0	0.7985	2.1118	1.5338	1.9209	5.0190	7.7927	9.7592	16.7665	12.2964	15.3994	0.8803	Positive
8	73	F	AC	T2aN2	1.9815	0.9542	1.0533	0.5316	5.6718	19.7759	9.9802	8.4377	2.4789	1.2510	0.8670	Positive
9	72	M	AC	T1aN0	1.1159	1.3017	0.5574	0.4995	4.1079	11.2184	10.0532	7.8332	3.1129	2.7896	0.7787	Positive
10	65	F	AC	T1aN0	0.3298	3.8396	1.5017	4.5534	11.7204	12.1392	36.8078	7.2127	1.1440	3.4688	0.9568	Positive
11	71	M	SCC	T2aN0	1.6330	1.0373	2.5726	1.5754	5.7041	23.0847	14.1364	8.6384	16.2294	9.9384	0.6214	Positive
12	64	F	AC	T1miN0	2.0766	0.9423	1.0174	0.4899	4.2447	19.2985	9.2933	11.6173	5.1613	2.4855	0.8893	Positive
13	72	F	AC	T1miN0	0.8869	2.2251	1.8103	2.0412	5.7666	25.6143	28.8807	6.6615	1.1404	1.2858	0.8281	Positive
14	70	M	AC	T1bN0	3.1838	0.7461	1.5021	0.4718	4.7613	43.0363	13.5173	7.8635	9.1042	2.8595	0.7648	Positive
15	75	M	SCC	T2aN0	1.9400	0.3442	1.4303	0.7373	6.3040	38.5170	19.8541	7.2114	3.7579	1.9371	0.7850	Positive
16	62	M	AC	T1bN2	1.4469	0.3907	0.8249	0.5701	3.2602	17.2019	11.8888	6.2526	6.4872	4.4835	0.4815	Positive
17	73	M	AC	T1bN0	0.6497	1.1536	1.0490	1.6146	5.0735	12.6302	19.4400	10.1964	3.3761	5.1964	0.7930	Positive
18	61	M	AC	T1aN0	0.6229	0.5234	0.3196	0.5131	4.9583	11.1368	17.8790	7.8355	1.8730	3.0069	0.7474	Positive
19	80	M	AC	T1cN0	0.9910	1.9320	1.6510	1.6660	4.9652	30.5674	30.8450	7.8470	5.3511	5.3997	0.7474	Positive

20	70	M	AC	T1bN0	0.9921	0.9034	0.6053	0.6101	2.5080	23.464 3	23.6512	9.3101	7.8851	7.9479	0.5623	Positive
21	80	M	AC	T2aN0	1.9792	4.1380	0.1306	0.0660	2.8782	32.448 7	16.3949	14.325 7	5.3021	2.6789	0.9832	Positive
22	55	M	SCC	T2aN2	0.8346	0.4356	1.5937	1.9095	4.4119	28.830 7	34.5443	6.5279	1.2306	1.4745	0.5665	Positive
23	75	M	SCC	T2bN2	1.9200	2.0489	1.8435	0.9601	3.7759	37.302 4	19.4283	15.623 2	5.4735	2.8508	0.9632	Positive
24	79	M	SCC	T2bN2	1.0333	0.9738	0.6989	0.6785	3.7077	4.4214	4.2926	15.049 2	1.8852	1.8303	0.9425	Positive
25	58	M	AC	T3N1	1.9501	0.5920	0.7273	0.3730	3.4593	16.458 9	8.4405	7.5785	5.0644	2.5971	0.6725	Positive
26	70	M	SCC	T2bN1	1.1543	1.1379	1.0021	0.9110	3.0814	10.454 0	9.5036	8.0944	5.1711	4.7010	0.6341	Positive
27	71	F	AC	T1aN0	0.1921	0.6485	0.0871	0.4582	2.2966	3.7030	19.4893	6.0828	0.8442	4.4432	0.4443	Positive
28	79	M	SCC	T2aN0	2.3125	1.0433	1.5997	0.6925	3.7858	14.602 1	6.3213	19.327 3	8.8431	3.8282	0.9743	Positive
29	76	M	AC	T3aN0	0.8676	0.5702	0.4399	0.5115	3.1915	32.907 8	38.2649	11.329 4	2.9345	3.4122	0.8009	Positive
30	68	F	AC	T1miN 0	0.5983	6.8002	0.1476	0.2501	4.2035	41.266 8	69.9438	14.737 1	6.4886	10.997 6	0.9915	Positive
31	85	M	SCC	T2bN2	1.3442	1.1915	2.2220	1.7093	4.4559	5.7976	4.4597	12.826 7	15.515 6	11.935 1	0.7163	Positive
32	82	M	AC	T2aN0	0.6983	1.0746	0.1098	0.1592	4.4534	35.195 1	51.0074	7.3239	8.8574	12.836 8	0.4884	Positive
33	61	M	pleo	T3N0	0.6655	1.7914	1.7841	2.7031	2.3767	6.9844	10.5825	15.042 7	6.3871	9.6775	0.7501	Positive
34	69	F	AC	T2aN1	0.1731	4.5995	0.8491	4.9947	10.326 9	23.299 4	137.055 5	11.781 2	0.9811	5.7711	0.9767	Positive
35	77	M	SCC	T1cN0	1.0816	5.3071	2.3325	2.1598	2.7531	4.4802	4.1483	7.5256	1.9054	1.7642	0.9125	Positive
36	59	F	AC	T3N0	1.2372	0.9619	0.7289	0.5926	3.5655	9.6184	7.8199	6.6715	2.3362	1.8994	0.6742	Positive
37	61	M	AC	T1miN 0	1.8535	0.9285	1.3476	0.7284	7.4175	25.303 7	13.6777	12.018 1	5.5327	2.9907	0.9505	Positive
38	72	F	AC	T1aN0	1.5809	2.5998	0.1044	0.0661	2.2221	6.5509	4.1461	9.0580	11.849 1	7.4994	0.7694	Positive
39	64	M	pleo	T3cN0	1.5267	1.6381	1.8419	1.2117	3.8865	28.252 5	18.5872	7.3675	8.5258	5.6091	0.6541	Positive
40	48	F	AC	T2aN0	0.1712	1.1929	0.1683	0.9899	4.7709	5.8223	34.2487	14.022 5	1.4751	8.6770	0.8787	Positive
41	45	F	AC	T1miN 0	0.2624	1.0507	0.0982	0.3778	2.4388	4.2764	16.4476	13.421 3	2.0345	7.8252	0.8029	Positive

42	71	F	AC	T1miN 0	0.7335	1.1371	0.6225	0.8893	7.1611	22.553 1	32.2187	6.8477	2.8386	4.0551	0.8220	Positive
43	60	F	AC	T1miN 0	0.2366	0.9300	0.1847	0.8028	3.9370	2.9520	12.8347	9.0733	1.2519	5.4431	0.7064	Positive
44	65	M	AC	T4N2	0.4542	1.6628	0.3430	0.7622	3.7069	20.599 8	45.7772	49.675 7	12.059 5	26.798 9	0.9998	Positive
45	93	M	AC	T1bN0	1.7567	1.3179	4.9486	2.8278	13.608 8	27.081 9	15.4753	9.9221	18.637 7	10.650 1	0.9389	Positive
46	37	F	AC	T1bN0	0.3423	0.3978	0.3058	0.8994	3.9423	21.253 9	62.5115	6.1125	0.9208	2.7082	0.5515	Positive
47	70	M	SCC	T2aN0	1.0941	0.8701	0.7373	0.6765	2.0595	25.683 8	23.5631	10.341 2	3.9881	3.6588	0.7069	Positive
48	65	M	AC	T1aN0	0.8512	1.0143	0.1387	0.1631	4.8333	20.480 5	24.0947	5.5651	2.9726	3.4972	0.6901	Positive
49	74	M	AC	T1miN 0	0.5140	0.4162	0.2050	0.4020	4.1225	6.9364	13.6008	7.5655	1.1172	2.1905	0.7035	Positive
50	72	F	AC	T3N2	0.5478	4.2248	0.1584	0.2933	9.3754	8.0895	14.9805	14.398 6	3.1257	5.7883	0.9961	Positive
51	70	M	AC	T2aN0	0.5187	0.8369	0.2577	0.5154	3.8992	12.825 2	25.6505	7.6960	1.4928	2.9855	0.7109	Positive
52	75	M	SCC	T2aN3	1.2742	0.8481	0.8454	0.6656	3.5157	21.619 9	17.0235	12.725 6	7.4289	5.8496	0.8320	Positive
53	80	F	AC	T1aN0	1.0968	0.5698	0.4567	0.4190	2.3206	17.194 2	15.7745	6.6178	3.3670	3.0890	0.5154	Positive
54	59	F	AC	T1aN0	0.4821	1.0320	0.5190	1.0813	4.4934	23.598 4	49.1633	10.729 4	1.3589	2.8310	0.8497	Positive
55	78	M	AC	T1bN0	1.3461	0.4583	0.6415	0.4787	4.2941	28.272 8	21.0991	9.7630	9.9928	7.4573	0.6834	Positive
56	70	F	AC	TisN0	0.1438	1.1257	0.1315	0.9391	6.0182	4.3371	30.9796	7.2783	1.0376	7.4116	0.7000	Positive
57	73	F	AC	T2bN2	0.5142	1.2946	0.4695	0.9206	4.9471	12.130 0	23.7843	10.738 2	1.8705	3.6677	0.8753	Positive
58	62	F	AC	T2aN2	1.4278	0.5473	0.9200	0.6479	3.2572	22.692 1	15.9803	6.6807	7.1151	5.0106	0.5033	Positive
59	75	M	AC	T1aN0	0.4519	0.6977	0.1563	0.3474	4.1398	5.9574	13.2386	11.523 6	1.9914	4.4253	0.8466	Positive
60	62	F	AC	T1bN0	0.7721	3.5582	5.7888	7.5179	22.679 4	30.149 9	39.1557	21.375 0	9.8766	12.826 7	0.9994	Positive
61	76	M	AC	T1aN0	2.4768	2.7822	6.0576	2.4525	18.053 0	35.746 0	14.4721	21.627 1	19.943 4	8.0742	0.9997	Positive
62	63	M	AC	T1aN0	1.0523	0.6564	0.9725	0.9262	4.4392	27.453 4	26.1461	10.348 8	5.4355	5.1767	0.7666	Positive
63	69	M	AC	T3N1	0.6421	3.7940	1.0697	1.7829	13.509 7	18.371 0	30.6183	19.367 9	3.0495	5.0825	0.9993	Positive

64	78	M	AC	T1cN0	0.5367	0.8572	0.1555	0.2934	3.9639	6.5300	12.3208	35.4426	1.3999	2.6413	0.9996	Positive
65	61	M	SCC	T2aN2	1.0442	1.4685	3.1649	3.0431	11.3076	29.6134	28.4744	18.5856	8.2561	7.9386	0.9892	Positive
66	81	M	AC	T1bN0	1.6618	2.5913	1.5516	0.9347	6.1154	30.3123	18.2604	19.3305	11.2095	6.7527	0.9904	Positive
67	66	M	AC	T2aN2	1.1621	2.4933	1.4355	1.2375	4.7850	18.9589	16.3439	9.2951	3.2740	2.8224	0.8954	Positive
68	79	M	SCC	T3N1	1.4528	3.3258	6.8033	4.6920	4.6676	26.9073	18.5567	16.6252	17.9339	12.3682	0.8678	Positive
69	89	F	AC	T1bN0	1.8363	0.9455	1.5450	0.8443	6.0304	37.1983	20.3270	14.0996	8.8779	4.8513	0.9419	Positive
70	68	M	SCC	T3aN0	2.3421	1.0341	1.3060	0.5678	7.2181	25.2390	10.9735	13.7756	11.8551	5.1544	0.9592	Positive
71	72	F	AC	T1aN0	0.8523	0.7304	0.8777	1.0326	3.1388	11.5453	13.5827	7.7979	7.3906	8.6948	0.4343	Negative
72	74	F	AC	T1bN0	1.7349	0.7626	3.1006	1.7923	4.2483	33.7398	19.5028	7.2160	17.1009	9.8849	0.3811	Negative
73	70	M	SCC	T2bN0	0.7938	1.8303	5.4905	6.9500	6.6999	17.6265	22.3120	8.4937	10.0057	12.6654	0.2520	Negative
74	80	M	AC	TisN0	1.4745	0.5503	1.2229	0.8319	0.3266	2.5481	1.7334	13.9353	13.6110	9.2592	0.5786	Positive
75	69	M	AC	T1bN0	0.3342	0.6440	0.2840	0.8605	3.8670	7.9925	24.2198	8.9024	1.1020	3.3393	0.7153	Positive
76	67	M	SCC	T3aN0	0.5123	3.1285	2.6970	5.3940	5.6812	19.4133	38.8267	7.0780	1.9791	3.9582	0.6415	Positive
77	32	F	AC	T1cN2	1.0979	0.5814	1.1926	1.0941	2.4920	16.2698	14.9264	6.7864	4.3520	3.9927	0.4516	Positive
78	84	F	SCC	T2aN0	0.5943	1.2269	0.3811	0.6459	3.2977	7.0426	11.9365	13.3115	2.0444	3.4650	0.8986	Positive
79	73	M	AC	T1miN0	0.9878	1.1859	1.2614	1.2872	6.8020	24.2824	24.7780	8.1231	7.7432	7.9012	0.7554	Positive
80	73	M	AC	T2bN1	0.2741	0.8406	0.3728	1.3806	4.1216	7.2417	26.8211	9.5002	3.1211	11.5595	0.5011	Positive
81	64	M	AC	T4cN2	1.6777	0.8212	1.4884	0.8913	2.5426	18.7467	11.2256	13.1180	11.9650	7.1647	0.7595	Positive
82	68	M	SCC	T1bN0	0.2838	3.8156	0.6695	2.3910	7.7756	9.1439	32.6569	12.8125	1.1973	4.2760	0.9812	Positive
83	71	M	SCC	T3N1	0.3244	2.5224	0.7418	2.3181	7.3891	13.0303	40.7198	5.3418	1.2584	3.9325	0.8082	Positive
84	41	M	AC	T4N0	1.4214	0.6085	0.5615	0.3955	2.6672	13.0915	9.2193	4.2860	1.8238	1.2844	0.4634	Positive
85	72	M	SmCC	T4N2	0.7123	0.5875	0.7933	1.1333	3.0606	11.4031	16.2901	5.3429	3.6203	5.1719	0.3678	Negative

86	82	M	AC	T1miN 0	0.6445	1.0103	0.6602	1.0315	3.4438	11.631 4	18.1741	4.7189	1.2715	1.9867	0.5185	Positive
87	67	M	SCC	T2bN0	0.8678	1.0219	0.8693	1.0867	3.2449	12.599 0	15.7488	4.8352	1.9046	2.3807	0.4951	Positive
88	68	M	AC	T1aN0	0.6742	1.3443	0.7884	1.1767	4.1522	9.2364	13.7857	5.3699	1.8095	2.7007	0.6143	Positive
89	80	M	SCC	T2bN0	0.9362	0.2561	0.4700	0.5053	0.3503	1.5319	1.6472	4.8282	5.0250	5.4032	0.1922	Negative
90	81	F	AC	T1miN 0	0.2338	0.4814	0.1668	0.7250	3.1549	4.7282	20.5572	2.9227	0.4731	2.0570	0.3509	Negative
91	68	M	SCC	T2aN0	0.7341	0.8253	0.8834	1.2102	4.9667	16.691 8	22.8655	5.8265	3.9075	5.3528	0.5506	Positive
92	71	F	AC	T1aN0	0.3723	0.5863	0.5416	1.4639	2.2919	7.3585	19.8879	3.5909	0.8974	2.4254	0.2771	Negative
93	71	M	SCC	T1bN1	0.9487	0.6050	0.5857	0.6230	3.2157	13.754 6	14.6326	4.3610	2.3040	2.4511	0.4504	Positive
94	64	M	AC	T1aN0	0.7943	0.7149	0.5300	0.6708	3.6005	15.306 6	19.3755	2.6652	0.8370	1.0595	0.4296	Negative
95	82	M	SCC	T1bN0	0.4667	1.4740	1.0676	2.3208	5.0275	17.025 9	37.0129	9.3334	4.6762	10.165 6	0.5975	Positive
96	64	M	SCC	T2aN1	0.4628	1.4852	1.0208	2.2191	3.6172	9.5098	20.6735	8.6120	1.7762	3.8613	0.6582	Positive
97	72	F	AC	T1aN0	0.2523	0.6772	0.1885	0.7540	3.4761	3.6924	14.7695	3.6081	0.4457	1.7828	0.4426	Negative
98	73	M	SCC	T1aN0	1.0838	1.8300	1.6912	1.5660	3.1207	12.264 4	11.3560	5.2068	2.9675	2.7477	0.5559	Positive
99	79	M	AC	T1cN0	1.3529	0.8723	1.5909	1.1784	4.6750	23.399 8	17.3332	9.9042	9.9641	7.3808	0.7083	Positive
100	59	F	AC	T1aN0	0.4178	0.8514	0.1716	0.4185	4.1231	6.0404	14.7328	5.8921	6.3054	15.379 1	0.2648	Negative
101	60	M	AC	T2N0	0.7491	3.8343	1.7056	2.4366	6.9983	16.264 5	23.2350	6.3780	6.7879	9.6969	0.8107	Positive
102	61	M	SCC	T4N2	2.9713	0.2948	1.0584	0.3564	0.2572	2.2689	0.7640	11.755 7	7.1496	2.4073	0.6642	Positive
103	73	F	AC	T1aN0	0.4123	1.0016	0.5812	1.4530	6.5774	16.870 3	42.1759	6.3227	6.7940	16.985 1	0.3337	Negative
104	79	M	SCC	T1cN0	1.1991	1.2954	1.3747	1.1552	5.6575	18.902 9	15.8848	7.6145	7.5892	6.3774	0.7242	Positive
105	42	F	AC	T2aN0	1.0513	0.4115	0.2405	0.2291	3.0979	9.4663	9.0156	4.2700	5.4003	5.1431	0.3637	Negative
106	58	F	AC	T1miN 0	0.4264	1.6701	0.4978	1.1853	4.8480	9.0448	21.5353	11.493 6	12.630 6	30.072 9	0.2343	Negative
107	73	M	AC	T2aN2	1.5548	1.2331	2.3906	1.5423	4.8826	41.882 3	27.0208	8.4645	10.166 4	6.5590	0.6804	Positive
108	54	F	SCC	T2bN1	0.8428	0.7476	0.7137	0.8497	2.7220	8.8343	10.5171	8.1115	7.2098	8.5831	0.4446	Positive

109	73	F	AC	T1miN 0	0.5857	1.0007	0.4960	0.8551	5.1606	17.289 0	29.8087	6.7429	2.1669	3.7361	0.7116	Positive
110	71	M	AC	T2aN0	0.5343	0.6113	0.2675	0.5047	4.5607	12.037 7	22.7126	8.2193	2.7055	5.1048	0.6985	Positive
111	68	M	AC	T2aN2	1.3318	0.9958	0.6200	0.4662	3.2196	11.728 3	8.8182	8.2167	3.2262	2.4257	0.7304	Positive
112	76	M	LCC	T2aN0	1.1237	0.9691	0.9628	0.9628	4.4516	17.978 3	17.9783	8.2259	13.793 9	13.793 9	0.4293	Negative
113	68	M	AC	T1bN0	1.0667	0.6372	1.0075	0.9505	3.5861	22.261 7	21.0016	11.222 6	7.4852	7.0615	0.7095	Positive
114	77	M	AC	T1miN 0	1.7344	0.4693	1.0910	0.6306	2.9029	23.896 1	13.8128	4.1623	4.0008	2.3126	0.4032	Negative
115	69	M	SCC	T1bN1	1.1272	0.8915	2.5721	2.2965	1.2682	7.6425	6.8236	2.2721	0.7269	0.6490	0.1837	Negative
116	71	M	LCC	T2bN0	0.7613	0.6133	0.3207	0.4219	3.8850	11.003 4	14.4781	3.3295	0.6809	0.8959	0.5048	Positive
117	74	M	AC	TisN0	1.1321	0.7122	0.4956	0.4386	5.3393	20.281 3	17.9481	3.0271	1.2169	1.0769	0.5967	Positive
118	71	F	AC	T1miN 2	0.7112	0.8147	0.7616	1.0727	7.1466	33.895 3	47.7399	3.4603	1.6923	2.3835	0.6654	Positive
119	72	M	SCC	T3N1	1.0546	1.4649	2.0041	1.9087	3.2298	15.838 9	15.0847	4.2034	2.3651	2.2525	0.4432	Positive
120	79	M	AC	T1bN0	0.8678	1.9551	1.0602	1.3252	2.3550	7.0750	8.8438	4.2362	1.8087	2.2609	0.4934	Positive
121	76	F	AC	T2aN0	0.8342	2.9290	3.5020	4.2193	6.8402	33.417 3	40.2618	4.2518	3.1215	3.7609	0.6387	Positive
122	60	M	AC	T1bN0	1.9371	2.3410	4.9666	2.5734	7.4615	48.072 0	24.9078	3.1576	1.7999	0.9326	0.7559	Positive
123	51	F	AC	T2aN0	1.2634	0.6645	0.9012	0.7152	4.2250	16.660 1	13.2223	8.6705	8.2726	6.5655	0.6497	Positive
124	77	M	AC	T1aN0	0.5513	0.7383	0.5716	1.0393	3.9689	7.3201	13.3092	6.6430	6.5498	11.908 7	0.3289	Negative
125	57	M	SCC	T2aN0	2.4742	1.7954	0.8589	0.3477	4.7213	6.6730	2.7016	9.8127	13.145 1	5.3219	0.8696	Positive
126	84	M	AC	T2aN0	0.3528	0.9642	0.5363	1.5322	6.0965	2.5804	7.3725	15.360 0	6.8038	19.439 5	0.7332	Positive
127	72	M	AC	T2bN0	0.7870	1.9459	0.7015	0.8994	4.0464	4.2900	5.5000	10.463 6	9.0020	11.541 0	0.7197	Positive
128	80	F	AC	T1bN0	1.0226	1.5927	0.6886	0.6750	8.7657	3.3499	3.2842	15.004 9	9.3147	9.1321	0.9745	Positive
129	80	F	SCC	T1cN0	0.6960	1.0065	3.9758	5.7620	10.406 3	4.2538	6.1649	15.757 8	10.184 6	14.760 2	0.8182	Positive
130	67	M	AC	T1cN0	0.7514	1.8083	1.4512	1.9349	2.7492	8.1759	10.9012	10.738 5	16.384 1	21.845 5	0.2455	Negative

131	74	M	SCC	T1bN0	0.2643	1.1238	0.4247	1.6334	5.0815	3.3315	12.8133	11.488 7	7.6632	29.473 9	0.1867	Negative
132	68	F	AC	T1cN1	0.7512	1.1293	0.8392	1.1189	4.2382	7.2386	9.6514	11.729 2	9.7185	12.958 0	0.6547	Positive
133	63	M	AC	T1bN0	0.3355	3.3884	3.2113	9.7311	8.6755	5.4071	16.3851	10.454 3	8.0803	24.485 9	0.1492	Negative
134	78	F	AC	TisN0	0.8461	3.9912	0.9497	1.1306	14.144 4	4.7023	5.5980	14.195 3	9.8499	11.726 1	0.9968	Positive
135	61	F	AC	T3N2	0.7416	0.5620	0.8942	1.2083	2.9492	12.030 6	16.2576	7.7073	6.7644	9.1410	0.3669	Negative
136	82	M	AC	T2bN0	0.1667	1.1065	0.3166	1.9790	3.4728	4.4813	28.0079	6.2834	1.6203	10.126 6	0.2967	Negative
137	60	F	AC	TisN0	0.2672	0.5506	0.3922	1.5086	2.4653	6.2913	24.1974	4.0754	2.1492	8.2660	0.1720	Negative
138	65	F	SCC	T4N0	0.5469	0.7283	0.9030	1.6722	2.9731	13.673 1	25.3206	6.2764	3.9966	7.4012	0.3221	Negative
139	71	F	AC	T1bN0	0.3348	0.9825	0.2470	0.7485	4.1237	7.3209	22.1844	8.2626	0.7476	2.2656	0.7662	Positive
140	75	M	AC	T1aN0	0.3230	0.9738	0.2099	0.6997	2.6877	3.1439	10.4798	8.6942	1.2869	4.2897	0.6515	Positive
141	66	M	AC	T1aN0	1.1905	5.7699	10.873 8	9.1376	10.161 3	32.047 6	26.9307	8.8482	6.5081	5.4690	0.8949	Positive
142	80	M	SCC	T2aN1	1.1252	3.0869	0.2438	0.2177	4.1169	1.5935	1.4228	11.518 4	0.2060	0.1839	0.9703	Positive
143	73	M	AC	T2aN2	0.5304	0.6112	0.3655	0.6896	4.2375	10.760 0	20.3019	7.6525	3.8151	7.1983	0.5681	Positive
144	73	M	LCC	T2aN1	1.3301	1.1790	1.3039	0.9804	4.7576	27.028 8	20.3224	13.843 4	9.2167	6.9299	0.8960	Positive
145	72	F	AC	T4N0	1.1402	2.2796	1.6030	1.4061	6.0508	21.608 2	18.9546	12.993 0	8.0151	7.0308	0.9378	Positive
146	88	M	AC	T1bN0	1.8752	1.1103	1.1805	0.6313	4.9993	22.575 6	12.0725	11.633 2	7.2707	3.8881	0.8969	Positive
147	82	F	AC	pT1cN0	0.8301	1.3229	0.8870	1.0687	4.0867	13.637 0	16.4301	2.5166	0.4600	0.5543	0.5131	Positive
148	59	M	AC	T2aN0	1.7632	0.8560	2.9624	1.6832	6.3308	39.072 8	22.2005	2.5319	0.8032	0.4564	0.5685	Positive
149	48	M	AC	T2bN1	0.7353	0.2374	0.2100	0.2876	2.9705	10.043 5	13.7583	3.1718	0.4057	0.5558	0.4050	Negative
150	77	M	AC	T1bN0	0.4500	1.2861	0.2539	0.5642	5.9508	6.7937	15.0971	3.6369	0.2813	0.6252	0.7352	Positive
151	75	M	AC	pT2aN0	1.2802	2.8709	1.9729	1.5413	6.6097	17.116 5	13.3723	6.0732	1.1781	0.9204	0.9022	Positive
152	77	M	AC	T2aN0	0.7500	0.9307	1.0052	1.3403	3.0826	8.8281	11.7708	5.2249	2.1019	2.8025	0.4598	Positive

153	71	M	AC	T3N0	0.4699	0.6938	0.2239	0.4867	4.9323	9.1440	19.8782	4.6694	0.4170	0.9064	0.6612	Positive
154	65	M	AC	T2aN0	0.4240	1.9812	0.5371	1.2789	8.9965	12.908 3	30.7341	4.1436	0.3861	0.9193	0.8905	Positive
155	63	M	pleo	T4N2	0.2994	0.6800	0.0834	0.2876	4.5755	3.9490	13.6174	2.3517	0.0012	0.0042	0.5443	Positive
156	49	M	SCC	T2bN0	0.2249	1.4105	0.1706	0.7753	2.9174	2.1670	9.8500	2.5466	0.0010	0.0045	0.4838	Positive
157	74	M	AC	T1miN 0	0.8895	1.3118	0.6656	0.7564	4.2340	12.079 7	13.7269	3.0803	0.2966	0.3371	0.5903	Positive
158	69	F	AC	T1aN0	0.6641	0.8902	0.3093	0.4686	2.7365	7.5144	11.3854	2.0583	0.2620	0.3970	0.3916	Negative
159	71	M	AC	T1bN0	2.2391	2.0598	0.8457	0.3792	2.3184	4.2302	1.8970	1.8914	0.1474	0.0661	0.5142	Positive
160	85	F	SCC	T2bN0	0.6114	0.7261	0.3715	0.6091	2.8319	8.1692	13.3921	2.5128	0.2148	0.3521	0.3947	Negative
161	79	F	AC	T1aN0	0.8440	1.0360	0.2891	0.3442	3.4225	11.853 1	14.1108	1.8190	0.1702	0.2026	0.4610	Positive
162	77	M	SCC	T3N0	0.9908	1.9544	1.6127	1.7919	2.0925	7.5943	8.4381	7.1113	3.3254	3.6949	0.5621	Positive
163	77	F	AC	T1aN0	0.3399	1.5035	0.2395	0.7257	3.7015	5.9035	17.8895	5.9099	1.3704	4.1529	0.6265	Positive
164	61	M	SCC	T2aN0	0.8904	0.7459	0.6234	0.7005	3.0069	10.194 1	11.4541	6.1735	3.4353	3.8599	0.5112	Positive
165	78	F	AC	T1bN2	0.4597	0.9758	0.3008	0.6684	3.2607	6.1612	13.6917	2.0534	0.1200	0.2667	0.4259	Negative
166	52	F	AC	T2aN0	0.2388	0.5533	0.2164	0.9409	2.4349	4.0272	17.5096	1.4754	0.1310	0.5696	0.2635	Negative
167	48	F	AC	T3N2	0.2818	0.9421	0.0456	0.2279	2.3032	1.2926	6.4630	1.6324	0.1321	0.6605	0.3556	Negative
168	71	M	SCC	T1cN0	0.7381	1.3595	1.2126	1.6611	11.113 2	31.027 3	42.5031	0.8927	0.5036	0.6898	0.8185	Positive
169	69	F	AC	T1bN1	0.5815	0.4597	0.2319	0.4638	2.7805	7.3826	14.7652	1.6619	0.2140	0.4280	0.3224	Negative
170	83	M	SCC	T3N0	0.7182	1.6573	1.4574	2.0527	2.2247	5.4798	7.7180	2.1155	0.3192	0.4496	0.3198	Negative
171	62	M	LCC	T1cN0	0.8123	0.6236	0.2170	0.2679	3.0839	8.8429	10.9172	2.0029	0.2150	0.2654	0.4016	Negative
172	65	F	AC	TisN0	0.2482	1.2227	0.0972	0.4052	3.7096	3.0505	12.7102	3.0533	0.1032	0.4300	0.5675	Positive
173	74	F	AC	T1bN0	0.6983	1.3893	0.7201	1.0437	3.1195	8.0503	11.6671	3.0651	0.5811	0.8421	0.4771	Positive
174	66	M	SmCC	T1cN0	3.2281	0.6861	1.7958	0.5577	3.4370	35.804 4	11.1194	2.1667	2.4423	0.7585	0.4040	Negative
175	52	M	AC	T2bN1	0.5424	0.6327	0.0881	0.1632	2.0942	1.9289	3.5721	7.5383	1.3144	2.4341	0.6047	Positive
176	76	F	AC	T1miN 0	0.2725	1.1638	0.1625	0.6017	3.2381	2.7638	10.2362	6.2681	0.4118	1.5251	0.6635	Positive

177	70	F	AC	T1aN0	0.1732	0.5260	0.0513	0.3017	2.7826	1.6253	9.5604	6.1124	0.3713	2.1839	0.5520	Positive
178	77	F	AC	T1bN0	0.2823	4.7847	0.2004	1.0022	4.6539	1.4269	7.1347	13.424 9	0.2736	1.3681	0.9894	Positive
179	73	F	AC	T1bN0	0.6782	1.4679	0.7053	1.0527	3.9550	6.8568	10.2340	7.9927	2.0617	3.0772	0.7511	Positive
180	70	F	AC	T2aN0	2.3821	0.8683	1.4729	0.7364	2.6784	24.975 9	12.4879	8.9297	7.3281	3.6640	0.6670	Positive
181	73	F	AC	T2aN0	0.3582	4.1983	2.4806	7.0873	9.0357	12.535 5	35.8158	8.7667	2.2404	6.4011	0.8326	Positive
182	77	M	SCC	T3N1	1.1291	2.4148	2.0177	1.8015	3.4817	10.596 7	9.4614	9.9399	4.4822	4.0020	0.8227	Positive
183	61	M	SmCC	T1cN0	0.4790	0.9659	0.4502	0.9579	2.6859	4.7212	10.0450	6.2892	1.2543	2.6688	0.5378	Positive
184	62	F	AC	T1miN 0	0.2421	1.5097	0.2264	0.9432	3.4449	3.2623	13.5929	7.4233	1.4945	6.2272	0.6159	Positive
185	58	F	AC	T2aN1	1.9100	0.6199	0.7267	0.7267	3.4929	14.495 2	14.4952	6.4337	6.2092	6.2092	0.4693	Positive
186	66	M	AC	T1bN1	1.4591	1.5678	2.0365	1.4045	4.2224	22.189 6	15.3032	12.032 1	13.087 7	9.0260	0.7912	Positive
187	80	M	AC	T1miN 0	0.9316	1.8110	0.7597	0.8169	6.0641	12.210 1	13.1292	13.869 3	3.8710	4.1624	0.9634	Positive
188	55	M	SCC	T2aN1	1.8911	1.1372	0.8403	0.4446	6.0892	26.228 2	13.8774	8.8589	3.4762	1.8393	0.8954	Positive
189	65	F	AC	T1cN0	0.3166	0.7350	0.1451	0.4681	2.4746	3.3394	10.7722	5.7755	0.9558	3.0834	0.4919	Positive
190	72	M	AC	T2aN0	1.7567	2.8088	2.5421	1.4526	4.3054	20.912 2	11.9498	11.796 3	11.026 0	6.3006	0.9050	Positive
191	51	M	AC	T1miN 0	1.0514	0.5750	0.5279	0.5028	2.2946	8.1882	7.7983	6.0232	3.3865	3.2253	0.4662	Positive
192	64	M	AC	T4N2	0.7816	1.9277	2.9002	3.7182	3.2982	12.780 9	16.3858	6.3320	6.5931	8.4527	0.2917	Negative
193	72	F	AC	T1bN0	0.3762	0.3718	0.0919	0.2483	2.8508	5.2530	14.1973	7.3178	0.7215	1.9499	0.6211	Positive
194	82	M	AC	T1bN0	1.4418	2.4692	3.4097	2.3678	6.3896	17.948 5	12.4642	10.475 1	16.377 6	11.373 3	0.8022	Positive
195	47	M	AC	T3N2	1.6310	0.2237	0.4776	0.2930	1.5691	9.2925	5.7009	8.4957	5.7823	3.5474	0.5278	Positive
196	73	M	SCC	T2bN1	0.1611	0.5389	0.1505	0.9407	1.4945	1.5264	9.5400	5.2620	1.1317	7.0733	0.2279	Negative
197	64	M	SmCC	T4N0	0.7822	0.8797	0.8065	1.0340	1.6809	8.1861	10.4950	3.7297	2.3005	2.9493	0.2947	Negative
198	64	F	AC	T1bN0	0.3113	2.5793	0.7612	2.4555	3.9157	8.9227	28.7830	2.7788	0.5634	1.8175	0.5119	Positive
199	66	M	AC	T1cN0	1.2216	0.4020	0.9953	0.8158	2.3351	19.004 1	15.5771	3.2888	5.7120	4.6820	0.2362	Negative

^aValues of combined sTFF1/2/3+uTFF1/3, ^bjudgement: Positive, ≥ 0.443 and negative < 0.443 . M, male; F, female; uCre, urinary creatinine; sTFF, serum trefoil factor family; uTFF, urinary TFF; AC, Adenocarcinoma; pleo, pleomorphic carcinoma; SCC, squamous cell carcinoma; SmCC, small cell carcinoma; LCC, large cell carcinoma.

Table III. Profile of healthy controls and ELISA analysis of serum and urinary TFF1, TFF2 and TFF3.

Case number.	Age, years	Sex	uCre (mg/ml)	sTFF1 (ng/ml)	uTFF1 (ng/ml)	uTFF1/uCre	sTFF2 (ng/ml)	uTFF2 (ng/ml)	uTFF2/uCre	sTFF3 (ng/ml)	uTFF3 (ng/ml)	uTFF3/uCre	TFF1-3 values ^a	Judgement ^b
1	74	M	0.3771	0.8261	0.3037	0.8054	4.5182	5.1058	13.5397	10.6483	2.7932	7.4072	0.7553	Positive
2	45	F	0.3827	0.4358	0.4543	1.1870	2.3454	7.2147	18.8520	3.5550	2.6702	6.9773	0.1804	Negative
3	64	F	0.3356	0.5795	0.1928	0.5744	3.2810	6.4027	19.0785	4.2268	0.8250	2.4582	0.4478	Positive
4	51	F	1.7382	0.6144	1.8968	1.0913	3.0904	75.5264	43.4509	6.0602	7.9969	4.6007	0.4362	Negative
5	68	F	0.7272	2.8911	3.3600	4.6205	3.4377	16.0121	22.0189	5.7366	5.6834	7.8155	0.3223	Negative
6	66	M	0.3135	1.2051	2.6644	5.8935	4.8607	32.8486	72.6579	11.0797	11.4990	25.4347	0.0708	Negative
7	39	F	0.8885	0.5038	0.2845	0.3202	3.1865	12.0653	13.5794	6.0242	3.9454	4.4406	0.4997	Positive
8	59	F	0.3135	0.7608	0.7461	2.3800	5.1874	22.9685	73.2646	5.2375	2.4836	7.9222	0.3434	Negative
9	67	M	0.5559	2.7986	6.3137	11.3575	3.5970	41.4409	74.5474	4.6620	8.2063	14.7622	0.0139	Negative
10	69	F	0.3533	0.8298	0.5161	1.4607	3.4496	7.2602	20.5496	5.9656	1.7918	5.0716	0.4362	Negative
11	48	F	0.6865	0.9798	0.7550	1.0998	3.3528	10.4310	15.1944	7.9534	4.1348	6.0230	0.5695	Positive
12	49	F	1.0419	0.6381	0.4958	0.4759	3.2409	8.6750	8.3262	5.8738	3.4985	3.3578	0.5323	Positive
13	60	F	0.9233	1.0255	1.3926	1.5083	3.5121	20.4621	22.1620	9.2938	5.8241	6.3080	0.6216	Positive
14	59	F	0.4088	0.5417	1.3422	3.2832	2.6734	14.1442	34.5992	10.8286	9.6514	23.6091	0.0789	Negative
15	59	F	0.9564	0.5923	1.1215	1.1727	3.7803	27.2816	28.5253	5.5310	6.6078	6.9090	0.3731	Negative
16	73	F	0.6134	0.7486	0.5364	0.8745	3.3911	11.4140	18.6077	5.7531	2.2807	3.7181	0.5033	Positive
17	68	M	1.6040	0.6470	1.5780	0.9838	2.2089	21.1026	13.1562	6.6991	7.3895	4.6069	0.4242	Negative
18	41	M	1.1942	1.0609	1.2526	1.0489	8.4912	24.9973	20.9322	9.1867	7.8003	6.5318	0.8888	Positive
19	63	F	0.6849	0.7216	2.0821	3.0400	4.1104	27.9121	40.7536	9.2508	17.3361	25.3119	0.0784	Negative
20	65	M	0.6401	3.3065	1.0012	1.5641	6.3844	41.3677	64.6269	6.1077	24.8475	38.8182	0.0772	Negative
21	73	M	1.0749	0.7890	0.7247	0.6742	4.0247	11.6735	10.8600	11.6003	7.4068	6.8907	0.7873	Positive
22	58	F	0.5877	1.0032	1.0112	1.7206	3.0500	16.6240	28.2865	8.4443	4.4811	7.6247	0.4749	Positive

23	68	M	0.3170	0.5825	0.6440	2.0315	4.9082	16.5561	52.2275	9.2652	3.5461	11.1866	0.4668	Positive
24	62	M	1.1615	1.4530	0.7902	0.6803	4.7705	8.8909	7.6547	4.4637	3.1721	2.7310	0.6571	Positive
25	54	F	0.4393	0.4639	0.3838	0.8738	4.7052	9.2178	20.9830	6.3035	5.0324	11.4556	0.3539	Negative
26	73	M	0.1700	0.5500	0.2851	1.6771	3.6333	4.3641	25.6711	7.2218	1.8288	10.7578	0.3013	Negative
27	68	M	0.8102	1.2047	0.4257	0.5254	5.2525	9.1314	11.2706	4.2623	1.8943	2.3381	0.6732	Positive
28	68	M	0.3604	0.5846	0.8734	2.4235	5.0018	13.4550	37.3336	6.0609	6.6936	18.5726	0.1224	Negative
29	72	F	0.3106	1.0413	0.7523	2.4222	2.8430	8.8764	28.5783	5.9034	5.1494	16.5787	0.1038	Negative
30	71	F	1.5939	2.0321	1.0518	0.6599	3.8614	7.3924	4.6380	10.3179	2.3853	1.4965	0.9062	Positive
31	39	M	2.4791	0.8666	0.4260	0.1718	7.2175	11.7465	4.7382	9.1068	1.5297	0.6170	0.9343	Positive
32	74	F	1.0537	2.8769	3.0913	2.9337	4.0754	14.9426	14.1810	8.6103	5.0813	4.8223	0.7527	Positive
33	67	M	0.4217	0.2759	0.2993	0.7098	2.0255	5.7751	13.6948	6.3714	1.5600	3.6993	0.3983	Negative
34	72	M	0.7199	2.7866	1.9522	2.7117	5.1071	26.6869	37.0704	9.3356	34.6980	48.1983	0.0192	Negative
35	61	M	0.3541	0.5293	0.4228	1.1939	4.1306	9.6657	27.2965	6.7256	3.4471	9.7349	0.3714	Negative
36	61	M	0.5837	0.8017	0.5067	0.8681	3.3657	7.5907	13.0044	7.3190	2.8162	4.8247	0.5682	Positive
37	68	M	0.7823	4.5126	0.8211	1.0495	8.0121	6.5400	8.3600	8.7349	0.7094	0.9068	0.9863	Positive
38	42	F	0.5596	4.4053	1.1189	1.9995	9.0003	11.9689	21.3883	6.8038	1.1078	1.9797	0.9727	Positive
39	69	M	0.6043	2.6397	1.5163	2.5092	11.8089	12.3691	20.4685	10.9122	1.9333	3.1993	0.9849	Positive
40	71	F	0.6719	0.5692	0.1938	0.2884	2.6033	2.9553	4.3984	4.6860	1.8598	2.7679	0.4403	Negative
41	72	M	0.8509	1.4579	1.2209	1.4348	2.5383	7.6056	8.9383	7.5732	8.9850	10.5594	0.3751	Negative
42	73	M	0.6684	0.6320	0.1635	0.2447	4.1022	3.2003	4.7881	3.9847	0.9511	1.4229	0.5614	Positive
43	68	M	0.4878	0.3405	0.8073	1.6549	2.6157	11.1533	22.8645	7.5521	5.4255	11.1224	0.2310	Negative
44	63	M	0.6365	0.7081	2.2164	3.4821	3.3087	17.4160	27.3622	6.6556	7.2533	11.3956	0.1531	Negative
45	55	M	1.7056	3.9130	6.1736	3.6196	8.2219	22.3505	13.1042	3.7919	11.1418	6.5325	0.7705	Positive
46	74	M	0.6401	5.5026	6.4596	10.0915	6.5944	3.1171	4.8697	9.0482	8.9860	14.0385	0.3963	Negative
47	70	M	0.5359	6.5043	2.1193	3.9546	6.6719	1.2274	2.2903	4.4741	11.3229	21.1287	0.5587	Positive

48	64	M	1.8638	0.4722	0.2140	0.1148	3.3244	6.0719	3.2578	8.5380	1.0277	0.5514	0.7697	Positive
49	38	F	1.5347	0.3089	0.1399	0.0911	3.4779	4.2461	2.7667	7.6987	1.1864	0.7730	0.7201	Positive
50	73	M	1.6358	0.5200	0.5604	0.3426	3.1170	8.1393	4.9758	9.5465	5.2516	3.2104	0.7301	Positive
51	64	M	1.2232	0.4939	0.1658	0.1355	3.4679	3.1490	2.5744	8.0193	1.3385	1.0943	0.7420	Positive
52	58	M	1.3503	1.1590	0.2201	0.1630	7.0184	5.9385	4.3979	4.0255	0.9701	0.7184	0.8166	Positive
53	73	F	0.2136	0.9121	0.7950	3.7221	3.9511	1.2605	5.9012	8.4778	2.5748	12.0544	0.2414	Negative
54	64	M	1.3755	0.5183	0.2030	0.1476	2.1550	3.6602	2.6610	6.6612	1.0993	0.7992	0.5954	Positive
55	73	F	0.6060	0.4885	0.8528	1.4073	3.7012	16.2121	26.7527	6.6311	6.5432	10.7974	0.2877	Negative
56	68	M	1.9865	0.4209	0.2725	0.1372	2.9161	6.7043	3.3749	8.0424	1.3532	0.6812	0.7142	Positive
57	69	M	0.7454	0.8686	0.8189	1.0987	2.4856	7.4753	10.0286	10.9075	5.8420	7.8374	0.6127	Positive
58	74	M	0.9953	1.3915	0.6404	0.6434	6.5866	10.1520	10.1999	7.8666	2.0332	2.0428	0.8892	Positive
59	71	M	0.7932	0.8076	0.4906	0.6185	4.3644	5.1930	6.5469	4.1943	2.8231	3.5591	0.5144	Positive
60	73	M	1.1538	0.6034	1.2445	1.0786	2.2957	7.3722	6.3895	5.0241	10.7017	9.2752	0.2072	Negative
61	71	M	0.5759	0.6711	0.9222	1.6013	4.1172	15.7815	27.4032	6.5174	5.4502	9.4638	0.3502	Negative
62	61	M	0.5702	2.5966	9.9789	17.5006	3.6024	35.2382	61.7997	5.3899	8.5743	15.0373	0.0017	Negative
63	70	M	0.5703	1.5257	2.8184	4.9419	5.5885	25.5821	44.8572	7.1846	6.2762	11.0052	0.2755	Negative
64	73	M	0.7773	0.6246	1.6043	2.0640	2.4996	28.0131	36.0389	7.0903	11.4753	14.7630	0.1398	Negative
65	70	M	0.9520	0.2676	1.1249	1.1816	1.5130	17.3616	18.2369	4.8451	9.9596	10.4617	0.1223	Negative
66	71	M	1.0843	0.8866	0.6470	0.5967	2.1338	7.8537	7.2431	8.4125	4.1352	3.8137	0.6102	Positive
67	73	M	0.8129	0.5010	1.5626	1.9222	2.5679	24.5791	30.2364	5.9226	11.3901	14.0116	0.1195	Negative
68	74	F	0.7533	0.4168	1.0744	1.4263	2.4578	19.0491	25.2875	6.7902	8.0976	10.7495	0.2195	Negative
69	74	F	1.1207	0.2807	1.1777	1.0509	2.2317	18.9235	16.8854	4.3174	8.9922	8.0237	0.1788	Negative
70	73	M	1.8867	0.6750	0.3851	0.2041	3.9601	5.7011	3.0217	8.4728	3.5988	1.9075	0.7813	Positive
71	73	M	1.4946	0.5852	1.4214	0.9510	5.9582	109.6069	73.3353	5.3850	5.3660	3.5903	0.6416	Positive
72	74	M	0.8785	0.3189	0.7699	0.8764	1.8947	13.2603	15.0943	6.2308	5.7460	6.5407	0.2919	Negative

73	74	M	0.7516	0.4193	2.1371	2.8434	1.5559	16.7061	22.2273	5.0395	13.4878	17.9455	0.0330	Negative
74	74	F	0.3886	0.7040	1.5828	4.0730	3.4901	20.9660	53.9528	5.7555	5.3435	13.7508	0.0840	Negative
75	74	M	1.2381	2.2697	0.1000	0.0808	2.5136	22.8805	18.4804	5.2536	10.3444	8.3551	0.5205	Positive
76	73	M	1.7288	0.5578	0.7345	0.4249	3.8141	26.0781	15.0845	3.2542	2.8220	1.6324	0.4643	Positive
77	75	M	0.5022	2.6500	2.1482	4.2775	5.7549	13.8448	27.5683	6.7201	1.9293	3.8417	0.6645	Positive
78	73	M	1.5354	0.4327	0.8310	0.5412	2.5257	14.0936	9.1791	5.2488	6.5769	4.2835	0.3829	Negative
79	70	M	0.6145	1.2141	4.5290	7.3702	3.6262	42.7639	69.5915	4.7821	12.3350	20.0733	0.0134	Negative
80	73	M	0.5803	0.5048	0.9656	1.6639	3.5877	22.6174	38.9753	4.2558	7.4381	12.8177	0.1347	Negative
81	70	M	1.1160	0.6737	1.4577	1.3062	2.3366	11.0106	9.8661	6.1465	9.5188	8.5293	0.2679	Negative
82	72	M	0.6306	0.4124	0.9576	1.5185	1.8569	10.2241	16.2132	6.2276	9.2552	14.6767	0.1072	Negative
83	61	M	1.6729	0.7528	0.3028	0.1810	3.2426	6.6013	3.9460	2.4503	1.3572	0.8113	0.4458	Positive
84	73	M	0.5535	0.3419	0.4878	0.8813	4.4531	16.7337	30.2325	4.2058	2.3583	4.2608	0.4184	Negative
85	70	M	0.4934	0.4554	0.5103	1.0343	2.6213	7.0260	14.2399	4.6948	3.3539	6.7976	0.2558	Negative
86	73	M	1.5192	2.0940	5.2655	3.4659	2.0940	5.2655	3.4659	5.0746	3.5752	2.3533	0.3560	Negative
87	73	M	0.6900	1.7361	2.6103	3.7830	1.7361	2.6103	3.7830	5.0947	5.5395	8.0282	0.1531	Negative
88	75	M	1.0697	0.6298	0.5903	0.5518	0.6298	0.5903	0.5518	3.3462	3.5479	3.3167	0.2181	Negative
89	61	F	0.6203	0.6883	0.9350	1.5073	0.6883	0.9350	1.5073	7.1505	6.1595	9.9299	0.1846	Negative
90	73	M	0.5294	0.4365	0.7655	1.4460	0.4365	0.7655	1.4460	4.9237	5.2686	9.9521	0.0989	Negative
91	73	M	1.2864	0.6452	1.8813	1.4625	0.6452	1.8813	1.4625	4.0177	8.8926	6.9128	0.1322	Negative
92	74	M	1.0691	2.1180	4.2735	3.9973	2.1180	4.2735	3.9973	5.0051	9.7351	9.1059	0.1622	Negative
93	62	F	0.8985	2.0053	2.9630	3.2977	2.0053	2.9630	3.2977	5.2126	4.0361	4.4921	0.3006	Negative
94	71	F	1.7648	0.6094	0.8690	0.4924	0.6094	0.8690	0.4924	6.4559	7.5207	4.2615	0.3464	Negative
95	72	M	0.7504	0.6607	1.4680	1.9563	0.6607	1.4680	1.9563	4.4853	4.9861	6.6446	0.1308	Negative
96	74	F	0.1771	0.7552	1.7943	10.1315	0.7552	1.7943	10.1315	5.2207	6.7550	38.1422	0.0002	Negative
97	74	M	1.1864	0.9010	1.4180	1.1952	0.9010	1.4180	1.1952	3.3025	4.3203	3.6415	0.2075	Negative

98	73	M	0.4315	0.4040	1.6239	3.7635	0.4040	1.6239	3.7635	4.2098	7.6073	17.6298	0.0147	Negative
99	72	M	0.9083	0.6263	1.7648	1.9430	0.6263	1.7648	1.9430	6.1134	6.8849	7.5800	0.1625	Negative
100	72	F	0.4438	0.9371	1.4957	3.3703	0.9371	1.4957	3.3703	6.7773	4.9539	11.1625	0.1005	Negative
101	72	F	0.2139	1.0599	0.9614	4.4947	2.2879	9.2515	43.2515	9.0965	6.1929	28.9522	0.0210	Negative
102	73	M	0.9863	0.5352	0.9053	0.9178	1.9386	8.8470	8.9699	9.2799	8.0981	8.2106	0.4379	Negative
103	73	M	0.9664	0.8271	1.5903	1.6456	2.9782	16.7639	17.3468	4.4627	5.5532	5.7463	0.2862	Negative
104	74	F	0.4571	2.1360	4.2622	9.3244	2.8175	18.2264	39.8740	8.8590	7.2460	15.8521	0.0383	Negative
105	66	M	2.4185	0.3512	0.5760	0.2382	2.1137	8.1256	3.3598	6.8547	6.1687	2.5506	0.5204	Positive
106	64	M	2.3200	0.5263	0.3757	0.1619	2.3890	5.9122	2.5484	3.2606	2.1644	0.9329	0.4031	Negative
107	67	M	2.3059	1.0072	1.9376	0.8403	3.4134	25.7399	11.1626	5.0866	15.0956	6.5465	0.4101	Negative
108	71	M	1.2502	0.7483	2.1759	1.7404	3.2928	33.8809	27.1004	6.1439	10.4046	8.3224	0.3069	Negative
109	74	F	0.3801	2.4307	2.0237	5.3241	4.3631	15.2472	40.1138	6.3553	4.5758	12.0384	0.2074	Negative
110	70	F	0.6110	0.4437	0.3302	0.5404	2.8903	9.7534	15.9629	6.0736	3.9185	6.4133	0.3926	Negative
111	64	M	1.6453	1.0119	2.9018	1.7637	3.2936	31.8352	19.3492	10.0485	23.3119	14.1688	0.3806	Negative
112	73	M	LCC ¹⁰⁾	1.0268	1.7350	2.3267	4.8230	15.4989	20.7843	10.7227	12.7315	17.0732	0.3923	Negative
113	69	M	1.3911	0.7879	0.6416	0.4612	3.0619	7.9165	5.6908	5.2214	4.7652	3.4255	0.4974	Positive
114	74	M	0.7915	0.6071	1.1035	1.3942	3.2669	18.7651	23.7083	7.9294	8.3806	10.5883	0.3484	Negative
115	74	M	0.8111	0.6642	0.6240	0.7693	3.2948	9.3858	11.5717	7.5241	3.8904	4.7965	0.5679	Positive
116	66	M	1.3229	0.7546	1.0359	0.7831	3.8807	19.3611	14.6353	4.8465	4.6889	3.5444	0.4982	Positive
117	72	F	1.1225	1.2669	0.8069	0.7189	3.3264	11.6747	10.4006	4.3367	3.6169	3.2222	0.5067	Positive
118	59	M	0.5667	0.8551	0.4978	0.8785	4.3700	10.7341	18.9413	7.4709	3.2063	5.6578	0.6276	Positive
119	75	F	0.3562	0.6349	2.4256	6.8096	2.6994	20.2460	56.8389	5.7431	13.3649	37.5208	0.0013	Negative
120	73	F	0.3114	0.4535	2.4626	7.9082	2.1213	21.6320	69.4669	5.0775	14.8482	47.6821	0.0002	Negative
121	71	M	1.9387	0.6271	0.2269	0.1170	3.2760	4.3599	2.2489	4.9612	1.5580	0.8036	0.5902	Positive
122	68	M	1.2037	0.4292	1.1919	0.9902	2.9145	19.5430	16.2358	5.7408	7.8338	6.5081	0.3345	Negative

123	72	F	0.6562	0.3978	0.5371	0.8186	2.7851	14.7548	22.4852	5.0440	3.4727	5.2922	0.3329	Negative
124	72	F	1.1584	1.4064	0.4568	0.3944	3.0075	10.2413	8.8409	7.6859	2.5792	2.2265	0.7430	Positive
125	61	M	0.4791	0.4658	0.3815	0.7962	2.5516	6.1461	12.8285	6.3765	2.7120	5.6607	0.3908	Negative
126	59	M	0.9429	0.5781	1.2911	1.3693	4.0430	21.4210	22.7182	6.1223	8.6213	9.1434	0.3406	Negative
127	74	M	0.5979	2.4874	1.5119	2.5286	7.4077	16.1067	26.9389	6.8414	3.8288	6.4038	0.8024	Positive
128	65	F	0.4105	0.7873	1.1127	2.7107	3.2036	19.0803	46.4805	7.1962	4.8053	11.7059	0.2077	Negative
129	64	M	1.0280	0.7121	1.7263	1.6793	4.6712	25.2425	24.5550	6.0378	10.4025	10.1191	0.3399	Negative
130	74	M	0.9851	0.7456	2.3672	2.4030	1.7738	14.3738	14.5912	5.1992	7.4629	7.5758	0.1641	Negative
131	69	F	0.3937	0.6365	0.5284	1.3422	3.5670	11.8269	30.0404	5.8559	2.1399	5.4354	0.4132	Negative
132	65	M	0.2930	0.8867	0.2965	1.0118	3.1038	5.4162	18.4854	4.8944	1.4889	5.0816	0.3931	Negative
133	55	M	1.6507	0.5446	2.0031	1.2135	3.1023	24.8622	15.0616	4.6669	7.7592	4.7006	0.3354	Negative
134	68	F	0.3043	0.4813	0.1419	0.4663	1.7498	2.4326	7.9942	3.1349	1.0438	3.4301	0.2574	Negative
135	59	M	0.8217	0.3764	0.4056	0.4936	3.3113	15.3091	18.6310	4.1754	5.0370	6.1300	0.3193	Negative
136	48	F	1.3779	0.4843	0.9515	0.6905	2.6765	26.1861	19.0044	4.3178	4.7988	3.4827	0.3580	Negative
137	66	M	1.7412	0.5335	0.9594	0.5510	2.5480	22.7548	13.0684	5.1009	6.1845	3.5519	0.4096	Negative
138	65	F	1.2832	0.4832	2.6976	2.1022	2.3933	27.5611	21.4784	6.5156	13.2445	10.3214	0.1819	Negative
139	74	F	0.2908	0.8296	0.4851	1.6682	3.6999	8.1820	28.1363	5.3236	1.7168	5.9038	0.3730	Negative
140	60	F	1.0331	0.4154	2.0595	1.9935	1.8384	20.9342	20.2635	3.1392	8.4994	8.2271	0.0983	Negative
141	69	F	0.5439	0.3056	0.2602	0.4784	3.0495	11.6853	21.4843	6.4165	2.8243	5.1927	0.4509	Positive
142	72	F	0.6591	0.9923	0.9647	1.4637	3.6402	11.5790	17.5680	4.6707	4.0468	6.1398	0.3605	Negative
143	73	F	1.3783	0.9393	2.6954	1.9556	3.0665	28.0192	20.3288	5.3338	7.2006	5.2243	0.3405	Negative
144	62	F	0.4523	0.4086	0.2137	0.4724	2.3180	8.2442	18.2273	2.6832	0.9273	2.0503	0.2962	Negative
145	51	M	0.9665	0.3416	0.5499	0.5689	2.1260	10.4421	10.8041	3.8403	3.0863	3.1933	0.2987	Negative
146	65	F	0.3937	0.4677	0.3415	0.8675	3.0070	8.2316	20.9082	5.9561	2.5128	6.3826	0.3706	Negative
147	48	M	1.0789	0.3237	0.6478	0.6004	1.7140	8.1342	7.5393	4.2384	3.2792	3.0393	0.2938	Negative

148	63	M	1.2846	0.3691	0.7753	0.6035	2.3244	16.5377	12.8738	4.5739	5.6156	4.3715	0.3174	Negative
149	57	M	0.7059	0.2865	0.3649	0.5169	1.9068	7.8664	11.1438	4.2800	2.7767	3.9335	0.2861	Negative
150	52	M	0.8571	0.2550	0.3510	0.4095	2.0632	9.6374	11.2442	4.8782	4.7544	5.5471	0.2875	Negative
151	65	F	0.6240	0.6939	1.4406	2.3086	2.9681	17.5332	28.0980	5.6870	5.1842	8.3080	0.2234	Negative
152	66	M	1.8824	0.3695	0.6804	0.3614	1.5706	8.0882	4.2968	7.3478	6.7583	3.5903	0.4689	Positive
153	62	M	1.9216	0.5049	1.4990	0.7801	1.9694	14.6547	7.6263	4.9882	10.1390	5.2763	0.2935	Negative
154	52	F	0.7263	0.3666	0.3044	0.4190	1.7983	5.6383	7.7630	4.1153	1.9369	2.6668	0.3209	Negative
155	73	F	0.9434	0.7198	0.6896	0.7309	2.1367	9.9708	10.5690	3.5513	2.4039	2.5481	0.3307	Negative
156	66	M	1.3067	0.5876	1.7631	1.3493	2.0100	12.3230	9.4307	6.9735	6.9816	5.3429	0.3660	Negative
157	61	M	1.4721	0.2643	0.3641	0.2473	1.8589	9.8293	6.6771	3.0972	3.3489	2.2749	0.2848	Negative
158	67	M	0.8410	0.4622	1.0945	1.3014	2.4493	15.9660	18.9845	5.8925	10.4014	12.3679	0.1638	Negative
159	63	M	0.9283	0.6544	1.1949	1.2872	2.1417	17.1205	18.4429	5.1866	3.3258	3.5827	0.3395	Negative
160	71	M	0.4152	1.2202	1.2072	2.9075	2.5729	9.0594	21.8193	6.6045	4.6419	11.1800	0.1896	Negative
161	70	F	0.3187	1.0297	0.7819	2.4535	2.5676	5.4077	16.9681	5.1535	2.2959	7.2041	0.2254	Negative
162	58	F	0.8790	0.3752	0.7271	0.8271	1.9889	16.3832	18.6385	5.9505	3.6898	4.1977	0.3586	Negative
163	49	M	0.6039	0.3454	0.6023	0.9974	1.8433	8.1912	13.5639	4.6562	4.3570	7.2148	0.1977	Negative
164	72	M	1.3101	0.5844	1.9709	1.5044	2.9722	29.6679	22.6455	4.8453	7.8757	6.0115	0.2833	Negative
165	61	F	0.8154	0.6185	1.4821	1.8177	2.7792	21.6983	26.6106	4.3567	6.7963	8.3349	0.1832	Negative
166	70	F	0.3014	0.5366	0.4283	1.4212	1.4740	4.7056	15.6125	4.4627	1.6232	5.3854	0.2019	Negative
167	74	F	0.3081	0.6142	0.2924	0.9491	2.6847	7.5944	24.6490	5.3207	1.3796	4.4778	0.3799	Negative
168	71	F	0.7816	0.6831	1.3275	1.6984	2.4435	16.5431	21.1656	7.3779	10.8261	13.8511	0.1841	Negative
169	74	F	0.5977	0.8719	1.7867	2.9894	2.7138	13.9384	23.3201	8.5665	8.4803	14.1883	0.1792	Negative
170	73	M	0.7116	0.5292	0.4492	0.6312	1.9315	7.3898	10.3848	3.1373	2.3207	3.2612	0.2654	Negative
171	74	F	0.2716	0.5016	0.3087	1.1367	2.4996	4.2566	15.6722	5.5742	1.7373	6.3964	0.2993	Negative
172	72	M	1.0751	0.4604	0.8457	0.7866	2.2870	11.0671	10.2940	5.9888	6.6833	6.2165	0.3348	Negative

173	73	M	0.6096	0.6626	0.9484	1.5558	2.5767	9.7404	15.9783	5.9186	4.8112	7.8924	0.2685	Negative
174	74	F	0.2055	0.9404	0.3241	1.5769	3.4370	6.2444	30.3864	4.6977	1.2643	6.1523	0.3333	Negative
175	73	M	0.8298	0.5647	0.8561	1.0317	2.1538	12.1326	14.6211	4.6470	5.3738	6.4760	0.2461	Negative
176	74	F	0.2923	0.5690	0.6170	2.1108	2.4712	9.7285	33.2827	4.0648	2.5715	8.7973	0.1367	Negative
177	71	M	0.4739	0.6161	0.4713	0.9946	2.1978	7.9981	16.8772	4.4438	2.9802	6.2887	0.2510	Negative
178	71	M	0.6763	0.7047	1.3489	1.9945	1.9002	10.7196	15.8503	3.9221	5.5535	8.2116	0.1346	Negative
179	74	M	0.7317	1.0118	1.8345	2.5072	3.2938	15.8438	21.6534	8.1033	10.5149	14.3705	0.2230	Negative
180	74	F	0.6442	0.5742	0.8558	1.3285	2.1932	14.9804	23.2542	4.1908	3.7611	5.8384	0.2249	Negative
181	61	M	1.7768	0.5711	2.8149	1.5843	1.9814	24.0556	13.5387	2.8053	15.5821	8.7698	0.1087	Negative
182	74	F	0.4170	1.0475	0.7857	1.8842	4.1390	12.1496	29.1357	7.8533	4.2501	10.1921	0.4280	Negative
183	73	M	1.2733	0.7219	0.9972	0.7832	1.9768	12.6256	9.9157	5.0729	4.5185	3.5486	0.3714	Negative
184	73	M	1.4120	0.6315	1.5545	1.1010	2.2701	18.1592	12.8606	4.5981	11.1760	7.9150	0.2188	Negative
185	73	M	0.6803	0.4870	0.5867	0.8624	3.0997	12.3794	18.1969	3.8050	5.2116	7.6608	0.2352	Negative
186	73	M	0.9320	0.3909	0.9282	0.9959	3.3902	17.2601	18.5194	5.3683	9.1034	9.7676	0.2539	Negative
187	74	F	0.3086	0.9290	0.4258	1.3796	2.9114	7.2987	23.6509	5.5468	1.9811	6.4196	0.3519	Negative
188	74	F	0.4017	1.0157	1.1076	2.7573	3.2216	10.3270	25.7083	5.8538	2.9830	7.4260	0.2661	Negative
189	73	M	2.1972	0.4230	1.7528	0.7977	1.6075	25.5879	11.6457	5.0169	15.8888	7.2314	0.2184	Negative
190	73	M	0.8005	0.7906	1.8653	2.3302	1.7463	12.1813	15.2172	5.6927	8.7497	10.9303	0.1304	Negative
191	73	M	0.7908	0.6360	1.1398	1.4413	1.5632	10.4570	13.2233	4.7488	3.5668	4.5103	0.2453	Negative
192	74	M	0.8598	0.4513	1.1878	1.3815	1.3162	7.4798	8.6995	4.1057	6.2661	7.2879	0.1442	Negative
193	74	F	0.8782	0.6458	1.9447	2.2144	2.2449	19.1051	21.7549	4.1701	8.3425	9.4996	0.1222	Negative
194	74	M	1.3714	0.6778	2.7975	2.0399	1.7831	16.6902	12.1702	8.9577	14.9906	10.9309	0.2602	Negative
195	73	M	0.7354	0.8035	0.8078	1.0985	2.9959	12.9569	17.6188	5.4959	6.5623	8.9234	0.2925	Negative
196	73	M	0.2106	0.5064	0.2391	1.1354	2.9295	4.7259	22.4400	4.2860	3.1969	15.1797	0.1033	Negative
197	74	M	0.5826	0.4646	0.4082	0.7006	1.4790	6.8616	11.7776	4.7564	3.1698	5.4408	0.2513	Negative

198	73	M	1.7390	0.5718	1.4863	0.8547	1.8215	23.6521	13.6010	4.4170	11.7307	6.7456	0.2241	Negative
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^aValues of combined sTFF1/2/3+uTFF1/3, ^bjudgement: Positive, ≥ 0.443 and Negative < 0.443 . M, male; F, female; uCre, urinary creatinine; sTFF, serum trefoil factor family; uTFF, urinary TFF.

Table SIII. All data of immunohistochemical results in 100 patients with lung cancer.

Case number	Final TFF1 score	TFF1 score (obs. 1)	TFF1 score (obs. 2)	Final TFF2 score	TFF2 score (obs. 1)	TFF2 score (obs. 2)	Final TFF3 score	TFF3 score (obs. 1)	TFF3 score (obs. 2)
1	0	0	0	2	2	2	6	4	6
3	2	2	1	0	0	0	0	0	0
4	0	0	0	0	0	0	2	2	3
7	3	3	3	1	1	1	6	6	6
8	0	0	0	0	1	0	1	1	1
10	3	2	3	1	1	2	0	0	1
11	0	0	0	0	0	0	1	1	1
12	0	0	0	0	0	0	2	2	2
13	0	0	0	0	0	0	0	0	0
14	0	0	0	1	1	1	2	2	1
15	0	0	0	1	1	1	0	0	1
16	0	0	0	1	1	1	0	0	0
17	1	1	0	0	0	0	2	2	2
18	3	3	3	0	0	0	0	0	0
19	2	2	2	0	0	1	0	0	0
20	0	0	0	3	3	3	2	2	2
21	4	4	6	2	2	3	4	4	4
22	0	0	0	0	1	0	0	0	0
24	2	2	1	0	0	0	6	6	6
25	2	1	2	0	0	0	0	0	0
26	1	1	1	2	2	1	2	2	2
27	0	0	0	4	4	4	0	0	0
28	0	0	0	0	0	0	6	6	6
30	6	6	6	6	6	6	6	6	6
32	4	4	4	0	0	0	0	0	0
34	2	2	2	0	0	0	3	3	3
35	6	6	6	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	3	3	3
38	2	2	1	4	4	2	2	1	2
41	0	0	0	3	3	3	4	4	4
42	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	3	3	3
45	2	2	2	0	1	0	0	0	0
46	0	0	0	0	0	0	0	0	0
47	0	1	0	2	2	2	2	2	2
48	0	0	0	0	0	1	0	0	0
49	0	0	0	0	0	0	1	1	0
50	6	6	6	0	0	1	0	0	0
51	0	0	0	0	0	0	1	1	1

53	0	0	0	2	2	2	1	1	1
55	0	0	0	0	0	0	1	1	1
56	0	0	0	0	0	0	0	0	0
57	0	0	0	0	0	0	2	2	4
58	1	1	1	2	2	3	0	0	1
59	0	0	0	0	0	0	2	2	2
60	2	2	2	0	0	0	4	4	4
62	0	0	0	0	0	0	2	2	2
63	4	4	4	0	0	0	6	6	6
65	1	1	1	0	0	0	6	6	6
67	0	0	0	0	1	0	2	2	2
68	4	4	4	0	0	0	6	6	6
70	0	0	0	0	0	0	0	1	0
72	0	0	0	0	0	0	0	0	0
73	3	3	3	0	0	1	1	1	0
75	1	1	1	0	0	0	2	2	2
76	4	2	4	0	0	0	0	0	0
77	0	0	0	3	3	2	1	1	1
81	4	4	4	3	3	3	4	4	4
84	2	2	1	3	3	3	0	0	1
85	0	0	0	2	2	3	0	0	0
86	0	0	0	0	0	0	0	0	0
93	0	0	0	2	2	1	0	1	0
98	3	3	3	2	2	2	0	0	0
99	0	0	0	0	0	0	2	2	2
100	0	0	0	2	2	2	0	0	0
101	3	3	3	3	3	3	0	0	0
102	2	2	4	6	6	6	2	2	2
103	0	0	0	0	0	0	0	0	0
105	2	2	1	4	4	2	1	0	1
107	1	1	1	2	2	2	0	0	0
108	0	0	0	3	3	3	0	0	0
109	2	2	2	0	0	0	0	0	0
113	0	0	0	0	0	0	2	2	2
114	0	0	0	2	2	2	0	0	0
115	0	0	0	6	6	6	0	0	0
116	0	0	0	0	0	0	0	0	0
117	0	0	0	0	0	0	0	0	0
118	0	0	0	0	0	0	0	0	0
121	3	3	3	0	0	0	0	0	0
122	3	3	4	0	0	0	0	0	0
123	0	0	0	0	0	0	1	1	1
124	0	0	0	2	2	2	0	0	0

125	3	3	3	0	0	0	2	2	2
126	0	0	0	0	0	0	4	4	4
128	2	2	2	0	1	0	4	4	4
131	0	0	1	0	0	0	2	2	2
132	0	0	0	0	0	0	2	2	2
133	4	4	4	0	0	0	2	2	1
135	1	1	1	4	4	6	6	6	6
142	4	4	4	0	0	0	3	3	3
143	0	0	0	0	0	0	1	0	1
149	0	0	0	2	2	2	0	0	0
153	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0
158	0	0	0	0	0	0	0	0	0
160	0	0	0	2	2	2	0	0	1
162	3	3	3	4	4	4	0	0	0
174	0	0	0	2	2	2	0	0	0
175	0	0	0	4	4	6	0	0	0

obs. 1, immunohistochemical score evaluated by observer 1; obs. 2, immunohistochemical score evaluated by observer 2; TFF, trefoil factor family.