

Supplementary table S1. The number of cells in each subpopulation in different stage of LUAD.

Stage	GSE Accession	Sample	B	CD4	CD8	Endothelial	Epithelial	Fibroblast	Mast	Myeloid	NK	Treg	Total
normal	GSE131907	S01	77	125	775	29	161	14	220	1153	373	23	2950
normal	GSE131907	S02	35	121	445	176	481	803	28	1310	626	33	4058
normal	GSE131907	S03	54	125	816	85	547	174	65	1588	1412	23	4889
normal	GSE131907	S04	26	143	904	9	135	9	30	1167	208	10	2641
normal	GSE131907	S05	48	208	468	111	235	18	83	1236	734	24	3165
normal	GSE131907	S06	85	129	346	49	337	50	99	1081	178	21	2375
normal	GSE131907	S07	63	333	925	170	293	157	77	1956	300	81	4355
normal	GSE131907	S08	43	201	559	385	156	75	184	1087	1037	20	3747
normal	GSE131907	S09	33	252	592	73	263	15	151	3291	783	21	5474
normal	GSE131907	S10	23	345	1212	10	207	12	50	661	634	36	3190
normal	GSE131907	S11	41	228	1197	181	296	226	55	906	615	41	3786
early	GSE131907	S12	516	525	785	52	92	472	95	564	39	177	3317
early	GSE131907	S13	998	1241	554	12	9	196	93	266	18	286	3673
early	GSE131907	S14	175	382	1297	21	78	17	52	1376	55	226	3679
early	GSE131907	S15	274	353	466	17	291	182	86	976	14	248	2907
early	GSE131907	S16	415	798	482	152	255	112	428	1149	184	229	4204
early	GSE131907	S17	70	549	1237	2	299	17	83	862	78	542	3739
early	GSE131907	S18	1554	902	382	29	184	18	178	686	88	218	4239
early	GSE131907	S19	140	400	664	153	832	73	479	942	131	224	4038
early	GSE131907	S20	36	69	191	19	1644	28	39	293	54	52	2425
advanced	GSE131907	S21	597	380	912	27	603	45	154	943	97	212	3970
advanced	GSE131907	S22	444	977	2231	126	166	458	119	376	139	321	5357
advanced	GSE131907	S23	111	279	197	1	891	2	1	371	126	10	1989
advanced	GSE131907	S24	6	47	121	3	3406	10	37	123	21	42	3816
advanced	GSE131907	S25	190	277	505	0	85	0	3	259	317	12	1648
advanced	GSE131907	S26	165	269	749	12	329	81	56	433	150	366	2610
advanced	GSE148071	S27	85	2	8	8	1565	11	5	51	1	1	1737
advanced	GSE148071	S28	129	17	16	8	517	115	103	1200	1	17	2123
advanced	GSE148071	S29	9	7	3	1	860	1	28	91	0	5	1005
advanced	GSE148071	S30	20	33	48	0	122	3	26	908	34	15	1209
advanced	GSE148071	S31	239	32	107	4	471	0	17	786	8	43	1707
advanced	GSE148071	S32	89	1	10	20	1423	9	2	599	2	1	2156
advanced	GSE148071	S33	142	23	20	2	460	40	64	465	0	12	1228
advanced	GSE148071	S34	169	2	25	303	2144	499	25	243	5	8	3423