

1:1 matched male and female TCGA-LUSC cases adjusting for gender, smoking amount (pack-years), age, and tumor stage

Tumor Sample Barcode	No of subclones	Gender	Pack-years	Age	Tumor stage	Distance	Weights
TCGA-18-3407	1	male	40	72.9	I	0.315084026	1
TCGA-18-3415	1	male	30	77.9	I	0.342826284	1
TCGA-18-3416	2	male	40	83.4	II	0.287672961	1
TCGA-18-5592	3	male	40	57.6	II	0.270522775	1
TCGA-21-1078	2	male	9	77.1	I	0.39555308	1
TCGA-21-1080	2	male	100	66.4	I	0.189510786	1
TCGA-21-5786	2	male	75	64.8	I	0.234072534	1
TCGA-22-0940	2	male	25	72	II	0.314196704	1
TCGA-22-1000	1	male	40	76.4	I	0.317585392	1
TCGA-22-1005	1	male	40	63.9	I	0.3087012	1
TCGA-22-1011	1	male	83	73.2	I	0.22355557	1
TCGA-22-4595	2	male	37	57.9	III	0.245423351	1
TCGA-22-4604	3	male	50	73.8	II	0.259677323	1
TCGA-22-4609	2	male	77	81.8	I	0.240284596	1
TCGA-22-5471	3	male	50	76	I	0.294127407	1
TCGA-22-5474	2	male	50	74.7	I	0.293236276	1
TCGA-22-5479	2	male	35	64.6	I	0.320978098	1
TCGA-22-5482	2	male	60	81.3	I	0.275455618	1
TCGA-22-5483	5	male	50	74.3	II	0.259995097	1
TCGA-22-5491	3	male	57	74.4	I	0.27744806	1
TCGA-33-4566	3	male	20	40.1	I	0.339296755	1
TCGA-33-A4WN	1	male	60	61	I	0.26227063	1
TCGA-33-AASD	3	male	84	83.9	I	0.227826195	1
TCGA-34-5231	3	male	50	72.7	I	0.291868397	1
TCGA-34-8455	2	male	50	67.5	IV	0.198074205	1
TCGA-37-4133	3	male	40	63.2	III	0.242610478	1
TCGA-37-4135	2	male	45	68.6	I	0.300425759	1

TCGA-39-5027	1	male	40	73.2	I	0.315298012	1
TCGA-39-5028	2	male	30	75.9	III	0.271457041	1
TCGA-39-5040	2	male	60	59.7	III	0.202877653	1
TCGA-43-5668	3	male	20	78.5	II	0.33081815	1
TCGA-43-5670	2	male	30	70.3	II	0.301367572	1
TCGA-43-7656	2	male	45	71.2	I	0.30223463	1
TCGA-43-A474	4	male	47	66.5	II	0.26134159	1
TCGA-56-1622	5	male	86	58.6	I	0.209809319	1
TCGA-56-7221	2	male	25	79.1	I	0.35614069	1
TCGA-56-7222	1	male	23	60.5	I	0.347107413	1
TCGA-56-7579	2	male	2	62	III	0.325767514	1
TCGA-56-7822	1	male	60	76	II	0.240564817	1
TCGA-56-8305	1	male	100	72.4	I	0.19257501	1
TCGA-56-8622	2	male	40	68.1	I	0.311670962	1
TCGA-56-8624	1	male	20	84.4	II	0.335148542	1
TCGA-56-A4BX	4	male	83	70.5	II	0.194827501	1
TCGA-58-A46K	1	male	10	59.9	III	0.305403326	1
TCGA-60-2703	1	male	50	74	II	0.259804402	1
TCGA-60-2707	1	male	49	70.6	I	0.292691925	1
TCGA-60-2722	3	male	90	66.5	II	0.181145345	1
TCGA-63-A5MB	4	male	25	62.8	I	0.343887076	1
TCGA-63-A5MH	4	male	35	68.9	I	0.324082995	1
TCGA-63-A5ML	3	male	60	68.3	I	0.266964887	1
TCGA-63-A5MP	2	male	41	57	II	0.267983911	1
TCGA-63-A5MS	2	male	6	79	I	0.404924577	1
TCGA-63-A5MU	4	male	15	48.8	II	0.321250834	1
TCGA-63-A5MW	3	male	60	76.4	I	0.272235679	1
TCGA-63-A5MY	2	male	40	63.8	I	0.308630682	1
TCGA-66-2742	4	male	44	70.4	IV	0.210275523	1
TCGA-66-2770	3	male	25	79.3	I	0.356292257	1

TCGA-66-2773	3	male	58	69.5	I	0.272045525	1
TCGA-66-2777	3	male	12	71.5	I	0.383363173	1
TCGA-66-2785	2	male	70	65.1	I	0.244186857	1
TCGA-66-2787	2	male	40	57.9	I	0.304486005	1
TCGA-66-2788	1	male	80	56.5	I	0.219687341	1
TCGA-66-2792	3	male	10	58.7	II	0.340580332	1
TCGA-68-7757	1	male	25	74.7	I	0.352813553	1
TCGA-68-8250	3	male	50	66.1	I	0.287381135	1
TCGA-77-8007	2	male	100	68.8	II	0.166558698	1
TCGA-77-8128	4	male	113	60.2	III	0.125038126	1
TCGA-77-8130	1	male	32.25	69.2	II	0.295462173	1
TCGA-77-8131	1	male	69	72.9	I	0.251023031	1
TCGA-77-8133	3	male	22	74.4	II	0.323030872	1
TCGA-77-8138	2	male	54	74.6	I	0.28419811	1
TCGA-77-8156	1	male	57.5	60.8	I	0.267457878	1
TCGA-77-A5G3	2	male	40	63.5	II	0.274387528	1
TCGA-77-A5G8	2	male	90	71	II	0.183361617	1
TCGA-77-A5GH	2	male	11	81.8	I	0.394045377	1
TCGA-85-7697	3	male	30	49.1	II	0.286825554	1
TCGA-85-7844	2	male	40	71.6	I	0.314157661	1
TCGA-85-8072	3	male	15	60.5	I	0.367162076	1
TCGA-85-8276	2	male	20	62.2	II	0.319004127	1
TCGA-85-8287	2	male	50	72.3	I	0.291595271	1
TCGA-85-8351	2	male	60	72.4	II	0.238398099	1
TCGA-85-8353	2	male	50	72.7	III	0.228599543	1
TCGA-85-8354	2	male	30	54	I	0.325259515	1
TCGA-85-8582	2	male	40	49.8	I	0.298847213	1
TCGA-85-A4JB	2	male	25	74.8	II	0.316193916	1
TCGA-85-A50M	1	male	15	47.8	II	0.320530693	1
TCGA-85-A50Z	3	male	45	57.4	II	0.259755951	1

TCGA-85-A511	2	male	40	62.4	II	0.273664383	1
TCGA-85-A5B5	3	male	15	58.8	I	0.365857724	1
TCGA-94-8035	3	male	50	64.1	II	0.253562587	1
TCGA-94-8491	2	male	56	73.1	II	0.24684971	1
TCGA-94-A5I4	4	male	80	61.1	II	0.195094224	1
TCGA-96-A4JK	3	male	110	65.7	II	0.150629922	1
TCGA-98-8022	3	male	117	61.6	I	0.160473408	1
TCGA-98-A53B	2	male	40	69.6	I	0.312735372	1
TCGA-98-A53J	2	male	100	78	I	0.195468861	1
TCGA-L3-A4E7	2	male	25	71.9	I	0.350703666	1
TCGA-LA-A446	3	male	26	69	I	0.346049032	1
TCGA-LA-A7SW	1	male	37	71.6	III	0.253903821	1
TCGA-NC-A5HD	3	male	50	79.2	II	0.263122602	1
TCGA-NC-A5HE	2	male	30	60.8	II	0.294799254	1
TCGA-NC-A5HM	4	male	50	76.5	I	0.294470569	1
TCGA-NC-A5HN	2	male	100	77.1	II	0.170401108	1
TCGA-NK-A5CR	5	male	40	77.1	I	0.318086938	1
TCGA-NK-A5CX	1	male	40	73.6	II	0.281082568	1
TCGA-18-3408	2	female	30	77.2	I	0.342305312	1
TCGA-18-3411	3	female	50	64	III	0.223569289	1
TCGA-21-1070	1	female	15	61	III	0.294699533	1
TCGA-21-1076	1	female	35	54.4	I	0.31367636	1
TCGA-21-5782	2	female	48	68.4	I	0.293448292	1
TCGA-21-5784	2	female	14	80.4	I	0.385154076	1
TCGA-22-1012	3	female	60	80.2	I	0.274730723	1
TCGA-22-4594	1	female	40	60.6	III	0.241035187	1
TCGA-22-4596	1	female	40	69.7	I	0.312806403	1
TCGA-22-4599	2	female	25	73.8	I	0.352134744	1
TCGA-22-4601	1	female	60	73.8	III	0.210517309	1
TCGA-22-4605	1	female	75	78.4	I	0.242226058	1

TCGA-22-4613	3	female	30	73.2	I	0.339335644	1
TCGA-22-5480	2	female	50	66.4	I	0.287584206	1
TCGA-22-5481	3	female	75	72.4	II	0.209938552	1
TCGA-22-5485	2	female	60	58.9	I	0.260930124	1
TCGA-22-5492	2	female	50	73.5	III	0.22906607	1
TCGA-33-4533	2	female	50	76.7	I	0.2946079	1
TCGA-33-4589	1	female	45	62.3	II	0.262881601	1
TCGA-33-AAS8	1	female	60	59.4	I	0.26124889	1
TCGA-33-AASI	2	female	60	65.7	II	0.23440141	1
TCGA-33-AASL	2	female	60	57.4	I	0.259975337	1
TCGA-34-2600	3	female	50	76.9	I	0.294745267	1
TCGA-34-5234	1	female	40	71.4	I	0.314015274	1
TCGA-34-5240	3	female	56	73.2	II	0.246911153	1
TCGA-34-5928	1	female	40	83.1	II	0.287469852	1
TCGA-34-5929	2	female	40	79	I	0.319450403	1
TCGA-34-8454	2	female	90	62.8	III	0.156330507	1
TCGA-34-8456	1	female	20	71.7	II	0.325862544	1
TCGA-37-4129	1	female	30	52.5	I	0.324172584	1
TCGA-39-5011	2	female	45	70.7	I	0.301886291	1
TCGA-39-5024	2	female	40	65.7	III	0.244131766	1
TCGA-39-5030	1	female	8	81.9	III	0.32581941	1
TCGA-39-5031	2	female	60	77	I	0.27262869	1
TCGA-39-5034	3	female	84	73.1	II	0.194462422	1
TCGA-39-5035	1	female	47	72.3	I	0.298408906	1
TCGA-43-2576	2	female	20	62.5	III	0.284486373	1
TCGA-43-2578	3	female	64	59.6	I	0.253031263	1
TCGA-43-2581	2	female	30	47.8	III	0.253486655	1
TCGA-43-6647	2	female	36	69.5	II	0.287212029	1
TCGA-43-6770	2	female	34	59.4	I	0.319614589	1
TCGA-43-7657	1	female	45	68.6	I	0.300425759	1

TCGA-43-7658	1	female	12	76	I	0.386884602	1
TCGA-43-8115	2	female	55.83	72.3	II	0.2467034	1
TCGA-43-8118	3	female	20	55.4	I	0.350721541	1
TCGA-43-A475	2	female	100	67.6	II	0.166008942	1
TCGA-43-A56U	1	female	20.5	76.3	I	0.365339499	1
TCGA-51-4079	2	female	25	73.7	I	0.352059358	1
TCGA-51-6867	1	female	40	72.7	I	0.314941412	1
TCGA-52-7622	2	female	22	62.5	I	0.351090737	1
TCGA-52-7810	2	female	20	60.9	II	0.318071589	1
TCGA-56-7731	1	female	100	67	I	0.189815519	1
TCGA-56-7823	1	female	80	58.5	II	0.193748536	1
TCGA-56-8304	1	female	58	73.4	I	0.274605306	1
TCGA-56-8307	1	female	35	55.9	II	0.280297762	1
TCGA-56-8503	1	female	91	77	II	0.184699079	1
TCGA-56-A4ZJ	1	female	100	75.4	I	0.194121212	1
TCGA-56-A5DS	2	female	50	72.2	I	0.291527014	1
TCGA-58-8391	3	female	30	57.8	III	0.259790794	1
TCGA-58-8393	2	female	7	68.9	I	0.394297115	1
TCGA-60-2695	4	female	64	74.6	I	0.26251431	1
TCGA-60-2708	3	female	20	64.9	II	0.320945568	1
TCGA-60-2710	1	female	63	67.6	II	0.229682132	1
TCGA-60-2711	2	female	39	64.8	I	0.31167433	1
TCGA-60-2712	1	female	10	79.8	II	0.356409615	1
TCGA-60-2714	4	female	90	66.2	II	0.180998337	1
TCGA-60-2719	3	female	7	83.2	I	0.405637648	1
TCGA-60-2720	2	female	110	60.9	I	0.170713825	1
TCGA-60-2723	1	female	58	74.6	I	0.275395935	1
TCGA-63-A5MM	1	female	30	69.4	II	0.300741749	1
TCGA-63-A5MR	1	female	120	70.9	I	0.16020013	1
TCGA-66-2727	2	female	56	55.2	I	0.267041852	1

TCGA-66-2734	1	female	40	62.8	I	0.307925998	1
TCGA-66-2757	2	female	72	65.8	I	0.240600692	1
TCGA-66-2763	3	female	40	63.9	I	0.3087012	1
TCGA-66-2778	2	female	37	68.7	III	0.252092663	1
TCGA-66-2786	2	female	74	68.6	I	0.238308061	1
TCGA-68-7755	2	female	78	60.1	II	0.198021634	1
TCGA-68-A59J	2	female	45	74.1	I	0.30425948	1
TCGA-77-7142	2	female	52.5	59.7	I	0.277561609	1
TCGA-77-7335	2	female	52	62.6	III	0.219008398	1
TCGA-77-8136	1	female	135	74.5	II	0.12200151	1
TCGA-77-8140	2	female	78	66.9	II	0.20161452	1
TCGA-77-8153	4	female	25	77.4	I	0.354853537	1
TCGA-85-7710	2	female	45	59.7	I	0.294280945	1
TCGA-85-8580	1	female	38	52.9	I	0.305613556	1
TCGA-85-A510	2	female	45	74.2	II	0.2705725	1
TCGA-90-7766	2	female	30	66.7	I	0.334536857	1
TCGA-90-A59Q	1	female	80	61.4	II	0.195249951	1
TCGA-92-7340	3	female	15	45.1	II	0.318590585	1
TCGA-92-8065	2	female	14	74.1	II	0.342200853	1
TCGA-94-A4VJ	2	female	37.5	71.2	I	0.31978232	1
TCGA-96-8169	1	female	35	67.6	I	0.323142655	1
TCGA-96-8170	1	female	50	75.5	II	0.260758782	1
TCGA-98-8021	1	female	60	76	I	0.27197387	1
TCGA-L3-A524	3	female	25.6	45.9	II	0.294552612	1
TCGA-NC-A5HI	2	female	60	68.4	I	0.267029561	1
TCGA-NC-A5HK	3	female	40	59	II	0.27143673	1
TCGA-NC-A5HO	3	female	30	70.4	III	0.267877499	1
TCGA-NC-A5HR	1	female	35	75.7	II	0.293684957	1
TCGA-O2-A52Q	3	female	1	45	III	0.31590646	1
TCGA-O2-A52S	2	female	3	58	III	0.32048793	1

TCGA-O2-A52V	1	female	1	75.2	II	0.37568718	1
TCGA-O2-A51B	2	female	2.5	71.8	III	0.331708859	1
TCGA-XC-AA0X	1	female	30	77.3	I	0.342379713	1