

Supplementary Table 1: Characteristics and genomic alterations of SCLC specimens

ID	TISSUE PROFILED	MEDIA N EXON DEPT H	GEN D ER	KNOWN SOMATIC SHORT-VARIANTS (PERCENT-READS,COVERAGE)	LIKELY INACTIVATING SHORT-VARIANTS (PERCENT-READS, COVERAGE)	HIGH-LEVEL (CN>8) AND FOCAL (CN>5) AMPLIFICATIONS	HOMOZYGOUS DELETIONS OF Known TSGs	LIKELY FUNCTIONAL REARRANGEMENTS
1	Brain	711	F	TP53_c.535C>T_p.H179Y(0.44,525)	none	none	none	none
2	Lymph Node	512	F	EGFR_c.2235_2249delGGAATTAAGAGAAGC_p.E746_A750del(0.54,451), PIK3CA_c.3140A>G_p.H1047R(0.79,622), RB1_c.1901C>G_p.S634*(0.65,310)	none	none	CDKN2A_loss(0, exons 5 of 5), CDKN2B_loss(0, exons 5 of 5), TP53_loss(0, exons 14 of 14)	none
3	Pleural	1298	F	none	none	MYCL1_amplification(none	none

	Fluid					30, exons 5 of 5)		
4	Lung	794	M	TP53_c.844C>T_p.R282W(0.54, 737)	KDM6A_c.1183A>T_p.K395*(0.7,302), MLL2_c.15631G>T_p.E5211*(0.35,943), RB1_c.835A>T_p.K279*(0.51,264)	none	none	none
5	Lymph Node	1146	F	TP53_c.659A>G_p.Y220C(0.83,830)	RB1_c.381-2A>G_p.splice(0.79,660)	MYCL1_amplification(24, exons 5 of 5)	none	SPEN_CTTNBP2N L_truncation_3847
6	Lung	1161	F	TP53_c.752T>A_p.I251N(0.28,882)	none	none	none	none
7	Liver	1153	F	CASP8_c.677C>T_p.S226L(0.09, 1164), NFE2L2_c.187G>C_p.E63Q(0.54, 1312), TP53_c.481G>T_p.A161S(0.73,847), TP53_c.480G>T_p.M160I(0.73,861)	RB1_c.610G>T_p.E204*(0.71,651), TSC2_c.3446_3447insC_p.L1150fs*18(0.4, 1043)	ZNF703_amplification(8, exons 2 of 2), FGF10_amplification(9, exons 3 of 3), FGFR1_amplification(8, exons 18 of 18), RICTOR_amplification(9, exons 39 of 39)	none	none
8	Lung	845	M	none	MLL2_c.10867_10868insC_p.Q3623fs*52(0.67,641), RB1_c.2501C>A_p.S834*(0.66,788)	none	none	none
9	Chest Wall	854	F	none	none	none	RB1_loss(0, exons 18 of	none

								27)	
10	Mediastinum	1292	M	none		MEN1_c.1258C>T_p.R420*(0.38,906)	none	none	none
11	Lymph Node	887	F	TP53_c.574C>T_p.Q192*(0.93,1219)		none	none	RB1_loss(0, exons 27 of 27)	none
12	Trachea	806	M	none		none	none	RB1_loss(0, exons 27 of 27)	none
13	Lymph Node	738	F	CSF1R_c.110C>T_p.T37M(0.67,767)		RB1_c.1499-1G>T_p.splice(0.99,564), TP53_c.920-2A>G_p.splice(0.97,583)	none	none	none
14	Lung	840	M	TP53_c.707A>G_p.Y236C(0.04,923)		LRP1B_c.5636C>G_p.S1879*(0.05,669), RB1_c.1681_1682insT_p.A562fs*10(0.05,641)	none	none	none
15	Bone	642	M	none		ARID2_c.1176_1177delTG_p.C392fs*1(0.39,1053)		CCND1_amplification(13, exons 5 of 5), CDK4_amplification(13, exons 7 of 7)	none
16	Liver	943	F	CSF1R_c.95T>G_p.V32G(0.28,774)		TP53_c.920-1G>T_p.splice(0.54,1079)	none	none	none
17	Pleural Fluid	769	F	BRAF_c.1406G>T_p.G469V(0.43,849), TP53_c.892G>T_p.E298*(0.79,557)		MLL2_c.12025_12025delT_p.S4010fs*12(0.42,923), RB1_c.1215+1G>T_p.splice(0.79,485)	none	none	KIT_intergenicRegion_truncation_12

18	Small Intestine	696	M	TP53_c.743G>C_p.R248P(0.73,657)	none	MCL1_amplification(8, exons 5 of 5)	PTEN_loss(0, exons 4 of 9)	none
19	Lung	597	M	TP53_c.1006G>T_p.E336*(0.62,343)	APC_c.1774_1792delTTATGGAATTTGTCA GCAC_p.L592fs*12(0.68,291)	MYST3_amplification(6, exons 16 of 16)	none	none
20	Lung	617	F	TP53_c.853G>A_p.E285K(0.26,739)	BRCA2_c.9976A>T_p.K3326*(0.64,801), NOTCH1_c.5527_5528insGT_p.W1843fs*45(0.18,534)	RICTOR_amplification(7, exons 39 of 39)	none	none
21	Lung	730	M	TP53_c.746G>T_p.R249M(0.93,626)	RB1_c.2520+1G>A_p.splice(0.95,582), TSC1_c.2851C>T_p.Q951*(0.45,638)	ARFRP1_amplification(7, exons 6 of 6)	none	none
22	Brain	576	F	none	none	KRAS_amplification(6, exons 5 of 5)	none	MLL2_TM9SF2_rearrangement_237, BRCA2_intergenicRegion_truncation_226
23	Lung	563	F	TP53_c.839G>C_p.R280T(0.37,484)	ATRX_c.3910G>T_p.G1304*(0.28,566), MLL2_c.3398C>G_p.S1133*(0.3,672)	none	none	none
24	Brain	672	F	TP53_c.734G>T_p.G245V(0.95,751)	RB1_c.2438_2439insT_p.K814fs*1(0.87,582)	none	none	none
25	Pleura	684	F	BRIP1_c.587A>G_p.N196S(0.66,929), EGFR_c.2573T>G_p.L858R(0.25,897), TP53_c.892G>T_p.E298*(0.84,454)	none	CCND3_amplification(10, exons 5 of 5), IRS2_amplification(13, exons 5 of 5),	RB1_loss(0, exons 10 of 27)	none

							MYC_amplification(12, exons 5 of 5), PIK3CA_amplification(7, exons 20 of 20), SOX2_amplification(12, exons 5 of 5)		
26	Lymph Node	770	F	MLL2_c.7829T>C_p.L2610P(0.51,998), RB1_c.1666C>T_p.R556*(0.89,498), STAG2_c.914G>T_p.R305L(0.42,783), TP53_c.772G>A_p.E258K(0.94,781)	NOTCH3_c.4903G>T_p.E1635*(0.49,542)		MYCN_amplification(24, exons 5 of 5)	none	none
27	Lymph Node	630	M	TP53_c.892G>T_p.E298*(0.95,613)	none		none	none	none
28	Lymph Node	660	F	TP53_c.535C>T_p.H179Y(0.89,521)	MAP3K1_c.237_240delCCTT_p.F79fs*105(1.0,75)		none	RB1_loss(0, exons 4 of 27)	none
29	Lymph Node	493	F	TP53_c.404G>T_p.C135F(0.87,656)	MLL2_c.3578_3578delC_p.T1195fs*17(0.52,940), SPEN_c.6369_6370delAA_p.S2124fs*1(0.57,778)		none	RB1_loss(0, exons 15 of 27)	none
3	Lung	623	F	none	RB1_c.1498+2T>C_p.splice(0.48,582),		none	none	none

0					TP53_c.783-1G>T_p.splice(0.5,519)			
3 1	Lung	617	F	TP53_c.716A>C_p.N239T(0.66,652), VHL_c.556G>A_p.E186K(0.21,560)	none	MYC_amplification(16, exons 5 of 5), MYCL1_amplification(16, exons 5 of 5)	none	none
3 2	Lung	706	F	MLL2_c.6496C>T_p.Q2166*(0.25,561)	RB1_c.2331_2331delT_p.T778fs*32(0.27,670), TP53_c.954_954delA_p.K319fs*26(0.48,760)	EPHA3_amplification(8, exons 17 of 17)	none	none
3 3	Lung	720	F	CREBBP_c.1399G>A_p.A467T(0.91,561), TP53_c.536A>G_p.H179R(0.83,509)	TSC1_c.2813+2T>G_p.splice(0.22,165)	none	RB1_loss(0, exons 15 of 27), TSC1_loss(0, exons 21 of 21)	none
3 4	Lung	665	F	TP53_c.734G>T_p.G245V(0.6,772)	none	NKX2-1_amplification(8, exons 5 of 5), EPHB1_amplification(9, exons 16 of 16), PIK3CA_amplification	none	none

						n(9, exons 20 of 20), SOX2_amplification(9, exons 5 of 5), FGF12_amplification(9, exons 6 of 6), EPHA3_amplification(9, exons 17 of 17)		
35	Lung	807	F	PTEN_c.274G>C_p.D92H(0.82,383), TP53_c.733G>T_p.G245C(0.81,547)	ATRX_c.6631G>T_p.E2211*(0.37,718), KIT_c.1078_1078delG_p.E360fs*15(0.37,756), NCOR1_c.26_27insA_p.N9fs*34(0.09,1168), NOTCH4_c.5299-1G>T_p.splice(0.52,530)	none	none	none
36	Pleural Fluid	551	M	TP53_c.475G>C_p.A159P(0.25,803)	LRP1B_c.2377C>T_p.Q793*(0.19,96), RB1_c.118G>T_p.E40*(0.26,368)	MYCL1_amplification(12, exons 5 of 5)	none	none
37	Lymph Node	661	M	TP53_c.584T>G_p.I195S(0.64,565)	RB1_c.2106+1G>A_p.splice(0.65,444)	PIK3CA_amplification(7, exons 20 of 20), SOX2_amplification(7, exons 5 of 5)	none	none
38	Lung	757	M	none	FLT3_c.2757C>A_p.Y919*(0.74,407), RB1_c.1154T>G_p.L385*(0.73,456)	none	TP53_loss(0,	RUNX1_CLIC6_transcription_118

							exons 4 of 15)	
39	Liver	708	M	AKT1_c.118G>A_p.E40K(0.64,939), AKT1_c.49G>A_p.E17K(0.65,674), CTNNB1_c.94G>A_p.D32N(0.46,819), TP53_c.799C>G_p.R267G(0.92,695)	none	none	none	none
40	Lung	662	M	TP53_c.475G>C_p.A159P(0.98,859)	RB1_c.2306T>A_p.L769*(0.92,425)	none	none	none
41	Lung	750	M	EGFR_c.2369C>T_p.T790M(0.09,918), EGFR_c.2573T>G_p.L858R(0.36,890), GRIN2A_c.4185G>A_p.A1395A(0.01,1071), PIK3R1_c.2045C>T_p.A682V(0.01,1107), RB1_c.1236_1236delA_p.E413fs*4(0.78,699), TP53_c.844C>T_p.R282W(0.88,941)	none	EPHB1_amplification(8, exons 16 of 16), RICTOR_amplification(8, exons 39 of 39), FGF10_amplification(8, exons 3 of 3)	none	none
42	Lung	711	F	TP53_c.475G>C_p.A159P(0.65,1039), VHL_c.74C>T_p.P25L(0.81,906)	TNFRSF14_c.136G>T_p.E46*(0.18,890)	none	none	none
43	Lung	610	M	MSH6_c.1526T>C_p.V509A(0.4,610), TP53_c.796G>T_p.G266*(0.9,521)	none	FGFR3_amplification(8, exons 17 of 17), RICTOR_amplification	RB1_loss(0, exons 27 of 27)	none

						n(13, exons 39 of 39), FGF10_amplification(13, exons 3 of 3), MYST3_amplification(9, exons 16 of 16)		
4 4	Liver	624	F	CBL_c.1139T>C_p.L380P(0.14,435)	none	CCND1_amplification(156, exons 5 of 5), FGF19_amplification(156, exons 3 of 3), MYCL1_amplification(25, exons 5 of 5), MET_amplification(11, exons 20 of 20)	none	none
4 5	Lung	684	F	GATA3_c.322A>T_p.T108S(0.76,288), PTCH1_c.3724G>A_p.E1242K(0.49,726), TP53_c.455_457CGG>TT_p.G154fs*16(0.81,407)	KDM6A_c.1958_1958delG_p.G653fs*38(0.47,664), RB1_c.1411C>T_p.Q471*(0.68,268)	none	none	none
4	Liver	407	M	FAM46C_c.205G>A_p.V69I(0.33)	none	RICTOR_a	none	none

6				,615), TP53_c.503A>G_p.H168R(0.95, 468)		mplificatio n(6, exons 39 of 39), FGF10_am plification(6, exons 3 of 3)		
4 7	Lymph Node	678	F	none	BCOR_c.182_182delC_p.H62fs*9(0.13,463 , RB1_c.1498+0insA_p.splice(0.37,702), TP53_c.375+1G>T_p.splice(0.48,406)	RICTOR_a mplificatio n(9, exons 39 of 39)	none	none
4 8	Lung	675	F	none	none	none	RAD51 _loss(0, exons 10 of 10)	none
4 9	Lymph Node	635	F	none	none	RICTOR_a mplificatio n(9, exons 39 of 39), FGF10_am plification(9, exons 3 of 3)	none	none
5 0	Lymph Node	747	M	IDH1_c.394C>T_p.R132C(0.13,7 76)	MEN1_c.883G>T_p.E295*(0.44,783), MEN1_c.647_647delT_p.V216fs*13(0.39, 661)	none	none	none
5 1	Lung	733	F	CSF1R_c.95T>G_p.V32G(0.99,47 2), TP53_c.913A>T_p.K305*(0.97,5 15)	RB1_c.2425_2425delC_p.L809fs*1(0.93,4 27)	none	none	none
5 2	Brain	494	M	PAX5_c.77T>G_p.V26G(0.48,71 8),	none	none	none	none

				PIK3CA_c.1633G>A_p.E545K(0.26,471), TP53_c.845G>C_p.R282P(0.79,554)				
53	Liver	638	M	TP53_c.757A>C_p.T253P(0.76,528)	RB1_c.460A>T_p.K154*(0.83,722)	none	none	none
54	Head and Neck	640	M	DDR2_c.2417G>A_p.R806Q(0.48,707), NOTCH1_c.4780C>T_p.R1594W(0.5,818), TP53_c.818G>A_p.R273H(0.5,854), TP53_c.581T>A_p.L194H(0.52,1028)	RB1_c.2196_2205delTCATGCTGTT_p.H733fs*8(0.95,150)	none	none	none
55	Liver	561	M	EP300_c.2773C>A_p.P925T(0.18,396), TP53_c.404G>T_p.C135F(0.55,432)	MLL2_c.12340G>T_p.G4114*(0.36,749)	none	none	none
56	Liver	604	M	GATA2_c.1437G>T_p.M479I(0.6,869), TP53_c.404G>A_p.C135Y(0.7,329)	RB1_c.71_71delC_p.P24fs*41(0.73,217)	MCL1_amplification(6, exons 5 of 5)	none	none
57	Lymph Node	769	M	none	LRP1B_c.8561_8576delATGGGCGGTGTCTTCT_p.D2854fs*22(0.37,819), TP53_c.783-2A>G_p.splice(0.92,457)	none	none	none
58	Liver	778	F	TP53_c.574C>T_p.Q192*(0.69,1027)	none	none	RB1_loss(0, exons 27 of 27)	none
59	Lung	764	F	TP53_c.643A>G_p.S215G(0.95,532)	none	none	none	none
60	Lymph Node	690	F	RB1_c.1303G>T_p.G435*(0.49,673),	none	none	none	none

	Node			TP53_c.112C>T_p.Q38*(0.35,532)				
61	Lung	604	F	KRAS_c.35G>A_p.G12D(0.12,679), TP53_c.423C>G_p.C141W(0.63,449)	MLL2_c.1934_1934delC_p.P647fs*283(0.4,602), RB1_c.2486C>A_p.S829*(0.52,314)	none	none	none
62	Lung	823	F	none	TP53_c.375+1G>A_p.splice(0.63,460)	none	none	none
63	Lymph Node	735	M	TP53_c.747G>C_p.R249S(0.74,800)	LRP1B_c.1564G>T_p.E522*(0.2,665), NF1_c.6820-1G>T_p.splice(0.67,444)	none	CDKN2A_loss(0, exons 5 of 5), CDKN2B_loss(0, exons 5 of 5)	none
64	Lung	693	F	none	ARID1A_c.1358_1358delC_p.P453fs*166(0.13,636), ASXL1_c.1934_1934delG_p.G645fs*58(0.22,643), RB1_c.2326-2A>C_p.splice(0.29,775), RB1_c.2326-1G>T_p.splice(0.29,774), TP53_c.782+1G>A_p.splice(0.23,503)	RICTOR_amplification(8, exons 39 of 39), FGF10_amplification(8, exons 3 of 3), ZNF703_amplification(11, exons 2 of 2), FGFR1_amplification(PTEN_loss(0, exons 4 of 9)	none

						11, exons 18 of 18), MYST3_amplification(16, exons 16 of 16)		
65	Lung	668	F	KIT_c.1658A>G_p.Y553C(0.69,851)	NOTCH2_c.5214-2A>G_p.splice(0.55,310)	MAP2K1_amplification(8, exons 11 of 11), PDGFRA_amplification(18, exons 34 of 34), KIT_amplification(13, exons 21 of 21), KDR_amplification(7, exons 30 of 30)	TP53_loss(0, exons 9 of 14)	none
66	Lung	685	F	MLL2_c.6496C>T_p.Q2166*(0.62,557)	RB1_c.2331_2331delT_p.T778fs*32(0.89,595), TP53_c.954_956AAA>AT_p.K319fs*26(0.92,837)	MYC_amplification(161, exons 5 of 5)	none	none
67	Lung	853	M	none	BRCA2_c.9976A>T_p.K3326*(0.18,845), MLL2_c.15715_15715delC_p.P5239fs*4(0.55,842), RB1_c.1840A>T_p.K614*(0.66,625), TP53_c.262_263insC_p.S90fs*59(0.42,522)	MYC_amplification(19, exons 5 of 5), ZNF703_amplification(8, exons	none	none

						2 of 2), FGFR1_amplification(8, exons 18 of 18), MYST3_amplification(8, exons 16 of 16)		
68	Lung	722	M	TP53_c.298C>T_p.Q100*(0.87,744)	BRCA2_c.9976A>T_p.K3326*(0.39,1020), RB1_c.116_116delC_p.P39fs*26(0.75,260)	none	none	none
69	Lung	179	M	TP53_c.430C>T_p.Q144*(0.76,117)	MLL2_c.2317C>T_p.Q773*(0.43,180)	SOX2_amplification(8, exons 1 of 1), KIT_amplification(8, exons 21 of 21), KDR_amplification(8, exons 30 of 30)	none	none
70	Lymph Node	550	M	KIT_c.1508A>G_p.Y503C(0.21,656), TP53_c.423_423delC_p.P142fs*28(0.31,422)	RB1_c.380+1delG_p.splice(0.27,511)	none	none	none
71	Lymph Node	703	F	TP53_c.574C>T_p.Q192*(0.93,902)	none	none	RB1_loss(0, exons 27 of 27)	none
72	Lymph Node	749	F	TP53_c.814G>T_p.V272L(0.82,495)	NCOR1_c.308C>G_p.S103*(0.76,467), RB1_c.1499-	none	none	none

	Node				45_1505AGGGTTAATATTTTCATAAATAGTTA CTTTTTTTTTTCATTTTTAGGAAGTAC>T_p.s plice(0.89,192)			
7 3	Lung	677	F	RB1_c.2092A>T_p.R698W(0.94, 483), TP53_c.839G>T_p.R280I(0.96,1 124), TP53_c.428T>C_p.V143A(0.93,1 334)	LRP1B_c.5866G>T_p.E1956*(0.39,419), SPEN_c.533T>A_p.L178*(0.41,627)	none	none	none
7 4	Spine	780	F	TP53_c.743G>A_p.R248Q(0.93, 495)	RB1_c.1209T>A_p.Y403*(0.88,396)	none	none	none
7 5	Lung	714	F	TP53_c.820G>T_p.V274F(0.9,66 0)	CREBBP_c.4876G>T_p.E1626*(0.87,432), MLL2_c.1387_1387delG_p.E463fs*467(0. 44,1005), NOTCH4_c.4887C>AA_p.T1630fs*26(0.46, 833)	KDM5A_a mplificatio n(7, exons 28 of 28)	APC_l oss(0, exons 10 of 15)	none
7 6	Lung	722	F	KRAS_c.34G>A_p.G12S(0.42,78 3), RB1_c.975T>A_p.Y325*(0.76,34 6), TP53_c.854_855AG>TT_p.E285 V(0.75,503)	FBXW7_c.86_90TGAA>ATGA_p.D29f_E30 >Q*(0.19,949), TSC2_c.1507C>T_p.Q503*(0.45,837)	none	none	none
7 7	Lung	700	F	PBRM1_c.1955C>A_p.S652*(0.0 8,337), TP53_c.473G>T_p.R158L(0.63,3 26)	none	RICTOR_a mplificatio n(11, exons 39 of 39), FGF10_am plification(11, exons 3 of 3)	none	none
7 8	Lymph Node	847	F	TP53_c.583A>T_p.I195F(0.47,71 7)	MLL2_c.1139_1139delC_p.T382fs*20(0.31 ,755)	PDGFRA_a mplificatio n(9, exons	none	none

						34 of 34), KIT_amplifi cation(14, exons 21 of 21)		
7 9	Soft Tissu e	811	M	none	TP53_c.342_343delGC_p.H115fs*33(0.74, 446)	none	none	none
8 0	Medi astin um	741	M	none	RB1_c.1675G>T_p.E559*(0.87,212), TP53_c.97- 43_215delCTGAGGACCTG~GCTCCCCC_p.S 33fs*76(0.86,600)	none	none	none
8 1	Liver	659	F	DNMT3A_c.2204A>G_p.Y735C(0.02,737), RB1_c.264G>T_p.L88F(0.72,269), TP53_c.380_380delC_p.P128fs* 42(0.68,357)	PTEN_c.1026+1delG_p.splice(0.71,237)	MYCL1_am plification(25, exons 5 of 5)	none	none
8 2	Lung	637	F	TP53_c.469G>T_p.V157F(0.78,3 72)	none	KDM5A_a mplificatio n(6, exons 28 of 28), CCND2_am plification(6, exons 5 of 5), FGF23_am plification(6, exons 3 of 3), FGF6_ampl ification(6, exons 3 of 3)	RB1_l oss(0, exons 27 of 27)	none

83	Lung	618	F	CREBBP_c.5034_5036delCTC_p.S1679del(0.6,1449), TP53_c.814G>A_p.V272M(0.88,663)	RB1_c.376_376delA_p.l126fs*10(0.8,321)	CCNE1_amplification(10, exons 10 of 10), AKT2_amplification(7, exons 13 of 13)	none	none
84	Lung	575	M	none	ARID1A_c.175G>T_p.E59*(0.88,505), TP53_c.920-2A>T_p.splice(0.81,494)	RET_amplification(170, exons 20 of 20)	none	none
85	Lung	866	F	KRAS_c.34G>T_p.G12C(0.07,936), TP53_c.404G>T_p.C135F(0.07,793)	NOTCH3_c.6276_6276delG_p.A2093fs*56(0.09,597)	none	none	none
86	Lung	658	F	none	RB1_c.1727C>G_p.S576*(0.39,786), RB1_c.2306_2306delT_p.L769fs*41(0.36,645), TP53_c.96+1G>C_p.splice(0.83,897)	HRAS_amplification(50, exons 5 of 5), EMSY_amplification(12, exons 20 of 20), ARFRP1_amplification(6, exons 6 of 6)	none	none
87	Lung	642	M	EP300_c.2773C>A_p.P925T(0.16,465), KRAS_c.37G>T_p.G13C(0.48,702), TP53_c.859G>T_p.E287*(0.79,989)	NF1_c.2729_2729delG_p.G910fs*14(0.7,851), NOTCH3_c.6612_6612delG_p.Q2205fs*41(0.26,619), PIK3R2_c.1804g>T_p.E602*(0.17,738), SPEN_c.1798g>T_p.E600*(0.48,429),	NKX2-1_amplification(7, exons 5 of 5), GNAS_amp	none	none

					WT1_c.85G>T_p.E29*(0.44,533)	lification(8, exons 15 of 15)		
88	Liver	534	F	none	none	CCND1_amplification(226, exons 5 of 5), FGF19_amplification(226, exons 3 of 3), MYCL1_amplification(18, exons 5 of 5), MET_amplification(85, exons 20 of 20)	none	none
89	Lymph Node	764	M	none	none	none	TSC1_loss(0, exons 15 of 21)	none
90	Lung	688	F	GRIN2A_c.3787G>A_p.G1263R(0.24,818)	RB1_c.500+1G>T_p.splice(0.29,324), TP53_c.559+1G>T_p.splice(0.3,614)	none	NF1_loss(0, exons 15 of 59)	none
91	Lung	694	F	TP53_c.856G>T_p.E286*(0.87,549)	KIT_c.1520_1521insCTATTTTAACTTTGC_p.A507_F508insYFNFA(0.19,934), MAP3K13_c.1305_1305delA_p.K435fs*16(0.62,932), MLL2_c.8828_8829insCT_p.N2944fs*61(0.	MCL1_amplification(9, exons 5 of 5), EPHA3_am	none	ARID2_ARID2_duplication_48

					42,942), MLL2_c.6986_6986delC_p.L2331fs*1(0.44,603)	plification(14, exons 17 of 17)		
92	Head and Neck	699	M	CTNNB1_c.110C>G_p.S37C(0.68,566), NFE2L2_c.53G>A_p.R18Q(0.71,700), TP53_c.817C>T_p.R273C(0.28,1434), TP53_c.473G>T_p.R158L(0.56,1530)	MLL2_c.5263C>T_p.Q1755*(0.48,867)	ZNF703_amplification(12, exons 2 of 2), FGFR1_amplification(12, exons 18 of 18), MYST3_amplification(14, exons 16 of 16)	none	none
93	Liver	799	M	TP53_c.892G>T_p.E298*(0.79,619)	none	none	none	none
94	Lung	689	M	ATM_c.566G>A_p.R189K(0.04,642)	TET2_c.1595T>A_p.L532*(0.06,759)	none	none	none
95	Chest Wall	747	F	EGFR_c.2235_2249delGGAATTAAGAGAAGC_p.E746_A750del(0.54,1127), TP53_c.273G>A_p.W91*(0.9,552)	RAD50_c.2983_2986delGAAA_p.E995fs*2(0.28,635)	RICTOR_amplification(8, exons 39 of 39), FGF10_amplification(8, exons 3 of 3)	none	none
96	Lymph Node	763	F	TP53_c.469G>T_p.V157F(0.98,616)	BCOR_c.2029G>T_p.G677*(0.42,824), KDM6A_c.4141G>T_p.E1381*(0.51,689)	none	none	none
97	Lung	594	F	LRP1B_c.9021C>A_p.C3007*(0.58,493), PTEN_c.511C>T_p.Q171*(0.03,511)	LRP1B_c.10297_10297delG_p.E3433fs*85(0.56,412), LRP1B_c.3767-1G>T_p.splice(0.13,346), RB1_c.1128-	MYCL1_amplification(16, exons 5)	none	none

				05), TP53_c.627_627delA_p.N210fs *37(0.69,516)	2A>T_p.splice(0.71,500)	of 5)		
9 8	Lung	660	F	EGFR_c.2239_2256delTTAAGAG AAGCAACATCT_p.L747_S752del (0.33,787), FBXW7_c.575A>C_p.E192A(0.25 ,497), PIK3CA_c.1633G>A_p.E545K(0. 13,637), TP53_c.659A>G_p.Y220C(0.59,7 40)	none	BCL2L2_a mplificatio n(6, exons 5 of 5), NFKBIA_a mplificatio n(7, exons 6 of 6), NKX2- 1_amplific ation(7, exons 5 of 5), MCL1_amp lification(7, exons 5 of 5)	RB1_l oss(0, exons 26 of 27)	none
I D	TISS UE PROF ILED	ME DIA N EX ON DE PT H	GE ND ER	KNOWN SOMATIC SHORT- VARIANTS (PERCENT- READS,COVERAGE)	LIKELY INACTIVATING SHORT-VARIANTS (PERCENT-READS, COVERAGE)	HIGH- LEVEL (CN>8) AND FOCAL (CN>5) AMPLIFICA TIONS	HOM OZYG OUS DELETI ONS OF Know n TSGs	LIKELY FUNCTIONAL REARRANGEMEN TS