

Table S1. Differentially expressed cell cycle control genes regulated by TIMP1 under MWCNT exposure in the lungs

Gene_Symbol	Probeset_ID	WT, DM, 7-d					WT, MWCNT, 7-d					WT, MWCNT, 7-d up vs WT, DM, 7-d					Timp1 ^{-/-} , DM, 7-d					Timp1 ^{-/-} , MWCNT, 7-d					Timp1 ^{-/-} , MWCNT, 7-d up vs Timp1 ^{-/-} , DM, 7-d					Synonyms
		JD.L37	JD.L38	JD.L39	JD.L40	mean	JD.L41	JD.L42	JD.L43	JD.L44	mean	p-value	FDR_pvalue	Fold_change	JD.L45	JD.L46	JD.L47	JD.L48	mean	JD.L49	JD.L50	JD.L51	JD.L52	mean	p-value	FDR_pvalue	Fold_change					
Esp1	ILMN_2911855	98.1952	89.73788	99.86821	98.92147	96.68069167	144.0935	161.7545	147.2708	127.282	145.1002167	7.38E-10	6.01E-07	1.50082	101.7185	98.72824	108.5271	100.6613	102.408792	114.5377	126.5137	111.6395	134.132	121.7057167	0.0033525	0.09294632	1.18843	AL024103; ESP1; PRCE; AU045071; SSE				
Klf2c	ILMN_1218967	103.4502	101.9434	99.99623	90.61906	99.00220868	192.1237	188.4222	162.2398	195.7334	184.6297837	7.65E-10	6.01E-07	1.86491	104.1394	107.0828	112.2188	112.9542	109.098784	134.6602	159.8915	128.7473	162.2181	146.3815337	0.0015066	0.06352157	1.34173	MCAK; X83316; MGC11883; 4930402F02Rik; Knsf6; ESTM5				
Mcm10	ILMN_2970532	101.8591	126.1096	99.50248	102.6617	107.5332246	194.3247	186.382	165.8159	180.7435	181.8165246	2.00E-09	1.35E-06	1.69079	106.5723	107.2847	109.4385	104.6026	106.974525	130.1465	140.8081	129.8131	162.0305	140.6995246	0.0014426	0.06186002	1.31526	C79164; MGC11883; C330019M07Rik; 2410041F14Rik				
Ncapd2	ILMN_2956102	138.6371	133.1351	141.1719	126.3316	134.8189109	202.1505	261.3291	216.3766	198.8554	219.6779109	4.06E-09	2.35E-06	1.62943	139.8208	156.4563	149.2696	148.065	148.402911	171.1387	188.1682	158.7355	159.9332	169.4939109	0.0774556	0.42141956	1.14212	MGC39046; mKIAA0159; CAP-D2; 2810406C15Rik; CNAP1				
Tuba6	ILMN_2476139	679.7218	843.1895	556.8223	596.5964	669.0824735	1160.407	1106.67	951.6436	1230.113	1112.208474	1.27E-08	5.35E-06	1.66229	571.2738	546.3546	631.4692	503.2933	563.097724	682.6244	797.6707	669.017	909.5319	764.7109735	0.0028517	0.08677793	1.35804					
Cagp	ILMN_2773113	645.0909	957.3737	572.8034	649.6819	706.2374804	1082.662	1399.36	1480.056	1505.456	1366.88348	1.32E-08	5.48E-06	1.93544	550.7854	674.8959	660.4236	631.4579	629.39073	762.5611	904.0714	821.3303	1087.574	893.8842304	0.0080685	0.14773599	1.42024	mhb1; gCap39				
Klf22	ILMN_2762326	110.4226	121.9632	111.092	107.3823	112.7150493	233.2486	245.8264	239.1289	286.0103	251.0535493	1.53E-08	6.14E-06	2.22733	112.3819	122.679	132.9682	119.7071	121.934049	173.3169	192.4475	160.0598	183.8649	177.4222993	0.0083366	0.14979709	1.45507	AJ021460; CR1217; Klf22a; Kid				
Fen1	ILMN_1259473	314.1823	305.6111	277.8289	300.2947	299.4792585	506.1653	554.4825	496.0688	446.5543	500.8177585	1.66E-08	6.41E-06	1.6723	354.0955	322.8996	294.6687	308.8842	320.137008	375.3393	501.4441	385.3583	487.1984	437.3350085	0.0002393	0.0238953	1.36609	AW538437				
Mcm2	ILMN_1250907	157.3083	148.6688	166.5185	142.2316	153.6817992	281.7477	278.5608	251.5624	200.6932	253.1410492	2.60E-08	9.00E-06	1.64718	164.5259	177.8896	166.4613	175.2564	171.033299	200.2016	236.5203	204.0174	238.6558	219.8487992	0.0018916	0.07114194	1.28542	CDC11; Mcmd2; BM28; AA959861; mKIAA0030; AW476101				
Bub1b	ILMN_2774007	160.6641	186.2844	171.4564	175.3285	173.4333431	304.9331	377.4848	321.5151	305.3024	327.3088431	5.71E-08	1.68E-05	1.88723	160.79	200.1671	179.5926	176.7177	179.316843	221.2593	280.8859	201.6441	268.9	243.1723431	0.0098402	0.16177252	1.3561					
Plk1	ILMN_1255053	123.3191	144.8338	130.5594	118.8627	129.3847684	235.526	263.8393	242.3906	286.0922	256.9620184	1.32E-07	3.25E-05	1.98603	134.1742	143.7419	148.41	134.6119	140.234518	182.8577	212.2189	164.626	203.7164	190.8547684	0.016926	0.21073033	1.36097	Plk; STPK13				
Cdc7	ILMN_1238374	117.1456	152.241	118.6878	122.7133	127.6969292	203.5868	200.1221	175.3433	201.8704	195.2306792	1.59E-07	3.66E-05	1.52886	154.7669	163.2004	168.8903	152.3091	159.791679	161.6286	149.5935	148.971	167.1316	156.8311792	0.1787092	0.94663751	-1.01888	muCdc7; A1597260; Cdc71; MGC91067				
Mapk13	ILMN_2955452	152.4637	196.2974	149.557	140.1425	159.6151535	215.9371	244.0372	233.3992	271.564	241.2344035	3.03E-07	5.99E-05	1.51135	144.9299	140.8034	132.7447	140.6166	139.773653	190.0753	224.8691	171.7217	214.2746	200.2351535	5.58E-05	0.01048814	1.43257	SAPK4; Serk4				
Mcm5	ILMN_2742849	244.3987	329.7136	246.5999	237.9895	264.6754437	470.9283	535.6025	469.9721	578.9138	513.8541937	6.42E-07	0.00011018	1.94145	247.4877	281.2697	269.8599	272.5785	267.79894	362.6149	391.1212	357.0694	398.3962	377.3004437	0.0144641	0.19674044	1.40889	AA617332; mCD46; AL033333; P1-CD46; mCDC46; Cdc46; A1324988; Mcmd5				
Aurka	ILMN_2617228	131.9118	113.5711	105.2552	94.56655	106.8711731	170.1637	236.8281	179.8106	167.8597	188.6655231	2.06E-06	0.00002643	1.76535	107.4315	112.8894	114.685	99.43124	108.609273	149.6585	188.5225	121.9709	164.0931	156.0612731	0.0028267	0.08619185	1.43691	Aurora-A; AU019385; Sbk; AW539821; Ark1; Aylk1; IAK; AIRK1				
Incsep	ILMN_1216213	144.1735	126.6183	118.7434	134.4285	130.9909437	207.5758	203.9395	190.8241	185.6134	196.9881937	7.46E-06	0.00072681	1.50383	124.5387	139.1486	138.0665	138.0289	134.945694	159.2224	157.8003	175.0935	253.3407	186.3641937	0.0002772	0.02568325	1.38103	AJ019509; C77457; 2700067E22Rik; C130081E20				
Clsnp	ILMN_2858359	101.7666	116.7927	103.1782	104.5955	106.5832514	153.379	194.461	169.2892	163.7441	170.2183514	2.01E-05	0.00051476	1.59705	111.126	111.886	109.055	111.5414	110.902101	119.8133	156.0517	133.0463	162.2142	142.7813514	0.0212815	0.23479495	1.28745	E130114M08Rik; CR5083; CLASPIN; B130025E01				
Cenpa	ILMN_1236574	442.5632	883.0287	508.4693	541.1524	593.8034089	967.6036	1063.097	925.6013	1289.011	1061.328159	7.23E-05	0.00392635	1.78734	498.5479	599.2325	594.3875	621.1968	578.341159	664.6248	802.6704	625.9983	917.1821	752.6189089	0.110272	0.48365231	1.30134	Cenp-A				
Limh1	ILMN_2916035	399.1244	569.1524	373.4252	398.8748	435.144202	642.5477	611.6455	593.7777	770.2088	654.544952	0.000253	0.01005318	1.5042	490.23	394.0797	407.8887	385.2454	419.360952	483.8563	594.5079	473.0431	748.3696	574.944202	0.0071571	0.13969052	1.371					
Ccnb1	ILMN_2753497	101.7358	124.6993	97.40982	108.7152	108.140016	179.2225	157.6938	138.6101	225.1584	175.711186	0.000278	0.01071681	1.61986	107.3357	112.3319	100.4006	97.45314	104.380336	125.7599	145.1731	116.9221	169.7116	139.391686	0.0452567	0.3341035	1.33542	MGC90915; Ccnb1-r13; MGC118763; Cycb-4				
Acta1	ILMN_2738825	85.22897	87.29605	85.28755	86.4382	86.06269068	100.8924	98.78545	95.69557	261.6469	139.2550907	0.00107	0.02879823	1.61807	82.79833	90.95449	84.97115	83.2017	85.4814157	92.26177	84.77506	85.86825	89.38178	88.07171568	0.865536	0.96815745	1.0303	Acta; AA959943; Ccnb1-1; Acta-2				