

SI Table 2. Proteins altered by 6 h 1 µg/mL Halloysite nanotube exposure.

Protein ID	Gene Name	Protein Name	Control	1ug/ml	10ug/ml	100ug/ml	STDEV Control	STDEV 1ug/ml	STDEV 10ug/ml	STDEV 100ug/ml	Fold Change 1ug/ml vs Control	P value 1ug/ml vs Control
IPI00385082	SMC1A	Structural maintenance of chromosomes protein 1A	141,195	222,603	178,057	182,140	26,751	53,530	48,781	47,462	1.6	0.02
IPI00976020	EIF4G2	Eukaryotic translation initiation factor 4 gamma 2	341,741	512,258	520,115	519,950	75,943	62,358	108,118	45,405	1.5	0.005
IPI00010158	CHRAC1	Chromatin accessibility complex protein 1	1,404,380	1,896,855	1,460,775	1,755,510	311,273	307,512	229,898	177,857	1.4	0.04
IPI00152692	DTD1	D-tyrosyl-tRNA(Tyr) deacylase 1	1,671,200	2,281,830	1,679,560	2,260,300	454,362	172,074	503,049	325,300	1.4	0.04
IPI00217477	HMGB3	High mobility group protein B3	478,317	693,140	526,453	610,379	60,791	146,108	93,727	142,292	1.4	0.02
IPI00182313	SEC61A2	Protein transport protein Sec61 subunit alpha isoform 2 isoform b	236,195	323,518	283,760	326,747	46,510	64,077	70,615	38,991	1.4	0.04
IPI00216125	SRP9	Signal recognition particle 9 kDa protein isoform 1	1,549,657	2,155,080	2,190,563	1,903,720	267,162	249,192	639,975	203,267	1.4	0.006
IPI00394796	TDRD1	Tudor domain-containing protein 1, isoform 1	573,477	797,453	621,053	828,730	64,510	57,318	124,535	153,918	1.4	0.0004
IPI00646366	CEP110	Centrosomal protein 110kDa	642,327	866,240	1,062,253	830,717	115,409	132,793	377,494	256,233	1.3	0.02
IPI00642976	CPNE1	Copine-1	724,450	909,984	742,271	981,679	117,523	100,671	125,950	254,013	1.3	0.03
IPI00980818	EIF4G2	Eukaryotic translation initiation factor 4 gamma 2, splice variant or isoform	70,444	92,894	81,148	100,996	7,419	11,310	14,981	25,429	1.3	0.006
IPI01013328	HLA-DQB1	HLA class II histocompatibility antigen, DQ beta 1 chain	2,167,035	2,749,280	2,414,890	2,636,885	156,575	452,073	336,353	460,038	1.3	0.04
IPI00172580	NUP54	Nucleoporin p54	6,685,450	8,466,578	7,026,293	7,237,768	934,335	1,140,104	1,149,081	659,364	1.3	0.03
IPI00218728	PAFAH1B1	Platelet-activating factor acetylhydrolase IB subunit alpha, isoform 1	1,111,627	1,399,207	1,192,437	1,369,200	192,242	176,140	310,487	173,781	1.3	0.04
IPI00745127	RAP1B	Ras-related protein Rap-1b	82,182	109,178	101,179	110,400	8,457	21,689	31,399	24,299	1.3	0.05
IPI00924874	SRRT	Serrate RNA effector molecule homolog	243,561	321,083	289,016	361,634	44,688	61,932	52,921	40,404	1.3	0.05
IPI00329791	DDX46	ATP-dependent RNA helicase DDX46	3,908,525	4,837,875	3,962,415	3,886,435	634,136	511,237	817,901	618,662	1.2	0.03
IPI00179326	BAIAP2L1	Brain-specific angiogenesis inhibitor 1-associated protein 2-like protein 1	6,953,610	8,264,045	8,969,630	8,351,179	828,656	991,997	650,029	629,725	1.2	0.05
IPI00025366	CS	Citrate synthase, mitochondrial	6,214,700	7,263,405	6,561,580	7,339,245	382,092	855,174	1,251,901	2,082,100	1.2	0.04
IPI00646121	CPNE1	Copine-1	1,513,728	1,826,694	1,614,401	1,944,049	238,701	165,972	194,814	332,337	1.2	0.04
IPI00058192	POFUT1	GDP-fucose protein O-fucosyltransferase 1, isoform 1	3,419,165	4,049,335	3,337,070	3,919,430	212,032	516,959	621,753	686,494	1.2	0.04
IPI00305267	GOLGA3	Golgin subfamily A member 3, isoform 1	6,152,930	7,328,700	6,651,000	6,815,500	668,387	387,438	985,603	526,099	1.2	0.009
IPI00909600	GOLGB1	Golgin subfamily B member 1	1,850,345	2,206,290	2,021,950	2,287,355	206,147	157,250	429,640	83,995	1.2	0.02
IPI00027445	HARS2	Histidyl-tRNA synthetase, mitochondrial	361,683	437,410	399,545	421,391	63,891	34,303	53,928	29,126	1.2	0.05
IPI00020008	NEDD8	NEDD8	273,875	326,669	296,051	341,910	33,992	36,856	92,059	32,583	1.2	0.05
IPI01009196	STARD10	PCTP-like protein	2,744,763	3,370,201	3,092,070	4,003,590	431,911	339,529	621,962	650,693	1.2	0.03
IPI01009673	STARD10	PCTP-like protein, splice variant or isoform	2,646,075	3,265,148	2,986,336	3,876,259	405,739	333,255	591,817	638,922	1.2	0.03
IPI00020557	LRP1	Prolow-density lipoprotein receptor-related protein 1	8,780,250	10,378,910	10,408,000	9,921,140	1,154,449	913,732	2,150,171	722,800	1.2	0.04
IPI00001757	RBM8A	RNA-binding protein 8A, isoform 1	3,015,580	3,499,900	3,434,420	3,431,910	406,322	249,444	387,557	382,437	1.2	0.05
IPI00217437	TTBK2	Tau-tubulin kinase	7,995,869	9,362,155	7,834,135	8,569,484	726,716	606,091	788,768	681,657	1.2	0.01
IPI00009253	NAPA	Alpha-soluble NSF attachment protein	28,648,482	32,844,796	30,143,276	34,995,462	2,678,969	1,720,208	4,968,127	3,240,753	1.1	0.02
IPI00022143	ESYT1	Extended synaptotagmin-1, isoform 1	5,335,292	6,126,168	5,439,788	6,124,905	490,856	505,894	842,811	506,160	1.1	0.04
IPI00294879	RANGAP1	Ran GTPase-activating protein 1	17,134,060	19,011,805	18,174,565	21,906,915	1,287,867	686,403	2,499,562	1,914,113	1.1	0.02
IPI00021187	RUVBL1	RuvB-like 1, isoform 1	1,037,672,235	1,112,875,465	1,084,131,090	1,119,546,130	34,313,921	24,055,727	58,424,329	55,788,786	1.1	0.004
IPI00788942	RUVBL1	RuvB-like 1, isoform 2	1,017,675,425	1,094,301,655	1,062,111,405	1,097,480,705	37,107,235	21,401,489	53,743,973	55,453,314	1.1	0.004
IPI00017510	MT-CO2	Cytochrome c oxidase subunit 2	5,380,420	4,722,330	5,134,330	4,947,700	339,421	513,166	539,865	670,727	-1.1	0.04
IPI00006084	CNNM2	Metal transporter CNNM2, isoform 1	749,720	657,723	822,085	724,275	61,993	42,332	141,092	66,543	-1.1	0.03
IPI00935307	DIAPH1	Protein diaphanous homolog 1	1,746,425	1,519,913	2,124,523	1,855,859	111,559	190,754	323,095	274,415	-1.1	0.05
IPI00302641	FAT2	Protocadherin Fat 2	5,654,530	4,917,580	5,273,100	5,500,390	406,664	451,238	965,733	565,777	-1.1	0.03
IPI00032958	ANLN	Actin-binding protein anillin, isoform 2	975,350	800,203	922,130	904,473	104,455	84,129	73,310	91,752	-1.2	0.02
IPI00924544	APEH	Acyamino-acid-releasing enzyme	1,697,350	1,454,555	1,686,378	1,810,765	122,288	142,071	233,637	109,921	-1.2	0.02
IPI00976984	ARFGAP2	ADP-ribosylation factor GTPase-activating protein 2	1,701,305	1,457,691	1,607,516	1,462,362	104,509	91,380	140,288	219,887	-1.2	0.004
IPI00168885	DHX57	ATP-dependent RNA helicase DHX57, isoform 1	2,056,110	1,685,140	2,328,630	2,020,575	224,402	100,509	207,179	316,338	-1.2	0.01
IPI00929635	CGN	Cingulin, isoform 2	4,114,885	3,493,333	3,792,770	3,844,550	340,127	434,926	304,691	325,034	-1.2	0.04
IPI00432026	DDRGK1	DDRGK domain-containing protein 1	293,769	243,906	294,557	301,651	36,412	29,066	39,026	59,863	-1.2	0.04
IPI00414101	TOP2A	DNA topoisomerase 2-alpha, isoform 2	945,060	797,737	943,800	967,503	74,491	19,889	135,577	135,327	-1.2	0.01
IPI00027438	FLOT1	Flotillin-1	8,977,960	7,805,700	9,423,739	8,611,430	933,566	699,966	1,158,894	942,379	-1.2	0.05
IPI00220848	ITGB4	Integrin beta-4, isoform Beta-4E	1,426,883	1,170,708	1,393,578	1,256,787	149,290	173,414	145,094	116,104	-1.2	0.04
IPI00293533	NUP62	Nuclear pore glycoprotein p62	5,107,810	4,355,618	4,698,935	4,848,740	530,649	258,222	434,803	832,803	-1.2	0.02
IPI00298058	SUPT5H	Transcription elongation factor SPT5, isoform 1	3,810,335	3,156,699	3,323,958	3,729,383	306,052	209,654	231,209	611,854	-1.2	0.004
IPI00216508	SNX3	Sorting nexin-3, isoform 2	4,353,753	3,698,053	4,430,803	4,502,843	298,490	388,778	337,304	432,058	-1.2	0.02
IPI00984022	UBA2	Ubiquitin-like 1-activating enzyme E1B	3,957,170	3,313,365	4,357,985	4,067,520	483,093	339,106	890,454	426,950	-1.2	0.04
IPI00007423	ANP32B	Acidic leucine-rich nuclear phosphoprotein 32 family member B, isoform 1	4,054,730	3,218,222	3,994,975	3,997,505	553,723	448,795	654,486	605,342	-1.3	0.03
IPI00647001	ANP32B	Acidic leucine-rich nuclear phosphoprotein 32 family member B, splice variant o	3,617,977	2,798,910	3,541,088	3,479,880	623,638	400,849	682,619	568,986	-1.3	0.04
IPI00148020	BRSK1	BR serine/threonine-protein kinase 1, isoform 1	1,842,635	1,420,675	1,687,140	1,597,120	268,239	139,542	139,596	176,727	-1.3	0.01

IPI00181265	CCDC120	Coiled-coil domain-containing protein 120	1,284,453	975,378	1,262,598	998,423	176,919	163,713	147,041	160,019	-1.3	0.02
IPI00480056	RAB4A	Ras-related protein Rab-4A	2,543,707	1,945,297	2,810,730	2,255,630	310,863	384,725	229,631	401,640	-1.3	0.03
IPI00789296	SRP14	Signal recognition particle 14 kDa protein	31,569,700	24,049,300	32,100,400	23,331,100	3,358,725	5,044,425	6,060,319	2,690,227	-1.3	0.02
IPI00297626	STXBP3	Syntaxin-binding protein 3	604,690	476,746	567,451	657,401	80,380	73,402	93,316	94,190	-1.3	0.03
IPI00472003	BID	BH3-interacting domain death agonist, isoform 4	143,163	99,169	115,862	146,319	13,074	14,087	23,565	24,574	-1.4	0.0009
IPI00550364	PGM2	Phosphoglucomutase-2	2,690,850	1,973,080	2,752,345	2,022,460	409,120	472,895	875,150	346,758	-1.4	0.03
IPI00176903	PTRF	Polymerase I and transcript release factor, isoform 1	783,997	578,407	744,507	723,453	185,151	85,210	179,333	96,435	-1.4	0.05
IPI00219229	LSM3	U6 snRNA-associated Sm-like protein LSM3	6,173,650	4,485,710	5,129,100	5,361,680	949,268	1,053,870	1,049,191	1,196,522	-1.4	0.03
IPI00015077	EIF1	Eukaryotic translation initiation factor 1	2,269,502	1,545,396	2,215,002	2,106,153	504,231	323,050	823,104	532,938	-1.5	0.03
IPI00872250	PDZK1	PDZ domain-containing protein 1P, isoform 1	1,002,830	689,265	1,161,155	667,728	237,202	198,304	429,933	175,589	-1.5	0.05
IPI00384597	PHC2	Polyhomeotic 2 homolog	4,172,060	2,860,900	3,461,740	3,425,800	859,338	716,151	219,173	750,729	-1.5	0.03
IPI00983353	PPP2R2A	Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B alpha isoform 1	96,384	59,162	75,573	98,261	28,246	13,703	26,385	33,978	-1.6	0.03