

**SI Table 3. Proteins altered by 6 h 10 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 10ug/ml vs Control	P value 10ug/ml vs Control
IPI00978541	CLNS1A	Methylosome subunit pICln	493,373	643,475	830,998	623,207	101,030	249,349	247,269	137,157	1.7	0.02
IPI00013976	LAMB1	Laminin subunit beta-1	170,361	197,059	278,966	233,371	43,110	64,016	93,598	21,491	1.6	0.05
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	0.02
IPI00418663	KRT28	Keratin 25D	9,017,390	8,033,960	13,221,180	9,727,580	2,197,134	2,762,282	2,339,918	2,242,735	1.5	0.02
IPI00019495	DYNLT1	Dynein light chain Tctex-type 1	6,856,295	7,530,500	9,327,150	7,607,340	1,419,505	895,379	804,285	1,227,568	1.4	0.01
IPI00002857	MAPK14	Mitogen-activated protein kinase 14, isoform CSBP2	609,020	704,100	857,883	910,667	135,851	187,878	192,570	167,616	1.4	0.05
IPI00022202	SLC25A3	Phosphate carrier protein, mitochondrial, isoform A	1,676,950	1,786,910	2,330,485	1,651,225	335,437	250,418	555,004	278,272	1.4	0.05
IPI00025329	RPL19	60S ribosomal protein L19	1,134,947	1,365,861	1,519,395	1,602,500	206,258	156,239	220,345	231,168	1.3	0.02
IPI00643842	PGLS	6-phosphogluconolactonase	3,078,670	3,213,459	3,929,085	3,540,365	567,043	665,272	380,510	641,251	1.3	0.02
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	1.3	0.003
IPI00038378	ENOPH1	Enolase-phosphatase E1, isoform 1	1,159,793	1,246,913	1,497,390	1,328,037	100,797	336,035	206,150	100,536	1.3	0.01
IPI00915974	ITGA6	Integrin alpha-6	273,528	273,227	346,058	332,988	44,344	53,471	43,343	47,954	1.3	0.03
IPI00328170	MOGS	Mannosyl-oligosaccharide glucosidase	2,525,155	2,766,240	3,200,745	2,788,945	470,653	155,587	301,429	494,771	1.3	0.03
IPI00220030	PXN	Paxillin, isoform alpha	1,010,463	1,055,850	1,354,856	1,106,377	215,138	342,242	256,224	108,955	1.3	0.05
IPI00964062	PARP8	Poly [ADP-ribose] polymerase 8	1,330,680	1,602,816	1,770,462	1,636,900	244,217	221,732	344,489	103,445	1.3	0.05
IPI00514853	PARF	Putative GTP-binding protein Parf	1,611,024	1,817,181	2,060,531	1,743,045	240,776	116,705	276,673	138,780	1.3	0.03
IPI00032409	LAMTOR2	Ragulator complex protein LAMTOR2, isoform 1	975,337	1,093,357	1,255,633	996,607	209,468	162,741	177,904	206,527	1.3	0.05
IPI00954850	STARD9	stAR-related lipid transfer protein 9	8,782,680	9,249,500	11,352,560	10,885,170	597,645	1,701,810	945,096	1,607,929	1.3	0.0009
IPI00903228	WDR20	WD repeat-containing protein 20	6,801,620	7,788,100	8,939,070	8,007,110	798,107	868,157	1,669,082	785,849	1.3	0.03
IPI00647259	NT5E	5'-nucleotidase	2,068,067	2,133,053	2,525,483	2,148,720	226,901	406,181	286,726	165,064	1.2	0.02
IPI00009456	NT5E	5'-nucleotidase, splice variant or isoform	4,592,177	4,901,708	5,409,863	5,353,040	600,151	697,930	474,744	337,392	1.2	0.04
IPI00908396	ACTR3	Actin-like protein 3	1,316,597	1,518,790	1,517,112	1,552,825	175,540	245,000	95,135	180,588	1.2	0.05
IPI00220797	ENSA	Alpha-endosulfine, isoform 2	3,165,176	3,031,382	3,751,350	3,323,602	369,418	515,094	276,157	377,690	1.2	0.02
IPI00445412	PPP1R13B	Apoptosis-stimulating of p53 protein 1	3,482,820	3,409,330	4,263,690	3,478,330	587,723	713,406	240,412	428,598	1.2	0.03
IPI00784201	CEP290	Centrosomal protein of 290 kDa, isoform 1	1,219,850	1,206,910	1,429,295	1,265,550	125,428	136,582	166,458	194,182	1.2	0.05
IPI00871174	MYCBP	C-Myc-binding protein	5,297,950	5,146,320	6,391,240	5,405,640	700,879	1,903,651	822,493	563,833	1.2	0.05
IPI00019148	IGBP1	Immunoglobulin-binding protein 1	10,211,505	10,160,097	12,525,870	10,829,157	1,176,806	1,015,988	1,269,688	837,081	1.2	0.02
IPI00328753	KTN1	Kinectin, isoform 1	2,250,853	2,248,635	2,664,640	2,526,973	195,326	127,130	154,652	298,252	1.2	0.006
IPI00006207	LRRFIP1	Leucine-rich repeat flightless-interacting protein 1, isoform 2	1,964,859	2,081,191	2,402,051	2,350,525	159,588	315,270	248,608	329,975	1.2	0.01
IPI00328415	CYB5R3	NADH-cytochrome b5 reductase 3, isoform 1	1,798,143	2,075,053	2,237,847	2,021,077	187,319	239,354	379,871	188,177	1.2	0.05
IPI00295542	NUCB1	Nucleobindin-1	1,925,867	1,965,352	2,389,643	2,100,113	292,305	530,725	258,226	170,351	1.2	0.03
IPI00297241	URB1	Nucleolar pre-ribosomal-associated protein 1	8,845,370	7,505,000	11,004,970	8,199,640	816,066	2,125,416	1,192,376	963,399	1.2	0.01
IPI01013515	PTGR1	Prostaglandin reductase 1	3,154,223	3,295,703	3,798,120	3,357,670	497,310	539,439	308,530	228,330	1.2	0.04
IPI00292657	PTGR1	Prostaglandin reductase 1	3,544,943	3,668,611	4,210,531	3,813,075	563,933	555,635	338,854	284,756	1.2	0.05
IPI00908375	SEC23A	Protein transport protein Sec23A	277,828	305,794	335,946	320,186	35,120	50,600	31,658	51,955	1.2	0.03
IPI00908835	RAB5B	Ras-related protein Rab-5B	1,051,860	1,239,000	1,305,535	1,388,675	137,513	255,657	204,118	123,783	1.2	0.05
IPI00005038	HRSP12	Ribonuclease UK114	1,551,040	1,781,570	1,849,415	1,638,150	213,477	189,855	182,202	365,495	1.2	0.04
IPI00433279	SLFN5	Schlafen family member 5, isoform 1	2,890,390	2,632,140	3,424,580	2,690,460	320,393	320,247	157,047	429,549	1.2	0.01
IPI00032140	SERPINH1	Serpin H1	41,107,425	38,265,089	47,827,257	45,776,264	3,189,281	4,823,268	5,753,194	5,040,867	1.2	0.05
IPI00953321	STAM	Signal transducing adapter molecule 1	1,018,800	1,135,617	1,189,000	1,132,327	105,795	217,140	128,284	82,219	1.2	0.05
IPI00019407	NSDHL	Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	1,216,215	1,354,340	1,505,890	1,403,380	223,872	209,747	122,922	110,440	1.2	0.03
IPI00019385	SSR4	Translocon-associated protein subunit delta	1,637,560	1,460,302	2,027,658	1,669,634	209,412	201,283	278,269	195,489	1.2	0.04
IPI00966946	NSUN2	tRNA (cytosine(34)-C(5))-methyltransferase	2,384,653	2,108,020	2,903,460	2,859,950	446,414	782,783	244,964	589,065	1.2	0.05
IPI01010523	GNS	N-acetylglucosamine-6-sulfatase	654,557	569,776	746,823	715,484	76,626	130,592	47,872	85,624	1.1	0.05
IPI00027434	RHOC	Rho-related GTP-binding protein RhoC	3,355,413	3,286,873	3,838,776	3,541,732	300,120	281,841	303,725	216,017	1.1	0.04
IPI00376844	UBE2NL	Ubiquitin-conjugating enzyme E2 N-like	15,895,995	14,849,770	17,462,065	16,603,585	893,130	1,468,594	753,709	615,781	1.1	0.02
IPI00298058	SUPT5H	Transcription elongation factor SPT5, isoform	3,810,335	3,156,699	3,323,958	3,729,383	306,052	209,654	231,209	611,854	-1.1	0.02
IPI00448169	APOA1BP	Apolipoprotein A-1 binding protein	1,956,046	1,813,136	1,580,154	1,917,864	109,135	352,587	205,599	259,706	-1.2	0.007
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	-1.2	0.05
IPI00798302	EIF4B	Eukaryotic translation initiation factor 4B	4,631,674	4,622,503	3,820,293	5,035,975	335,042	1,023,536	375,116	680,196	-1.2	0.007
IPI00903190	GNPDA1	Glucosamine-6-phosphate isomerase	554,540	571,121	459,866	584,181	62,904	48,179	19,252	69,564	-1.2	0.03
IPI00289357	ULK1	Serine/threonine-protein kinase ULK1	2,837,440	2,815,545	2,319,070	3,053,560	189,426	347,901	439,188	311,191	-1.2	0.04
IPI00009950	LMAN2	Vesicular integral-membrane protein VIP36	4,395,838	4,421,830	3,701,033	4,092,123	396,815	439,672	412,618	147,819	-1.2	0.03
IPI00297322	ARFGAP2	ADP-ribosylation factor GTPase-activating protein 2	1,931,487	1,577,049	1,443,728	1,681,360	353,686	385,116	318,836	379,543	-1.3	0.05

IPI00793890	ERLIN2	Erlin-2	670,320	668,998	500,633	517,715	139,849	154,409	31,482	63,551	-1.3	0.05
IPI00844296	MUC17	Mucin-17	5,342,390	5,212,050	4,238,820	6,014,060	322,065	632,259	567,403	594,884	-1.3	0.005
IPI00335069	PSMD12	26S proteasome non-ATPase regulatory subunit 12 isoform 2	2,927,805	3,414,800	2,080,754	2,742,610	422,420	499,600	534,732	665,612	-1.4	0.02
IPI00005154	SSRP1	FACT complex subunit SSRP1	8,730,640	9,139,750	5,554,840	7,725,460	2,436,494	2,322,629	1,784,439	1,127,783	-1.6	0.05
IPI00878105	RPL9	60S ribosomal protein L9	667,169	742,026	345,846	624,266	226,580	166,207	69,728	161,626	-1.9	0.03
IPI00152316	WDR66	WD repeat-containing protein 66	3,554,450	2,518,350	1,367,525	3,033,545	1,230,398	1,511,814	72,453	776,168	-2.6	0.02