

Supplementary Table 13: list of lysosomal/endosomal proteins modulated in response to at least one size of polystyrene beads

acc number	gene_name	description	T test 10 µm	ratio 10µm/ctrl	T test 1 µm	Ratio 1 µm/ctrl	T test 0.1 µm	Ratio 0.1 µm/ctrl
P20611	Acp2	Lysosomal acid phosphatase	0.065126515	2.29030888685	0.093175741	2.143064671755	0.043641786	2.476270316
Q810B6	Ankfy1	Rabankyrin-5	0.002541969	1.89030319472	0.01184922	1.722961512813	0.291590358	1.319396847
O35643	Ap1b1	AP-1 complex subunit beta-1	0.006510749	1.59468981914	0.01216399	1.51999838609	0.007389884	1.573062883
P22892	Ap1g1	AP-1 complex subunit gamma-1	0.007664374	1.73593006864	0.044614431	1.434536150926	0.20370654	1.265236145
P61967	Ap1s1	AP-1 complex subunit sigma-1A	0.013788971	3.27431888501	0.794430754	1.212366373441	0.554221353	1.596712239
P17426	Ap2a1	AP-2 complex subunit alpha-1	0.0003118	2.0940052681	0.000482709	1.739921273982	0.001965056	1.648471731
P17427	Ap2a2	AP-2 complex subunit alpha-2	0.000863299	2.23079091433	0.004038456	1.89486185281	0.00525344	1.897214721
P84091	Ap2m1	AP-2 complex subunit mu	0.019987409	1.65306408071	0.029855742	1.592494656659	0.029861913	1.586173198
Q9Z1T1	Ap3b1	AP-3 complex subunit beta-1	0.000742449	3.66326900404	0.368543776	1.453064598857	0.431727181	1.361990874
O54774	Ap3d1	AP-3 complex subunit delta-1	0.040577043	1.98563120911	0.784853711	1.098499613039	0.652992944	1.160442775
P25286	Atp6v0a1	V-type proton ATPase 116 kDa subunit a isoform 1	0.579119105	1.16227924913	0.287712005	0.669214148613	0.407174964	0.744943917
P63081	Atp6v0c	V-type proton ATPase 16 kDa proteolipid subunit	0.000348873	2.20209310684	0.683917028	1.080474400057	0.344478535	1.189574719
P51863	Atp6v0d1	V-type proton ATPase subunit d 1	0.017871128	1.91353314967	0.940435738	1.020088521328	0.66100522	1.120345618
P50516	Atp6v1a	V-type proton ATPase catalytic subunit A	2.74921E-05	2.22112073104	0.002941016	1.497096792143	0.006585363	1.426762814
P62814	Atp6v1b2	V-type proton ATPase subunit B, brain isoform	0.000390767	1.99419572805	0.014342574	1.422408822928	0.051436184	1.297267368
Q9Z1G3	Atp6v1c1	V-type proton ATPase subunit C 1	0.001006868	3.77436925162	0.000431255	2.474004221821	0.034926813	1.679908728
P57746	Atp6v1d	V-type proton ATPase subunit D	0.288111252	1.41320025662	0.612899748	0.836165099226	0.319791359	1.220852224
P50518	Atp6v1e1	V-type proton ATPase subunit E 1	0.007311436	1.31380036343	0.008906918	1.327863868462	0.015487408	1.258137771
P50408	Atp6v1f	V-type proton ATPase subunit F	0.74220144	0.89329402446	0.7219442	1.115783610399	0.717559952	0.883959642
Q9CR51	Atp6v1g1	V-type proton ATPase subunit G 1	0.034117051	1.36159698819	0.065550353	1.289834097357	0.517544312	1.088689997
Q8BVE3	Atp6v1h	V-type proton ATPase subunit H	7.65318E-05	2.39097828336	0.034343166	1.379426233922	0.041467955	1.366607195
O08539	Bin1	Myc box-dependent-interacting protein 1	0.000597494	1.70426064202	0.011188703	1.526003938793	0.014678342	1.434624411
Q8C1Y8	Ccz1	Vacuolar fusion protein CCZ1 homolog	0.008816272	3.09008038516	0.923804671	1.065397185551	0.567531687	1.355957532
P31996	Cd68	Macrosialin	0.000274656	1.97812635343	0.281482401	0.926601282827	0.883105325	0.988598474
Q68FD5	Cltc	Clathrin heavy chain 1	0.000596388	1.74239565937	0.004082209	1.42125780601	0.012076014	1.334471014
P16675	Ctsa	Lysosomal protective protein	0.086966641	1.20167169362	0.627637683	0.953997205507	0.879732119	1.015053316
P10605	Ctsb	Cathepsin B	2.0479E-05	2.99719308321	0.030180293	1.486877712738	0.024118576	1.525920184
P18242	Ctsd	Cathepsin D	0.04931034	1.87718289386	0.119495897	1.30952496975	0.346470359	1.228750574
O70370	Ctss	Cathepsin S	0.035971663	1.45493379637	0.962936923	1.007121122479	0.812916356	1.039887613
Q9WUU7	Ctss	Cathepsin Z	0.01285856	1.46018618763	0.98503348	0.99876010985	0.940812078	1.006688199
P98078	Dab2	Disabled homolog 2	0.028350073	1.51377899661	0.006034092	1.733817213422	0.013161501	1.620524025
Q62418	Dbn1	Drebrin-like protein	0.016822239	1.3730029111	0.030405729	1.315330768046	0.047233999	1.309333036
P42567	Eps15	Epidermal growth factor receptor substrate 15	0.006728964	4.26915803691	0.00714596	4.287133706492	0.101625923	3.494206358
Q60902	Eps15l1	Epidermal growth factor receptor substrate 15-like 1	0.011964747	7.58522996618	0.002973214	6.903673821	0.002173155	6.734794646
Q80TY0	Fnbp1	Formin-binding protein 1	0.027398695	2.53916905737	0.000879199	2.741402689864	0.003683096	2.391143417
P70699	Gaa	Lysosomal alpha-glucosidase	0.019825438	1.49557536058	0.376817999	1.146053908468	0.086293362	1.249014972
P60517	Gabarap	Gamma-aminobutyric acid receptor-associated protein	0.025104241	1.84957362003	0.0339111	1.713024197106	0.024172008	1.81874297
P60521	Gabarapl2	Gamma-aminobutyric acid receptor-associated protein-like 2	0.039213872	2.22170779284	0.046851111	2.140440149502	0.035808165	2.230807005
Q571E4	Galns	N-acetylgalactosamine-6-sulfatase	0.002785667	1.86000638016	0.895897936	0.973095279458	0.366754739	1.153034995
Q6PAR5	Gapvd1	GTPase-activating protein and VPS9 domain-containing protein 1	0.01937989	3.31629416097	0.001021214	3.300958527711	0.03161005	2.352748704
P17439	Gba	Glucosylceramidase	0.009275054	1.77693727827	0.212135106	1.253122877019	0.663527298	1.081977031
Q8R0H9	Gga1	ADP-ribosylation factor-binding protein GGA1	0.003659207	2.41912543607	0.002455645	2.517374348404	0.02078925	1.96944561
P51569	Gla	Alpha-galactosidase A	1.31121E-05	3.79340335834	0.239263476	1.291353279158	0.551003701	1.162508576
P23780	Glb1	Beta-galactosidase	0.002519196	1.60490304332	0.600128024	1.056707034087	0.321154531	1.124289212
P12265	Gusb	Beta-glucuronidase	0.015380651	1.53805747331	0.753816899	1.048676737558	0.480815742	1.112268096
Q8VD75	Hip1	Huntingtin-interacting protein 1	0.030634688	4.19969695205	0.011189636	5.314495261654	0.032031055	4.138521799
Q9Z0R6	Itsn2	Intersectin-2	0.010331729	2.76783894481	0.027129076	2.398175464714	0.01983257	2.514512935
P28740	Kif2a	Kinesin-like protein KIF2A	0.027613061	2.45429702774	0.020660238	2.907630251296	0.021544903	2.67771205
P11438	Lamp1	Lysosome-associated membrane glycoprotein 1	0.00514333	1.40065624447	0.733177627	0.982494563806	0.037052295	1.166319535

P17047	Lamp2	Lysosome-associated membrane glycoprotein 2	0.004150407	1.77640184145	0.069907753	1.362344525428	0.046497444	1.47884357
O89017	Lgmn	Legumain	0.006001149	3.92173995119	0.079330929	2.429672593957	0.149691514	2.446600711
Q9Z0M5	Lipa	Lysosomal acid lipase/cholesteryl ester hydrolase	0.001933708	3.26295785645	0.005096718	2.78353787979	0.000149562	4.731283722
Q91ZX7	Lrp1	Prolow-density lipoprotein receptor-related protein 1	0.290483488	0.88110289845	0.027071981	0.681488531698	0.048532261	0.736777785
Q8K214	Manba	Beta-mannosidase	0.003776555	3.89620192138	0.007216378	3.073403912253	0.021146373	2.586377762
Q9QWR8	Naga	Alpha-N-acetylgalactosaminidase	0.005093198	1.70618511919	0.560378773	1.102743889051	0.282504506	1.150791032
Q9CR95	Necap1	Adaptin ear-binding coat-associated protein 1	0.030136291	1.96537292285	0.022231953	1.980349560095	0.042618388	1.824465749
O35604	Npc1	NPC intracellular cholesterol transporter 1	0.000689372	2.86849963791	0.263304683	1.38385856417	0.376179331	1.284182027
Q9Z0J0	Npc2	NPC intracellular cholesterol transporter 2	0.0019881	3.11056859659	0.689200998	1.240624012814	0.562034878	1.29760944
Q3TCN2	Plbd2	Putative phospholipase B-like 2	0.0210875	2.15194453355	0.464338771	1.285127124684	0.289698429	1.363710334
O88531	Ppt1	Palmitoyl-protein thioesterase 1	0.003488641	1.95683910104	0.031030686	1.523614312543	0.048857528	1.456761241
Q61207	Psap	Prosaposin	0.005779686	2.00173867068	0.470721248	1.100379686791	0.062400493	1.261998432
P97814	Pstpip1	Proline-serine-threonine phosphatase-interacting protein 1	0.014045234	3.13393140812	0.00230981	2.84721269118	0.005351924	2.571277801
Q5FVM3	Retreg1	Reticulophagy regulator 1	0.204801348	2.80094767396	0.029423836	3.242408324409	0.322696423	2.138767183
Q8BIJ7	Rufy1	RUN and FYVE domain-containing protein 1	0.040397724	1.74930179945	0.028635107	1.824815928873	0.142163533	1.490655152
Q8BPX9	Slc15a3	Solute carrier family 15 member 3	0.000590555	1.86638859678	0.190968861	0.912250689745	0.015523651	1.469393289
Q9D8U8	Snx5	Sorting nexin-5	0.014575149	1.59527630472	0.08009922	1.33774640145	0.123458132	1.282212866
O89023	Tpp1	Tripeptidyl-peptidase 1	0.000340301	2.38501796527	0.0071549	1.629711524153	0.012020987	1.5266068
O70404	Vamp8	Vesicle-associated membrane protein 8	0.024119457	1.38383685181	0.060976669	0.677819705145	0.544359693	0.90292919
Q91W86	Vps11	Vacuolar protein sorting-associated protein 11 homolog	0.005154751	2.25663666227	0.102188202	1.620753233794	0.173294132	1.467347935
Q920Q4	Vps16	Vacuolar protein sorting-associated protein 16 homolog	0.000928356	3.20800461879	0.066636899	2.0198435829	0.244449095	1.584127534
Q8R307	Vps18	Vacuolar protein sorting-associated protein 18 homolog	0.005521915	2.3239502368	0.34335152	1.295572617127	0.250346134	1.370673393

m