

Supplementary Table 1. List of proteins with significant change in relative abundances in the eye wash samples from SPF SW and SPF C57BL6/N mice. Data are presented as fold differences in levels of SPF SW versus SPF C57BL6/N proteins and corresponding p-value.

Gene name	Protein names	(-)log10 (p-value)	Fold difference
Igha	Ig alpha chain C1 region	1.76	6.56
	Uncharacterized protein C2orf47 homolog, mitochondrial	2.66	5.88
Gm1330		2.19	5.81
Igha	Ig alpha chain C2 region	1.13	4.55
Calml1	Calmodulin	2.13	4.44
Chn1		1.63	4.18
Mpst	3-mercaptopyruvate sulfurtransferase	0.83	4.07
H2afx	Histone H2AX	0.96	3.95
Igkc	Ig kappa chain C region	0.88	3.91
Mup1	Major urinary protein 1	1.29	3.85
Ctsz	Cathepsin Z	1.43	3.73
Bglap	Osteocalcin-related protein	1.48	3.71
Ldhd	L-lactate dehydrogenase B chain	2.39	3.64
Isg15	Ubiquitin-like protein ISG15	1.86	3.47
Psmc2	Proteasome subunit alpha type-2	2.53	3.45
Ovos	Ovostatin homolog	1.46	3.45
Igj	Immunoglobulin J chain	0.88	3.43
Lcn11	Lipocalin	1.08	3.33
Ephx1	Epoxide hydrolase 1	1.07	3.18
Psmc1	Proteasome subunit beta type-1	0.79	3.09
Mia3	Melanoma inhibitory activity protein 3	2.44	3.08
Trim16	Tripartite motif-containing protein 16	3.54	3.07
Eps811	Epidermal growth factor receptor kinase substrate 8-like protein 1	1.08	3.07
Syne1	Nesprin-1	1.31	3.07
Oxr1	Oxidation resistance protein 1	0.94	3.06
Lzic	Protein LZIC	2.19	3.04
Xpnpep1	Xaa-Pro aminopeptidase 1	0.99	2.99
Capza1	F-actin-capping protein subunit alpha-1	1.85	2.99
Spr	Sepiapterin reductase	2.00	2.96
Mug1	Murinoglobulin-1	0.84	2.93
Rnf114	E3 ubiquitin-protein ligase RNF114	1.51	2.93
Sval3		1.02	2.86
Lypla2	Acyl-protein thioesterase 2	1.26	2.82

Nars	Asparagine--tRNA ligase, cytoplasmic	1.88	2.75
Apip	Methylthioribulose-1-phosphate dehydratase	2.00	2.74
Mydgf	UPF0556 protein C19orf10 homolog	1.44	2.73
Klk1b9	Kallikrein 1-related peptidase b9	1.80	2.64
Ube2v1	Ubiquitin-conjugating enzyme E2 variant 1	0.98	2.62
Rpl13a	60S ribosomal protein L13a	0.95	2.61
Tmprss11g	Transmembrane protease serine 11G	1.63	2.60
Isoc1	Isochorismatase domain-containing protein 1	2.03	2.59
Alpl	Alkaline phosphatase, tissue-nonspecific isozyme	1.06	2.57
Uso1	General vesicular transport factor p115	2.36	2.56
Pafah1b3	Platelet-activating factor acetylhydrolase IB subunit gamma	1.60	2.56
Slc3a2	4F2 cell-surface antigen heavy chain	1.92	2.52
Rps10	40S ribosomal protein S10	1.71	2.40
Azgp1	Zinc-alpha-2-glycoprotein	1.86	2.35
Rps7	40S ribosomal protein S7	1.75	2.33
Qdpr	Dihydropteridine reductase	1.09	2.30
Chmp5	Charged multivesicular body protein 5	1.76	2.30
Grn	Granulins	1.88	2.28
Hp1bp3	Heterochromatin protein 1-binding protein 3	1.33	2.27
Prep	Prolyl endopeptidase	1.22	2.25
Ctsl	Cathepsin L1	1.05	2.25
Csrp1	Cysteine and glycine-rich protein 1	1.29	2.21
Atp6v1a	V-type proton ATPase catalytic subunit A	1.42	2.21
Rbmx	RNA binding motif protein, X-linked-like-1	1.27	2.16
Smap	Small acidic protein	1.59	2.07
Nudt10	Diphosphoinositol polyphosphate phosphohydrolase 2	1.25	2.06
Hexb	Beta-hexosaminidase subunit beta	2.21	2.06
Eif3i	Eukaryotic translation initiation factor 3 subunit I	1.21	1.99
F5	Coagulation factor V	1.37	1.99
Naprt	Nicotinate phosphoribosyltransferase	1.86	1.92
Txndc12	Thioredoxin domain-containing protein 12	1.23	1.89
Impa1	Inositol monophosphatase 1	2.10	1.77
Anxa6	Annexin A6	1.73	1.53
Kars	Lysine-tRNA ligase	3.21	1.35
Rps27l	40S ribosomal protein S27-like	2.55	-1.66
S100a8	Protein S100-A8	3.99	-2.16
S100a9	Protein S100-A9	1.10	-2.22
Scgb1b12	Secretogloin 1b12	1.22	-2.32
Myl12b	Myosin regulatory light chain 12B	1.38	-2.70
Rpl14	60S ribosomal protein L14	0.78	-3.68
Adh6a	Aldehydedehydrogenase 6a	2.56	-4.90
Fgg	Fibrinogen gamma chain	2.00	-6.46