

Supplementary Table 3. Comparative analysis of proteins adsorbed CaZn-doped coatings with respect to Ca. Proteins with ANOVA $p < 0.05$ (yellow) and a ratio higher than 1.5 in either direction were considered as significantly different (in bold). Proteins with increased affinity to $ZnCl_2$ coatings in comparison to MT are marked in red, while those with reduced affinity appear in green. Proteins highlighted in blue are dysregulated only for MT-Ca0.5Zn formulation.

ID	Description	MT-Ca0.5Zn vs MT-Ca		MT-Ca1Zn vs MT-Ca		MT-Ca1.5Zn vs MT-Ca	
		p value	Ratio	p value	Ratio	p value	Ratio
HRG_HUMAN	Histidine-rich glycoprotein	1,7E-02	2,76	2,3E-03	4,23	5,1E-04	6,85
PLMN_HUMAN	Plasminogen	2,6E-03	2,33	4,3E-03	3,48	2,2E-04	5,25
GPX3_HUMAN	Glutathione peroxidase 3	8,6E-01	0,91	4,3E-01	1,80	4,8E-02	3,53
CD14_HUMAN	Monocyte differentiation antigen CD14	7,5E-02	3,03	1,7E-01	2,18	1,5E-02	3,11
APOC4_HUMAN	Apolipoprotein C-IV	2,5E-02	2,36	1,6E-01	1,70	1,4E-02	3,01
SAA1_HUMAN	Serum amyloid A-1 protein	5,2E-01	1,28	2,6E-02	3,23	2,5E-02	2,93
HBD_HUMAN	Hemoglobin subunit delta	8,4E-01	0,94	1,0E-01	3,18	1,5E-02	2,78
APOA4_HUMAN	Apolipoprotein A-IV	2,7E-01	1,22	3,7E-02	1,87	3,2E-03	2,21
APOL1_HUMAN	Apolipoprotein L1	1,9E-02	1,92	1,3E-01	1,48	1,3E-02	2,07
KVD33_HUMAN	Immunoglobulin kappa variable 1D-33	1,3E-01	1,38	3,2E-02	1,77	4,7E-02	2,02
IGHM_HUMAN	Immunoglobulin heavy constant mu	7,3E-02	1,36	7,8E-02	1,54	7,9E-04	2,02
KV117_HUMAN	Immunoglobulin kappa variable 1-17	3,0E-01	1,59	2,8E-02	2,40	9,1E-02	1,91
CLUS_HUMAN	Clusterin	6,2E-02	1,33	3,4E-02	1,52	2,1E-03	1,91
VTNC_HUMAN	Vitronectin	4,0E-02	1,77	6,4E-02	2,12	5,4E-02	1,74
APOE_HUMAN	Apolipoprotein E	1,0E-01	1,31	8,0E-02	1,40	3,0E-03	1,69
FA5_HUMAN	Coagulation factor V	3,7E-02	1,63	1,4E-01	1,44	5,5E-02	1,61
PON1_HUMAN	Serum paraoxonase/arylesterase 1	1,9E-01	1,31	1,0E-01	1,59	3,2E-02	1,57
FETUA_HUMAN	Alpha-2-HS-glycoprotein	1,7E-01	1,46	1,6E-02	2,40	2,7E-01	1,36
PRG4_HUMAN	Proteoglycan 4	3,9E-01	0,65	2,1E-02	2,19	7,4E-01	1,20
DSC1_HUMAN	Desmocollin-1	1,4E-02	2,60	1,2E-01	1,66	9,1E-01	0,95