

SUPPLEMENTARY TABLE S3. MS-MS ANALYSIS OF DIFFERENTIAL PROTEIN

Sl. No.	Spot No.	Control CaCo2	Menthol-treated CaCo2	Protein Name	Species	database	Taxonomy	Accession No.	Protein MW	Protein pI	Protein Count For MS	Protein Score (Mascot)	Protein Score C.I. %	MS Ion Cluster Area Matched %	Peptide Count For MS/MS	Total Ion Score	Best Ion Score	Best C.I. %
U8	+	-	(P08238) Heat shock protein HSP 90-beta (HSP 84) (HSP 90)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	HS90B_HUMAN	83423.18	4.97	21	163	100	21.98					
U9	+	-	(P26641) Elongation factor 1-gamma (EF-1-gamma) (eEF-1B gamma) (PRO1608)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	EF1G_HUMAN	50298.23	6.27	12	86	99.99	10.42					
U10	+	-	(P14625) Endoplasmic precursor (94 kDa glucose-regulated protein) (GRP94) (gp96 homolog) (Tumor rejection antigen 1)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	ENPL_HUMAN	92696.45	4.76	16	110	100	12.83					
U11	+	-	(P14625) Endoplasmic precursor (94 kDa glucose-regulated protein) (GRP94) (gp96 homolog) (Tumor rejection antigen 1)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	ENPL_HUMAN	92696.45	4.76	21	163	100	10.15					
U12	+	-	(P14625) Endoplasmic precursor (94 kDa glucose-regulated protein) (GRP94) (gp96 homolog) (Tumor rejection antigen 1)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	ENPL_HUMAN	92696.45	4.76	25	207	100	19.52					
U13	+	-	(P14625) Endoplasmic precursor (94 kDa glucose-regulated protein) (GRP94) (gp96 homolog) (Tumor rejection antigen 1)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	ENPL_HUMAN	92696.45	4.76	18	124	100	8.25					
U14	+	-	(P60709) Actin, cytoplasmic 1 (Beta-actin)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	ACTB_HUMAN	42051.85	5.29	8	71	99.89	9.44					
U15	+	+↓	(P78371) T-complex protein 1, beta subunit (TCP-1-beta) (CCT-beta)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	TCPB_HUMAN	57663.21	6.02	15	128	100	14.06					
U16	+	+↓	(P60709) Actin, cytoplasmic 1 (Beta-actin)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	ACTB_HUMAN	42051.85	5.29	17	184	100	40.70					

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Sl. No.	Spot No.	Control	Menthhol- treated	CaCo2	Protein Name	Species	database	Taxonomy	Accession No.	Protein MW	Protein pI	Peptide Count For MS	Protein Score (Mascot)	Protein C.I. %	MS Ion Cluster Area Matched %	Peptide Count For MS/MS	Total Ion score	Best Ion Score	Best C.I. %	
U17	+	+	+	+	(P60709) Actin, cytoplasmic 1 (Beta-actin)	Homo sapiens	Swiss-Prot	Homo sapiens	ACTB_HUMAN	42051.85	5.29	19	218	100	50.09					
U18	+	+	+	+	(Q99497) DJ-1 protein (Oncogene DJ1)	Homo sapiens	Swiss-Prot	Homo sapiens	PARK7_HUMAN	20049.55	6.33	5	66	99.71	7.47	1	31	95.35	31	95.35
U19	+	+	+	+	(P62258) 14-3-3 protein epsilon (14-3-3E)	Homo sapiens	Swiss-Prot	Homo sapiens	1433E_HUMAN	29326.48	4.63	11	126	100	10.12	3	51	99.94	24	70.92
U20	+	+	+	+	(P63104) 14-3-3 protein zeta/delta (Protein kinase C inhibitor protein-1) (KCIP-1)	Homo sapiens	Swiss-Prot	Homo sapiens	1433Z_HUMAN	27898.78	4.73	9	93	100	5.13	1	31	96.35	31	96.35
U21	-	-	+	+	(P08758) Annexin A5 (Annexin V) (Lipocortin V) (Endonexin II) (Calphobindin I) (CBP-I) (Placental anticoagulant protein I) (PAP-I) (PP4) (Thromboplastin inhibitor) (Vascular anticoagulant-alpha) (VAC-alpha) (Anchoring CII)	Homo sapiens	Swiss-Prot	Homo sapiens	ANXA5_HUMAN	35840.37	4.94	13	119	100	11.86					
U22	-	-	+	+	(P60174) Triosephosphate isomerase (EC 5.3.1.1) (TIM) (Triose-phosphate isomerase)	Homo sapiens	Swiss-Prot	Homo sapiens	TPIS_HUMAN	26806.81	6.51	2	53	99.99	47	2	53	99.99	47	99.96
U23	-	-	+	+	(P28066) Proteasome subunit alpha type 5 (EC 3.4.25.1) (Proteasome zeta chain) (Macropain zeta chain) (Multicatalytic endopeptidase complex zeta chain)	Homo sapiens	Swiss-Prot	Homo sapiens	PSA5_HUMAN	26565.26	4.74	10	105	100	4.67	2	23	64.95	11	00
U24	-	-	+	+	(Q15084) Protein disulfide-isomerase A6 precursor (EC 5.3.4.1) (Protein disulfide isomerase P5) (Thioredoxin domain containing protein 7)	Homo sapiens	Swiss-Prot	Homo sapiens	PDIA6_HUMAN	48490.41	4.95	2	55	96.36	6.35	1	51	99.96	51	99.96

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Sl. No.	Spot No.	Control	CaCo2	Menthol-treated	CaCo2	Protein Name	Species	database	Taxonomy	Accession No.	Protein MW	Protein pI	Peptide Count For MS	Protein Score (Mascot)	Protein C.I. %	MS Ion Cluster Area	Matched %	Peptide Count For MS/MS	Total Ion score	Total Ion Score	Best Ion Score	Best C.I. %
U25	+	+	+†			(Q04760) Lactoylglutathione lyase (EC 4.4.1.5) (Methylglyoxalase) (Aldoketomutase) (Glyoxalase I) (Glx I) (Ketone-aldehyde mutase) (S-D-lactoylgutathione methylglyoxal lyase) (P25788) Proteasome subunit alpha type 3 (EC 3.4.25.1) (Proteasome component C8) (Macropain subunit C8) (Multicatalytic endopeptidase complex subunit C8)	Homo sapiens	Swiss-Prot	Homo sapiens	LGUL_HUMAN	20803.28	5.25	8	116	100	11.67	3	56	99.98	42	99.55	
U26	+	+	+†			(P25788) Proteasome subunit alpha type 3 (EC 3.4.25.1) (Proteasome component C8) (Macropain subunit C8) (Multicatalytic endopeptidase complex subunit C8)	Homo sapiens	Swiss-Prot	Homo sapiens	PSA3_HUMAN	28512.13	5.19	10	244	100	12.94	7	174	100	78	100	
U27	+	+	+†			(Q06830) Peroxiredoxin 1 (EC 1.1.1.1.-) (Thioredoxin peroxidase 2) (Thioredoxin-dependent peroxide reductase 2) (Proliferation-associated protein PAG) (Natural killer cell enhancing factor A) (NKEF-A)	Homo sapiens	Swiss-Prot	Homo sapiens	PRDX1_HUMAN	22324.35	8.27	7	66	99.67	3.52						
U28	+	+	+†			(P11021) 78 kDa glucose-regulated protein precursor (GRP 78) (Immunoglobulin heavy chain binding protein) (BiP) (Endoplasmic reticulum luminal Ca(2+) binding protein grp78)	Homo sapiens	Swiss-Prot	Homo sapiens	GRP78_HUMAN	72402.47	5.07	11	108	100	5.06	1	68	100	68	100	
U29	+	+	+†			(P62258) 14-3-3 protein epsilon (14-3-3E)	Homo sapiens	Swiss-Prot	Homo sapiens	1433E_HUMAN	29326.48	4.63	12	120	100	21.89						

(continued)

SUPPLEMENTARY TABLE S3. (CONTINUED)

Sl. No.	Spot No.	Control	Menthol-treated	CaCo2	Protein Name	Species	database	Taxonomy	Accession No.	Protein MW	Protein pI	Peptide Count For MS	Protein Score (Mascot)	Protein Score C.I. %	MS Ion Cluster Area Matched %	Peptide		Total		Best Ion Score	Best C.I. %
																Count	For MS/MS	Ion score	Score		
U30	+	+			(P27797) Calreticulin precursor (CRP55) (Calregulin) (HACBP) (ERp60) (grp60)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	CRTC_HUMAN	48282.89	4.29	14	261	100	12.81	5	149	100	53	99.97	
U31	+	+			(P07237) Protein disulfide-isomerase precursor (EC 5.3.4.1) (PDI) (Prolyl 4-hydroxylase beta subunit) (Cellular thyroid hormone binding protein) (p55)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	PDIA1_HUMAN	57479.82	4.76	19	571	100	32.31	8	432	100	92	100	
U32	+	+			(P28838) Cytosol aminopeptidase (EC 3.4.11.1) (Leucine aminopeptidase) (LAP) (Leucyl aminopeptidase) (Proline aminopeptidase) (EC 3.4.11.5) (Prolyl aminopeptidase)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	AMPL_HUMAN	53005.96	6.29	10	79	99.98	6.26	2	29	92.45	16	00	
U33	+	+			(Q9Y5Q8) General transcription factor 3C polypeptide 5 (Transcription factor IIIC-epsilon subunit) (TF3C-epsilon) (TFIIIC 63 kDa subunit) (TFIIIC63)	<i>Homo sapiens</i>	Swiss-Prot	<i>Homo sapiens</i>	TF3C5_HUMAN	59989.26	6.47	14	66	99.71	6.27						