

Supplementary Table 1. Differentially up-regulated (≥ 2 -fold) and down-regulated (≤ 0.5 -fold) proteins identified by iTRAQ between hypercholesterolemia and control (n=4)

Accession number	Gene symbols	Protein names	peptides	%Cov (95%)	fold-change hyper vs ctrl [#]	p-value
Up-regulated						
G3V9U2	ACAA2	3-ketoacyl-CoA thiolase, mitochondrial	175	88.4	12.6	2.74E-02
G3V7J2	PRKRA	Interferon-inducible double-stranded RNA-dependent protein kinase activator A	3	10.2	10.5	1.06E-02
P16303	CES1D	Carboxylesterase 1D	84	57.7	9.2	5.46E-14
P31399	ATP5H	ATP synthase subunit d, mitochondrial	28	72.0	9.2	2.60E-06
Q9WVK7	HADH	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial	57	68.8	9.0	8.28E-14
B6DYP8	GSTA1	Glutathione S-transferase	11	33.0	8.6	4.11E-03
D3ZF13	NDUFAB1	Acyl carrier protein	5	17.3	8.4	1.82E-02
B2RZ09	ARMET	Arginine-rich, mutated in early stage tumors	13	39.1	8.0	1.32E-05
O88767	PARK7	Protein DJ-1	11	42.3	7.5	7.29E-04
D3ZPL1	CPSF6	Cleavage and polyadenylation specific factor 6, 68kDa	5	12.0	7.2	3.39E-03
Q63716	PRDX1	Peroxiredoxin-1	19	49.3	7.2	3.31E-04
P63164	SNRPN	Small nuclear ribonucleoprotein-associated protein N	6	15.8	7.2	2.35E-02
P13084	NPM1	Nucleophosmin	8	24.0	7.0	6.91E-05
Q0ZFS8	SFRS3	Protein Srsf3	8	35.4	7.0	2.36E-02
P05982	NQO1	NAD(P)H dehydrogenase [quinone] 1	4	17.1	6.9	2.02E-03
Q5U328	NC	Nucleolin	22	21.6	6.8	1.36E-10
Q0D2L3	AGMAT	Agmatinase, mitochondrial	26	47.3	6.4	9.86E-04
P17764	ACAT1	Acetyl-CoA acetyltransferase, mitochondrial	77	58.0	6.4	7.43E-10
M0R3V4	LOC501282	Protein LOC501282	7	31.5	6.4	3.98E-03
P84817	FIS1	Mitochondrial fission 1 protein	7	41.4	6.3	1.29E-03
P04785	P4HB	Protein disulfide-isomerase	128	74.7	6.3	9.77E-15
P05182	CYP2E1	Cytochrome P450 2E1	38	38.5	6.2	4.34E-07
Q3MIE0	ECHDC3	Enoyl-CoA hydratase domain-containing protein 3, mitochondrial	38	48.0	6.2	5.65E-04
P31210	AKR1D1	3-oxo-5-beta-steroid 4-dehydrogenase	17	48.2	6.2	1.80E-03
P02680	FGG	Fibrinogen gamma chain	9	17.5	6.2	1.16E-08
Q3T1J1	EIF5A	Eukaryotic translation initiation factor 5A-1	6	39.0	6.2	1.01E-02
Q9R1T1	BANF1	Barrier-to-autointegration factor	3	14.6	6.1	1.51E-02
Q62733	TMPO	Lamina-associated polypeptide 2, isoform beta	7	14.6	6.0	3.30E-03
P12075	COX5B	Cytochrome c oxidase subunit 5B, mitochondrial	23	52.7	6.0	2.02E-04
P51647	ALDH1A1	Retinal dehydrogenase 1	14	21.8	6.0	1.84E-04

P00173	CYB5	Cytochrome b5	32	52.2	5.8	1.86E-04
P97576	GRPEL1	GrpE protein homolog 1, mitochondrial	14	40.1	5.7	3.11E-05
Q7TQ70	FGA	Ac1873 (Fibrinogen alpha chain)	26	32.2	5.6	8.11E-10
Q68FU3	ETFB	Electron transfer flavoprotein subunit beta	56	65.5	5.6	8.93E-03
Q10758	KRT8	Keratin, type II cytoskeletal 8	148	77.2	5.5	4.21E-08
P67779	PHB	Prohibitin	39	68.8	5.5	2.02E-05
P63039	HSP60	60 kDa heat shock protein, mitochondrial	147	72.9	5.5	3.47E-08
D3ZEN5	PRDX5	Peroxiredoxin-5, mitochondrial (Fragment)	26	80.8	5.5	6.31E-06
D4A7N1	MIC25	MICOS complex subunit Mic25	6	19.2	5.5	2.61E-04
Q9JJ40	PDZK1	Na(+)/H(+) exchange regulatory cofactor NHE-RF3	17	23.7	5.4	5.65E-04
D3ZXF9	MRPL12	Protein Mrpl12	6	15.6	5.4	6.73E-04
F1LT35	RGD1564606	Protein RGD1564606 (Fragment)	3	19.9	5.3	2.97E-02
G3V7K6	SSBP	Single-stranded DNA-binding protein	18	56.1	5.2	9.17E-05
P04636	MDH2	Malate dehydrogenase, mitochondrial	105	80.8	5.2	4.68E-06
Q9EQS4	CTH	Cystathionase	20	43.0	5.1	1.56E-05
D3ZUX5	CHCHD3	Coiled-coil-helix-coiled-coil-helix domain containing 3	11	30.0	5.1	1.86E-04
G3V8L9	PTRF	Polymerase I and transcript release factor	3	9.9	5.1	6.80E-03
Q60587	HADHB	Trifunctional enzyme subunit beta, mitochondrial	68	56.6	5.1	1.35E-03
F1M953	HSPA9	Stress-70 protein, mitochondrial	88	56.1	5.0	2.31E-09
Q5BJY9	KRT18	Keratin, type I cytoskeletal 18	115	71.2	5.0	6.41E-05
O08651	PHGDH	D-3-phosphoglycerate dehydrogenase	2	4.5	4.9	3.23E-02
P62870	TCEB2	Transcription elongation factor B polypeptide 2	3	26.3	4.9	5.04E-03
Q64428	HADHA	Trifunctional enzyme subunit alpha, mitochondrial	99	56.5	4.8	9.14E-08
Q6P2A5	AK3	GTP:AMP phosphotransferase AK3, mitochondrial	21	59.0	4.8	2.02E-05
D4AE56	PTGES2	Prostaglandin E synthase 2	6	12.2	4.8	1.02E-03
P24368	PIIB	Peptidyl-prolyl cis-trans isomerase B	21	48.6	4.7	1.42E-03
F1LM18	PTBP1	Polypyrimidine tract-binding protein 1	26	34.5	4.7	5.65E-04
B4F768	ALDH4A1	Aldh4a1 protein (Fragment)	97	69.4	4.6	9.01E-08
G3V6T7	PDIA4	Protein disulfide-isomerase A4	58	47.6	4.6	5.29E-05
P07687	EPHX1	Epoxide hydrolase 1	47	53.0	4.6	6.35E-11
G3V8R1	NUCB2	Nucleobindin 2, isoform CRA_b	21	39.1	4.5	5.90E-08
D4A817	HIST1H2BH	Histone H2B	40	56.3	4.5	1.28E-04
F1LQV9	LIN7A	Protein lin-7 homolog A	7	30.7	4.5	9.44E-03

B5DER4	MRPL1	Mitochondrial ribosomal protein L1	4	15.5	4.5	2.13E-02
P13803	ETFA	Electron transfer flavoprotein subunit alpha, mitochondrial	70	77.2	4.5	4.26E-09
G3V734	DECR1	2,4-dienoyl CoA reductase 1, mitochondrial, isoform CRA_a	48	57.0	4.5	1.69E-05
Q5D059	HNRPK	Hnrpk protein	22	38.8	4.5	2.81E-06
Q6IMF3	KRT1	Keratin, type II cytoskeletal 1	9	9.4	4.4	2.14E-02
P11240	COX5A	Cytochrome c oxidase subunit 5A, mitochondrial	19	63.7	4.4	2.18E-03
P31000	VIM	Vimentin	44	55.8	4.3	1.42E-04
P13086	SUCLG1	Succinyl-CoA ligase	37	48.8	4.3	4.25E-03
Q68FT4	SUCLG2	Suclg2 protein (Fragment)	74	60.9	4.3	1.04E-05
P16617	PGK1	Phosphoglycerate kinase 1	10	20.4	4.3	2.63E-02
Q8CJH4	GM2A	GM2 activator protein	5	17.6	4.3	8.59E-03
Q6P7S6	CLU	Clusterin	6	14.3	4.3	1.79E-03
B2RYS2	UQCRB	Cytochrome b-c1 complex subunit 7	12	54.0	4.2	3.23E-06
P08082	CLTB	Clathrin light chain B	10	29.7	4.2	1.21E-04
B0BN97	TXNDC12	Txndc12 protein (Fragment)	5	26.4	4.2	3.93E-02
Q6P6T6	CTSD	Cathepsin D	16	26.5	4.1	1.09E-02
Q6DGF2	ENTH	Enthoprotin	8	19.9	4.1	1.98E-03
F1LNF1	HNRNPA2B1	Heterogeneous nuclear ribonucleoproteins A2/B1 (Fragment)	43	63.3	4.1	8.93E-03
G3V6D3	ATP5B	ATP synthase subunit beta	194	65.2	4.0	4.17E-12
P02767	TTR	Transthyretin	16	66.0	4.0	2.29E-03
P56571		ES1 protein homolog, mitochondrial	23	44.7	4.0	1.09E-02
P07896	EHHADH	Peroxisomal bifunctional enzyme	76	53.6	4.0	5.04E-05
G3V8L3	LMNA	Lamin A, isoform CRA_b	62	57.9	3.9	2.96E-07
Q510H9	PDIA5	Protein disulfide-isomerase A5	20	24.2	3.9	1.05E-03
Q8K3R0	CES2A	Carboxylesterase isoenzyme	11	20.3	3.9	2.63E-02
F1LSR9	ADH1	Alcohol dehydrogenase 1	29	39.7	3.9	4.25E-03
P29266	HIBADH	3-hydroxyisobutyrate dehydrogenase, mitochondrial	47	51.0	3.9	1.23E-04
Q5M964	FH1	Fumarate hydratase 1	51	50.1	3.9	7.44E-07
Q510K3	CLYBL	Citrate lyase subunit beta-like protein, mitochondrial	8	22.5	3.8	1.09E-02
G3V7L0	FDX1	Adrenodoxin, mitochondrial	5	18.1	3.8	2.63E-03
P11598	PDIA3	Protein disulfide-isomerase A3	101	65.4	3.8	5.05E-07
O54755	MIPP65	MIPP65	8	24.4	3.8	9.12E-06
D3ZCZ9	LOC100912599	RCG41951, isoform CRA_a	7	38.8	3.8	3.80E-02

D4A0T0	NDUFB10	Protein Ndufb10	21	70.5	3.8	3.58E-03
A9UMV9	NDUFA7	Ndufa7 protein	6	35.7	3.8	7.97E-04
Q510P2	GCSH	Glycine cleavage system H protein, mitochondrial	11	32.9	3.8	2.01E-02
M0R785	CHCHD2	Protein LOC100910788	5	35.1	3.7	5.31E-03
P05178	CYP2C6	Cytochrome P450 2C6	49	47.5	3.6	3.58E-03
Q91ZW1	TFAM	Transcription factor A, mitochondrial	7	24.2	3.6	4.25E-03
Q5M9G3	CAPRIN1	Caprin-1	6	7.6	3.6	1.92E-02
F1M853	RRBP1	Protein Rrbp1	88	35.6	3.6	2.66E-15
Q6P7A4	PSAP	Prosaposin	13	17.7	3.6	2.40E-04
Q5XIE6	HIBCH	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial	33	50.4	3.5	2.02E-05
P04762	CAT	Catalase	131	76.5	3.5	1.35E-03
O35760	IDI1	Isopentenyl-diphosphate Delta-isomerase 1	4	17.2	3.5	1.28E-02
B1WBN3	BCKDHA	2-oxoisovalerate dehydrogenase subunit alpha, mitochondrial	41	54.9	3.4	1.60E-03
Q6AYV6	FTH1	Ferritin (Fragment)	3	13.1	3.4	1.77E-02
P29147	BDH1 BDH	D-beta-hydroxybutyrate dehydrogenase, mitochondrial	62	57.4	3.4	6.22E-06
P11915	SCP2	Non-specific lipid-transfer protein	38	38.2	3.3	4.18E-02
Q03248	UPB1	Beta-ureidopropionase	7	20.1	3.3	1.37E-02
G3V6L9	FKBP3	Peptidyl-prolyl cis-trans isomerase	3	13.4	3.3	1.19E-03
F1M4A0	TJP1	Protein Tjp1	19	10.1	3.3	1.19E-04
P18418	CALR	Calreticulin	53	51.9	3.3	2.10E-05
M0R961	KHSRP	Far upstream element-binding protein 2	15	18.3	3.3	1.93E-04
P15999	ATP5A1	ATP synthase subunit alpha, mitochondrial	151	63.5	3.3	2.53E-02
P19804	NME2	Nucleoside diphosphate kinase B	15	73.7	3.3	1.61E-02
P52555	ERP29	Endoplasmic reticulum resident protein 29	18	45.0	3.2	2.71E-04
Q6LDS4	SOD1	Superoxide dismutase [Cu-Zn]	15	59.2	3.1	5.90E-05
P70470	LYPLA1	Acyl-protein thioesterase 1 (APT-1))	9	34.8	3.1	1.15E-02
Q06647	ATP5O	ATP synthase subunit O, mitochondrial	47	54.0	3.1	4.25E-03
P02692	FABP1	Fatty acid-binding protein, liver	11	33.9	3.1	7.14E-04
Q6SKG1	ACSM3	Acyl-coenzyme A synthetase ACSM3, mitochondrial	16	25.7	3.0	1.60E-03
F1M0Q9	PM20D1	Protein Pm20d1 (Fragment)	13	31.3	3.0	4.25E-03
Q6IRK8	SPNA2	Spna2 protein	127	39.6	3.0	6.51E-10
Q4FZT0	STOML2	Stomatin-like protein 2, mitochondrial	20	47.3	3.0	1.58E-03
G3V6R7	OXSM	3-oxoacyl-[acyl-carrier-protein] synthase, mitochondrial	10	28.3	3.0	1.11E-02

D3ZLK9	CARKD	ATP-dependent (S)-NAD(P)H-hydrate dehydratase	14	56.0	2.8	1.72E-03
Q8VID1	DHRS4	Dehydrogenase/reductase SDR family member 4	18	45.5	2.8	5.84E-03
D3ZD09	COX6B1	Cytochrome c oxidase subunit 6B1	19	70.9	2.8	5.97E-04
Q5FVM4	NONO	Non-POU domain-containing octamer-binding protein	9	15.8	2.8	3.43E-02
P04644	RPS17	40S ribosomal protein S17	10	36.3	2.8	1.01E-02
P14604	ECHS1	Enoyl-CoA hydratase, mitochondrial	81	68.6	2.8	1.11E-03
G3V857	GAS2	Protein Gas2	10	37.3	2.8	3.27E-02
P29410	AK2	Adenylate kinase 2, mitochondrial (AK 2)	37	64.9	2.7	1.69E-02
P81155	VDAC2	Voltage-dependent anion-selective channel protein 2	19	41.7	2.7	7.17E-03
P70584	ACADSB	Short/branched chain specific acyl-CoA dehydrogenase, mitochondrial	28	47.7	2.7	1.93E-04
P14480	FGB	Fibrinogen beta chain	15	23.6	2.7	4.87E-06
Q5U1W6	APOOL	Apolipoprotein O-like	7	26.8	2.7	2.63E-02
D4AB01	HINT2	Histidine triad nucleotide binding protein 2	14	34.4	2.7	1.96E-03
P06761	GRP78	78 kDa glucose-regulated protein	101	56.4	2.6	1.87E-09
Q9ER34	ACO2	Aconitate hydratase, mitochondrial	67	46.0	2.6	2.33E-03
G3V9E3	CALD1	Caldesmon 1, isoform CRA_b	18	24.5	2.6	8.93E-03
Q6MGB5	HSD17B8	Estradiol 17-beta-dehydrogenase 8	16	53.7	2.6	1.38E-02
P85834	TUFM	Elongation factor Tu, mitochondrial	41	54.7	2.6	4.43E-04
P51886	LUM	Lumican	3	5.3	2.6	1.12E-02
D4A4A9	MRPL19	Protein Mrpl19	5	19.5	2.5	2.90E-02
B5DF65	BLVRB	Biliverdin reductase B (Flavin reductase)	7	18.9	2.5	4.39E-04
P04041	GPX1	Glutathione peroxidase 1	36	88.1	2.5	1.61E-02
Q3KR86	MIC60	MICOS complex subunit Mic60 (Fragment)	29	36.4	2.5	9.43E-04
P62914	RPL11	60S ribosomal protein L11	14	33.7	2.5	1.10E-02
Q6P6R2	DLD	Dihydrolipoyl dehydrogenase, mitochondrial	42	43.8	2.5	2.77E-02
P07824	ARG1	Arginase-1	25	41.8	2.4	1.33E-02
P11884	ALDH2	Aldehyde dehydrogenase, mitochondrial	147	80.0	2.4	8.30E-03
B1H250	RGD1564894	Protein RGD1564894	45	56.8	2.4	2.63E-02
Q5RKL4	DMGDH	Dimethylglycine dehydrogenase	65	43.6	2.4	1.51E-02
Q5FVN1	STBD1	Starch-binding domain-containing protein 1	9	21.9	2.4	4.55E-04
Q8K4G6	MACROD1	O-acetyl-ADP-ribose deacetylase MACROD1 (Fragment)	8	24.0	2.4	1.65E-03
P10111	PPIA	Peptidyl-prolyl cis-trans isomerase A	20	62.2	2.4	2.77E-03
D4A9L2	SRSF1	Protein Srsf1	15	39.1	2.4	4.25E-03

F1LQI1	HAGH	Hydroxyacyl glutathione hydrolase	15	26.9	2.4	7.96E-03
Q63081	PDIA6	Protein disulfide-isomerase A6	33	40.7	2.3	1.69E-02
Q62651	ECH1	Delta(3,5)-Delta(2,4)-dienoyl-CoA isomerase, mitochondrial	27	51.7	2.3	3.21E-02
Q03336	RGN	Regucalcin	23	42.1	2.3	8.93E-03
D3ZZC1	TXNDC5	Protein Txndc5	13	26.1	2.3	5.16E-03
D3ZQM0	SF3A1	Protein Sf3a1 (Splicing factor 3a, subunit 1	8	9.6	2.3	1.61E-02
Q68G41	ECI1	Dodecenoyl-Coenzyme A delta isomerase	31	43.6	2.3	1.09E-02
Q68G31	PBLD	Phenazine biosynthesis-like domain-containing protein	10	42.0	2.3	2.63E-02
Q4KLJ1	SRSF7	RCG61762, isoform CRA_a	7	37.6	2.3	1.60E-02
B2GV15	DBT	Dihydrolipoamide branched chain transacylase E2	30	41.9	2.3	8.90E-03
F1LRJ9	SELENBP1	Uncharacterized protein (Fragment)	13	31.9	2.3	2.67E-03
B1WBQ0	CDC5L	CDC5 cell division cycle 5-like	7	7.4	2.3	1.79E-02
P11030	DBI	Acyl-CoA-binding protein	5	52.9	2.3	4.76E-02
Q6URK4	HNRNPA3	Heterogeneous nuclear ribonucleoprotein A3	29	34.0	2.3	4.25E-03
Q63083	NUCB1	Nucleobindin-1	12	25.5	2.3	2.37E-02
Q5XIH7	PHB2	Prohibitin-2	41	63.2	2.2	2.40E-02
G3V6P2	DLST	Dihydrolipoamide S-succinyltransferase	35	37.0	2.2	4.25E-03
M0RBF0	SAFB	Scaffold attachment factor B1	6	7.7	2.2	5.47E-03
Q6AY02	RBM17	Protein Rbm17	2	3.5	2.2	4.80E-02
P63018	HSC70	Heat shock cognate 71 kDa protein	53	47.2	2.2	6.33E-05
D3ZIP3	EPB4.1	Protein Epb4.1	7	8.0	2.2	4.57E-02
Q6PCU0	ATP5C1	ATP synthase subunit gamma	26	36.6	2.2	3.21E-02
Q6AYT3	RTCB	tRNA-splicing ligase RtcB homolog	11	18.0	2.1	1.27E-02
Q66HF3	ETFDH	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	56	52.1	2.1	3.11E-03
P97519	HMGCL	Hydroxymethylglutaryl-CoA lyase, mitochondrial (HL)	26	53.5	2.1	2.50E-02
F1M3D3	HNRNPM	Heterogeneous nuclear ribonucleoprotein M	31	35.8	2.0	4.38E-03
Down-regulated						
Q8CHM7	HACL1	2-hydroxyacyl-CoA lyase 1	27	36.5	0.5	8.76E-03
P20816	CYP4A2	Cytochrome P450 4A2	19	30.0	0.5	4.10E-02
Q9QWN8	SPTBN2	Spectrin beta chain, non-erythrocytic 2	19	6.5	0.4	6.96E-04
Q5UAJ6	COX2	Cytochrome c oxidase subunit 2	15	37.0	0.4	4.82E-02
Q91ZW6	TMLHE	Trimethyllysine dioxygenase, mitochondrial	3	9.7	0.4	2.63E-02
P20814	CYP2C13	Cytochrome P450 2C13, male-specific	37	45.9	0.4	3.41E-02

F1LX07	SLC25A12	Protein Slc25a12 (Fragment)	15	17.6	0.4	4.88E-02
Q7TPA1	SLC25A15	Protein Slc25a15	20	42.0	0.4	5.85E-04
G3V6I4	MARC1	Protein Marc1	19	47.5	0.4	1.97E-02
P10760	AHCY	Adenosylhomocysteinase	9	15.7	0.4	2.63E-02
Q9Z2Z8	DHCR7	7-dehydrocholesterol reductase	11	16.3	0.4	8.90E-03
Q641Z9	SDHC	Protein Sdhc	7	34.3	0.4	3.01E-02
Q68FR6	EEF1G	Elongation factor 1-gamma	13	26.1	0.4	1.09E-02
Q09073	SLC25A5 ANT2	ADP/ATP translocase 2	41	54.4	0.4	2.05E-02
Q5XIN6	LETM1	LETM1 and EF-hand domain-containing protein 1, mitochondrial	20	19.3	0.4	5.32E-04
Q6AYW2	PAH	Phenylalanine hydroxylase	10	17.2	0.4	1.05E-03
Q5BK63	NDUFA9	NADH dehydrogenase	20	44.6	0.3	4.09E-03
P46462	VCP	Transitional endoplasmic reticulum ATPase	52	45.7	0.3	1.50E-06
Q5EB55	GBE1	Gbe1 protein (Fragment)	7	10.6	0.3	3.30E-02
P52873	PC	Pyruvate carboxylase, mitochondrial	130	56.4	0.3	1.26E-05
Q6IRK9	CPQ	Carboxypeptidase Q	9	20.1	0.3	1.16E-02
Q5XIH3	NDUFV1	NADH dehydrogenase	22	33.4	0.3	3.71E-04
B2GV75	D2HGDH	D2hgdh protein	15	27.5	0.3	1.56E-02
B0BN52	MTCH2	Mitochondrial carrier homolog 2	30	50.8	0.3	1.58E-03
P12336	SLC2A2	Solute-linked carrier family 2, facilitated glucose transporter member 2	7	12.8	0.3	4.14E-03
P50170	RDH2	Retinol dehydrogenase 2	27	43.2	0.3	2.26E-02
Q9JHZ9	SLC38A3 SNAT3	Sodium-coupled neutral amino acid transporter 3	5	8.1	0.3	3.14E-02
P50554	ABAT	4-aminobutyrate aminotransferase, mitochondrial	35	46.2	0.3	4.51E-03
P02761		Major urinary protein	23	66.9	0.3	2.39E-03
G3V9J8	GPAM	Glycerol-3-phosphate acyltransferase 1, mitochondrial	8	12.0	0.3	7.50E-04
D4A5Q9	GLDC	Glycine decarboxylase	30	23.9	0.3	3.09E-02
Q5M7W7	PARS2	Probable proline--tRNA ligase, mitochondrial	6	11.6	0.3	6.19E-03
P13107	CYP2B3	Cytochrome P450 2B3	33	42.8	0.3	1.37E-03
Q499N5	ACSF2	Acyl-CoA synthetase family member 2, mitochondrial	16	19.5	0.3	5.65E-04
P16970	ABCD3	ATP-binding cassette sub-family D member 3	18	14.4	0.2	3.96E-05
Q7TP91	SURF4 SURF1	Ab1-205	5	5.2	0.2	1.01E-03
P27364	HSD3B5	3 beta-hydroxysteroid dehydrogenase type 5	39	45.3	0.2	2.93E-04
P08683	CYP2C11	Cytochrome P450 2C11	72	60.4	0.2	1.13E-09
Q5RLM2	SLC22A7	Solute-linked carrier family 22 member 7	5	8.2	0.2	1.96E-03

Q617R1	DHRS7	Dehydrogenase/reductase member 7 (SDR family)	21	30.9	0.2	9.98E-04
P05197	EEF2	Elongation factor 2	18	16.3	0.2	1.61E-02
P43428	G6PC	Glucose-6-phosphatase	3	6.4	0.2	4.56E-02
Q9EQ76	FMO3	Dimethylaniline [N-oxide-forming] 3 monooxygenase	33	43.7	0.2	5.27E-08
Q6P9X2	SEC11A	RCG24868, isoform CRA_e	5	19.0	0.2	5.98E-03
P00388	POR	NADPH--cytochrome P450 reductase	26	25.4	0.2	2.02E-05
Q63120	ABCC2	Canalicular multispecific organic anion transporter 1	20	12.2	0.2	1.60E-03
P04182	OAT	Ornithine aminotransferase, mitochondrial	17	25.3	0.2	7.22E-06
G3V7I5	ALDH1B1	Aldehyde dehydrogenase X, mitochondrial	32	34.7	0.2	9.31E-04
Q5FVR5	ACNAT2	Acyl-coenzyme A amino acid N-acyltransferase 2	17	31.3	0.2	9.78E-04
Q4QQW7	CYP2C7	Cytochrome P450, family 2, subfamily c, polypeptide 7	34	39.4	0.2	8.13E-04
F1LM22	UGT2B	UDP-glucuronosyltransferase 2B2	34	36.0	0.1	2.38E-05

Two hundred and thirty-nine of differentially expressed proteins were identified with the criteria of 2-fold change of expression cut-off value, in which 188 proteins expression were up-regulated but 51 proteins expression were down-regulated in hypercholesterolemia. #: hypercholesterolemia versus control.