

Supplementary File: Table S1. Proteins detected by LC-MS/MS, encoded by estrogen responsive genes identified in microarray studies.

Protein ID	Gene symbol	Transcript level	Protein Ratio	Description
IPI00218546	BAG1	↑	plus	Splice Isoform 2 of BAG family molecular chaperone regulator 1
IPI00026215	FEN1	↑	plus	Flap endonuclease 1
IPI00178667	TOP2A	↑	plus	182 kDa protein
IPI00012835	CTBP1	↑	plus	C-terminal-binding protein 1
IPI00017672	NP	↑	plus	Purine nucleoside phosphorylase
IPI00465315	CYCS	↑	plus	Cytochrome c
IPI00015972	COX6C	↑	plus	Cytochrome c oxidase polypeptide VIc precursor
IPI00290142	CTPS	↑	plus	CTP synthase
IPI00022283	TFF1	↑	plus	Trefoil factor 1 precursor
IPI00030706	AHSA1	↑	plus	Activator of 90 kDa heat shock protein ATPase homolog 1
IPI00024387	FOXA1	↓	plus	Hepatocyte nuclear factor 3-alpha
IPI00025310	ZNF217	↓	plus	Zinc finger protein 217
IPI00012197	XTP3TPA	↑	8.6135303	Hypothetical protein FLJ21190
IPI00218288	SEC24D	↑	3.6267496	Sec24-related protein D
IPI00072377	SET	↓	3.475635	Splice Isoform 1 of Protein SET
IPI00106668	M6PRBP1	↑	2.7200622	Cargo selection protein TIP47
IPI00305152	SEC31A	↑	2.7200622	SEC31L1 protein
IPI00301503	SFRS10	↑	2.7200622	Splice Isoform 1 of Arginine/serine-rich splicing factor 10
IPI00001091	AFG3L2	↑	2.7200622	AFG3-like protein 2
IPI00297477	SNRPA1	↑	2.4178331	U2 small nuclear ribonucleoprotein A'
IPI00018350	MCM5	↑	1.8133748	DNA replication licensing factor MCM5
IPI00010717	MVK	↓	1.8133748	Mevalonate kinase
IPI00009634	SQRDL	↓	1.8133748	Sulfide:quinone oxidoreductase, mitochondrial precursor
IPI00395865	RBBP7	↑	1.586703	Histone-binding protein RBBP7
IPI00646304	PPIB	↑	1.5343941	Peptidyl-prolyl cis-trans isomerase B precursor
IPI00414676	HSP90AB1	↓	1.5330175	Heat shock protein HSP 90-beta
IPI00023728	GGH	↑	1.3600311	Gamma-glutamyl hydrolase precursor
IPI00000846	CHD4	↓	1.3600311	Splice Isoform 1 of Chromodomain helicase-DNA-binding protein 4
IPI00007750	TUBA4A	↑	1.3477786	Tubulin alpha-1 chain
IPI00216457	HIST2H2AA3	↓	1.3439361	Histone H2A type 2-A
IPI00216008	G6PD	↑	1.3361709	Splice Isoform Long of Glucose-6-phosphate 1-dehydrogenase
IPI00470805	MDC1	↑	1.2952677	Splice Isoform 2 of Mediator of DNA damage checkpoint protein 1
IPI00221089	RPS13	↑	1.2693624	40S ribosomal protein S13
IPI00011229	CTSD	↑	1.2284152	Cathepsin D precursor
IPI00217236	TBCA	↑	1.2089165	Tubulin-specific chaperone A
IPI00026689	CDC2	↑	1.1333593	Hypothetical protein DKFZp686L20222
IPI00009342	IQGAP1	↓	1.0921462	Ras GTPase-activating-like protein IQGAP1
IPI00075248	CALM2	↑	1.057802	Calmodulin
IPI00011654	TUBB	↑	0.9898004	Tubulin beta-1 chain
IPI00021048	FER1L3	↑	0.9066874	Splice Isoform 1 of Myoferlin
IPI00018909	TFF3	↑	0.9066874	trefoil factor 3 precursor
IPI00220416	UQCRB	↑	0.9066874	Ubiquinol-cytochrome c reductase complex 14 kDa protein

IPI00007402	IPO7	↑	0.9066874	Importin-7
IPI00019962	FLJ11184	↑	0.9066874	Hypothetical protein FLJ11184
IPI00013468	BUB3	↑	0.9066874	Mitotic checkpoint protein BUB3
IPI00029048	TTL12	↑	0.9066874	Tubulin--tyrosine ligase-like protein 12
IPI00000041	RHOB	↓	0.9066874	Rho-related GTP-binding protein RhoB precursor
IPI00216088	CRABP2	↓	0.9066874	Cellular retinoic acid-binding protein 2
IPI00008455	MYO6	↓	0.9066874	Splice Isoform 2 of Myosin-6
IPI00183002	PPP1R12A	↓	0.9066874	Splice Isoform 1 of Protein phosphatase 1 regulatory subunit 12A
IPI00217030	RPS4X	↑	0.7771606	40S ribosomal protein S4, X isoform
IPI00013933	DSP	↓	0.7771606	Splice Isoform DPI of Desmoplakin
IPI00028006	PSMB2	↑	0.6800156	Proteasome subunit beta type 2
IPI00008986	SLC7A5	↑	0.6800156	Large neutral amino acids transporter small subunit 1
IPI00218466	SEC61A1	↑	0.6800156	Sec61 alpha 1 subunit
IPI00021290	ACLY	↓	0.6800156	ATP-citrate synthase
IPI00027230	HSP90B1	↑	0.659409	Endoplasmic precursor
IPI00216319	YWHAH	↑	0.6346812	14-3-3 protein eta
IPI00024466	UGCG1	↑	0.6044583	UDP-glucose ceramide glucosyltransferase-like 1 isoform 1
IPI00025698	LIMK2	↓	0.6044583	LIM domain kinase 2 isoform 1
IPI00219038	H3F3A	↑	0.5838517	Histone H3.4
IPI00296215	TACSTD1	↓	0.5440124	Tumor-associated calcium signal transducer 1 precursor
IPI00150961	CAPRIN1	↓	0.5181071	GPI-anchored protein p137
IPI00018349	MCM4	↑	0.4533437	DNA replication licensing factor MCM4
IPI00414717	GLG1	↓	0.4533437	golgi apparatus protein 1
IPI00217413	DHX29	↓	0.4533437	DEAH (Asp-Glu-Ala-His) box polypeptide 29
IPI00021700	PCNA	↑	0.3264075	Proliferating cell nuclear antigen
IPI00383670	TPD52L1	↑	0.3022291	Tumor protein D53
IPI00022827	SLK	↑	0.3022291	CTCL tumor antigen se20-9
IPI00020567	ARHGAP1	↑	0.2266719	Rho-GTPase-activating protein 1
IPI00027252	PHB2	↓	0.1133359	Prohibitin-2
IPI00031517	MCM6	↑	minus	DNA replication licensing factor MCM6
IPI00007682	ATP6V1A	↓	minus	Vacuolar ATP synthase catalytic subunit A, ubiquitous isoform
IPI00013214	MCM3	↑	minus	DNA replication licensing factor MCM3
IPI00015102	ALCAM	↓	minus	CD166 antigen precursor
IPI00000230	TPM1	↑	minus	tropomyosin 1 alpha chain isoform 2
IPI00184330	MCM2	↑	minus	DNA replication licensing factor MCM2
IPI00411937	NOL5A	↑	minus	Nucleolar protein Nop56
IPI00386122	MOBKL3	↑	minus	Splice Isoform 1 of Preimplantation protein 3
IPI00032849	HSPC111	↑	minus	Protein CGI-117
IPI00034099	RBM35B	↑	minus	Hypothetical protein FLJ21918
IPI00003843	TJP2	↓	minus	Splice Isoform A1 of Tight junction protein ZO-2
IPI00217686	FTSJ3	↓	minus	Putative rRNA methyltransferase 3
IPI00306382	SCAMP3	↑	minus	Splice Isoform 1 of Secretory carrier-associated membrane protein 3

↑ = Transcript up-regulated by estrogen

↓ = Transcript down-regulated by estrogen

plus = Proteins identified only in E2-treated samples

minus = Proteins identified only in control samples

Proteins in bold Pass the proteomics analysis cut-off to be designated as estrogen-regulated