

Table S2. The differential expressed proteins in MCF-7 cells under estradiol stimulation in Fraction A, B and C.

Fraction A		Fraction B		Fraction C	
Gene name	Ratio E2+\E2-	Gene name	Ratio E2+\E2-	Gene name	Ratio E2+\E2-
ACBD3	2.09	ACTG1	0.40	ABCF1	1.73
AHCY	2.42	ADAR	0.58	ACTG1	0.41
AHNAK	2.06	AKAP8	2.57	ANXA4	0.58
ANP32E	0.50	ALDH3A2	2.05	ANXA5	1.74
ANXA7	2.39	ALPI	0.23	AP3S1	1.71
ATP5J	0.58	ANXA7	1.97	ATP5A1	1.70
ATP5J2	0.55	APOB	0.22	ATP5B	1.84
CALU	1.93	ATAD3A	0.35	ATP5D	1.88
CKB	2.78	ATP5A1	1.74	BANF1	2.09
CPS1	3.28	ATP5C1	2.30	CFDP1	1.91
CRYZ	0.33	BLM	2.82	CKAP4	1.92
DARS2	0.47	CAPG	0.45	CLMN	1.94
DHX15	1.75	CD55	4.96	COX5B	0.44
DLD	0.54	CDKN2AIP	3.84	CPNE1	2.45
EIF2S1	1.85	COX7A2	0.51	EEF1A2	0.41
EIF2S3;EIF2S3L	2.17	COX7C	0.58	EIF2S2	2.28
EPHX1	2.23	CPNE1	2.34	EIF2S3;EIF2S3L	1.84
FAR1	0.22	CPSF7	1.75	ELAVL1	2.64
G6PD	3.69	CREBRF	0.18	H1FO	3.36

GARS	2.30	DBN1	2.19	HIST1H1A	0.09
GOLT1B	1.83	DPM1	1.83	HIST1H1B	0.02
HIST1H1C;HIST1H1E; HIST1H1D	0.50	DSP	0.50	HNRNPC	0.52
HIST1H2AJ;HIST1H2A H;H2AFJ;HIST2H2AC; HIST1H2AC;HIST3H2 A;HIST2H2AA3;HIST1 H2AD;HIST1H2AG;HI ST1H2AB;HIST1H2AA ;H2AFX	0.49	EEF1D	1.71	KRT1	0.02
HIST1H4A	0.57	EEF1G	2.07	KRT10	0.42
HK1	2.51	EIF2S1	2.01	KRT16	0.05
HMGA1	0.51	EIF2S2	2.74	KRT17	0.35
HMGB2	0.50	EIF2S3;EIF2S3L	2.09	KRT18	1.95
HSPB1	0.10	ELAVL1	2.34	KRT2	0.05
IARS	1.73	FAM162A	2.09	KRT9	0.03
IDH3A	0.53	FLOT1	1.73	LGALS1	2.64
IPO7	1.86	FLOT2	1.71	LIMA1	2.65
KRT10	0.30	GSN	1.71	MRPL12	2.05
KRT14;KRT15	0.40	HIST1H1C;HIST1 H1E;HIST1H1D; HIST1H1A	0.57	NOLC1	0.42
KRT17	0.26	HIST1H2AJ;HIST 1H2AH;H2AFJ;HI ST2H2AC;HIST1	0.53	PARP1	1.87

		H2AC;HIST3H2A			
		;HIST2H2AA3;HI			
		ST1H2AD;HIST1			
		H2AG;HIST1H2A			
		B			
KRT9	0.08	HNRNPUL2	1.74	PCNA	2.32
LDHB	2.79	HSPD1	0.57	PRSS1;PRSS3P2;P	0.04
				RSS2	
LGALS1	2.01	IARS	1.78	PSMA7;PSMA8	2.00
LRPPRC	0.57	IFI16	0.20	S100A4	0.21
LSS	0.35	KRT1	0.03	S100A6	2.17
MATR3	0.54	KRT10	0.04	S100P	2.36
MDH2	0.39	KRT17	0.27	SMAP	2.18
MGST1	4.82	KRT2	0.04	SRP14	1.94
MRPL49	0.22	KRT37;KRT38	1.84	TSSC4	1.95
MSMO1	1.81	KRT9	0.05	VDAC2	2.56
NQO1	3.46	KTNI	3.70	XP32	0.02
OSTC	0.51	LIMA1	2.43	ZNF177	3.26
PAICS	2.24	MGST1	5.92		
PCNA	1.86	MGST2	0.45		
PDHA1	0.49	MUC1	0.15		
PGAM1	1.80	MYH10	0.53		
PSCA	3.66	MYO1E	0.58		
PSMB5	1.75	NDUFA12	0.58		
RAB10	0.53	NDUFA5	0.54		
RECQL	2.31	NDUFB9	0.57		

S100P	1.86	NOLC1	0.47
SLC30A7	0.41	NSA2	0.47
SLIRP	0.58	NUP210	0.49
SMARCAL1	7.03	NUP50	0.41
SMARCC1;SMARCC2	0.46	PPP1CC	0.45
SPTAN1	0.49	PSMD13	2.05
SPTBN1	0.52	QARS	2.13
SRSF3	0.47	RARS	1.78
TAF15	0.49	RECQL	3.15
TMEM97	2.24	S100A4	0.15
TRIP13	1.74	SEC22B	2.08
TXNRD1	4.41	SP100;SP140L	0.56
USP14	0.46	SPTBN1	0.55
VCP	1.78	SURF1	0.59
YWHAQ	2.69	TCOF1	0.58
		TMED10	1.88
		TMED2	1.86
		TMED7	3.59
		TMEM43	0.45
		TMX2	2.62
		TOP2A	0.56
		TUBAL3	2.68
		UQCRB	0.49
		UQCRC2	0.31
		USP7	1.75
		VDAC2	2.49

VDAC3	2.12
XPC	0.54