

Table SI. Upregulated genes in MDA-MB-231 cells supplemented with glucose 30 mmo/l.

ID	Genes	Z score
NM_032741	AGPAT1	4.152511
NM_003043	SLC6A6	4.058222
NM_005727	TSPAN-1	3.811546
NM_004189	SOX14	3.648091
NM_021625	TRPV4	3.609894
NM_016176	SDF4	3.445534
NM_006213	PHKG1	3.320789
NM_020649	CBX8	3.251316
NM_001252	TNFSF7	3.129304
NM_005919	MEF2B	3.041269
NM_002600	PDE4B	3.035975
NM_002150	HPD	2.983852
NM_014610	GANAB	2.950495
NM_017412	FZD3	2.854118
NM_003651	CSDA	2.834342
NM_000362	TIMP3	2.799783
NM_017774	CDKAL1	2.733284
NM_014176	HSPC150	2.716715
NM_016246	DHRS10	2.699532
NM_018221	MOBK1B	2.687309
NM_019027	FLJ20273	2.672044
NM_020399	GOPC	2.663082
NM_003690	EIF2AK2	2.659061
NM_024339	MGC2655	2.651965
NM_007369	GPR161	2.648733
NM_018309	FLJ11046	2.638847
NM_024080	TRPM8	2.634975
NM_021092	PPY2	2.589445
NM_006042	HS3ST3A1	2.559936
NM_019069	WDR5B	2.554405
NM_006090	CEPT1	2.554112
NM_000379	XDH	2.553987
NM_024317	ILT10	2.543635
NM_020039	ACCN2	2.530103
NM_003994	KITLG	2.518938
NM_020470	YIF1	2.514873
NM_017586	CACFD1	2.500049
NM_001657	AREG	2.492902
NM_004109	FDX1	2.442675
NM_057158	DUSP4	2.4199
NM_015392	NPDC1	2.405947

NM_004514	FOXK2	2.393476
NM_016527	HAO2	2.39325
NM_004381	CREBL1	2.390443
NM_001944	DSG3	2.376546
NM_001415	EIF2S3	2.365719
NM_005383	NEU2	2.355715
NM_005396	PNLIPRP2	2.333905
NM_012283	KCNG2	2.332478
NM_001017	RPS13	2.32631
NM_001861	COX4I1	2.324682
NM_016478	NIPA	2.322902
NM_002126	HLF	2.322122
NM_000176	NR3C1	2.322036
NM_003329	TXN	2.314989
NM_003292	TPR	2.309161
NM_024594	PANK3	2.307944
NM_003950	F2RL3	2.30745
NM_022909	CENPH	2.304761
NM_001021	RPS17	2.288117
NM_006385	ZNF211	2.257072
NM_022060	ABHD4	2.253153
NM_021798	IL21R	2.24353
NM_004809	STOML1	2.243241
NM_007066	PKIG	2.238943
NM_002873	RAD17	2.237669
NM_018667	SMPD3	2.236902
NM_006569	CGREF1	2.234488
NM_000606	C8G	2.23265
NM_023928	AACS	2.231619
NM_003330	TXNRD1	2.229042
NM_005486	TOM1L1	2.224016
NM_000665	ACHE	2.215802
NM_000396	CTSK	2.215142
NM_000414	HSD17B4	2.211451
NM_014945	ABLIM3	2.208169
NM_004631	LRP8	2.200668
NM_000871	HTR6	2.199585
NM_007227	GPR45	2.196594
NM_020362	HT014	2.195962
NM_000984	RPL23A	2.189285
NM_017805	RASIP1	2.183886
NM_003159	CDKL5	2.176313
NM_024971	TRPM3	2.175485

NM_033049	MUC13	2.173363
NM_017638	FLJ20045	2.172362
NM_003070	SMARCA2	2.166094
NM_024798	SNX22	2.144619
NM_001700	AZU1	2.143836
NM_012327	PIGN	2.140758
NM_000223	KRT12	2.136065
NM_005601	NKG7	2.135613
NM_006795	EHD1	2.132918
NM_000484	APP	2.12283
NM_002192	INHBA	2.11029
NM_016269	LEF1	2.108639
X63753	SON	2.098167
NM_012282	KCNE1L	2.094914
NM_000659	AIRE	2.094801
NM_020239	SPEC1	2.091267
NM_000842	GRM5	2.07833
NM_014069	PSORS1C2	2.074568
NM_003172	SURF1	2.067239
NM_025257	SLC44A4	2.064433
NM_004591	CCL20	2.061356
NM_001418	EIF4G2	2.056268
NM_012193	FZD4	2.05576
NM_000169	GLA	2.055554
NM_001365	DLG4	2.052459
BC014644	HMG2	2.052074
NM_006363	SEC23B	2.041701
NM_000196	HSD11B2	2.041024
X54315	CDH2	2.04007
NM_005543	INSL3	2.03963
NM_014826	CDC42BPA	2.038162
NM_017515	SLC35F2	2.03058
NM_000386	BLMH	2.023281
NM_001839	CNN3	2.017707
NM_022451	NOC3L	2.017077
NM_013356	SLC16A8	2.007846
AF118083	SEC10L1	2.007034
AK001321	HSPC133	2.005216
NM_002478	MYOD1	1.999414
NM_017763	FLJ20315	1.998798
NM_003895	SYNJ1	1.996071
NM_004217	AURKB	1.99504
NM_022663	CTAGE1	1.991679

NM_016145	PTD008	1.989167
NM_015669	PCDHB5	1.981639
NM_006698	BLCAP	1.979119
NM_014175	MRPL15	1.977463
NM_000213	ITGB4	1.974415
NM_002141	HOXA4	1.970863
NM_016463	CXXC5	1.970253
NM_000577	IL1RN	1.969516
NM_000459	TEK	1.969262
NM_006868	RAB31	1.967901
NM_032510	PAR6G	1.966775
AB018284	EIF5B	1.966763
NM_003611	OFD1	1.966498
NM_004941	DHX8	1.966337
NM_020384	CLDN2	1.964624
NM_018404	CENTA2	1.964308
NM_005253	FOSL2	1.960088
NM_001511	CXCL1	1.958781
NM_001855	COL15A1	1.958198
AF116653	FYB	1.958015
NM_019018	FLJ11127	1.952694
NM_024048	MGC3020	1.9522
NM_024774	FLJ21924	1.951839
NM_004658	RASAL1	1.946124
NM_014723	SNPH	1.942846
NM_002426	MMP12	1.935922
NM_001440	EXTL3	1.935858
NM_002215	ITIH1	1.935132
NM_000126	ETFA	1.935018
NM_004520	KIF2	1.933992
NM_018264	FLJ10900	1.928344
NM_007015	LECT1	1.9263
X79563	RPS21	1.926224
NM_001054	SULT1A2	1.9241
NM_018272	CASC1	1.911714
NM_024658	IPO4	1.910938
NM_000651	CR1	1.910302
NM_024706	FLJ13479	1.906299
NM_014419	DKKL1	1.905568
NM_022469	PRDC	1.900429
NM_006244	PPP2R5B	1.898831
NM_002249	KCNN3	1.894983
NM_003121	SPIB	1.894817

NM_001006	RPS3A	1.891832
NM_013987	PARK2	1.889553
NM_004886	APBA3	1.888261
NM_004772	C5orf13	1.878482
NM_005322	HIST1H1B	1.874695
NM_000695	ALDH3B2	1.872978
NM_012114	CASP14	1.87013
NM_004176	SREBF1	1.868513
NM_006840	LILRB2	1.867937
NM_007185	CELF3	1.866878
NM_000164	GIPR	1.865121
NM_006350	FST	1.861719
NM_006330	LYPLA1	1.860534
NM_002025	FMR2	1.858723
NM_000519	HBD	1.854051
NM_017849	FLJ20507	1.848253
NM_013959	NRG1□1	1.846253
NM_004292	RIN1	1.844961
NM_007235	XPOT	1.843291
NM_004750	CRLF1	1.842846
NM_001814	CTSC	1.842508
NM_005334	HCFC1	1.842265
NM_001866	COX7B	1.841068
NM_000121	EPOR	1.838764
NM_001747	CAPG	1.836084
NM_002300	LDHB	1.835062
NM_012189	CABYR	1.834506
NM_022898	BCL11B	1.831971
NM_002030	FPRL2	1.829556
NM_002136	HNRNPA1	1.828958
NM_004373	COX6A1	1.828562
NM_003223	TFAP4	1.827935
NM_001522	GUCY2F	1.825566
NM_002186	IL9R	1.823523
NM_005286	GPR8	1.823496
NM_016950	SPOCK3	1.822851
NM_003735	PCDHGC3	1.820798
NM_005096	ZNF261	1.818155
NM_003160	AURKC	1.815072
NM_003670	BHLHB2	1.814162
AF077951	PIAS1	1.813667
NM_004251	RAB9A	1.812758
NM_001523	HAS1	1.811946

NM_012182	FOXB1	1.81054
NM_016208	VPS28	1.808185
NM_003450	ZNF174	1.807342
NM_003772	JRKL	1.805673
NM_014309	RBM9	1.802861
NM_018176	LGI2	1.802222
NM_001114	ADCY7	1.800851
NM_024929	AGPAT4-IT1	1.799113
NM_018083	ZNF358	1.798961
NM_016562	TLR7	1.794927
NM_001670	ARVCF	1.793571
NM_004630	SF1	1.793002
NM_002273	KRT8	1.788333
NM_003593	FOXN1	1.787685
NM_012387	PADI4	1.787391
NM_020677	HSCARG	1.786213
NM_017540	GALNT10	1.784957
NM_001797	CDH11	1.781802
NM_001871	CPB1	1.777845
NM_024593	FLJ11767	1.777626
NM_022568	ALDH8A1	1.777338
NM_005069	SIM2	1.777327
NM_004047	ATP6V0B	1.768043
NM_018407	LAPTM4B	1.767453
NM_012423	RPL13A	1.762085
NM_012456	TIMM10	1.76052
NM_018027	FRMD4	1.75756
NM_024298	MBOAT7	1.752931
NM_000497	CYP11B1	1.750652
NM_002719	PPP2R5C	1.750133
NM_002831	PTPN6	1.748339
NM_002491	NDUFB3	1.747329
NM_005658	TRAF1	1.743111
NM_000896	CYP4F3	1.741933
NM_012126	CHST5	1.738901
NM_014909	KIAA1036	1.738891
NM_000269	NME1	1.737701
NM_005562	LAMC2	1.737561
NM_004224	GPR50	1.736314
NM_014245	RNF7	1.734458
NM_024899	C18orf9	1.732665
NM_004606	TAF1	1.732278
NM_000511	FUT2	1.73225

NM_018087	FLJ10407	1.731735
NM_005507	CFL1	1.730403
NM_000119	EPB42	1.72738
NM_022121	PERP	1.727263
NM_019008	FLJ20232	1.724338
NM_000741	CHRM4	1.724197
NM_004483	GCSH	1.718466
NM_003743	NCOA1	1.71745
NM_005103	FEZ1	1.716293
NM_006991	ZNF197	1.71359
NM_020158	EXOSC5	1.712431
NM_015559	SETBP1	1.710634
NM_002891	RASGRF1	1.71046
NM_003281	TNNI1	1.70932
NM_005677	COLQ	1.707292
NM_005420	SULT1E1	1.707097
NM_016272	TOB2	1.705936
NM_005340	HINT1	1.705026
NM_004050	BCL2L2	1.704143
NM_025114	FLJ13615	1.703407
NM_002568	PABPC1	1.703144
NM_004040	RHOB	1.7027
AF250309	IL17RB	1.702271
NM_020393	PGLYRP4	1.700293
NM_020356	C20orf32	1.697122
NM_001012	RPS8	1.696091
NM_015908	ARS2	1.693225
NM_020062	SLC2A4RG	1.692452
NM_002648	PIM1	1.690893
NM_004927	MRPL49	1.690075
NM_006898	HOXD3	1.68917
NM_018477	ACTR10	1.688867
NM_001649	APXL	1.688512
NM_001386	DPYSL2	1.686691
NM_018086	FIGN	1.683941
NM_001450	FHL2	1.683615
NM_005427	TP73	1.68074
NM_000300	PLA2G2A	1.67967
NM_000810	GABRA5	1.679495
NM_017979	SMAP-1	1.678788
NM_005430	WNT1	1.67741
NM_022146	GPR147	1.677234
NM_048368	CTDP1	1.677128

NM_003181	T	1.675109
NM_007019	UBE2C	1.675039
NM_014286	FREQ	1.674948
BC009441	384D8-2	1.674232
NM_002689	POLA2	1.671008
NM_005459	GUCA1C	1.670853
NM_002247	KCNMA1	1.668941
NM_014046	MRPS18B	1.666364
NM_019100	DMAP1	1.665657
NM_006364	SEC23A	1.665553
NM_023008	FLJ12949	1.665519
NM_000385	AQP1	1.665364
NM_003984	SLC13A2	1.664388
NM_007219	RNF24	1.662955
NM_024106	ZNF426	1.662468
NM_025079	FLJ23231	1.661001
NM_002948	RPL15	1.660764
NM_003262	TLOC1	1.659234
NM_019863	F8	1.658864
NM_020208	SLC6A20	1.65813
NM_025207	PP591	1.657483
NM_022061	MRPL17	1.657255
NM_000195	HPS1	1.656781
NM_014339	IL17RA	1.652145
NM_002442	MSI1	1.650644
NM_015971	MRPS7	1.648913
NM_006256	PKN2	1.646925
NM_024482	GMEB1	1.646419
NM_002199	IRF2	1.644711
NM_003132	SRM	1.643256
NM_016848	SHC3	1.638919
NM_000085	CLCNKB	1.637431
NM_001404	EEF1G	1.635138
NM_001940	DRPLA	1.635098
NM_001684	ATP2B4	1.633295
NM_023009	MLP	1.629743
NM_003588	CUL4B	1.629489
NM_003399	XPNPEP2	1.629462
NM_005539	INPP5A	1.62831
NM_000713	BLVRB	1.627612
NM_002693	POLG	1.627094
NM_001349	DARS	1.626825
NM_006118	HAX1	1.625109

NM_024919	FRMD1	1.624595
NM_000661	RPL9	1.624149
NM_014673	KIAA0103	1.623388
NM_013349	SPUF	1.623244
NM_001669	ARSD	1.622112
NM_017572	MKNK2	1.618645
NM_006206	PDGFRA	1.618374
NM_024044	MGC5178	1.617002
NM_000924	PDE1B	1.616775
NM_001504	CXCR3	1.615267
NM_000201	ICAM1	1.613971
NM_004422	DVL2	1.612317
NM_005608	PTPRCAP	1.612129
NM_006862	TDRKH	1.611153
NM_002599	PDE2A	1.610389
NM_002946	RPA2	1.608762
NM_000939	POMC	1.608669
NM_003451	ZNF177	1.608284
NM_003913	PRPF4B	1.607051
NM_004670	PAPSS2	1.606068
NM_004138	KRTHA3A	1.60556
NM_004892	SEC22L1	1.605493
NM_004055	CAPN5	1.605423
NM_001678	ATP1B2	1.605202
NM_002793	PSMB1	1.602875
BC016914	ZCCHC4	1.601016
NM_004992	MECP2	1.600479
NM_006113	VAV3	1.600298
NM_003926	MBD3	1.598725
NM_005538	INHBC	1.597739
NM_024954	UBTD1	1.597646
NM_002237	KCNG1	1.596424
NM_000051	ATM	1.596333
NM_005116	SLC23A2	1.595225
NM_000446	PON1	1.592004
NM_006593	TBR1	1.591905
NM_016183	MRTO4	1.590776
NM_001167	XIAP	1.589565
NM_018657	MYNN	1.587673
NM_013239	PPP2R3B	1.587357
NM_004235	KLF4	1.5869
NM_019096	GTPBP2	1.584522
NM_021734	SLC25A19	1.583876

NM_001953	ECGF1	1.582945
NM_016327	UPB1	1.582751
NM_004221	IL32	1.58252
NM_006092	CARD4	1.581887
NM_001155	ANXA6	1.581215
NM_006053	TCIRG1	1.580403
NM_007350	PHLDA1	1.579756
NM_014386	PKD2L2	1.577534
NM_018303	SEC5L1	1.576755
NM_019006	AWP1	1.575322
NM_001891	CSN2	1.574781
NM_006979	SLC39A7	1.573866
NM_014365	HSPB8	1.57164
NM_005602	CLDN11	1.570157
NM_006344	CLECSF14	1.568739
NM_015987	HEBP1	1.56862
NM_002251	KCNS1	1.567415
NM_003190	TAPBP	1.56624
NM_006029	PNMA1	1.565797
NM_025164	KIAA0999	1.564237
NM_022752	ZNF574	1.561486
NM_018292	QRSL1	1.561357
NM_018674	ACCN4	1.560612
NM_033440	ELA2A	1.560423
NM_006659	TUBGCP2	1.560006
AF017999	PTENP1	1.559703
NM_021240	DMRT3	1.559683
NM_017856	FLJ20514	1.555381
NM_024669	FLJ11795	1.555121
NM_005973	PRCC	1.554406
NM_032977	CASP10	1.553175
NM_003137	SRPK1	1.553072
NM_002465	MYBPC1	1.550081
NM_018045	FLJ10276	1.549791
NM_001011	RPS7	1.548999
NM_023110	FGFR1	1.546245
NM_015523	DKFZP566E144	1.54453
NM_014916	LMTK2	1.541687
NM_014049	ACAD9	1.540904
NM_001166	BIRC2	1.540261
NM_016371	HSD17B7	1.538481
NM_002806	PSMC6	1.535821
NM_004771	MMP20	1.534662

NM_000970	RPL6	1.533784
NM_000128	F11	1.532052
NM_007105	SLC22A18AS	1.529368
NM_006559	KHDRBS1	1.528002
NM_018159	NUDT11	1.526875
NM_005399	PRKAB2	1.526308
NM_012317	LDOC1	1.522408
NM_004044	ATIC	1.52201
NM_021724	NR1D1	1.521959
NM_001152	SLC25A5	1.521808
NM_001718	BMP6	1.518205
NM_005525	HSD11B1	1.518062
NM_007034	DNAJB4	1.517566
NM_018308	ACOXL	1.517481
NM_002255	KIR2DL4	1.516534
NM_001666	ARHGAP4	1.516146
NM_003893	LDB1	1.515734
NM_024841	FLJ14213	1.514898
NM_002250	KCNN4	1.514173
NM_005456	MAPK8IP1	1.511294
NM_015642	ZNF288	1.510248
NM_002923	RGS2	1.51
NM_013444	UBQLN2	1.509303
NM_016329	SFMBT1	1.508811
NM_016256	NAGPA	1.506475
NM_025256	BAT8	1.503973
NM_001554	CYR61	1.503709

Table SII. Downregulated genes in MDA-MB-231 cells supplemented with glucose 30 mmo/l.

ID	Gene	Z score
NM_006544	SEC10L1	-4.523611
NM_012261	LAMP5	-4.45501
NM_012070	ATRN	-4.333672
NM_004185	WNT2B	-3.908675
NM_001697	ATP5O	-3.87772
NM_053004	FLJ21125	-3.814458
NM_003692	TMEFF1	-3.744839
NM_006866	LILRB1	-3.717488
NM_003072	SMARCA4	-3.709549
NM_021176	G6PC2	-3.584369
NM_004937	CTNS	-3.50955
NM_004208	PDCD8	-3.506222
NM_013335	GMPPA	-3.505725
NM_017882	CLN6	-3.495366
NM_022444	SLC13A1	-3.435806
NM_001715	BLK	-3.398942
NM_007106	UBL3	-3.393446
NM_016041	F-LANa	-3.361821
NM_015873	VILL	-3.295754
NM_001745	CAMLG	-3.288471
NM_018964	SLC37A1	-3.286311
NM_007017	SOX30	-3.22295
NM_004845	PCYT1B	-3.170543
NM_015513	CRELD1	-3.146007
NM_002306	LGALS3	-3.113501
NM_018728	MYO5C	-3.112648
NM_003149	STAC	-3.095065
NM_017806	FLJ20406	-3.084884
NM_004673	ANGPTL1	-3.076086
NM_015995	KLF13	-3.075832
NM_016567	BCCIP	-3.070832
NM_018376	NIPSNAP3B	-3.060472
NM_024610	HSPBAP1	-3.025315
NM_004334	BST1	-3.021358
NM_002890	RASA1	-3.017049
NM_001220	CAMK2B	-2.988002
NM_022754	SFXN1	-2.95779
NM_017664	ANKRD10	-2.954793
NM_005402	RALA	-2.954746

NM_007375	TARDBP	-2.951253
NM_015024	XPO7	-2.94604
NM_003857	GALR2	-2.930794
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