

Supplemental Table 4: HIF1 α Transcription Network MDA-MB-231 cells

Probe Set ID	Entrez Gene	Gene Symbol	Gene Title	Fold change [TESTOBSA] vs [ctr]
201566_x_at	3398	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	-3.6294038
201565_s_at	3398	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	-3.557517
213931_at	3398 /// 84099	ID2 /// ID2B	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein /// inhibitor of DNA binding 2B, dominant negative helix-loop-helix protein (pseudogene)	-2.8388672
222847_s_at	112399	EGLN3	egl nine homolog 3 (C. elegans)	-2.083398
202912_at	133	ADM	adrenomedullin	-1.8566945
204846_at	1356	CP	ceruloplasmin (ferroxidase)	-1.6275297
222802_at	1906	EDN1	endothelin 1	-1.5992546
206762_at	3741	KCNA5	potassium voltage-gated channel, shaker-related subfamily, member 5	-1.5899996
205731_s_at	10499	NCOA2	nuclear receptor coactivator 2	-1.5696424
1564630_at	1906	EDN1	endothelin 1	-1.5243753
219232_s_at	112399	EGLN3	egl nine homolog 3 (C. elegans)	-1.5158372
225565_at	1385	CREB1	cAMP responsive element binding protein 1	-1.500526
209710_at	2624	GATA2	GATA binding protein 2	-1.4291306
234393_at	9734	HDAC9	histone deacetylase 9	-1.407431
203939_at	4907	NT5E	5'-nucleotidase, ecto (CD73)	-1.3898883
214851_at	3172	HNF4A	hepatocyte nuclear factor 4, alpha	-1.3853917
214627_at	8288	EPX	eosinophil peroxidase	-1.3474743
202498_s_at	6515	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	-1.3215501
237214_at	7037	TFRC	transferrin receptor (p90, CD71)	-1.3214285
202497_x_at	6515	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	-1.3155844
218995_s_at	1906	EDN1	endothelin 1	-1.291649
1555271_a_at	7015	TERT	telomerase reverse transcriptase	-1.2866004
207954_at	2624	GATA2	GATA binding protein 2	-1.2858471

202627_s_at	5054	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	-1.2395127
219976_at	51361	HOOK1	hook homolog 1 (Drosophila)	-1.2377853
230914_at	3172	HNF4A	hepatocyte nuclear factor 4, alpha	-1.2355442
203665_at	3162	HMOX1	heme oxygenase (decycling) 1	-1.2346776
201945_at	5045	FURIN	furin (paired basic amino acid cleaving enzyme)	-1.2237169
204313_s_at	1385	CREB1	cAMP responsive element binding protein 1	-1.2217959
240686_x_at	7037	TFRC	Transferrin receptor (p90, CD71)	-1.2163967
231243_s_at	79365	BHLHE41	basic helix-loop-helix family, member e41	-1.2107071
207248_at	3739	KCNA4	potassium voltage-gated channel, shaker-related subfamily, member 4	-1.2044926
1553994_at	4907	NT5E	5'-nucleotidase, ecto (CD73)	-1.2019454
220699_s_at	3796	KIF2A	kinesin heavy chain member 2A	-1.200732
212960_at	23158	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	-1.181557
223185_s_at	79365	BHLHE41	basic helix-loop-helix family, member e41	-1.173236
202628_s_at	5054	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	-1.1716428
203116_s_at	2235	FECH	ferrochelatase (protoporphyrin)	-1.169671
209122_at	123	ADFP	adipose differentiation-related protein	-1.1547668
1555545_at	3817	KLK2	kallikrein-related peptidase 2	-1.1527464
212956_at	23158	TBC1D9	TBC1 domain family, member 9 (with GRAM domain)	-1.1387969
201809_s_at	2022	ENG	endoglin	-1.133899
220781_at	50514	1-Dec	deleted in esophageal cancer 1	-1.1320648
201169_s_at	8553	BHLHE40	basic helix-loop-helix family, member e40	-1.1311287
216699_s_at	3816	KLK1	kallikrein 1	-1.1300423
210358_x_at	2624	GATA2	GATA binding protein 2	-1.1262178
1553995_a_at	4907	NT5E	5'-nucleotidase, ecto (CD73)	-1.1234459
224760_at	6667	SP1	Sp1 transcription factor	-1.1233953
209735_at	9429	ABCG2	ATP-binding cassette, sub-family G (WHITE), member 2	-1.1137159
225572_at	1385	CREB1	cAMP responsive element binding protein 1	-1.1089071
238996_x_at	226	ALDOA	aldolase A, fructose-bisphosphate	-1.1087304
204314_s_at	1385	CREB1	cAMP responsive element binding protein 1	-1.1022208
204936_at	5871	MAP4K2	mitogen-activated protein kinase kinase kinase kinase 2	-1.09786
209107_x_at	8648	NCOA1	nuclear receptor coactivator 1	-1.0908791
215605_at	10499	NCOA2	Nuclear receptor coactivator 2	-1.0776988

204363_at	2152	F3	coagulation factor III (thromboplastin, tissue factor)	-1.076899
214687_x_at	226	ALDOA	aldolase A, fructose-bisphosphate	-1.0759214
205199_at	768	CA9	carbonic anhydrase IX	-1.0752246
209106_at	8648	NCOA1	nuclear receptor coactivator 1	-1.0692192
224314_s_at	54583	EGLN1	egl nine homolog 1 (C. elegans)	-1.0685858
1555355_a_at	2113	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	-1.0643135
200966_x_at	226	ALDOA	aldolase A, fructose-bisphosphate	-1.0625931
201170_s_at	8553	BHLHE40	basic helix-loop-helix family, member e40	-1.0615681
214832_at	3172	HNF4A	hepatocyte nuclear factor 4, alpha	-1.0615077
208429_x_at	3172	HNF4A	hepatocyte nuclear factor 4, alpha	-1.0609713
200797_s_at	4170	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	-1.0547091
200650_s_at	3939	LDHA	lactate dehydrogenase A	-1.0532752
216889_s_at	3172	HNF4A	hepatocyte nuclear factor 4, alpha	-1.0519633
214447_at	2113	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	-1.0513897
221497_x_at	54583	EGLN1	egl nine homolog 1 (C. elegans)	-1.0483209
217937_s_at	51564	HDAC7	histone deacetylase 7	-1.0332581
237989_at	3484	IGFBP1	Insulin-like growth factor binding protein 1	-1.0320841
210196_s_at	5669	PSG1	pregnancy specific beta-1-glycoprotein 1	-1.03071
209855_s_at	3817	KLK2	kallikrein-related peptidase 2	-1.0274837
209105_at	8648	NCOA1	nuclear receptor coactivator 1	-1.0239995
200798_x_at	4170	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	-1.0229772
1558034_s_at	1356	CP	ceruloplasmin (ferroxidase)	-1.0228581
231242_at	79365	BHLHE41	basic helix-loop-helix family, member e41	-1.0176404
207980_s_at	10370	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	-1.0171673
236326_at	51564	HDAC7	histone deacetylase 7	-1.0104475
223045_at	54583	EGLN1	egl nine homolog 1 (C. elegans)	-1.0093609
201849_at	664	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3	-1.0077415
205732_s_at	10499	NCOA2	nuclear receptor coactivator 2	-1.0070568
200063_s_at	4869	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	-1.0052584
240258_at	2023	ENO1	enolase 1, (alpha)	1.0007936
201968_s_at	5236	PGM1	phosphoglucomutase 1	1.000862
1562772_a_at	199699	DAND5	DAN domain family, member 5	1.0018566
201808_s_at	2022	ENG	endoglin	1.0061027
201231_s_at	2023	ENO1	enolase 1, (alpha)	1.0062191

224754_at	6667	SP1	Sp1 transcription factor	1.0063834
1568765_at	5054	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	1.0099497
237289_at	1385	CREB1	cAMP responsive element binding protein 1	1.0105646
205659_at	9734	HDAC9	histone deacetylase 9	1.0131183
205302_at	3484	IGFBP1	insulin-like growth factor binding protein 1	1.0138234
216236_s_at	144195 /// 6515	SLC2A14 /// SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 14 /// solute carrier family 2 (facilitated glucose transporter), member 3	1.0153099
210339_s_at	3817	KLK2	kallikrein-related peptidase 2	1.0163186
215895_x_at	123	ADFP	Adipose differentiation-related protein	1.0166261
201251_at	5315	PKM2	pyruvate kinase, muscle	1.0169173
223046_at	54583	EGLN1	egl nine homolog 1 (C. elegans)	1.0171412
211065_x_at	5211	PFKL	phosphofructokinase, liver	1.0171843
214064_at	7018	TF	transferrin	1.0173802
207199_at	7015	TERT	telomerase reverse transcriptase	1.0215372
200738_s_at	5230	PGK1	phosphoglycerate kinase 1	1.0237118
204312_x_at	1385	CREB1	cAMP responsive element binding protein 1	1.0300914
210037_s_at	4843	NOS2	nitric oxide synthase 2, inducible	1.0402746
243951_at	5243	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1	1.0408525
228143_at	1356	CP	ceruloplasmin (ferroxidase)	1.0456961
210249_s_at	8648	NCOA1	nuclear receptor coactivator 1	1.0529021
201249_at	6513	SLC2A1	solute carrier family 2 (facilitated glucose transporter), member 1	1.0532192
229696_at	2235	FECH	ferrochelataase (protoporphyrin)	1.054987
210195_s_at	5669	PSG1	pregnancy specific beta-1-glycoprotein 1	1.0642222
218780_at	29911	HOOK2	hook homolog 2 (Drosophila)	1.0697091
204614_at	5055	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2	1.07219
217254_s_at	2056	EPO	erythropoietin	1.0748111
201666_at	7076	TIMP1	TIMP metalloproteinase inhibitor 1	1.0756689
214063_s_at	7018	TF	transferrin	1.0838027
220109_at	7018	TF	transferrin	1.0864607
231289_at	8648	NCOA1	Nuclear receptor coactivator 1	1.0924103
227486_at	4907	NT5E	5'-nucleotidase, ecto (CD73)	1.093601

209994_s_at	5243 /// 5244	ABCB1 /// ABCB4	ATP-binding cassette, sub-family B (MDR/TAP), member 1 /// ATP-binding cassette, sub-family B (MDR/TAP), member 4	1.0951401
203400_s_at	7018	TF	transferrin	1.0958467
201102_s_at	5211	PFKL	phosphofructokinase, liver	1.0973499
200737_at	5230	PGK1	phosphoglycerate kinase 1	1.1002378
204623_at	7033	TFF3	trefoil factor 3 (intestinal)	1.100283
200697_at	3098	HK1	hexokinase 1	1.1057515
200632_s_at	10397	NDRG1	N-myc downstream regulated 1	1.1065638
202499_s_at	6515	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3	1.1116827
1552760_at	9734	HDAC9	histone deacetylase 9	1.1146184
214513_s_at	1385	CREB1	cAMP responsive element binding protein 1	1.1165727
203115_at	2235	FECH	ferrochelatase (protoporphyrin)	1.1211535
203086_at	3796	KIF2A	kinesin heavy chain member 2A	1.1216097
221923_s_at	4869	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	1.1316776
207163_s_at	207	AKT1	v-akt murine thymoma viral oncogene homolog 1	1.1331486
200796_s_at	4170	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)	1.1336542
227253_at	1356	CP	ceruloplasmin (ferroxidase)	1.1357211
217356_s_at	5230	PGK1	phosphoglycerate kinase 1	1.1374736
227068_at	5230	PGK1	phosphoglycerate kinase 1	1.1419411
221691_x_at	4869	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin)	1.1507427
209993_at	5243	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1	1.1520417
211919_s_at	7852	CXCR4	chemokine (C-X-C motif) receptor 4	1.1579211
209357_at	10370	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	1.1657605
200989_at	3091	HIF1A	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	1.1738228
203087_s_at	3796	KIF2A	kinesin heavy chain member 2A	1.2000988
208691_at	7037	TFRC	transferrin receptor (p90, CD71)	1.206864
1553685_s_at	6667	SP1	Sp1 transcription factor	1.2070156
225792_at	51361	HOOK1	hook homolog 1 (Drosophila)	1.2207909
207092_at	3952	LEP	leptin	1.224764
209854_s_at	3817	KLK2	kallikrein-related peptidase 2	1.2272387
224833_at	2113	ETS1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	1.2327179

227287_at	10370	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2	1.2382772
207332_s_at	7037	TFRC	transferrin receptor (p90, CD71)	1.2389003
208257_x_at	5669	PSG1	pregnancy specific beta-1-glycoprotein 1	1.2477041
217383_at	5230	PGK1	Phosphoglycerate kinase 1	1.2493643
217294_s_at	2023	ENO1	enolase 1, (alpha)	1.2579368
207257_at	2056	EPO	erythropoietin	1.2871163
221530_s_at	79365	BHLHE41	basic helix-loop-helix family, member e41	1.2990471
1552758_at	9734	HDAC9	histone deacetylase 9	1.3079678
201848_s_at	664	BNIP3	BCL2/adenovirus E1B 19kDa interacting protein 3	1.353647
217028_at	7852	CXCR4	chemokine (C-X-C motif) receptor 4	1.3769138
202464_s_at	5209	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	1.3818449
1557767_at	339345	NANOS2	nanos homolog 2 (Drosophila)	1.3932881
222305_at	3099	HK2	hexokinase 2	1.4111394
214732_at	6667	SP1	Sp1 transcription factor	1.4579155
237215_s_at	7037	TFRC	transferrin receptor (p90, CD71)	1.4601676
209201_x_at	7852	CXCR4	chemokine (C-X-C motif) receptor 4	1.5021431
214057_at	4170	MCL1	Myeloid cell leukemia sequence 1 (BCL2-related)	1.5255699
201250_s_at	6513	SLC2A1	solute carrier family 2 (facilitated glucose transporter), member 1	1.549635
211167_s_at	2645	GCK	glucokinase (hexokinase 4)	1.6139727
222088_s_at	144195 /// 6515	SLC2A14 /// SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 14 /// solute carrier family 2 (facilitated glucose transporter), member 3	1.6464121
214056_at	4170	MCL1	Myeloid cell leukemia sequence 1 (BCL2-related)	1.8768921
202934_at	3099	HK2	hexokinase 2	1.9316821
209687_at	6387	CXCL12	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	3.698157
203666_at	6387	CXCL12	chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1)	5.539212