

**Supplementary Table 7.** Genes whose expression in CD44+/CD24– MCF-7/ADR cells compared with CD44+/CD24+ MCF-7/ADR cells was statistically significantly different, with a fold change of greater than 2\*

<b>Gene symbol</b>	<b>Gene name</b>	<b>Location</b>	<b>Type(s)</b>	<b>Fold change</b>
<i>ABCA1</i>	ATP-binding cassette, subfamily A (ABC1), member 1	Plasma membrane	Transporter	5.386
<i>ABCA13</i>	ATP-binding cassette, subfamily A (ABC1), member 13	Unknown	Transporter	-2.957
<i>ABCA5</i>	ATP-binding cassette, subfamily A (ABC1), member 5	Plasma membrane	Transporter	-2.274
<i>ABCD2</i>	ATP-binding cassette, subfamily D (ALD), member 2	Cytoplasm	Transporter	-3.018
<i>ACER1</i>	Alkaline ceramidase 1	Cytoplasm	Enzyme	-2.642
<i>AHR</i>	Aryl hydrocarbon receptor	Nucleus	Ligand-dependent nuclear receptor	-3.006
<i>ANXA1</i>	Annexin A1	Plasma membrane	Other	-2.419
<i>APEX1</i>	APEX nuclease (multifunctional DNA repair enzyme) 1	Nucleus	Enzyme	-2.689
<i>ATOX1</i>	ATX1 antioxidant protein 1 homolog (yeast)	Cytoplasm	Transporter	-2.973
<i>BAG1</i>	BCL2-associated athanogene	Cytoplasm	Other	-3.071
<i>BCL2L1</i>	BCL2-like 1	Cytoplasm	Other	-2.228
<i>BIRC5</i>	Baculoviral IAP repeat-containing 5	Cytoplasm	Other	-2.236
<i>CCNE1</i>	Cyclin E1	Nucleus	Transcription regulator	2.19
<i>CDKN1A</i>	Cyclin-dependent kinase inhibitor 1A (p21, Cip1)	Nucleus	Other	2.338
<i>CFLAR</i>	CASP8 and FADD-like apoptosis regulator	Cytoplasm	Other	-2.007
<i>CIAPIN1</i>	Cytokine induced apoptosis inhibitor 1	Cytoplasm	Other	2.811
<i>CLDN3</i>	Claudin 3	Plasma membrane	Transmembrane receptor	2.555
<i>CLDN5</i>	Claudin 5	Plasma membrane	Other	1.997
<i>CLPTM1L</i>	CLPTM1-like	Unknown	Other	-2.227

<i>DOT1L</i>	DOT1-like, histone H3 methyltransferase ( <i>Saccharomyces cerevisiae</i> )	Nucleus	Phosphatase	2.797
<i>FAS</i>	Fas (TNF receptor superfamily, member 6)	Plasma membrane	Transmembrane receptor	2.476
<i>GGT1</i>	$\gamma$ -Glutamyltransferase 1	Cytoplasm	Enzyme	2.965
<i>GSTM2</i>	Glutathione S-transferase $\mu$ 2 (muscle)	Cytoplasm	Enzyme	4.358
<i>GSTM4</i>	Glutathione S-transferase $\mu$ 4	Cytoplasm	Enzyme	4.407
<i>GSTO1</i>	Glutathione S-transferase $\omega$ 1	Cytoplasm	Enzyme	2.239
<i>HSF1</i>	Heat shock transcription factor 1	Nucleus	Transcription regulator	-2.051
<i>HSPB1</i>	Heat shock 27kda protein 1	Cytoplasm	Other	2.055
<i>HSPH1</i>	Heat shock 105kda/110kda protein 1	Cytoplasm	Other	-2.507
<i>IL6</i>	Interleukin 6 (interferon, $\beta$ 2)	Extracellular space	Cytokine	-2.351
<i>JUN</i>	Jun oncogene	Nucleus	Transcription regulator	2.175
<i>KCNMA1</i>	Potassium large conductance calcium-activated channel, subfamily M, $\alpha$ member 1	Plasma membrane	Ion channel	3.231
<i>LBR</i>	Lamin B receptor	Nucleus	Enzyme	-2.744
<i>MDM2</i>	Mdm2 p53 binding protein homolog (mouse)	Nucleus	Transcription regulator	-4.209
<i>MLH3</i>	MutL homolog 3 ( <i>Escherichia coli</i> )	Nucleus	Other	2.218
<i>MMP9</i>	Matrix metalloproteinase 9 (gelatinase B, 92kda gelatinase, 92kda type IV collagenase)	Extracellular space	Peptidase	3.064
<i>MT2A</i>	Metallothionein 2A	Cytoplasm	Other	-2.327
<i>POLB</i>	Polymerase (DNA directed), $\beta$	Nucleus	Enzyme	-2.373
<i>RAD23A</i>	RAD23 homolog A ( <i>S. cerevisiae</i> )	Nucleus	Other	-2.051
<i>RAD51</i>	RAD51 homolog (reca homolog, <i>E. coli</i> ) ( <i>S. cerevisiae</i> )	Nucleus	Enzyme	-3.171
<i>RPL36</i> (includes EG:25873)	Ribosomal protein L36	Cytoplasm	Other	-2.647

<i>SIRT2</i>	Sirtuin (silent mating type information regulation 2 homolog) 2 ( <i>S. cerevisiae</i> )	Nucleus	Transcription regulator	1.981
<i>SIRT3</i>	Sirtuin (silent mating type information regulation 2 homolog) 3 ( <i>S. cerevisiae</i> )	Cytoplasm	Enzyme	2.008
<i>SIRT4</i>	Sirtuin (silent mating type information regulation 2 homolog) 4 ( <i>S. cerevisiae</i> )	Cytoplasm	Enzyme	-2.881
<i>SLC16A2</i>	Solute carrier family 16, member 2 (monocarboxylic acid transporter 8)	Plasma membrane	Transporter	-3.999
<i>SLC19A3</i>	Solute carrier family 19, member 3	Plasma membrane	Transporter	2.659
<i>SLC22A1</i>	Solute carrier family 22 (organic cation transporter), member 1	Plasma membrane	Transporter	-2.826
<i>SLC22A4</i> (includes EG:6583)	Solute carrier family 22 (organic cation/ergothioneine transporter), member 4	Plasma membrane	Transporter	2.621
<i>SLC25A15</i>	Solute carrier family 25 (mitochondrial carrier; ornithine transporter) member 15	Cytoplasm	Transporter	2.437
<i>SLC29A1</i>	Solute carrier family 29 (nucleoside transporters), member 1	Plasma membrane	Transporter	2.127
<i>SLC3A1</i>	Solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino acid transport), member 1	Plasma membrane	Transporter	4.425
<i>SLC7A10</i>	Solute carrier family 7, (neutral amino acid transporter, y <sup>+</sup> system) member 10	Plasma membrane	Transporter	-2.025
<i>SLC7A11</i>	Solute carrier family 7, (cationic amino acid transporter, y <sup>+</sup> system) member 11	Plasma membrane	Transporter	2.264
<i>SLCO4A1</i>	Solute carrier organic anion transporter family, member 4A1	Plasma membrane	Transporter	2.54
<i>SRC</i>	V-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)	Cytoplasm	Kinase	-2.028
<i>STARD4</i>	Star-related lipid transfer (START) domain containing 4	Cytoplasm	Transporter	2.098

<i>TAP1</i>	Transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	Cytoplasm	Transporter	-2.026
<i>TCEAL4</i>	Transcription elongation factor A (SII)-like 4	Unknown	Other	-2.536
<i>TNF</i>	Tumor necrosis factor (TNF superfamily, member 2)	Extracellular space	Cytokine	2.149
<i>TPRKB</i>	TP53RK binding protein	Unknown	Other	-3.287
<i>TRAF1</i>	TNF receptor-associated factor 1	Cytoplasm	Other	2.343
<i>UBL5</i>	Ubiquitin-like 5	Cytoplasm	Other	-2.528
<i>UGCG</i>	UDP-glucose ceramide glucosyltransferase	Cytoplasm	Enzyme	2.407
<i>XRCC4</i>	X-ray repair complementing defective repair in Chinese hamster cells 4	Nucleus	Other	2.308

\*APEX = Apurinic-apyrimidinic endonuclease; ATX1 = antioxidant protein; BCL2 = B-cell CLL/lymphoma; IAP = Inhibitor of apoptosis protein; CASP8 = apoptosis-related cysteine peptidase; FADD = FAS-associated death domain protein; CLPTM1 = cleft lip and palate associated transmembrane protein; DOT1 = disruptor of telomeric silencing; TNF = Tumor necrosis factor; Mdm2 = mouse double minute 2; MutL = *E. coli* DNA mismatch repair gene; START = Star-related lipid transfer domain; MDR/TAP = Multidrug resistant/ transporter associated with antigen processing; TP53RK = TP53 regulating kinase.