

Supplementary Table – 3: List of Up-regulated genes in Ab-R-MCF-7 cells and their references.

Up-regulated Protein	Ab-R-MCF-7/MCF-7 fold Change Set11	Ab-R-MCF-7/MCF-7 fold Change Set-2	Roles of proteins in Cancers therapy resistance as reported.	References from PubMed
SBSN	2.557142857	3.45	The association of SBSN expression with progressive stages of cancer development indicates its role in cancer evolution and therapy resistance. Hubackova S et al 2019.	PMID: 30919591 PMID: 29301256
DSC1	1.147208122	1.54720812	The increased expression of DSC1 can promote the occurrence of HNSCC and is associated with tumor. The increased expression of DSC1 also indicates a poor prognosis of the patients with HNSCC. Wang Y. et al 2016.	PMID: 27601166 PMID: 29798048
LCN1	1.240066225	2.26655629	Identification of LCN1 as a Potential Biomarker for Breast Cancer by Bioinformatic Analysis Yang Y. et al 2019.	PMID: 31424267
S100A7	1.590138675	1.91371341	OLF4, LY6D and S100A7 as potent markers for distant metastasis in estrogen receptor-positive breast carcinoma. Mayama A. et. Al. 2018.	PMID: 30137688
DCD	1.51584507	2.08274648	DCD levels may increase in early carcinogenesis, particularly among more aggressive forms of breast cancer. Brauer HA et al 2014. Dermcidin exerts its oncogenic effects in breast cancer via modulation of ERBB signaling. Bancovik J. et al 2015.	PMID: 24562771 PMID: 25879571
PIP	2.232014388	2.19784173	The potential role for prolactin-inducible protein (PIP) as a marker of human breast cancer micrometastasis. Clark JW et al 1999.	PMID: 10576657
GAPDH	2.177158774	1.3643454	Various study have described GAPDH as a regulator of cell death and suggested that GAPDH participates in tumor progression. Zhang JY et al 2015.	PMID: 25859407
IGHG1		3.24581006	IGHG1 provided high prognostic value in TNBC for both OS and DFS, representing an easily measurable molecular prognostic marker. Yeong J et al 2018	PMID: 29899747
IGLL5		2.56074766	Rearrangements occurring in IGLL5 might be linked to the process of metastasis. Feng Liang et al 2015	PMID: 26311227
A2M	2.280182232	1.67312073	This study showed a strong association of FN1, A2M, C4BPA and CFB in molecular subtypes of BC, in which, C4BPA and A2M demonstrated a potent signature in blood plasma and tissue samples of LB and TN subtypes in BC patients, respectively. Suman S et al 2016.	PMID: 27498393
HABP2	2.946524064	4.41176471	HABP2 and LINC01483 represent putative new breast cancer susceptibility loci, because both loci were associated with breast cancer. Brand JS et al 2017.	PMID: 29665850
PEBP1		15.6590437	Downregulation of RKIP plays an important role in the breast neoplastic progression and correlates with poor prognosis in patients with BC. Kim GE et al 2017.	PMID: 26894644
MUC1	1.802958015		The combination therapy based on anti-MUC1 antibody and novel OM-86II inhibited the proliferation of MCF-7 breast cancer cells. Gornowicz A et al 2019.	PMID: 31524251
PSMA6		2.13408876	mRNA expression levels of PSMA1-7 were significantly upregulated in breast, lung, gastric, bladder and head and neck cancer compared with normal tissues. Li Y et al 2017	PMID: 27966459
ETFDH	2.286184211	2.60197368	Expression of RTN4, SON, IGF1R, SNRPE, PTGR1, PLEK, and ETFDH was associated with a decrease in survival time of Bladder cancer patient. Tapak L et al 2015.	PMID: 25907251

VTN	1.835112693		VEGFR2 positively regulate the expression of VTN in gastric cancer. VTN promoted the growth and metastasis of gastric cancer cells, VTN act as a poor prognostic factor both for disease-free survival and overall survival in gastric cancer. Lian L et al 2019.	PMID: 30819137
HIST1H4A	1.658914729	1.9379845	HIST1H4A was found to be expressed in exosomes at more than 5-fold higher level as compared to total cellular membrane proteins in Non-Small Cell Lung Carcinoma Cells.Pan D et al 2019.	PMID: 30646616
HSP90B1		1.54468912	The overexpression of Hsp90B1 is associated with tumorigenesis of canine mammary glands. Sunil Kumar BV et al 2018. Proteomic analyses reveal high expression of decorin and endoplasmin (HSP90B1) are associated with breast cancer metastasis and decreased survival.Cawthorn TR et al 2012.	PMID: 28801701 PMID: 22363530
TXNRD1		5.41954023	Overexpression of TXNRD1 is associated with breast cancer progression. Shin B. et al 2019. TXNRD1 and TXNIP are associated with prognosis in breast cancer, and ERBB2 seems to be one of the factors shifting balances of both factors of the redox control system in a prognostic unfavorable manner.Cadenas C et al 2010.	PMID: 31430859 PMID: 20584310
KDELRL1		2.20192308	NPAS2 is a risk biomarker in human cancers and plays a role in tumorigenesis by affecting cancer-related gene expression, and relevant biological pathways. NPAS2 promote the expression of KDELRL1 gene have a known role in tumorigenesis. Yi CH et al 2009.	PMID: 19457610
SERPINH1		1.75696203	HSP47 is encoded by the SERPINH1 gene, the altered expression levels of HSP47 have been correlated with several types of cancer, such as cervical, breast, pancreatic and gastric cancers. Studies have shown that HSP47 promotes tumor angiogenesis, growth, migration and metastatic capacity. Duarte BDP et al 2018.Clinically, increased expression of Hsp47 and reduced levels of miR-29b and -29c were associated with poor survival outcomes in breast cancer patients. Zhu J et al 2015.	PMID: 30128672 PMID: 25744716
SLC38A1	1.788990826	4.55504587	The cross-talk between Akt signaling and SNAT1/SLC38A1 might play a critical role in the development and progression of breast cancer. SNAT1 was up-regulated in breast cancer cell lines and breast cancer tissues.Wang K et al 2013.	PMID: 23848995
AHCY	1.537782139	1.30127576	Down-regulation of AHCY effectively suppressed cell proliferation by regulating the MEK/ERK signaling pathway and through cell cycle arrests at G2/M phase. Park SJ et al 2015.	PMID: 26328244
HSD17B10	1.889186475		HSD17B10 gene expression was up-regulated in poor responders and that immunohistochemistry expression of HSD17B10 on biopsy before treatment was correlated to response to chemotherapy. Salas S et al 2009. Overexpression of HSD10 accelerates pheochromocytoma cell growth, enhances cell respiration, and increases cellular resistance to cell death induction. Carlson EA et al 2015.	PMID: 19449377 PMID: 25879199
CNDP2	2.242424242		Knockdown of CNDP2 can inhibit the proliferation of colon cancer in vitro and retarded carcinogenesis in vivo. Xue C et al 2014.	PMID: 24885395
SLC2A1	2.214285714		High GLUT1 expression is associated with increased malignant potential, invasiveness and poor prognosis in some cancers including breast cancer.de Castro TB et al 2018.	PMID: 30360728
PSMB4	1.59978308		PSMB4 overexpression enhances the cell growth and viability of breast cancer cells leading to a poor prognosis.Wang H et al 2018.	PMID: 30066880

CD9	2.225207933	1.39603327	Within the tumor microenvironment, CD9 is responsible for the crosstalk between BMSCs and HCC1806 breast cancer cells (via CCL5, CCR5, and CXCR12) which contributes to chemoresistance. Ullah M et al 2019.	PMID: 31191817
MAL2	1.360277136	1.55704388	MAL2 promotes proliferation, migration, and invasion through regulating epithelial-mesenchymal transition in breast cancer cell lines. Bhandari A et al 2018.	PMID: 30195491
NAGLU	1.458125849	1.61611589	Overexpression of NAGLU-IKZF3 enhanced migration of CRC cells. Choi Y et al 2018.	PMID: 29955133
MT-ND4		1.62234043	Mutations in MT-ND4 and mtDNA depletion have been reported to be involved in cisplatin resistance. van Gisbergen MW et al 2015.	PMID: 26041263
PDIA3		3.1521197	PDIA3 expression is associated with tumor proliferation and decreased apoptosis in HCC, and that increased expression of PDIA3 predicts poor prognosis. Takata H. et al 2016.	PMID: 28101228
PPP1CA		3.56963351	USP11 promotes growth and metastasis of colorectal cancer via PPP1CA-mediated activation of ERK/MAPK signaling pathway. Sun H. et al 2019.	PMID: 31521612
ATP1A1		3.76406713	overexpression of the ATP1A1 and down-regulation of the ATP1A2 in Breast cancer. Alexey Bogdanov. et al 2017	PMID: 28529692
CLPTM1		3.77667141	Single nucleotide polymorphisms (SNPs) in genes encoding telomere-associated proteins (RTEL1 and TERT-CLPTM1) as markers of cancer risk. Mirabello L et al 2010.	PMID: 20597107
HPRT1	28	53.0210526	HPRT1 is a common salvage housekeeping gene with a historically important role in cancer as a mutational biomarker. Michelle H Townsend et al 2018.	PMID: 29730818