

**Supplementary Table – 2:** List of down-regulated proteins in Ab-R-MCF-7 and their references.

Down-regulated Protein	Ab-R-MCF-7/MCF-7-fold Change Set-1	Ab-R-MCF-7/MCF-7-fold Change Set-2	Roles of proteins in Cancers therapy resistance as reported	References ID PubMed
SERPINB6	0.438685925	0.46332484	Lack of expression for HNRNPH1 and SERPINB6 proteins are new candidate biomarkers of colon cancer.Krasnov GS et al 2009.	PMID: 19425502 PMID: 26956414
NUDT5	0.707536232	0.69188406	Low NUDT5 expression is associated with poor overall survival rates and tumor grade was a factor that influenced the expression level of NUDT5. Wang Y. et al 2017.	PMID: 29113256
S100A9	0.791461412	0.49589491	Expression of S100A9 is overexpressed in Er-ve, Pr-ve and Her-2 +ve BC means it has inverse relation with hormone +ve cells. Bao Yi. et al 2016.	PMID: 26998104
TGM3	0.785177767	0.80620931	TGM3, as a candidate tumor suppressor, contributes to the carcinogenesis and development of HNC and may serve as a useful biomarker for patients with HNC.Wu X et al 2013.	PMID: 24289313
PEPD	0.81853713	0.14879955	PEPD inhibites to Her-2 which is found overexpressed in a Breast Cancer subclass. Down-regulation of PEPD may be a reagon to develop a drug resistance in that class of BC.	PMID: 30674653 PMID: 26086037
DLD	0.647584973	0.41800835	Dihydroliipoamide dehydrogenase DLD proteins were found differentially expressed (down-regulated) in the breast cancer tumor.Abdullah Al-Dhabi N et al 2016.	PMID: 27110560
SERPINB1	0.709618875	0.49682396	Elevated expression levels of CLMN, SERPINB1, and KLK6 are associated with prolonged relapse-free survival for breast cancer patients.Sheng L. et al 2016. Inhibitory role of SERPINB1 in the migration and invasion of HCC, implying that SERPINB1 might be a potential prognostic indicator of HCC metastasis.Cui X et al 2014.	PMID: 26485663 PMID: 24105272
PDIA4	0.515227717	0.2774518	Down-regulated PDIA4 predicted DFS and OS.PDIA4, could be therapeutic targets or biomarkers for managing Ovarian Cancer.Yin F et al 2019.	PMID: 30335894
RPIA	0.521825397	0.50132275	Deregulation of ribose-5-phosphate isomerase A (RPIA) in the pentose phosphate pathway (PPP) is known to promote tumorigenesis in liver, lung, and breast tissues.	
ABAT	0.473042949	0.15900091	Decreased expression of ABAT and STC2 hallmarks ER-positive inflammatory breast cancer and endocrine therapy resistance in advanced disease(Jansen MP et al 2015)	PMID: 25771305
GLB1	0.441385639	0.20325763	Increased GLB1 is a valuable marker in formalin-fixed paraffin-embedded (FFPE) tissues for the senescence-like phenotype and associates with improved cancer outcomes. Wagner J. et al 2015.	PMID: 25876105
HSPD1	0.615284412	0.33868867	The novel prognostic marker, EHMT2, is involved in cell proliferation via HSPD1 regulation in breast cancer.Kim SK et al 2019.	PMID: 30365075
ACTN1	0.682649988	0.36831133	siRNAs targeting CTNNB1, TLN1, VCL, PXN, and ACTN1 genes significantly decreased the tumor burden at all time points. Ashaie MA et al 2019, Increased $\alpha$ -actinin-1 destabilizes E-cadherin-based adhesions and associates with poor prognosis in basal-like breast cancer. Kovac B et al 2018.	PMID: 31269666 PMID: 29742177
PSMB3	0.779322117	0.41550841	Down-regulation of IDH3A and PSMB3 were revealed as trisomy-associated alterations involved in regulating genome stability.Gemoll T et al 2013.	PMID: 24464829

ATP1B1	0.620751802	0.48918641	Na(+)-K(+) ATPase B1 can synergize with ADM and reverse drug resistance to ADM in the MCF-7/ADM cell line. Qi YY et al 2009. Altered expression of the genes Atp1b1, CARD 10, KLF4, Spint2, and Acly may play a role in the aggressive phenotype seen in breast cancer Yancy HF et al 2007.	PMID: 19664334 PMID: 17472751
CD276	0.788940359	0.50434279	B7-H3 (CDC276) is an important immune checkpoint member of the B7 family and inhibits T-cell mediated antitumor immunity. Pizon M et al 2018.	PMID: 30226585
STOM	0.392105263	0.55894737	Decreased expression of stomatin predicts poor prognosis in HER2-positive breast cancer. Chen CY et al 2016.	PMID: 27577936
M6PR		0.61196683	Low-level expression of mannose-6-phosphate receptor (M6PR) correlated with poor patient prognosis in Breast cancer. Esseghir S et al 2006, Caixeiro NJ et al 2013.	PMID: 17054309, PMID: 23686499
PRCP	0.698971722	0.61465296	The prolyl peptidases PRCP/PREP regulate IRS-1 stability critical for rapamycin-induced feedback activation of PI3K and AKT.	
GGCT	0.842055485	0.63461539	Downregulation of gamma-glutamyl cyclotransferase (GGCT), a critical component of GSH pathway, contribute to chemoresistance in breast cancer. Wang Z et al 2015, Ran R et al 2015.	PMID: 25818003 PMID: 25256603
TUFM	0.482295167	0.72576893	TUFM downregulation induces epithelial-mesenchymal transition and invasion in lung cancer cells via a mechanism involving AMPK-GSK3 $\beta$ signaling. He K et al 2016.	PMID: 26781467
SELENBP1	0.518987342		Low SELENBP1 expression in ER(+) breast cancer patients was significantly associated with poor survival and SELENBP1 levels progressively decreased with advancing clinical stages of breast cancer. Zhang S et al 2013, Wang Y et al 2015.	PMID: 23704933, PMID: 25445402