**Supplementary Table 6.** RNA hybrid results of predicted differentially expressed miRNAs observed in more than three cancer cell lines with binding energy ≤ ‒25 kcal/mol

|  |  |  |  |
| --- | --- | --- | --- |
| miRNA | Predicted expression in cell-lines | Normal-like vs. luminal-A downregulated  3′ UTR targets (#, genes) | Normal-like vs. TNBC downregulated  3’ UTR targets (#, genes) |
| miR4512 | MB-231 MB-436  MCF7  ZR751 | 6 (**A4GALT**[[1]](https://www.zotero.org/google-docs/?ZS92np), BMF[[2]](https://www.zotero.org/google-docs/?sZWyJx), CSF3[[3]](https://www.zotero.org/google-docs/?mLrTBr),**HRCT1**, S100A3[[4]](https://www.zotero.org/google-docs/?kXaoMf), SNURF[[5]](https://www.zotero.org/google-docs/?8PNcJX)) | 1 (PRRX1[[6]](https://www.zotero.org/google-docs/?n2u45Q)) |
| miR6791 | MB-231 MCF7 ZR751 | 15 (**A4GALT**[[1]](https://www.zotero.org/google-docs/?YPRNMY), BMF[[2]](https://www.zotero.org/google-docs/?D0IxAz), **C10orf55**[[7]](https://www.zotero.org/google-docs/?mb57lv), CSF3[[3]](https://www.zotero.org/google-docs/?unmPpC), CFB[[8]](https://www.zotero.org/google-docs/?1MertW), FXYD5[[9]](https://www.zotero.org/google-docs/?rW1xwf), HEG1[[10]](https://www.zotero.org/google-docs/?4nQfKg), PTRF[[11]](https://www.zotero.org/google-docs/?xgdu3j), RUNX2[[12]](https://www.zotero.org/google-docs/?upnevb), S100A3[[4]](https://www.zotero.org/google-docs/?ClqSRg), SNURF[[5]](https://www.zotero.org/google-docs/?TLgjI2), **HCG2042738**, UGT8[[13]](https://www.zotero.org/google-docs/?UjqQU9), WIPF1[[14]](https://www.zotero.org/google-docs/?VkcxNf), **ZNF71**[[15]](https://www.zotero.org/google-docs/?yShet8)) | 8 (AC108941.2[[16]](https://www.zotero.org/google-docs/?9GdjHG), ADAMTSL1[[17]](https://www.zotero.org/google-docs/?WrCmGw), BNC1[[18]](https://www.zotero.org/google-docs/?MEYwnO), **HIST3H2A**[[19]](https://www.zotero.org/google-docs/?QlvRDY), NUPR1[[20]](https://www.zotero.org/google-docs/?uVJ1hV), PRRX1[[6]](https://www.zotero.org/google-docs/?9dKEHT), STC2[[21]](https://www.zotero.org/google-docs/?oMCcvL), TNFRSF10D[[22]](https://www.zotero.org/google-docs/?ERXpGR)) |
| miR330 | MB-231 MCF7 ZR751 | 9 (**C10orf55**[[7]](https://www.zotero.org/google-docs/?9G1Wph), **C2orf74**[[23]](https://www.zotero.org/google-docs/?xF9Wq2),CSF3[[3]](https://www.zotero.org/google-docs/?jGrnul), CFB[[8]](https://www.zotero.org/google-docs/?e0HnR5), FXYD5[[9]](https://www.zotero.org/google-docs/?swOnxv), HEG1[[10]](https://www.zotero.org/google-docs/?K4milM), PTRF[[11]](https://www.zotero.org/google-docs/?9xLThM), S100A3[[4]](https://www.zotero.org/google-docs/?dK4yPc), **ZC4H2**[[24]](https://www.zotero.org/google-docs/?fp8ax6)) | 6 (ADAMTSL1[[17]](https://www.zotero.org/google-docs/?unK9ia), BNC1[[18]](https://www.zotero.org/google-docs/?eYkJl2), HOXC13[[25]](https://www.zotero.org/google-docs/?LH6ox4), NUPR1[[20]](https://www.zotero.org/google-docs/?3eugh5), ARHGEF5[[26]](https://www.zotero.org/google-docs/?4HvXxZ),STC2[[21]](https://www.zotero.org/google-docs/?5gDICk)) |
| miR3180-3 | MB-436 MCF7 ZR751 | 7 (**A4GALT**[[1]](https://www.zotero.org/google-docs/?Tttgql), **C10orf55**[[7]](https://www.zotero.org/google-docs/?hhwW1h), HEG1[[10]](https://www.zotero.org/google-docs/?hrozuM), PLAU[[27]](https://www.zotero.org/google-docs/?Utr8Dh), S100A3[[4]](https://www.zotero.org/google-docs/?ksl5VJ), WIPF1[[14]](https://www.zotero.org/google-docs/?86xZ3C), **ZNF512**[[28]](https://www.zotero.org/google-docs/?jP6NSM)) | 2 (FAT4[[29]](https://www.zotero.org/google-docs/?Dn5Ie6), NUPR1[[20]](https://www.zotero.org/google-docs/?6nXOrq)) |
| miR6080 | MB-231 MB-436 MCF7 | 1 (**ZNF512**[[28]](https://www.zotero.org/google-docs/?AapWfG)) | 1 (ARHGEF5[[26]](https://www.zotero.org/google-docs/?X2Esbp)) |
| miR5787 | MB-231 MB-436 ZR751 | 21 (AXL[[30]](https://www.zotero.org/google-docs/?LsVXCy),BMF[[2]](https://www.zotero.org/google-docs/?b4DfGv), **C10orf55**[[7]](https://www.zotero.org/google-docs/?DB7yjl), **C2orf74**[[23]](https://www.zotero.org/google-docs/?Uk5rCK), CFB[[8]](https://www.zotero.org/google-docs/?u1TUnq), FXYD5[[9]](https://www.zotero.org/google-docs/?ESFjva), HEG1[[10]](https://www.zotero.org/google-docs/?7FViHU), **HRCT1**, IGFBP6[[31]](https://www.zotero.org/google-docs/?tnRC50), PTER[[32]](https://www.zotero.org/google-docs/?Q7XrZk), PTRF[[11]](https://www.zotero.org/google-docs/?kCCLXI), RERG[[33]](https://www.zotero.org/google-docs/?h8JJzh), RUNX2[[12]](https://www.zotero.org/google-docs/?hrnava), S100A3[[4]](https://www.zotero.org/google-docs/?hSUISL), SPATA18[[34]](https://www.zotero.org/google-docs/?Gdl1na), UGT8[[13]](https://www.zotero.org/google-docs/?oAAvA1), WIPF1[[14]](https://www.zotero.org/google-docs/?C9UyDC), **ZC4H2**[[24]](https://www.zotero.org/google-docs/?O7zNlT), **ZNF512**[[28]](https://www.zotero.org/google-docs/?qxJsGP), **ZNF655**[[35]](https://www.zotero.org/google-docs/?ZF08R9), **ZNF71**[[15]](https://www.zotero.org/google-docs/?1IoeOo)) | 14 (ADAMTSL1[[17]](https://www.zotero.org/google-docs/?G8yI7P), BNC1[[18]](https://www.zotero.org/google-docs/?8hTcZC), CPA4[[36]](https://www.zotero.org/google-docs/?GLJ9ym), **ELOVL4**[[37]](https://www.zotero.org/google-docs/?lTjqzH), HOXC13[[25]](https://www.zotero.org/google-docs/?TFkLvj), NUPR1[[20]](https://www.zotero.org/google-docs/?EZZh08), PRRX1[[6]](https://www.zotero.org/google-docs/?geY8RZ), PPL[[38]](https://www.zotero.org/google-docs/?czVTIG), ARHGEF5[[26]](https://www.zotero.org/google-docs/?5fMxZ8), STC2[[21]](https://www.zotero.org/google-docs/?AX95xV), TNFRSF10D[[22]](https://www.zotero.org/google-docs/?ll7Svo), TMEM47[[39]](https://www.zotero.org/google-docs/?usjVjj), TNFSF10[[40]](https://www.zotero.org/google-docs/?lT2llh), **ZNF608**[[41]](https://www.zotero.org/google-docs/?Hry4zC)) |
| miR6733 | MB-231 MB-436 ZR751 | 1 (**ZNF512**[[28]](https://www.zotero.org/google-docs/?pvQlft)) | 1 (TNFRSF10D[[22]](https://www.zotero.org/google-docs/?BX6EwH)) |
| miR3613 | MB-231 MB-436 ZR751 | 2 (≤ -18 kcal/mol)  (UGT8[[13]](https://www.zotero.org/google-docs/?WZLzBX), WIPF1[[14]](https://www.zotero.org/google-docs/?jLKzrS)) | 3 (≤ -18 kcal/mol)  (ADAMTSL1[[17]](https://www.zotero.org/google-docs/?Ffm350), IQGAP2[[42]](https://www.zotero.org/google-docs/?QQr0Za), PRRX1[[6]](https://www.zotero.org/google-docs/?chlgeS)) |

Genes that have been validated previously for their role in breast cancer (BC) are represented with underline. Genes that are highlighted in bold represent no previous literature support in BC.

TNBC, triple-negative breast cancer; UTR, untranslated region.

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