Supplementary Figure 1

Annotations for analyzed miRNAs/precursors

miRNA/precursor	category	number significant subcategories	subcategory
hsa-miR-200b-3p	Chromosomal location (miRBase)	1	Chromosome 1
	Diseases (miRWalk)	3	Lymphoma B-Cell Marginal Zone; Nephrosclerosis; Proteinuria
	Organs (miRWalk)	4	Cytoskeleton; Lymphoid Tissue; Ovary; Adipose Tissue
	Pathways (miRWalk)	6	WP712 Estrogen signaling pathway; WP437 EGF EGFR Signaling Pathway; hsa05213 Endometrial cancer; hsa04650 Natural killer cell mediated cytotoxicity; hsa05222 Small cell lung cancer; WP2034 Leptin signaling pathway
	Gene Ontology (miRWalk)	17	GO0005168 neurotrophin trka receptor binding; GO0035455 response to interferon alpha; GO0045446 endothelial cell differentiation; GO0048568 embryonic organ development; GO0051291 protein heterooligomerization; GO0051726 regulation of cell cycle; GO0000978 rna polymerase ii core promoter proximal region sequence specific dna binding; GO0030056 hemidesmosome; GO0045930 negative regulation of mitotic cell cycle; GO0048538 thymus development; GO0048704 embryonic skeletal system morphogenesis; GO0030857 negative regulation of epithelial cell differentiation; GO0035265 organ growth; GO0030968 endoplasmic reticulum unfolded protein response; GO0017112 rab guanyl nucleotide exchange factor activity; GO0032469 endoplasmic reticulum calcium ion homeostasis; GO0014823 response to activity
	Target genes (miRTarbase)	19	KLF11; KLHL20; ERBB2IP; WASF3; ZFPM2; ZEB1; RASSF2; TCF7L1; ZEB2; HOXB5; WDR37; PTPRD; SHC1; BAP1; RIN2; VAC14; SEPT7; ELMO2; BCL2
	total number	50	-

Significant annotation view
This screenshot shows the found significant categories for miRNA miR-200b-3p for the performed ORA. This miRNA had the most annotations.

Supplementary Figure 2

Sequence properties for miRNAs/precursors

precursor	miRNA 5p	miRNA 3p	precursor sequence	5p sequence	3p sequence	MFE precursor	MFE 5p	MFE 3p	sequence length precursor	sequence length 5p	sequence length 3p
hsa-mir-21	hsa-miR-21-5p	hsa-miR-21-3p	UGUCGGGUAGCUUAUCAGACUGAUGUU GACUGUUGAAUCUCAUGGCAACACCAG UCGAUGGGCUGUCUGACA	UAGCUUAUCAGACUGAUGUUGA	CAACACCAGUCGAUGGGCUGU	-34.60	-0.80	-6.00	72	22	21
hsa-mir-96	hsa-miR-96-5p	hsa-miR-96-3p	UGGCCGAUUUUGGCACUAGCACAUUUU UGCUUGUGUCUCUCCGCUCUGAGCAAU CAUGUGCAGUGCCAAUAUGGGAAA	UUUGGCACUAGCACAUUUUUGCU	AAUCAUGUGCAGUGCCAAUAUG	-34.80	-2.10	-0.80	78	23	22
hsa-mir-183	hsa-miR-183-5p	hsa-miR-183-3p	CCGCAGAGUGUGACUCCUGUUCUGUGU AUGGCACUGGUAGAAUUCACUGUGAAC AGUCUCAGUCAGUGAAUUACCGAAGGG CCAUAAACAGAGCAGAGACAGAUCCACG A	UAUGGCACUGGUAGAAUUCACU	GUGAAUUACCGAAGGGCCAUAA	-41.00	0.00	-1.20	110	22	22
hsa-mir-141	hsa-miR-141-5p	hsa-miR-141-3p	CGGCCGGCCCUGGGUCCAUCUUCCAGU ACAGUGUUGGAUGGUCUAAUUGUGAAG CUCCUAACACUGUCUGGUAAAGAUGGC UCCCGGGUGGGUUC	CAUCUUCCAGUACAGUGUUGGA	UAACACUGUCUGGUAAAGAUGG	-49.00	-2.20	-4.00	95	22	22
hsa-mir-135b	hsa-miR-135b-5p	hsa-miR-135b-3p	CACUCUGCUGUGGCCUAUGGCUUUUCA UUCCUAUGUGAUUGCUGUCCCAAACUC AUGUAGGGCUAAAAGCCAUGGGCUACA GUGAGGGGCGAGCUCC	UAUGGCUUUUCAUUCCUAUGUGA	AUGUAGGGCUAAAAGCCAUGGG	-46.70	-1.10	-4.30	97	23	22
hsa-mir-210	hsa-miR-210-5p	hsa-miR-210-3p	ACCCGGCAGUGCCUCCAGGCGCAGGGC AGCCCCUGCCCACCGCACACUGCGCUG CCCCAGACCCACUGUGCGUGUGACAGC GGCUGAUCUGUGCCUGGGCAGCGCGAC CC	AGCCCCUGCCCACCGCACACUG	CUGUGCGUGUGACAGCGGCUGA	-57.80	-1.10	-2.30	110	22	22
hsa-mir-130b	hsa-miR-130b-5p	hsa-miR-130b-3p	GGCCUGCCCGACACUCUUUCCCUGUUG CACUACUAUAGGCCGCUGGGAAGCAGU GCAAUGAUGAAAGGGCAUCGGUCAGGU C	ACUCUUUCCCUGUUGCACUAC	CAGUGCAAUGAUGAAAGGGCAU	-35.80	0.00	-1.40	82	21	22
hsa-mir-200b	hsa-miR-200b-5p	hsa-miR-200b-3p	CCAGCUCGGGCAGCCGUGGCCAUCUUA CUGGGCAGCAUUGGAUGGAGUCAGGUC UCUAAUACUGCCUGGUAAUGAUGACGG CGGAGCCCUGCACG	CAUCUUACUGGGCAGCAUUGGA	UAAUACUGCCUGGUAAUGAUGA	-42.90	0.00	-0.60	95	22	22

Sequence properties view
This screenshot shows the sequences of the precursors and the mature miRNAs, as well as the minimum free energy (MFE) computed with RNAfold.