

Supplemental Table 1. miRNA Targets up-represented in the up-translated genes.

miR family	miR expression rank	Number of up-translated target genes	Total number of target genes	p-value
mir-133	NA	82	313	$< 10^{-07}$
mir-17	NA	127	549	$< 10^{-07}$
mir-154	NA	65	248	$< 10^{-05}$
mir-29	NA	100	454	$< 10^{-05}$
mir-34	864	61	242	$< 10^{-05}$
mir-449	NA	61	242	$< 10^{-05}$
mir-875	NA	60	228	$< 10^{-05}$
let-7	NA	94	436	$< 10^{-04}$
mir-1207	459	43	156	$< 10^{-04}$
mir-125	511	80	353	$< 10^{-04}$
mir-30	968	125	613	$< 10^{-04}$
mir-9	NA	116	557	$< 10^{-04}$
mir-646	NA	76	339	0.0002
mir-1263	NA	21	58	0.0003
mir-1274	1080	34	119	0.0004
mir-137	NA	96	463	0.0004
mir-142	NA	42	160	0.0004
mir-15	121	112	560	0.0004
mir-322	NA	112	560	0.0004
mir-365	315	31	105	0.0004
mir-497	NA	112	560	0.0004
mir-940	739	41	156	0.0004
mir-484	NA	28	94	0.0007
mir-760	NA	45	182	0.0009
mir-1225	NA	15	38	0.0010
mir-124	NA	145	776	0.0010
mir-128	NA	89	435	0.0010
mir-1286	NA	24	77	0.0010
mir-506	NA	145	776	0.0010
mir-938	NA	22	69	0.0012
mir-101	NA	72	340	0.0015
mir-375	NA	23	75	0.0015
mir-379	NA	22	70	0.0015
mir-1825	NA	46	194	0.0017

mir-144	NA	75	361	0.0018
mir-290	NA	69	327	0.0018
mir-302	NA	69	327	0.0018
mir-373	NA	69	327	0.0018
mir-548	NA	83	409	0.0018
mir-580	NA	32	121	0.0018
mir-1260	258	27	97	0.0020
mir-24	420	53	237	0.0022
mir-214	NA	52	233	0.0026
mir-103	149	58	269	0.0028
mir-1200	NA	65	309	0.0028
mir-129	NA	39	162	0.0028
mir-1827	NA	47	206	0.0028
mir-1233	NA	18	56	0.0029
mir-644	NA	16	47	0.0030
mir-138	NA	48	213	0.0031
mir-425	686	19	62	0.0038
mir-499	NA	34	138	0.0038
mir-515	NA	10	23	0.0038
mir-1278	NA	17	53	0.0040
mir-188	NA	32	128	0.0040
mir-25	NA	75	375	0.0041
mir-32	NA	75	375	0.0041
mir-363	NA	75	375	0.0041
mir-367	NA	75	375	0.0041
mir-498	NA	46	205	0.0041
mir-199	NA	52	241	0.0046
mir-935	NA	25	93	0.0046
mir-153	NA	59	282	0.0047

The search for miRNA target enrichment within regulated genes (transcriptionally or translationally up- or down-regulated) was performed with miRonTop software, which reveals potential miRNA signatures in the mRNA data.

No significant miRNA target enrichment was found for the transcriptionally up- and down-regulated and translationally down-regulated genes. In contrast, the translationally up-regulated genes presented significant enrichment in the mRNA targets of 112 miRNAs (Fisher's one-sided exact test with Benjamini Hochberg correction), suggesting involvement of these miRNAs in the translational up-regulation of these genes.