

Table 1. mRNAs down-regulated by miR-125b in P19 cells

GenBank accession no.	Symbol	Protein encoded	Number of putative miR-125b-responsive elements				Change in mRNA concentration \pm miR-125b	SD	<i>p</i> value
			1-8	2-8	1, 3-9	Total			
NM_172284	Ddx19b	DEAD-box polypeptide 19b	1	0	0	1	1.85	0.20	0.00251
NM_145833	Lin28	Lin-28	1	0	1	2	1.68	0.05	0.00006
NM_026824	Dus11	Dihydrouridine synthase 1-like	1	0	0	1	1.65	0.04	0.00005
NM_007880	Arid3a	AT-rich interactive domain 3A (Bright like)	2	4	0	6	1.61	0.09	0.00034
NM_019689	Arid3b	AT-rich interactive domain 3B (Bright like)	1	1	0	2	1.55	0.06	0.00025
XM_130148	B230208H17Rik	FLJ10101 homolog	1	0	0	1	1.54	0.08	0.00048
NM_026174	Entpd4	Ectonucleoside triphosphate diphosphohydrolase 4	0	1	0	1	1.53	0.07	0.00025
NM_013866	Zfp385	Zinc finger protein 385	0	0	2	2	1.53	0.09	0.00068
NM_013912	Apln	Apelin	0	0	1	1	1.47	0.06	0.00014
NM_030251	Abtb1	Ankyrin repeat and BTB (POZ) domain containing 1	1	0	0	1	1.46	0.02	0.00001
NM_010590	Jub	Ajuba	1	0	0	1	1.46	0.05	0.00027
NM_026967	Rheb11	Ras homolog enriched in brain like 1	1	0	0	1	1.44	0.03	0.00009
NM_019441	Ppt2	Palmitoyl-protein thioesterase 2	0	1	0	1	1.42	0.06	0.00036
NM_152800	Tor2a	Torsin family 2, member A	1	0	0	1	1.42	0.03	0.00002
NM_011944	MKK7	Mitogen activated protein kinase kinase 7 (Map2k7)	0	1	0	1	1.40	0.04	0.00013
		Total	11	8	4	23			

Triplicate cultures of undifferentiated P19 cells were transfected with chemically synthesized miR-125b (5'-UCCCUGAGACCCUAACUUGUGA-3' base paired with 5'-ACAAGUUAGGGUCUCAGGGAUU-3'; Dharmacon). After 24 h, total cytoplasmic RNA was extracted from these cells and from triplicate cultures of mock-transfected cells, and the relative concentrations of mouse mRNAs were examined by probing Mouse Genome 430A 2.0 arrays (Affymetrix). The mRNAs

listed are those whose concentration could be said with a high degree of certainty to have decreased significantly in the presence of miR-125b (by at least a factor of 1.40, with $\geq 95\%$ confidence that the change was by at least a factor of 1.30) and whose 3' UTR contained at least one likely miR-125b-responsive element [defined as an element complementary to nucleotides 1-8, nucleotides 2-8, or nucleotides 1 and 3-9 of miR-125b (1, 2)].

1. Lewis, B. P., Shih, I. H., Jones-Rhoades, M. W., Bartel, D. P. & Burge, C. B. (2003) *Cell* **115**, 787–798.
2. Wu, L. & Belasco, J. G. (2005) *Mol. Cell. Biol.* **25**, 9198–9208.