



Supplemental Material to:

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**Epigenetically regulated MIR941 and MIR1247 target
gastric cancer cell growth and migration**

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Supplementary Table S1. Predicted signaling pathway of miRNAs target genes by KEGG databases

Representative miRNA	Target gene	Accession No.	KEGG pathway classification
MIR941	<i>PRDM16</i>	NM_022114, NM_199454	--
	<i>KMT2D</i>	NM_003482	Lysine degradation
	<i>TAOK1</i>	NM_020791, NM_025142	M Phase, Resolution of Sister Chromatid Cohesion, MAPK signaling pathway, Cell Cycle, p38 MAPK signaling pathway
	<i>IER5L</i>	NM_203434	--
	<i>GRIN2D</i>	NM_000836	CREB phosphorylation through the activation of CaMKII, Post NMDA receptor activation events, Transmission across Chemical Synapses, Neurophysiological process Glutamate regulation of Dopamine D1A receptor signaling, Signal transduction Erk Interactions: Inhibition of Erk
	<i>KDM6B</i>	NM_001080424	Chromatin Regulation / Acetylation
	<i>NFIX</i>	NM_002501	Oxidative Stress
	<i>RASL10B</i>	NM_033315	--
	<i>NTN1</i>	NM_004822	Activation of cAMP-Dependent PKA, Role of second messengers in netrin-1 signaling, Axon guidance, Netrin-1 signaling, Netrin mediated repulsion signals
	<i>TNRC6B</i>	NM_001024843, NM_001162501, NM_015088	Signaling by FGFR, PIP3 activates AKT signaling, Immune System, p53 positively regulates transcription of MIR34 microRNAs, Signaling by the B Cell Receptor (BCR)
MIR1247	<i>MYCBP2</i>	NM_015057	Integrated Breast Cancer Pathway
	<i>RCC2</i>	NM_001136204	M Phase, Resolution of Sister Chromatid Cohesion, Cell Cycle, Cytoskeletal Signaling, Cell Cycle / Checkpoint Control
	<i>STX1B</i>	NM_052874	Botulinum neurotoxicity, Nicotine Pathway (Dopaminergic Neuron), Pharmacodynamics, Synaptic Vesicle Pathway, Disease, Transmission across Chemical Synapses
	<i>PHF21A</i>	NM_001101802	Factors involved in megakaryocyte development and platelet production, Platelet activation, signaling and aggregation
	<i>BRSK1</i>	NM_032430	Neuroscience, Cell Cycle / Checkpoint Control, LKB1 signaling events, Glucose / Energy Metabolism
	<i>RARA</i>	NM_000964	Transcription_Sin3 and NuRD in transcription regulation, Nuclear Receptor transcription pathway, Generic Transcription Pathway, Integrated Pancreatic Cancer Pathway, Development_Ligand-dependent activation of the ESR1/AP-1 pathway
	<i>ZBTB46</i>	NM_025224	--
	<i>RBM19</i>	NM_001146699	--
	<i>MOCS1</i>	NM_001075098	Metabolism, Molybdenum cofactor biosynthesis, Vitamin B5 (pantothenate) metabolism, Folate biosynthesis
	<i>BLCAP</i>	NM_001167820	--
	<i>IGSF9B</i>	NM_014987	--
	<i>CPEB4</i>	NM_030627	--
<i>CREBZF</i>	NM_001039618	--	