Table 2. Reported function of aberrantly expressed miRNAs in endometriosis

miRNA	Expression	Target gene expression	Function	References
miR-20a	Upregulated in ESCs	Downregulation of DUSP2	Augmentation of PGE2-induced FGF-9	Lin et al., 2012
			expression, induction of prolonged ERK	
			phosphorylation, and induction of EGR-1,	
			CYR61, and osteopontin	
miR-23a/b	Downregulated in	Downregulation of steroidogenic	Inhibition of estrogen biosynthesis	Shen et al., 2013
	endometriotic tissues and	factor-1		
	eutopic endometrium of			
	endometriosis patients			
miR-145	Downregulated in	Downregulation of fascin-1, SOX2,	Inhibition of proliferation	Adammek et al., 2013
	endometriotic tissues	MSI2, OCT4, KLF4, podocalyxin,	Induction of invasiveness	
		JAM-A, and PAI-1	Reduction of side population and	
		Upregulation of ACTG2 and transgelin	aldehyde dehydrogenase-1 activity	
miR-183	Downregulated in	N.D.	Induction of apoptosis, Inhibition of	Shi et al., 2014
	endometriotic tissues		invasiveness	
miR-196b	Downregulated in ESCs	Suppression of c-myc and bcl-2	Inhibition of proliferation	Abe et al., 2013
			Induction of apoptosis	
miR-199a-5p	Downregulated in serum	VEGFA	Inhibition of proliferation, motility, and	Hsu et al., 2014
	of endometriotic patients		angiogenesis	
miR-302a	Upregulated in ESCs	Suppression of COUP-TFII	Induction of COX-2	Lin <i>et al.</i> , 2014

ACTG2, smooth-muscle actin isoform γ2; COUP-TFII, Chicken ovalbumin upstream promoter-transcription factor II; COX-2, cyclooxygenase-2; CYR61, cysteine-rich angiogenic inducer 61; DUSP2, dual-specificity phosphatase-2; EGR-1, early growth response protein-1; ESCs, endometriotic stromal cells; FGF-9, fibroblast growth factor-9; JAM-A, junctional adhesion molecule A; KLF4, Kruppel-like-factor 4; MSI2, Musashi-2; N.D., not described; OCT4, octamer 4; PAI-1, plasminogen activator inhibitor 1; PGE2, prostaglandin E2; SOX2, SRY-box 2; VEGFA, vascular endothelial growth factor-A.