

Supplementary Data for

Proteome modulation in H9c2 cardiac cells by miR-378 and miR-378*

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Running Title

Proteomics identification of miR-378 and miR-378* targets

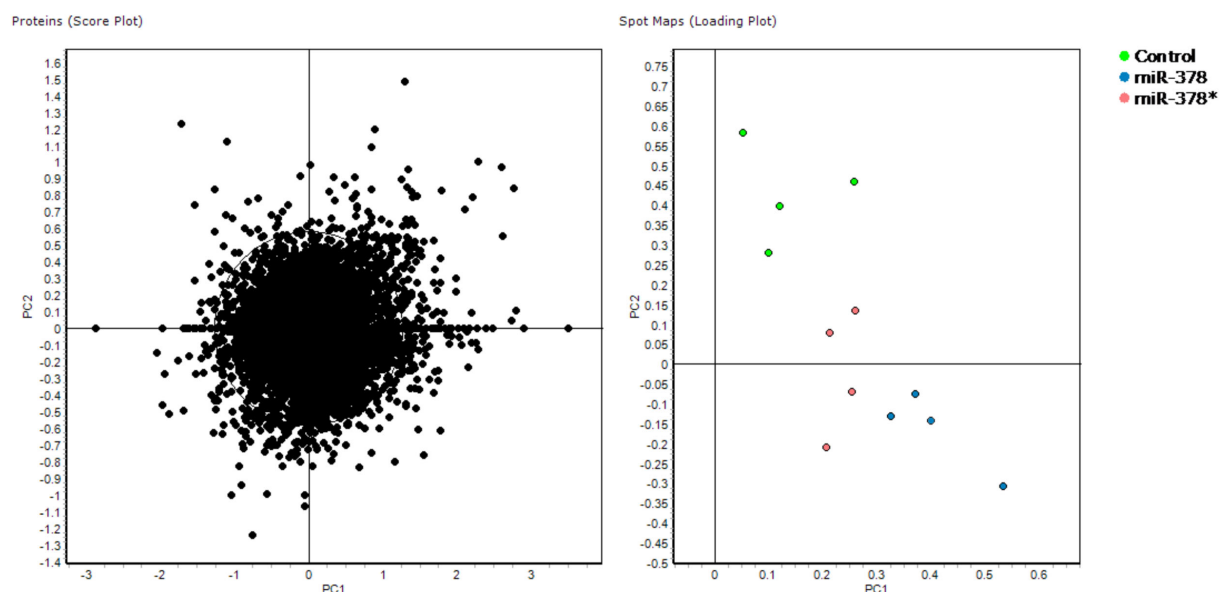


Figure S1: Principal component analysis (PCA) of spot maps versus all proteins.

Left panel: spot loading plot. Right panel: Without spot preselection and with a global analysis, spot maps are separated following experimental groups (control, miR-378 transfection, miR-378* transfection).

Proteomics identification of miR-378 and miR-378* targets – Supplementary Data

rno-miR-378	3' ggaagacugaggu	UCAGGUca	5'
mRNA		5' AGUCCAG	3'
rno-miR-378*	3' uguguccuggaccu	CAGUCCUc	5'
mRNA		3' GUCAGGA	5'
Ldha			
Positions 9802-9807	uccuagcacuucacu	GUCCAG	gucgagcag
Position 9367-9371	uccuagcacuucacu	GUCCAG	gucgagcag
Position 13246-13250	cacugaaacaugccu	AGUCCA	acauuuuuucc
			Rat
			Mouse
			Human
Gmppa			
Position 7325-7330	ugccugaccagcucu	GUCCAG	aaaggaccug
Position 7130-7135	ugccuggcuagcucu	GUCCAG	aaaggaccug
Position 8005-8010	gcuuggccagccucu	GUCCAG	aaaggaccug
			Rat
			Mouse
			Human
Actn4			
Positions 72372-72377 and 72397-72402	agccccaugugccuu	GUCCAG	gaaccgcccuaaga
Positions 68399-68404 and 68424-68429	agccccaugugccuu	GUCCAG	gaaccgcccuaaga
Position 82209-82214	agccccaugugccuu	GUCCAG	gaaccgcccuaaga
			Rat
			Mouse
			Human
Acts			
Position 2806-2811	uacgcgucucucucc	UCAGGA	cgacaauca
Position 2762-2767	uacgcgucucucucc	UCAGGA	cgacaauca
Position 2806-2811	uacgcgucucucucc	UCAGGA	cgacaauca
			Rat
			Mouse
			Human
Vim			
Position 8268-8273	gccuuuacugcaguuu	UCAGGA	gcgcaagaau
Position 8303-8308	ccuuuacugcaguuu	UCAGGA	gcgcaagaau
Position 9112-9117	gccuuuacugcaguuu	UCAGGA	gcgcaagaau
			Rat
			Mouse
			Human
Calu			
Positions 25760-25765	gaucaauaagaauugu	UCAGGA	agagaauaagc
Position 26809-26814	gaucaauaagaauugu	UCAGGA	agagaauaagc
Position 30295-30300	gaucaauaagaauugu	UCAGGA	agagaauaagc
			Rat
			Mouse
			Human
Grp78			
Positions 3880-3885 and 4390-4396	auuguuaauacuggac	UCAGGA	acuuucguug...uuucacagugccca
Positions 4067-4072 and 4577-4583	auuguuaauacuggac	UCAGGA	acuuucguug...uuucacagugccca
Positions 4837-4842 and 5349-5355	auuguuaauacuggac	UCAGGA	acuuucguug...uuucacagugccca
			Rat
			Mouse
			Human
Ppia			
Positions 3735-3740 and 3842-3847	cauggagcguuuugg	GUCCAG	gaauuggcaag...ccauuccuucugugc
Positions 3684-3689 and 3792-3797	cauggagcguuuugg	GUCCAG	gaauuggcaag...ccauuccuucugugc
Positions 4721-4726 and 4829-4834	cauggagcguuuugg	GUCCAG	gaauuggcaag...ccauuccuucugugc
			Rat
			Mouse
			Human

Figure S2: 3'UTR sequence conservation between rat, mouse and human. Seed match 7mer ± m8 binding sites are shown in red for miR-378 and in blue for miR-378*. Positions are based on numbering from the GenBank gene database.