

Supplementary Table 1 Oligonucleotides used to make luciferase constructs

construct	Name	Oligo sets for reporter constructs	Length
pMIR-ST14-wt	wt-F	5'- <u>AGCTT</u> CTGCACCAGCGCCCCAGAACATAC <u>ACTGTGAA</u> CTCAATCTCCAGGGCTA-3'	55 bp
	wt-R	5'- <u>CTAGT</u> AGCCCTGGAGATTGAGTTCACAGTGTATGTTCTGGGGCGCTGGTGCAGA-3'	55 bp
pMIR-ST14-mut	mut-F	5'- <u>AGCTT</u> CTGCACCAGCGCCCCAGAACATAC <u>GGAGCTGT</u> CTCAATCTCCAGGGCTA-3'	55bp
	mut-R	5'- <u>CTAGT</u> AGCCCTGGAGATTGAGACAGCTCCGTATGTTCTGGGGCGCTGGTGCAGA-3'	55bp

Oligonucleotides that were used to construct the miR-27b luciferase reporter construct. Flanked restriction enzyme sites HindIII/SpeI were underlined and in bold, the putative binding site of ST14 and miR-27b in wild and mutant types were double underlined. F: forward; R: reverse

Supplementary Table 2 Expression level of microRNAs in MDA-MB-231 (sub line 4175) and MCF10A cells

		MDA-MB-231#4175			
		High intensity	Medium intensity	Low intensity	Total
		(>5,000)	(1,000-5,000)	(1-1000)	
	High intensity (>5,000)	37	1	2	40
MCF10A	Medium intensity (1,000-5,000)	8	12	8	28
	Low intensity (1-1,000)	1	10	392	403
	Total	46	23	402	471

Supplementary Table 3 Twenty two differentially expressed miRNAs between MDA-MB-231 sub line 4175 cell lines and MCF10A cell lines

Group	miRNA	Mean intensities (4175)	Mean intensities (10A)	Ratio	P value	Expressed In 4175
1 ^a	hsa-miR-200c	42	28,290	-671.6	0.0032	down
	hsa-miR-205	21	66,950	-3169	0.0412	down
	hsa-miR-342	390	2,771	-7.1	0.0438	down
2 ^b	hsa-miR-146a	2,143	1	2142.96	0.0088	up
	hsa-miR-99a	12,474	807	15.46	0.0429	up
3 ^c	hsa-miR-15a	6,339	1,371	4.62	0.0193	up
	hsa-miR-27b	26,101	7,837	3.33	0.0324	up
	hsa-miR-181d	4,416	1,717	2.57	0.0444	up
	hsa-miR-30c	10,948	2,679	4.09	0.0478	up
	hsa-miR-30b	9,298	3,844	2.42	0.0486	up
4 ^d	hsa-miR-20a	10,127	32,712	-3.23	0.0276	down
	hsa-miR-21	31,817	87,841	-2.76	0.0380	down
	hsa-miR-106a	7,345	23,015	-3.13	0.0401	down
	hsa-miR-17-5p	8702	29,248	-3.36	0.0347	down
5 ^e	hsa-miR-551b	44	1	44.28	0.0052	up
	hsa-miR-486	176	1	176	0.0089	up
	hsa-miR-503	530	60	8.86	0.0225	up
	hsa-miR-138	161	1	161.16	0.0290	up
	hsa-miR-152	484	39	12.26	0.0404	up
	hsa-miR-491	36	1	35.96	0.0455	up
	hsa-miR-141	1	188	-188	0.0166	down
	hsa-miR-582	1	31	-31	0.0233	down