

Supplementary Table 1 The clinical-pathological data of the melanoma and pigmented nevi patients

Clinical groups		No. of cases	
		Melanoma	Pigmented nevi
Sex	Male	20	16
	Female	16	20
Age	≥60	19	16
	<60	17	20
Subtype	Acral	9	--
	Mucosal	8	--
	CSD	15	--
	NCSD	4	--
Lymph node metastasis	Yes	16	--
	No	20	--
Distant metastasis	Yes	5	--
	No	31	--
Ulcer	Yes	9	--
	No	27	--

Supplementary Table 2 Primer sequences used for q-PCR

Name	Primer sequences
miR-497-5p (stem-loop RT primer)	5'-GTCGTATCCAGTGCAGGGTCCGAGGT ATTCGCACTGGATACGACACCAAACA-3'
miR-195-5p (stem-loop RT primer)	5'-GTCGTATCCAGTGCAGGGTCCGAGGT ATTCGCACTGGATACGACTATAACCG-3'
miR-455-3p (stem-loop RT primer)	5'-GTCGTATCCAGTGCAGGGTCCGAGGT ATTCGCACTGGATACGACTCTAACAC-3'
miR-497-5p (Forward)	5'-TGCGCCAGCAGCACACTGTGG-3'
miR-195-5p (Forward)	5'-TGCGCTAGCAGCACAGAAATA-3'
miR-455-3p (Forward)	5'-TGCGCCAAACCACACTGTGGTG-3'
Universal reverse primer	5'-CCAGTGCAGGGTCCGAGGTATT-3'
hTERT (Forward)	5'-TACTGCGTGCGTCGGTATG-3'
hTERT (Reverse)	5'-ATGTACGGCTGGAGGTCTGTC-3'
U6 (Forward)	5'-CGCTTCGGCAGCACATATAC-3'
U6 (Reverse)	5'-AAATATGGAACGCTTCACGA-3'
GAPDH (Forward)	5'-TCAAGAAGGTGGTGAAGCAGG-3'
GAPDH (Reverse)	5'-TCAAAGGTGGAGGAGTGGGT-3'

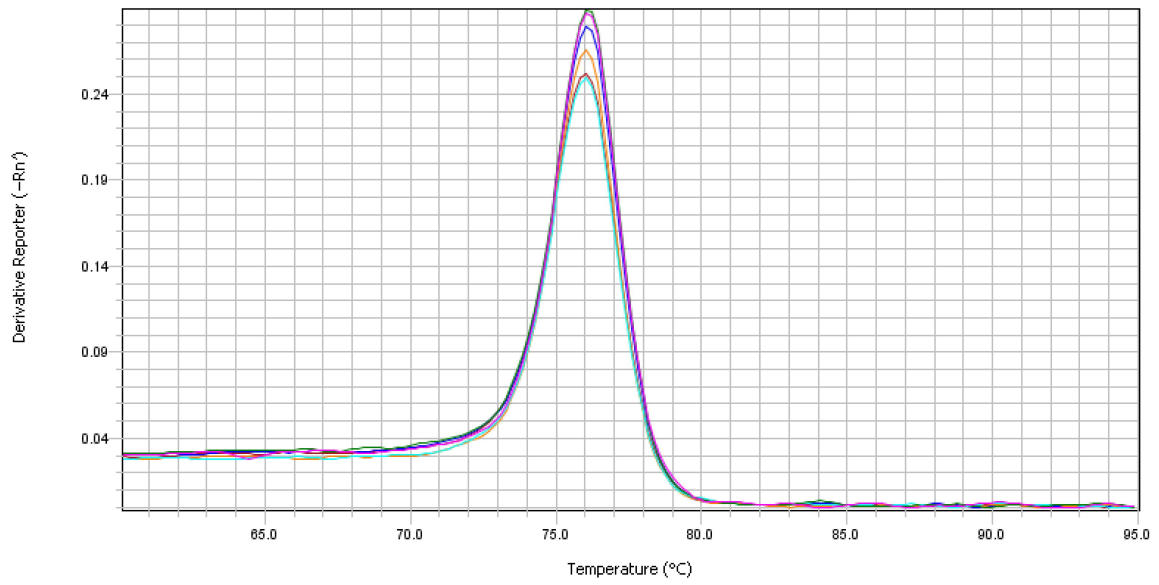
Supplementary Table 3 The sequences of miRNAs mimics/inhibitor/negative controls

Name	Sequences
miR-497-5p mimics	5'-CAGCAGCACACUGUGGUUUGUAAACCAC AGUGUGCUGCUGUU-3'
miR-497-5p inhibitor	5'-ACAAACCACAGUGUGCUGCUG-3'
miR-195-5p mimics	5'-UAGCAGCACAGAAUAUUGGCCAAUAUU UCUGUGCUGCUAUU-3'
miR-195-5p inhibitor	5'-GCCAAUAUUUCUGUGCUGCUA-3'
miR-455-3p mimics	5'-GCAGUCCAUGGGCAUAUACACGUUAUAUG CCCAUGGACUGCUU-3'
miR-455-3p inhibitor	5'-GUGUAUAUGCCCAUGGACUGC-3'
mimics negative control	5'-UUCUCCGAACGUGUCACGUTT-3'
inhibitor negative control	5'-CAGUACUUUUGUGUAGUACAA-3'

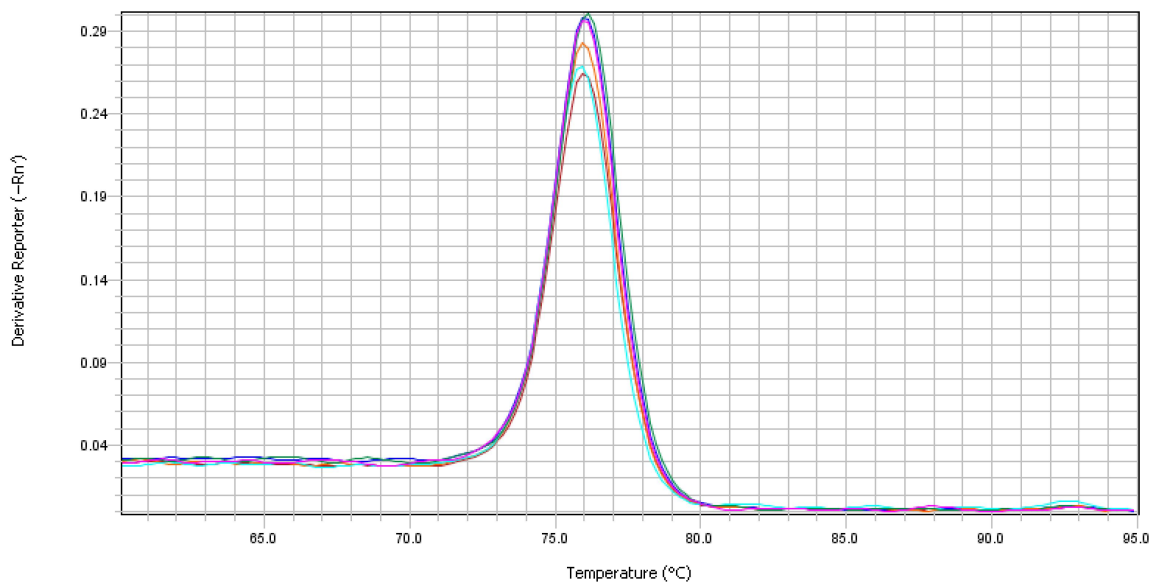
Supplementary Table 4 The expression levels of 14 candidate miRNAs in melanoma and pigmented nevi tissues using Custom miRNA PCR Array

No.	miRNAs	2 ^{-ΔΔCt} value compare (Mean ± SD)		<i>p</i> value
		Melanoma group	Pigmented nevi group	
1	hsa-miR-424-5p	3.580 ± 2.759	1.123 ± 0.529	<0.0001*
2	hsa-miR-497-5p	0.492 ± 0.371	1.082 ± 0.441	<0.0001*
3	hsa-miR-195-5p	0.629 ± 0.317	1.047 ± 0.336	<0.0001*
4	hsa-miR-16-5p	0.936 ± 0.520	1.064 ± 0.385	0.240
5	hsa-miR-15a-5p	0.966 ± 0.568	1.139 ± 0.681	0.247
6	hsa-miR-15b-5p	0.930 ± 0.514	1.092 ± 0.447	0.156
7	hsa-miR-338-3p	1.409 ± 0.962	1.089 ± 0.474	0.078
8	hsa-miR-107	1.019 ± 0.818	1.051 ± 0.308	0.828
9	hsa-miR-103a-3p	0.963 ± 0.483	1.053 ± 0.333	0.356
10	hsa-miR-143-3p	1.120 ± 0.898	1.140 ± 0.578	0.911
11	hsa-miR-212-5p	2.112 ± 1.295	1.217 ± 0.792	0.001*
12	hsa-miR-1306-5p	1.022 ± 0.602	1.095 ± 0.564	0.597
13	hsa-miR-665	1.138 ± 0.825	1.071 ± 0.473	0.671
14	hsa-miR-455-3p	0.271 ± 0.266	1.136 ± 0.528	<0.0001*

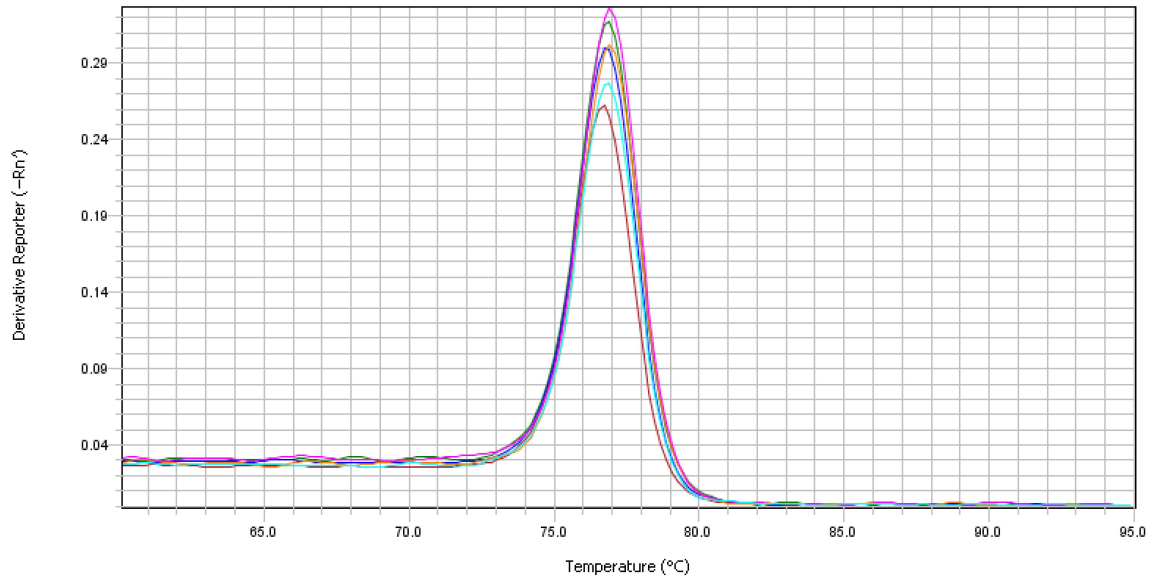
*Statistically significant.



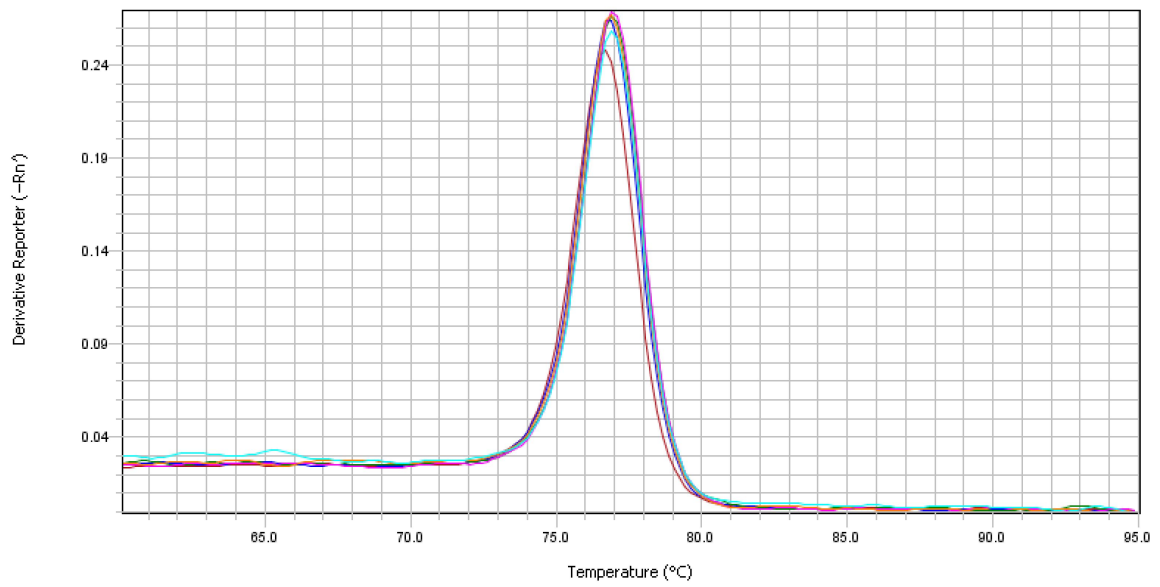
miR-15a-5p



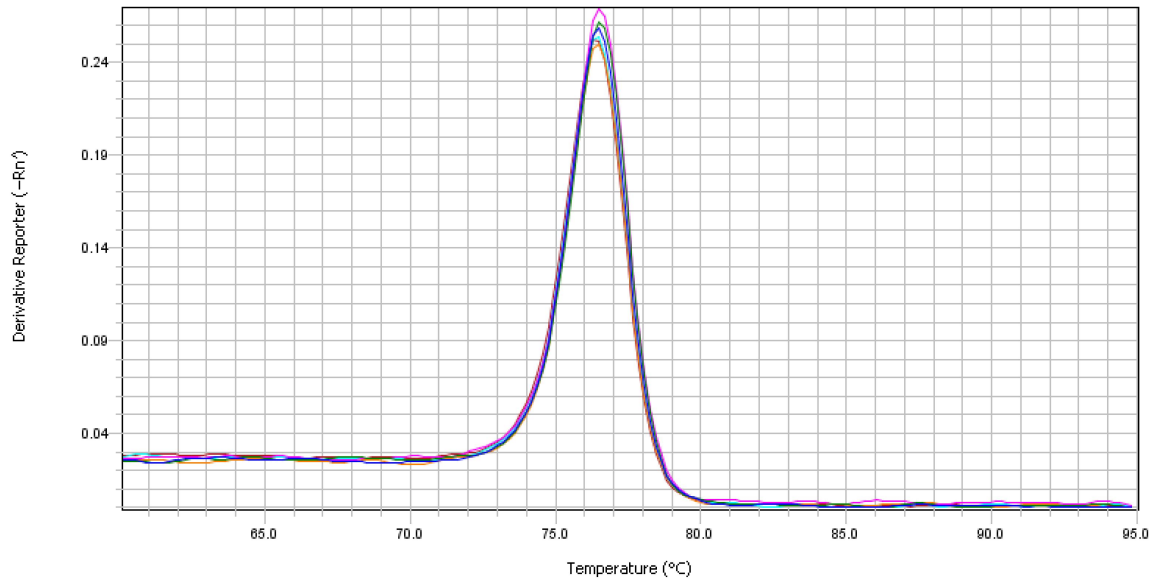
miR-15b-5p



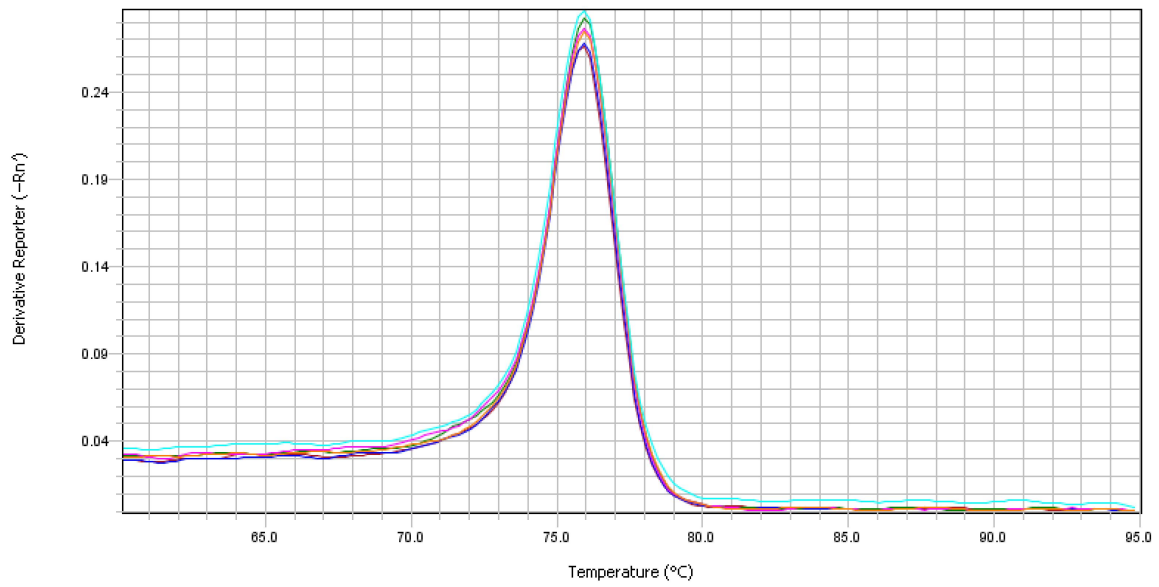
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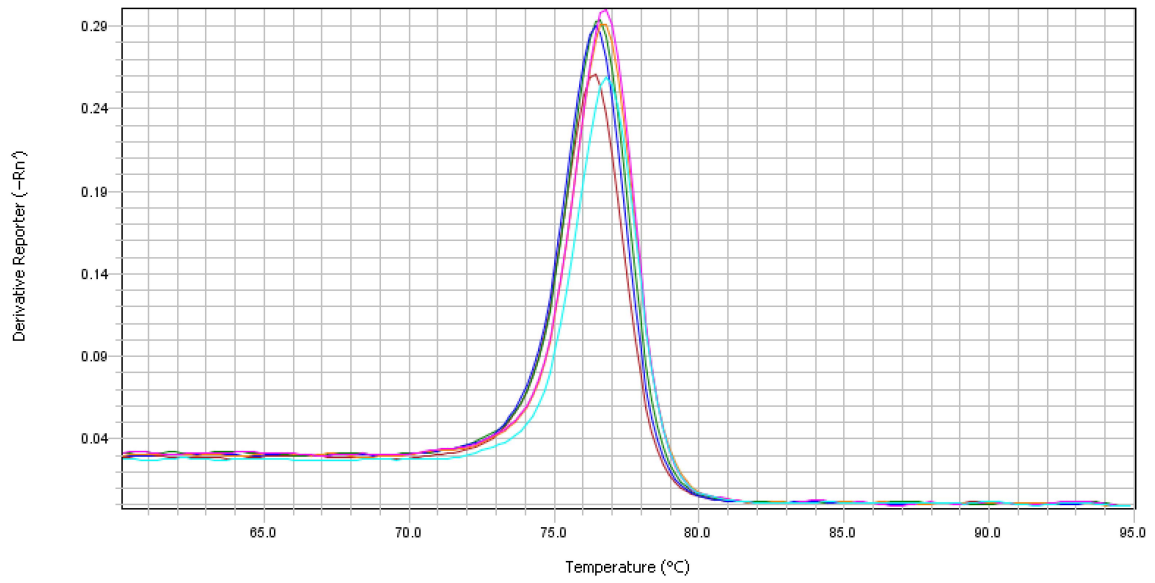
miR-103a-3p



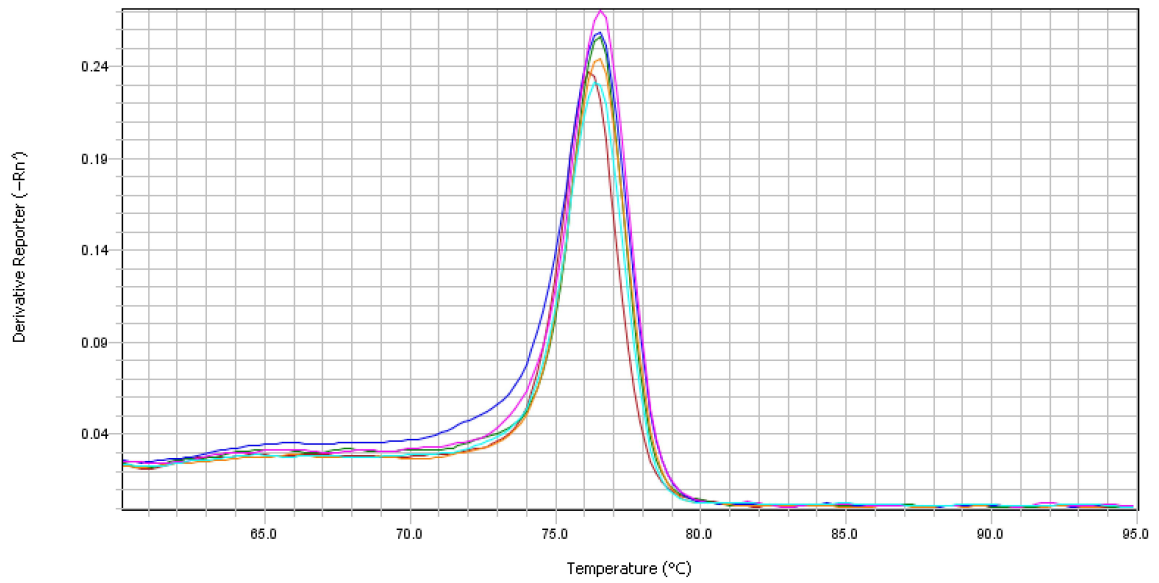
miR-107



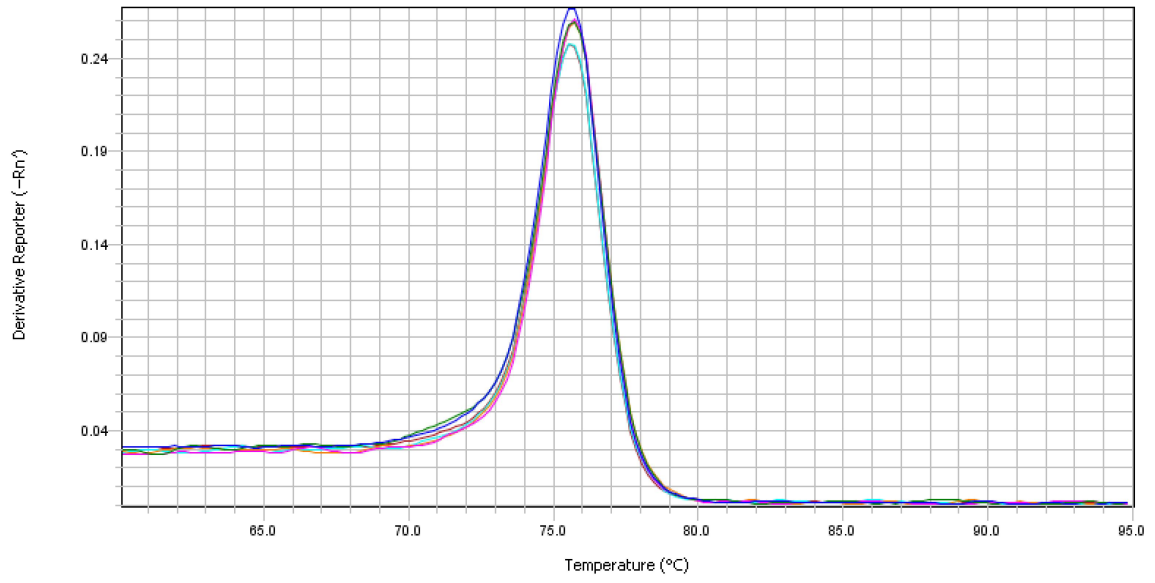
miR-143-3p



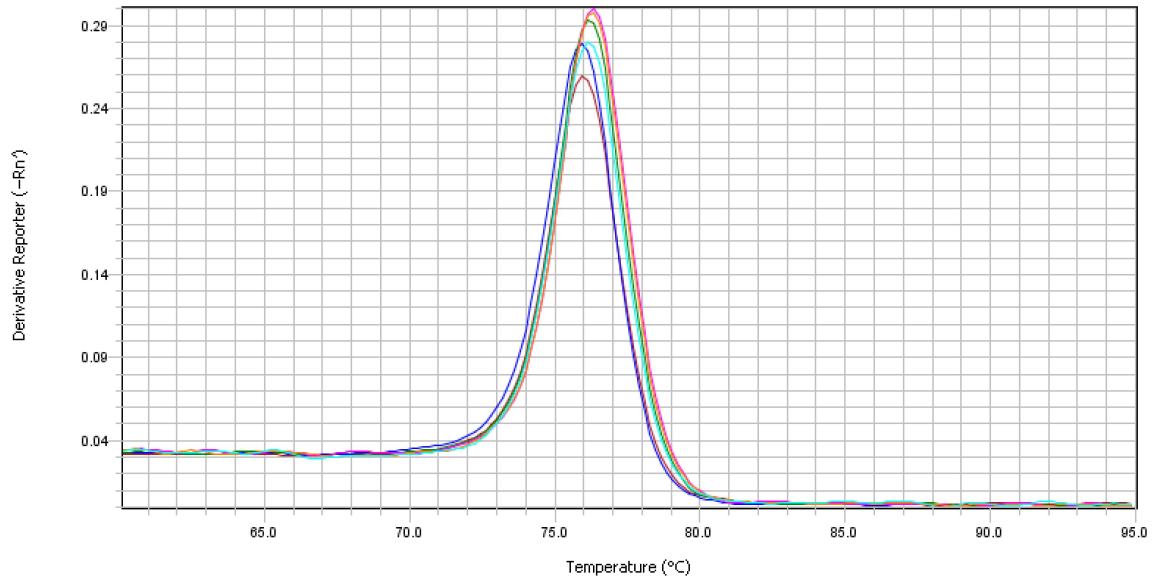
miR-195-5p



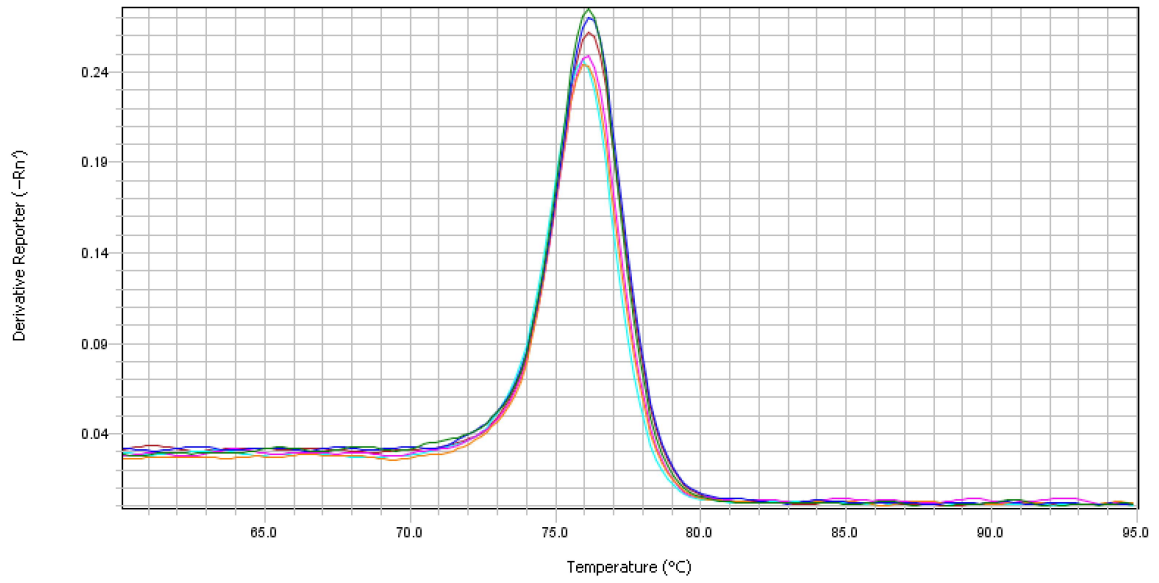
miR-212-5p



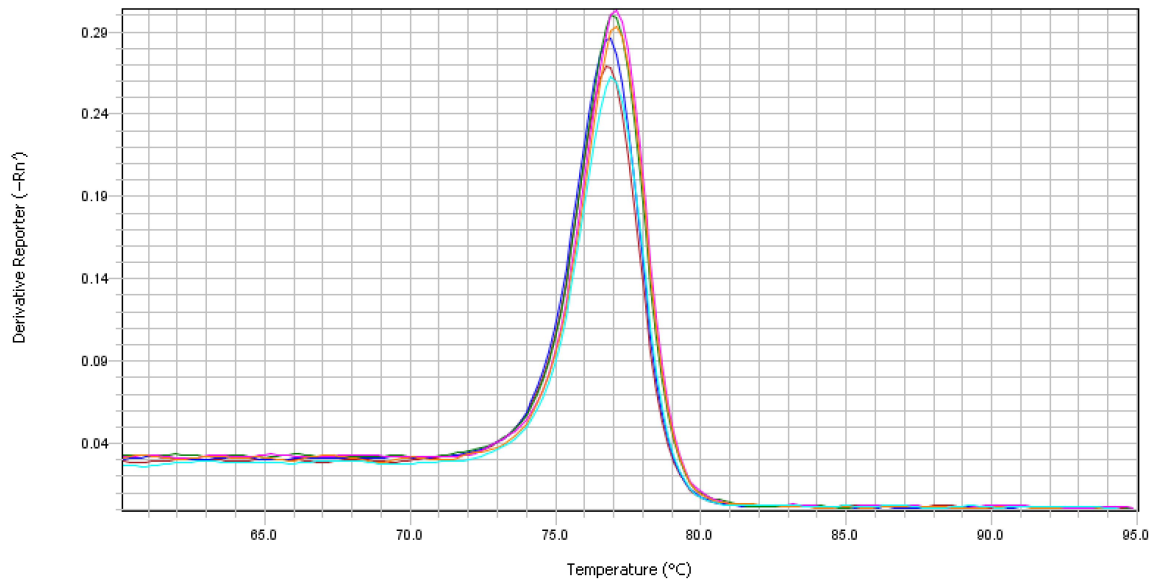
miR-338-3p



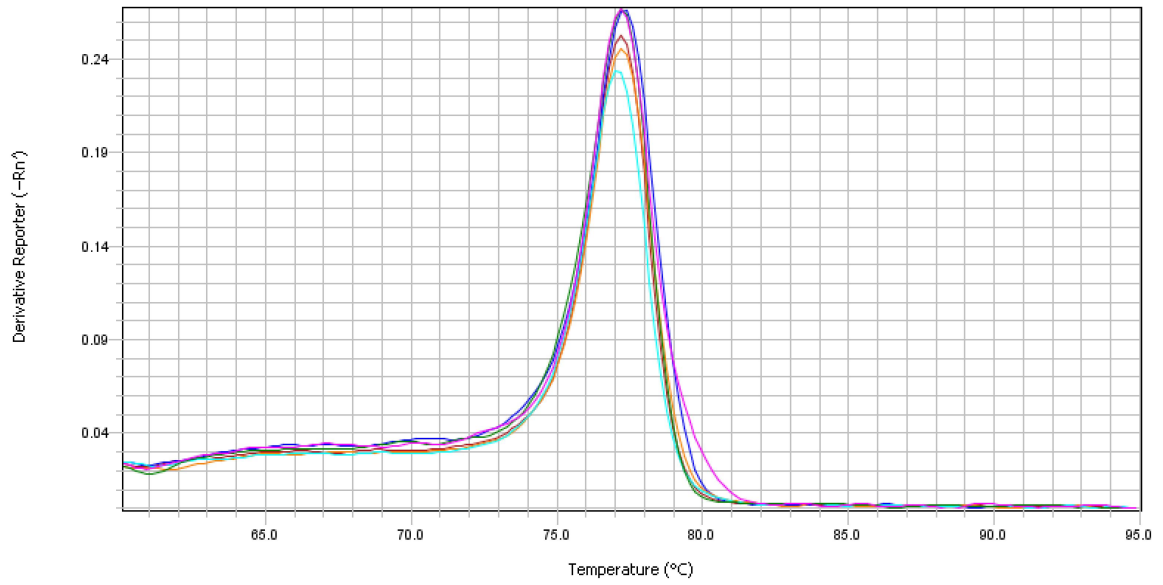
miR-424-5p



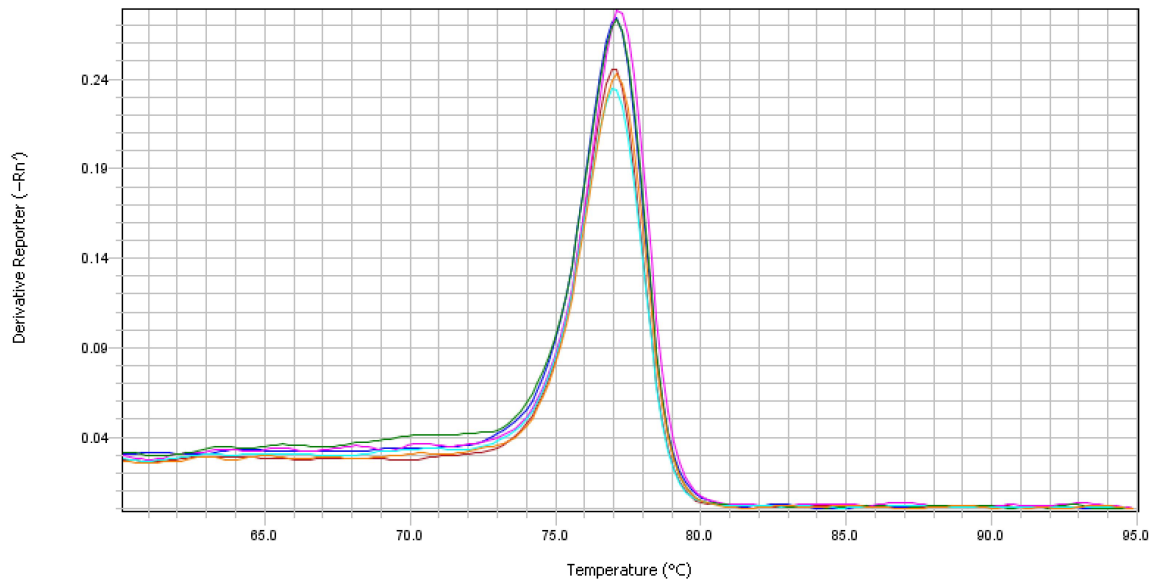
miR-455-3p



miR-497-5p



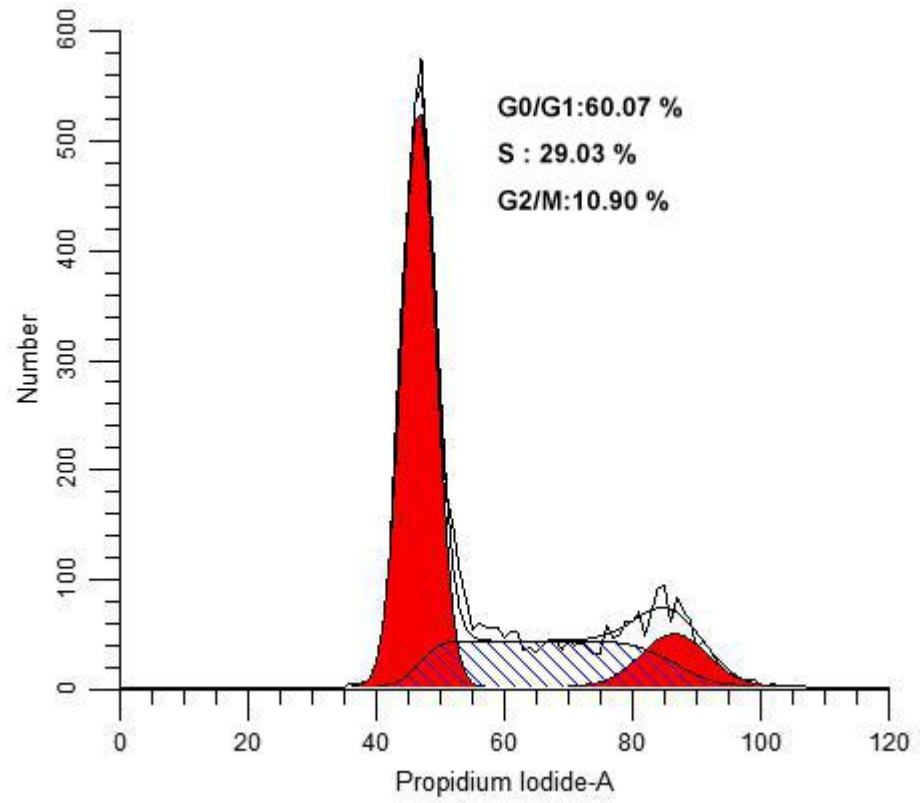
miR-665



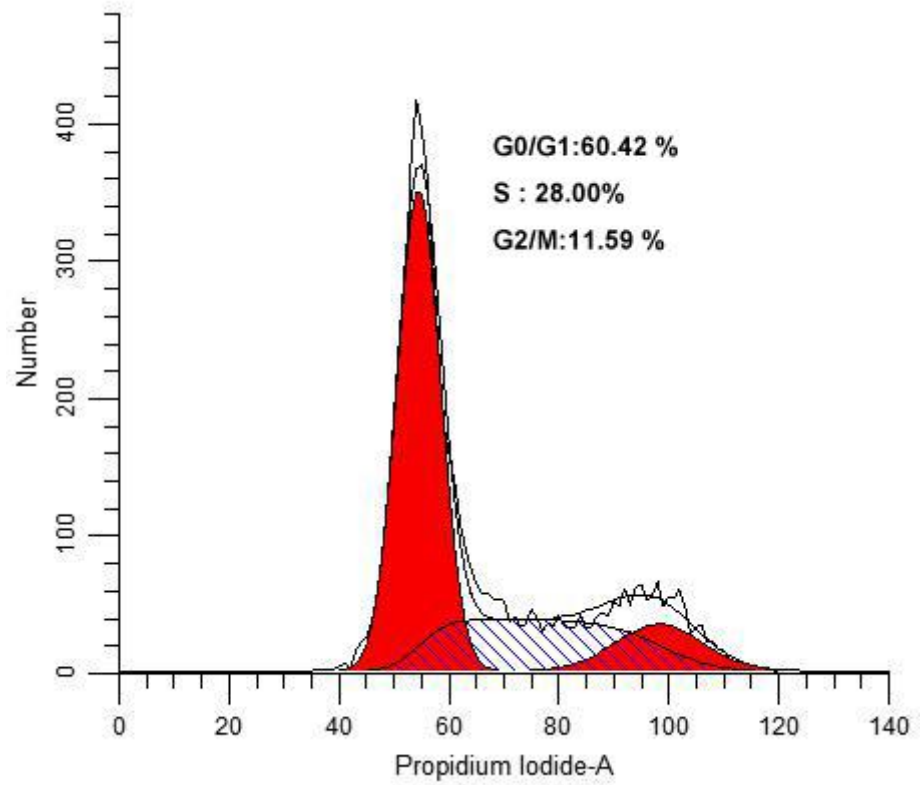
miR-1306-5p

Supplementary Figure 1 The melt curves of 14 candidate miRNAs.

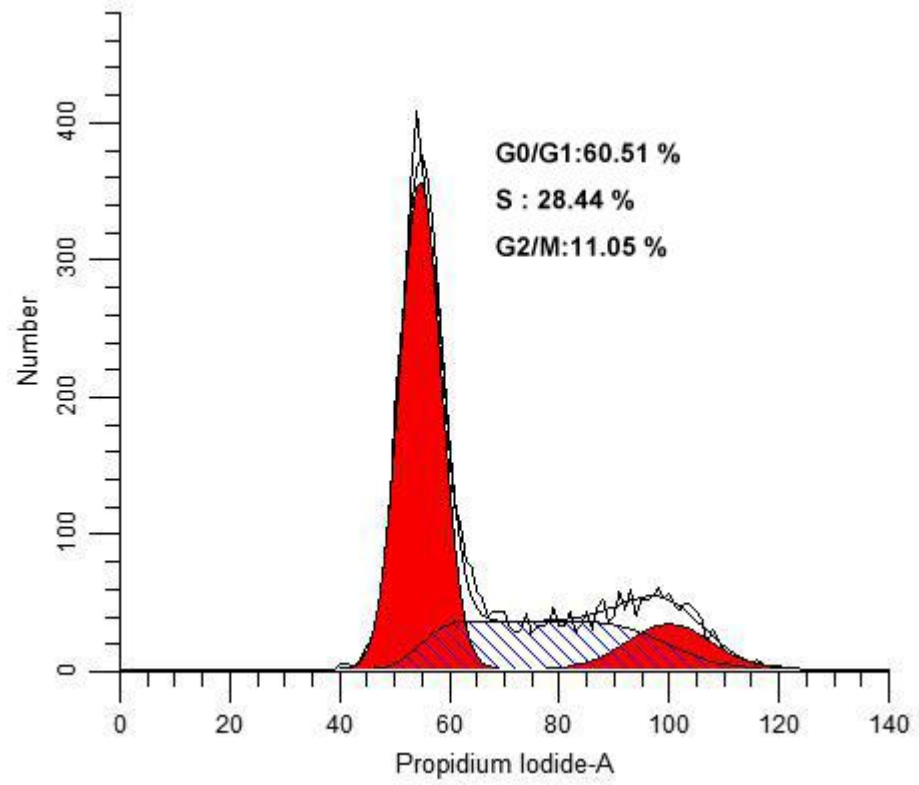
Normal cell group



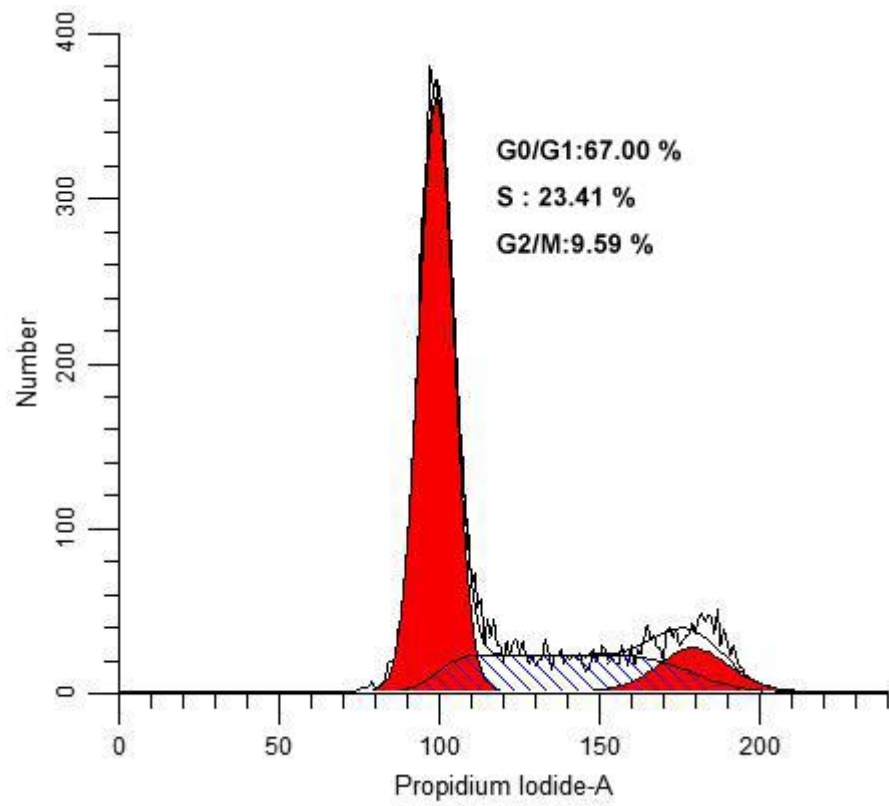
Mimics NC



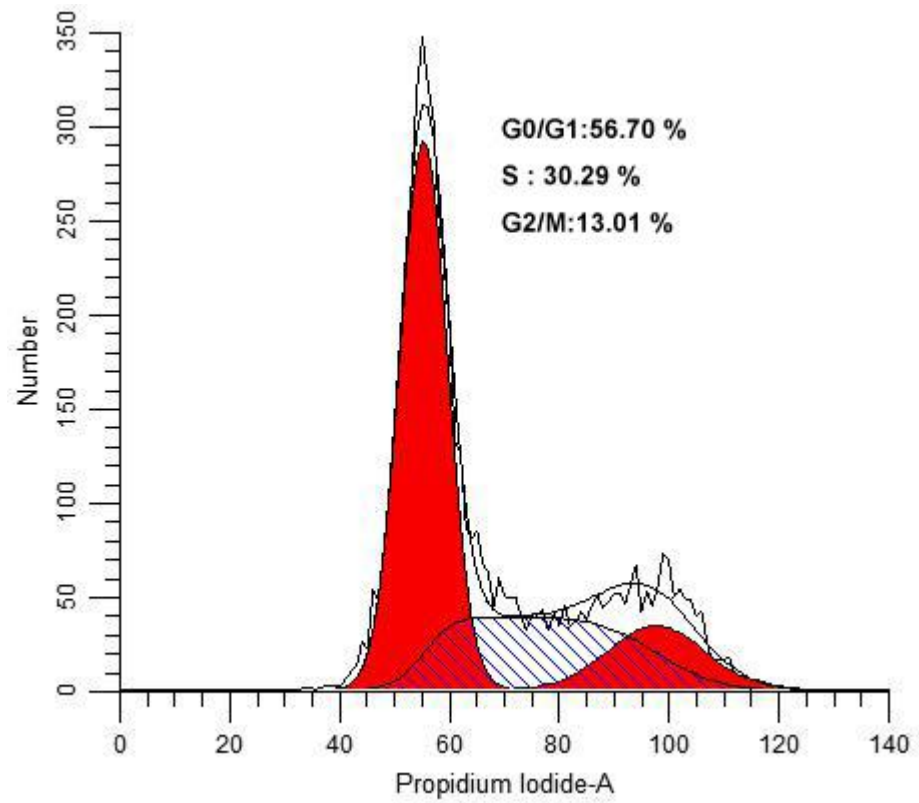
Inhibitor NC



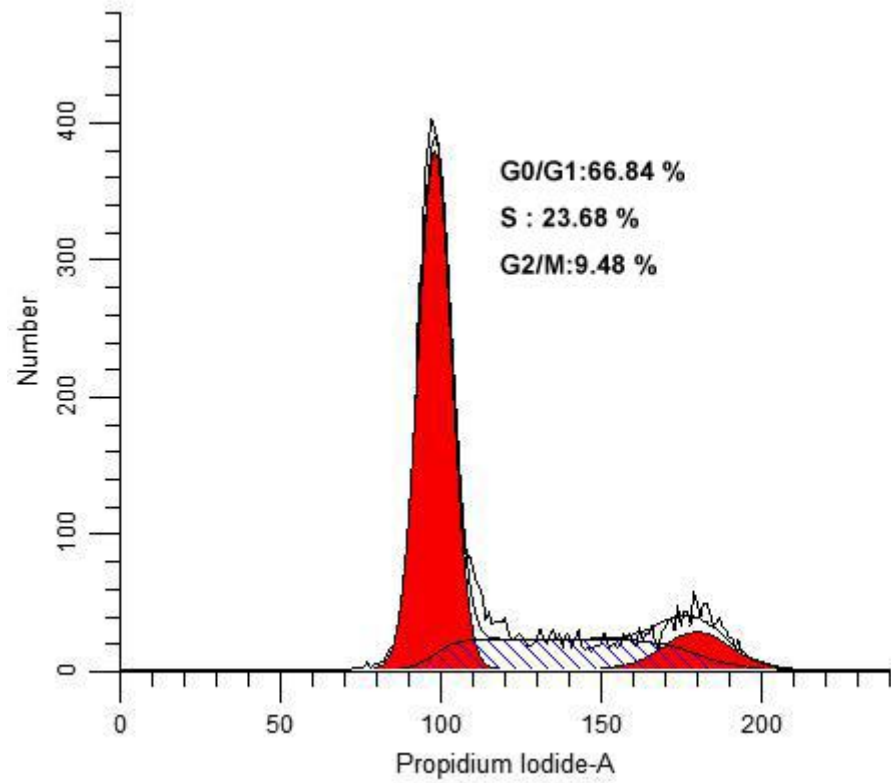
MiR-497-5p
mimics



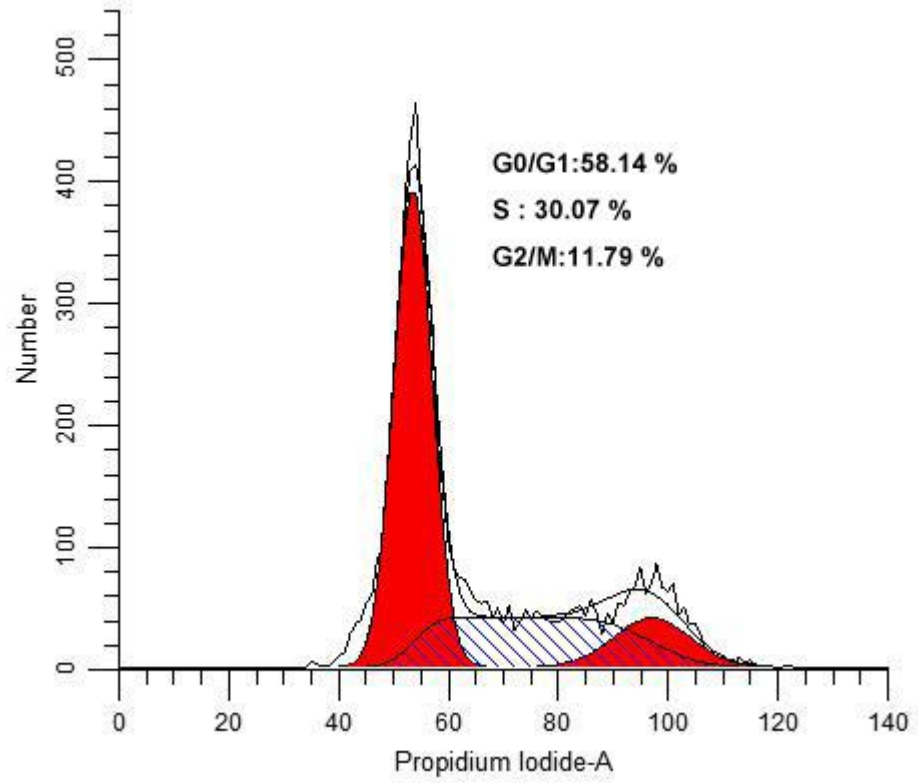
MiR-497-5p
inhibitor



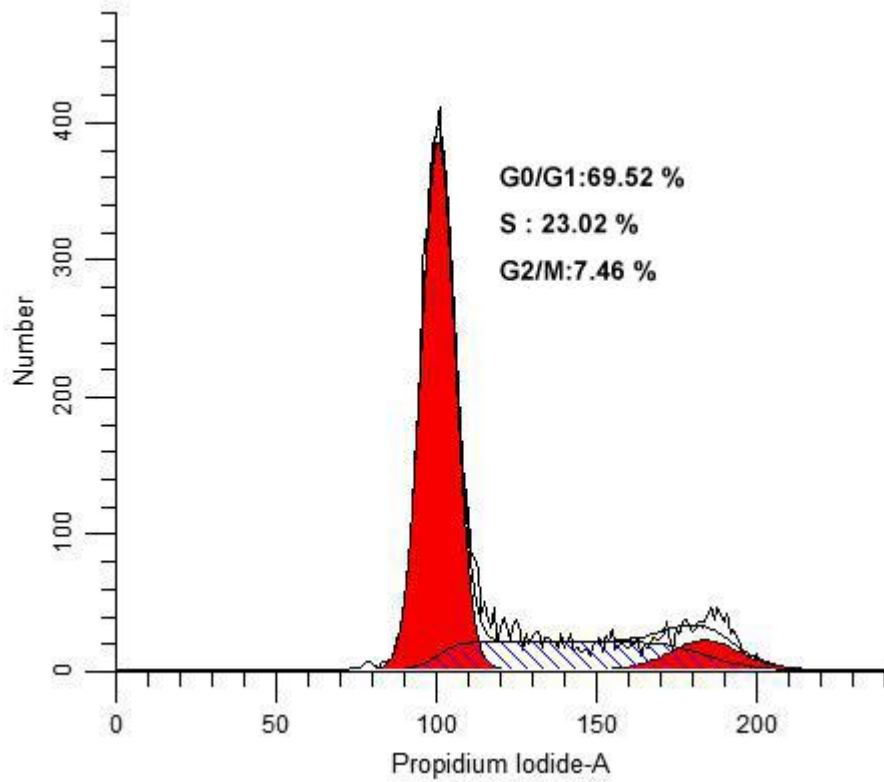
MiR-195-5p
mimics



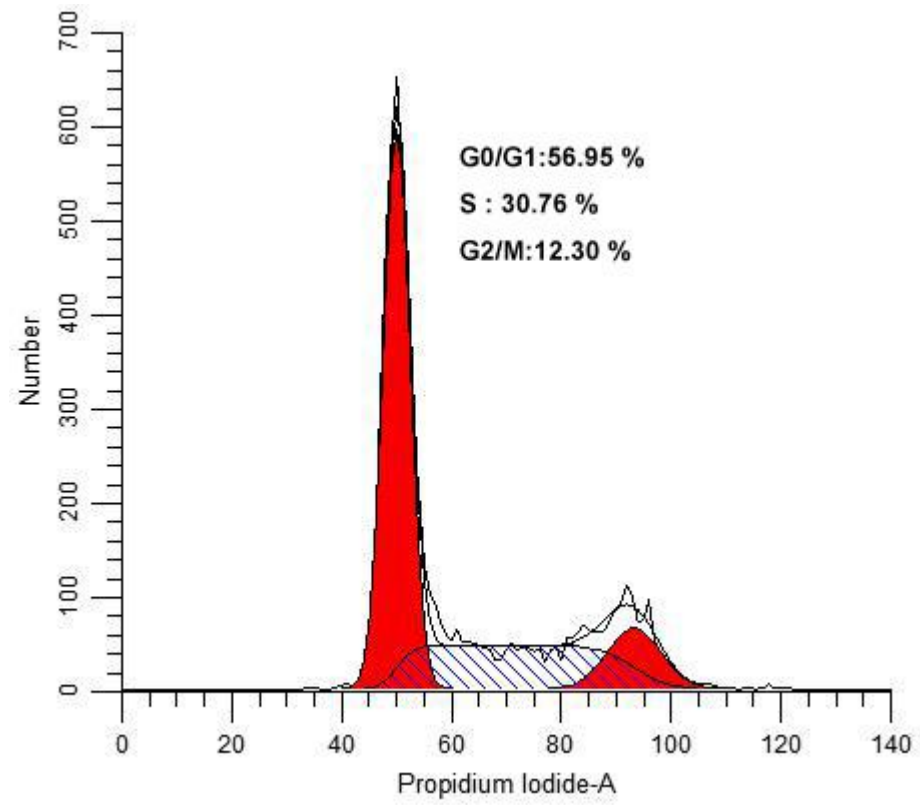
MiR-195-5p
inhibitor



MiR-455-3p
mimics



MiR-455-3p
inhibitor



Supplementary Figure 2 The cell cycle histograms of each group.