

Table S1. Design of miRNA-30 primers

Sequence – FORWARD QPCR PRIMER		25nmole DNA Oligo, 21 bases	
5'- CAC GCA TGT AAA CAT CCC CGA – 3'			
Properties		Amount of Oligo	
<i>T_m</i> (50mM NaCl): 57.7 °C		4.7=	23.1 =0.15
GC Content: 52.4%		OD ₂₆₀	nmoles mg
<i>Molecular weight</i> : 6344.2		For 100 µM: add 231µL	
nmoles/OD260: 4.9			
ug/OD260: 31.1			
Ext. Coefficient: 202,800 L/(mole-cm)			
Secondary structure calculations			
Lowest folding free energy (kcal/mole): -0.22 at 25°C			
Strongest folding <i>T_m</i> : 28.1 °C			
Sequence – REVERSE QPCR PRIMER		25nmole DNA Oligo, 20 bases	
5'-CCA GTG CAG GGT CCG AGG TA– 3'			
Properties		Amount of Oligo	
<i>T_m</i> (50mM NaCl): 61.3 °C		4.7=	21.4 =0.13
GC Content: 65%		OD ₂₆₀	nmoles mg
<i>Molecular weight</i> : 6,183		For 100 µM: add 214µL	
nmoles/OD260: 5.1			
ug/OD260: 31.4			
Ext. Coefficient: 196,900 L/(mole-cm)			
Secondary structure calculations			
Lowest folding free energy (kcal/mole): 0.61 at 25°C			
Strongest folding <i>T_m</i> : 13 °C			
Sequence – OLIGO DE RT		25nmole DNA Oligo, 50 bases	
Properties		Amount of Oligo	
<i>T_m</i> (50mM NaCl): 71 °C		10=	21.1 =0.32
GC Content: 56%		OD ₂₆₀	nmoles mg
<i>Molecular weight</i> : 153,378		For 100 µM: add 211µL	
nmoles/OD260: 2.1			
ug/OD260: 32.3			
Ext. Coefficient: 476,500 L/(mole-cm)			
Secondary structure calculations			
Lowest folding free energy (kcal/mole): -14.50 at 25°C			
Strongest folding <i>T_m</i> : 68.6 °C			
Sequence –SONDA MIR30D		100 nm PrimeTime MGB Probe 5'6-FAM/ 3'MGB-NFQ, 17 bases	
5'- /56-FAM/CTG GAT ACG ACC TTC CA/3MGB-NFQ/- 3'			
Properties		Amount of Oligo	
GC Content: 52.9%		100 µM in 232µL IDTE Buffer pH 8.0	
<i>Molecular weight</i> : 6,788.1			
nmoles/OD260: 4.3			
ug/OD260: 29.1			
Ext. Coefficient: 233,360 L/(mole-cm)			
Secondary structure calculations			
Lowest folding free energy (kcal/mole): -0.80 at 25°C			
Strongest folding <i>T_m</i> : 33.3 °C			
Secondary structure should not affect yield or purity for this oligo.			