

Primers for amiRNA cloning with engineered pre-miR319a as backbone

XXX: additional nucleotides to ensure efficient restriction digestion of PCR products.

N₂₁: capitalized nucleotides in Oligo III designed by WMD3 “Oligo” algorithm.

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(The restriction sites of *Eco*RI and *Xba*I are unlined, and the modified sites are in bold. The amiRNA and amiRNA* highlighted in magenta and blue, respectively)

TCGAGCAAACACACGCTCGGACGCATATTACACATGTTCATACACTTAATACTCG
CTGTTTTGAATTCATGTTTTAGGAATATATATGTAGAGGCATTTCCAACGTCCTT
TTTCACAGGTTCGTGATATGATTCAATTAGCTTCCGACTCATTTCATCCAAATACCGA
GTCGCCAAAATTCAAACCTAGACTCGTTAAATGAATGAATGATGCGGTAGACAAA
TTGGATCATTGATTCTCTTTGATAAAGGGTCGTTGGAATACCTCTCTCTTTTGTA
TTCCAATTTTCTAGATTAATCTTTCTGCACAAAACATGCTTGATCCACTAAGTG
ACATATATGCTGCCTTCGTATATATAGTTCTGGTAAAATTAACATTTTGGGTTTAT
CTTTATTTAAGGCATCGCCATGACTAGT

Supplemental Table S2

Primers for amiRNA cloning with engineered pre-miR528 as backbone

Primer name	Primer sequences (5' to 3')
F- <i>StuI</i>	XXXAGG CCT GGTTTTTTGGCTGTAGCAGCAGCAGNNNNNNNNNNNNNNNN NNNNNNNNCAGGAGATTCAGTTTGAAGCT
R- <i>EcoRI</i>	XXX GAA TTCCACAGAACAGCCTAGCAGCAGGAA NNNNNNNNAGAGAGGCAAAAGTGAAGTCC

XXX: additional nucleotides to ensure efficient restriction digestion of PCR products.

N₂₁: capitalized nucleotides in Oligo I designed by WMD3 “Oligo” algorithm.

N₂₁: capitalized nucleotides in Oligo IV designed by WMD3 “Oligo” algorithm.

> Rice pre-miR528-based pre-amiRNA sequences

(The restriction sites of *StuI* and *EcoRI* are unlined, and the modified sites are in bold.

amiRNA and amiRNA* highlighted in magenta and blue, respectively)

CAGCAGCAGCCACAGCAAAATTTGGTTTGGGATAGGTAGGTGTTATGTTAGG**CCT**
GGTTTTTTGGCTGTAGCAGCAGCAGTCCATAGGTGCCATCCGGGAGCAGGAGATT
CAGTTTGAAGCTGGACTTCACTTTTGCCTCTCTCTCCCGATCGCACCTATGGATT
CCTGCTGCTAGGCTGTTCTGTGGAATTCTGCAGAGTTTATATTATGGGTTTAATCG
TCCATGGCATCAGCATCAGCAGCC