

Plasmid Data Sheet

* **Plasmid Name and Size:** [pMIR-REPORT-lnc-NDRG1-1-4 \(m2\); 6922 bp](#)

* developed at the BioMed Resource Core of the 1st Core Facility Lab, NTU-CM

* **General information of lnc-NDRG1-1-4:**

| | | | |
|-----------------------|-----------------|-------------|-----------|
| NONCODE TRANSCRIPT ID | NONHSAT129220.2 | Strand | - |
| NONCODE Gene ID | NONHSAG051331.2 | Exon Number | 2 |
| Chromosome | chr8 | CNCI Score | -0.032768 |
| Start Site | 133237170 | Length | 508 |
| End Site | 133244503 | Assembly | hg38 |

m2: [nt.475 T>A; nt.476 T>A; nt.477 T>A; nt.478 C>G; nt.479 C>G; nt.480 A>T; nt.481 G>C; nt.482 A>T]

* **Primers:**

| | | |
|-----------|---|-------------------------------------|
| BMRC-3099 | aaagctgcgactagtGGACAAGGCAGGGCAGGG | pMIR-REPORT-lnc-NDRG1-1-4 (SpeI) |
| BMRC-3058 | GCTGCAAAGTTACAAATTTATTGGagaccttTAAATACAAATATCTCATTAAGAAACTC | lnc-NDRG1-1-4 (m2) |
| BMRC-3042 | atcctttattaagcttCCGCTGCAAAGTTACAAATTTA | pMIR-REPORT-lnc-NDRG1-1-4 (HindIII) |

* TA cloning vector or Mammalian; Yeast; *E. coli*; expression vector

* plasmid amplify in *E. coli* is high; or low copy number

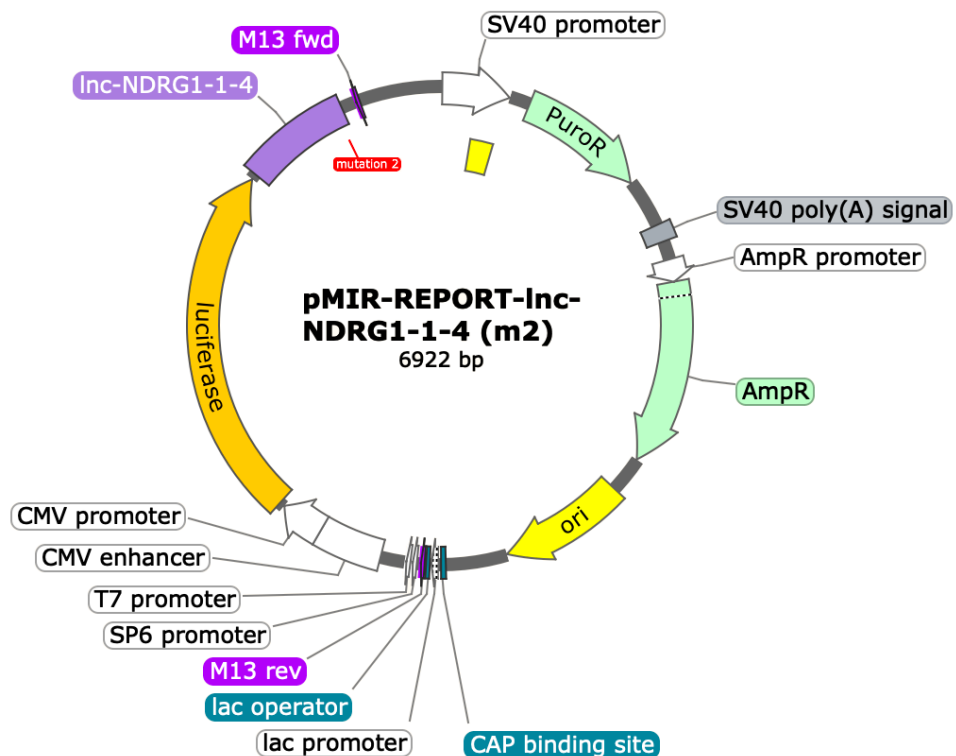
* expression level is low or high

* expression promoter: CMV IE promoter

* antibiotic selection: Amp and Puro

* epitope or tag: non

By cloning a long non-coding RNAs (*lncRNAs*) into pMIR-REPORT, the luciferase reporter is subjected on the influence of miRNA on lncRNA function.



aatgggCGGTAGGCGGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTAGTGAACCG
ttaccCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGACCAATCACTTGGC

CMV promoter

tggatccaccatggaagacgcaaaaacataaagaaaggcccggcgccattctatcctct
acctaggtggtaccttctgCGGTTTTTGTATTTCTTCCGGGCCGCGGTAAGATAGGAGA

1 5 10 15
Met Glu Asp Ala Lys Asn Ile Lys Lys Gly Pro Ala Pro Phe Tyr Pro Leu

luciferase

gatcctcataaaggccaagaaggCGGAAAGTCCAATTGCTCGAGTGATGAAAGCTGCG
ctaggagtatttccggttcttcccgcctttcaggtttaacgagctcactactttcgacgc

540 545 550
Ile Leu Ile Lys Ala Lys Lys Gly Gly Lys Ser Lys Leu Leu Glu *

luciferase

cactagtGGACAAGGCAGGGCAGGGCAGCGGGCGGATGGGCATCCTTTCGGAAAAAATTC
gtgatcaCCTGTTCCGTCCCGTCCCGTCGCCCGCCTACCCGTAGGAAAGCCTTTTTTAAAG

Inc-NDRG1-1-4

AaaaggTctCCAATAAATTTGTAACCTTGCAGCGGaagcttaataaaggatcttttattt
TtttccagaGGTTATTTAAACATTGAAACGTCGCcttcgaattatttctagaaaataaa

Inc-NDRG1-1-4

mutation 2

tcattggatctgtgtgTTGGTTTTTGTATGCGGCCGCTAGCTTGGCACTGGCCGTCGTT
agtaacctagacacacaaccaaaaaacatacGCCGGCGATCGAACCGTGACCGGCAGCAA

M13 fwd

DNA Sequence of pMIR-REPORT-lnc-NDRG1-1-4 (m2)

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