

## Plasmid Data Sheet

\* **Plasmid Name and Size:** [pMIR-REPORT-lnc-NDRG1-1-4 \(m1\); 6922 bp](#)

\* **developed at the BioMed Resource Core of the 1<sup>st</sup> 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

**m1:** [nt.438 T>A; nt.439 T>A; nt.440 T>A; nt.441 C>G; nt.442 C>G; nt.443 A>T; nt.444 G>C; nt.445 A>T]

\* **Primers:**

BMRC-3099	aaagctgcgcactagtGGACAAGGCAGGGCAGGG	pMIR-REPORT-lnc-NDRG1-1-4 (SpeI)
BMRC-3054	TACAAATATCTCATTAAGAACTCCagacctttGAC TTGTGCACAATAGTTTC	lnc-NDRG1-1-4 (m1)
BMRC-3056	GCTGCAAAGTTACAAATTTATTTGGTCTGGAAA TAAATACAAATATCTCATTAAGAACTC	lnc-NDRG1-1-4 (m1)
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

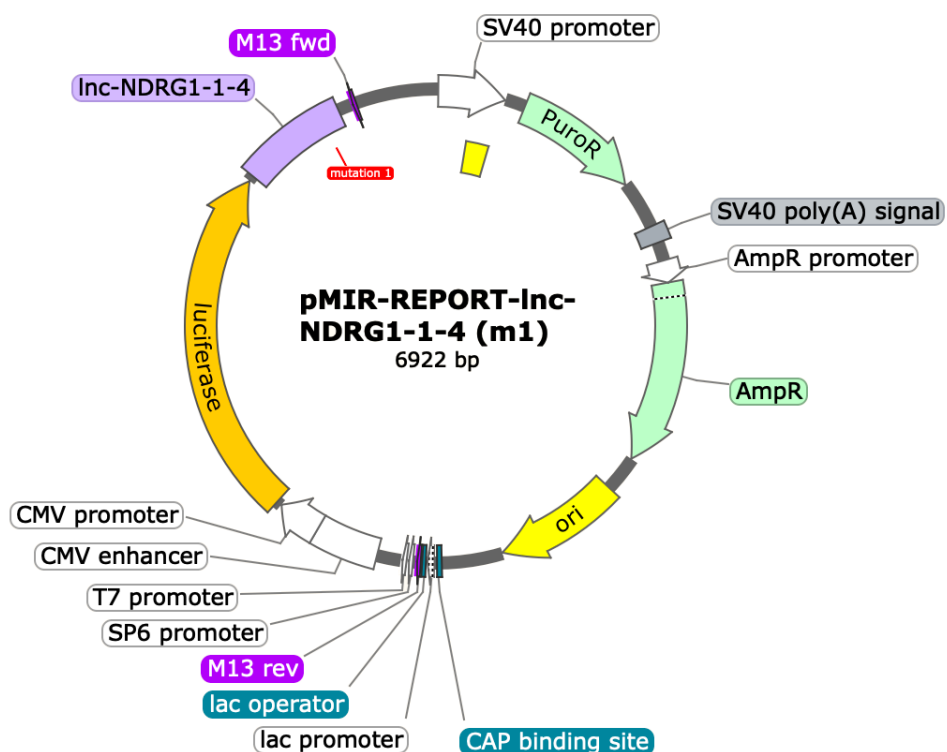
\* expression level is  low or  high

\* 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.



aatgggCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAGAGCTGGTTTAGTGAACCG  
ttaccCGCCATCCGCACATGCCACCCTCCAGATATATTCGTCTCGACCAATCACTTGGC  
CMV promoter

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

gatcctcataaaggccaagaaggCGGAAAGTCCAATTGCTCGAGTGATGAAAGCTGCG  
ctaggagtatttCGGTTCTTCCCGCCTTTCAGGTTAACGAGCTCACTACTTTCGACGC  
540 545 550  
Ile Leu Ile Lys Ala Lys Lys Gly Gly Lys Ser Lys Leu Leu Glu \*  
luciferase

cactagtGGACAAGGCAGGGCAGGGCAGCGGGCGGATGGGCATCCTTTCGGAAAAAATTC  
gtgatcaCCTGTTCCGTCCCGTCCCGTCGCCCGCCTACCCGTAGGAAAGCCTTTTTTAAG  
Inc-NDRG1-1-4

ATGGGAAACTATTGTGCACAAGTCAAAGGTCCTGGAGTTTCTTAATGAGATATTTGTATTT  
TACCCTTTGATAACACGTGTTTCAGTTTCAGACCTCAAAGAATTACTCTATAAACATAAA  
Inc-NDRG1-1-4  
mutation 1

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Inc-NDRG1-1-4

tattggatctgtgtggtttttgtatgCGGCGCTAGCTTGGCACTGGCCGTCGTT  
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M13 fwd

DNA Sequence of pMIR-REPORT-lnc-NDRG1-1-4 (m1)

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