

Plasmid Data Sheet

* **Plasmid Name and Size:** [pcDNA3.1/ZEO\(+\)-lnc-NDRG1-1-4-3; 5561 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

* **Primers:**

BMRC-2575	ACCGAGCTCGGGATCCATGtaccctatgatgtgcc agattatgccGGACAAGGCAGGGCAGGGCA	pcDNA3.1(+)-NDRG1-OT1_v4 (BamHI) HA tag
BMRC-2492	tctgcagaatgaattcCCGC	pcDNA3.1(+)-NDRG1-OT1_v4 (EcoRI)
BMRC-2498	CTTGTCATCGTCGTCCTTGTAGTCCTCAA GGCCAGGGAAGGC	pcDNA3.1(+)-NDRG1-OT1_v4-3
BMRC-2581	GACGACGATGACAAGTAGAAAAGTCGG GGATCGG	pcDNA3.1(+)-NDRG1-OT1_v4-3

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

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

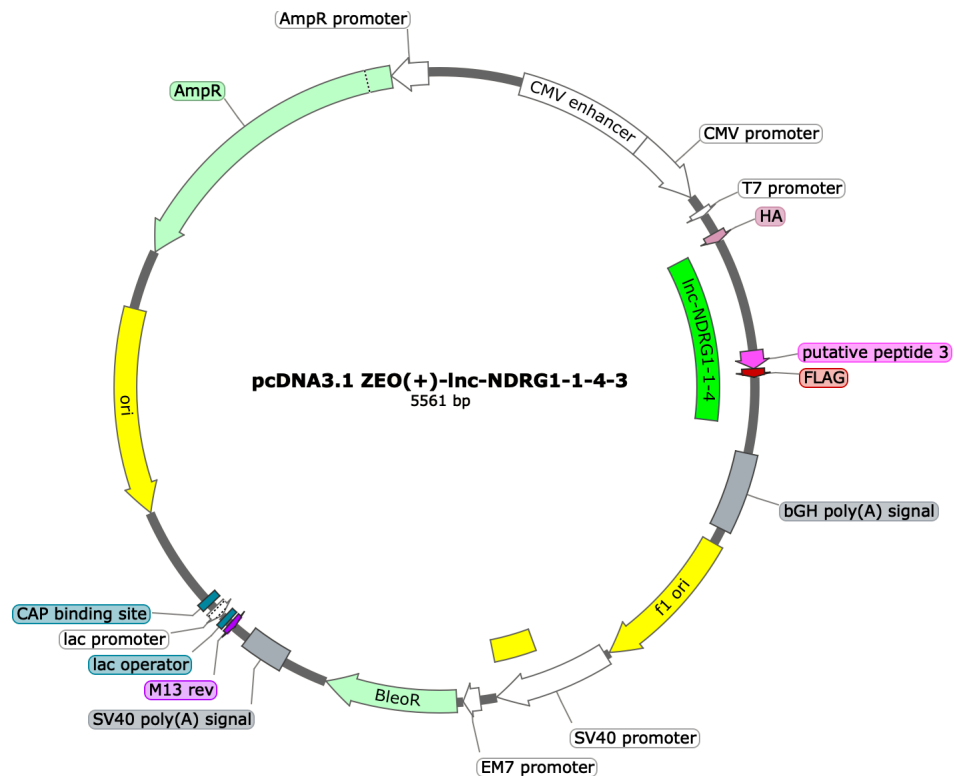
* expression level is low or high

* expression promoter: CMV IE promoter

* antibiotic selection: AmpR; BleoR

BleoR confers resistance to bleomycin, phleomycin, and Zeocin™

* epitope or tag: HA, FLAG



gtctatataagcagagctctctggctaactagagaaccactgcttactggcttatcgaattaatagactcactatag
 ...
 cagatatattcgtctcgcagagaccgattgatctcttgggtgacgaatgaccgaatagctttaattatgctgagtgatc
 CMV promoter T7 promoter

ggagaccaagctgGCTAGCGTTTAAACTTAAGCTTGGTACCGAGCTCGGGATCCATGtacccttatgatgtgccagatt
 cctctgggttcgacCGATCGCAAATTTGAATTCGAACCATGGCTCGAGCCCTAGGTACatgggaatactacacggtctaa
 1 1 5
 Met Tyr Pro Tyr Asp Val Pro Asp
 HA
 T7 promoter

ATGCCGGACAAGGCAGGGCAGGGCAGCGGGCGGATGGGCATCCTTTCGAAAAAATTCATAGAGCGCAGAGGGCCTTGGC
 TACGGCCTGTTCCGTCCCCTCCCGTCGCCCGCTACCCGTAGGAAAGCCTTTTTTAAGTATCTCGCGTCTCCCGGAACCG
 Inc-NDRG1-1-4

Tyr Ala Gly Gln Gly Arg Ala Gly Gln Arg Ala Asp Gly His Pro Phe Gly Lys Asn Ser *
 HA (in frame with HA)

HA epitope tag

TGTGGTGTGGCACTAACGAGCTTCCCTCTCTCTAGATGGCGGACTGTGGCGGCCTCCCGCAGATCTCCAGGTTCCCT
 ACACCACAAACCGTGATTGCTCGAAGGGAGAGAGGATCTACCGCCTGACACCGCCGGAGGGCGTCTAGAGGGTCCAAGGA
 Inc-NDRG1-1-4

GTACTACTGCCTTGTACTTTTCATTTTGGCTCACCGTGGATTTTCTCATAGGAAGTTTGGTCAGAGTGAATTGAATATTG
 CATGATGACGGAACATGAAAAGTAAAACCGAGTGGCACCTAAAAGAGTATCCTTCAAACCGTCTCACTTAACCTATAAC
 Inc-NDRG1-1-4

TAAGTCAGCCACTGGGACCCGAGGATTTCTGGGACCCCGCAGTTGGGAGGAGGAAGTAGTCCAGCCTTCCAGGTGGCGTG
 ATTCAGTCGGTGACCCTGGGCTCCTAAAGACCCTGGGGCGTCAACCCTCCTCCTTCATCAGGTGCGAAGGTCCACCGCAC
 Inc-NDRG1-1-4

AGAGGCAATGACTCGTTACCTGCCGCCATCACCTTGGAGGCCTTCCCTGGCCTTGAGGACTACAAGGACGACGATGACA
 TCTCGGTTACTGAGCAATGGACGGCGGGTAGTGAACCTCCGGAAGGGACCGGAACTCCTGATGTTCTGCTGCTACTGT
 Inc-NDRG1-1-4

1 5 10 15 1
 Met Thr Arg Tyr Leu Pro Pro Ile Thr Leu Glu Ala Phe Pro Gly Leu Glu Asp Tyr Lys Asp Asp Asp
 putative peptide 3 FLAG

AGTAGAAAAGTCGGGGATCGGGGCAAGAGAGGCTGAGTACGGATGGGAAACTATTGTGCACAAGTCTTTCAGAGGAGTT
 TCATCTTTTCAGCCCTAGCCCCGTTCTCTCCGACTCATGCCTACCCTTTGATAACACGTGTTTCAGAAAGGTCTCTCAA
 Inc-NDRG1-1-4

Lys *
 FLAG

TCTTAATGAGATATTTGTATTTATTTCCAGACCAATAAATTTGTAACCTTTCAGCGGGAATTCATTCTGCAGATATCCAG
 AGAATTAATCTATAAACAATAAAGGTCTGGTTATTTAAACATTGAAACGTGCGCCTTAAGTAAGACGTCTATAGGT
 Inc-NDRG1-1-4

CACAGTGGCGGCCGCTCGAGTCTAGAGGGCCGTTTAAACccgctgatcagcctcgactgtgccttctagttgccagcca
 ...
 GTGTACCCGCCGGCGAGCTCAGATCTCCCGGGCAAATTTGggcgactagtcggagctgacacggaagatcaacggtcgg
 bGH poly(A) signal

DNA Sequence of pcDNA3.1/ZEO(+)-lnc-NDRG1-1-4-3

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