

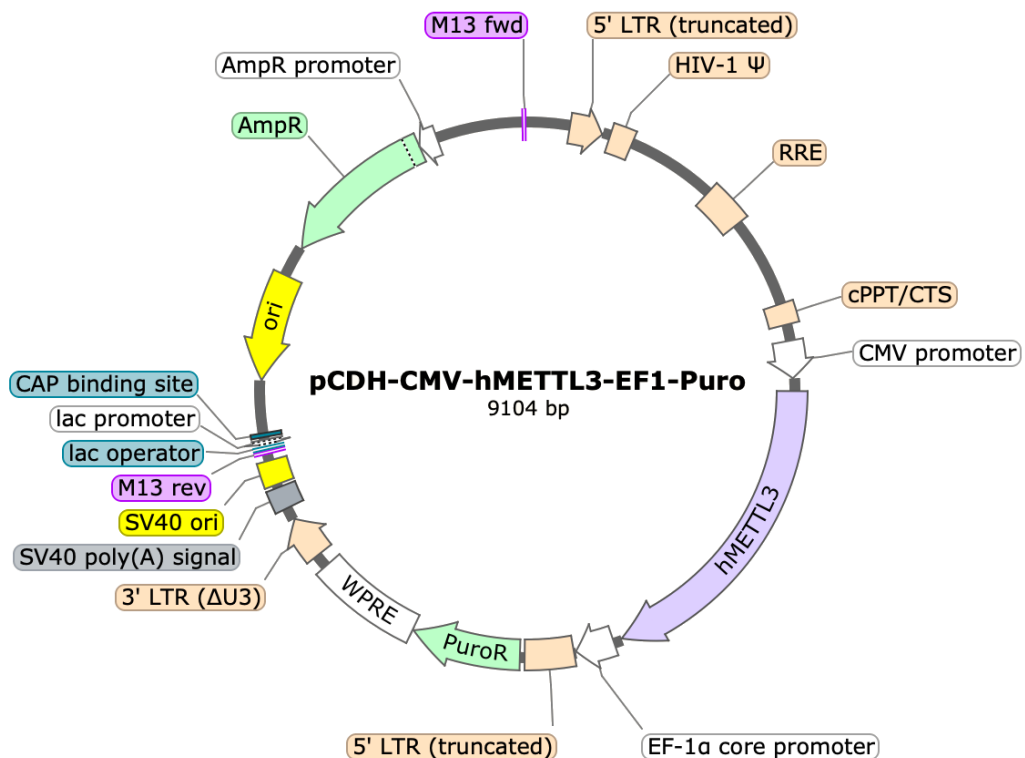
Plasmid Data Sheet

- * **Plasmid Name and Size:** [pCDH-CMV-hMETTL3-EF1-Puro; 9104 bp](#)
- * **developed at the BioMed Resource Core of the 1st Core Facility Lab, NTU-CM**
- * **hMETTL3:** Homo sapiens methyltransferase 3, N6-adenosine-methyltransferase complex catalytic subunit
SNP: R300K (c.899 G>A), N445N (c.1335 C>T)
NCBI Reference Sequence: NM_019852.5

* **primers:**

BMRC-4697	catagaagattctagaATGTCGGACACGTGGAGCTC	pCDH-CMV-hMETTL3-EF1-Puro (XbaI)
BMRC-4526	tgcgcccgcggatccCTATAAATTCTTAGGTTTAGAG ATGATACCA	pCDH-CMV-hMETTL3-EF1-Puro (BamHI)
BMRC-4699	TTGCCAGTTCGTTAGTCT	for DNA sequencing (on hMETTL3)

- * 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
- * **hMETTL3 expression promoter:** CMV promoter
- * **PuroR expression promoter:** EF-1 alpha core promoter
- * **antibiotic selection:** Amp/ Puro
- * **epitope or tag:** no
- * Stbl3 bacterium is recommended to be used for transformation.



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CMV promoter

accgtcagatcgCCTGGAGACGCCATCCACGCTGTTTTGACCTCCATAGAAGATTCT
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agaATGTCGGACACGTGGAGCTCTATCCAGGCCACAAGAAGCAGCTGGACTCTCTG
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Met Ser Asp Thr Trp Ser Ser Ile Gln Ala His Lys Lys Gln Leu Asp Ser Leu
hMETTL3

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570 575 580
Pro Asp Gly Ile Ile Ser Lys Pro Lys Asn Leu *
hMETTL3

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EF-1a core promoter

DNA Sequence of pCDH-CMV-hMETTL3-EF1-Puro

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