

Product datasheet for **RR203085**

Mtr (NM_030864) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mtr (NM_030864) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mtr
Synonyms:	methioninesynthase
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR203085 representing NM_030864 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGC**C

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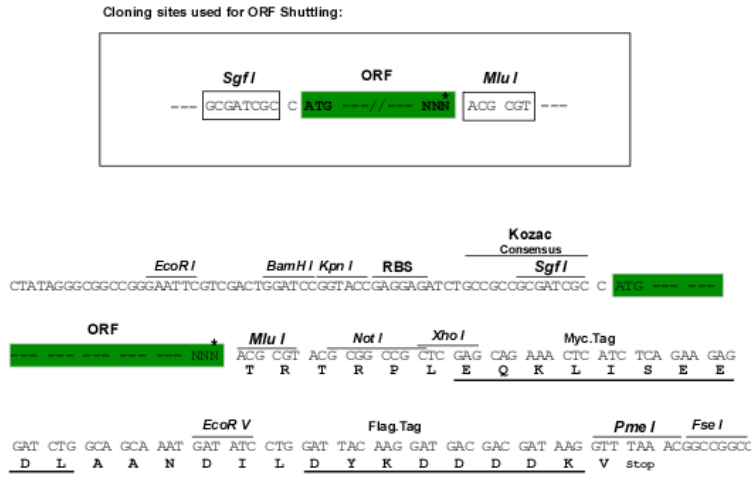
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Protein Sequence: >RR203085 representing NM_030864
 Red=Cloning site Green=Tags(s)

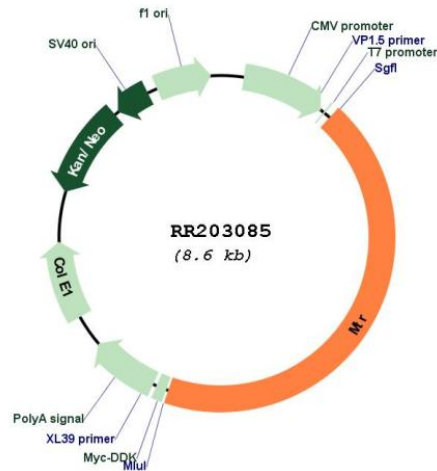
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 FPKIFNDKAVGEEARKVYEDAQNMLSILISRKCLRARGV VGF WPAQSVQDDIHL Y AEGAVPQAAEPIATF
 YGLRQQAEKSSSTDPYHCLSD FVAPLHSGVRDYLGLFAVACFGVEELSKAYEDDGDYSSIMVKALGDR
 LAEFAEELHERVRRELWAYCGSEQLGVTDLRKLRYEGIRPAGYPSQPDHTEKLT MWRLANIEQATGIR
 LTESLAMAPASAVSGLYFSNVKSKYFAVGKISKDQIEDYALRKNMSVAEVEKWLGPILGYDTD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI
 Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_030864

ORF Size: 3759 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_030864.1](#), [NP_110491.1](#)

RefSeq Size: 4498 bp

RefSeq ORF: 3762 bp

Locus ID: 81522

UniProt ID: [Q9Z2Q4](#)

Cytogenetics: 17q12.1

MW: 139.2 kDa

Gene Summary: catalyzes the cobalamin-dependent conversion of 5-methyltetrahydrofolate and L-homocysteine to tetrahydrofolate and L-methionine [RGD, Feb 2006]