

Product datasheet for **RG233890**

CMPK2 (NM_001256478) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CMPK2 (NM_001256478) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CMPK2
Synonyms: NDK; TMPK2; TYKj; UMP-CMPK2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233890 representing NM_001256478
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCCTTCGCCCCCGGCTCCTGCGCGGGCCACTGTCCGGGCGCTGCTCGGGCGGCGGGGTCTGCG
 CTGGGGCCATGGCTCCGCCGCGCCGCTTCGTCTGGAGCTTCCCGACTGCACCCTGGCTCACTTCGCCCT
 AGGCGCCGACGCCCCCGGCGACGCAGACGCCCCGACCCCGCTGGCGGCGTCTGGGGCCCCGGAG
 CGCAGCTACTCGCTGTGCGTGCCCGTACCCCGGACGCCGGTGCAGGGCCCGGGTCCGGCGGCGCGGC
 TGCACCAGCGCTGCTGCACCAGCTGCGCCGCGGCCCTTCCAGCGGTGCCAGCTGCTCAGGCTGCTCTG
 CTACTGCCCGGGCGGCCAGGCCGCGGCGCACAGCAAGGCTTCCTGCTGCGGACCCCTGGATGACCT
 GACACCCGGCAAGCGCTGCTCGAGCTGCTGGGCGCCTGTCCAGGAGCACACGCCCGCACTTGGCGGAGT
 TCGAGGGCCGACCCGCGCGGCCAGCTGTGGCAGCGCCTCTGGGAGGTGCAAGACGCGAGCGGCTGCAGGT
 GGGCTGCGCACAGGTCTGCCCCGTCGCGGAGCCCCGCTGCACCCGGTGGTGCAGACTTGGCCAGTTCC
 GTGGTCTTCCCGACCGGAAGCCCGCGGCCGTTTTGGAGGAGTGTACCTCCTTTATTCCTGAAGCCC
 GGGCAGTGCTTGACCTGGTGCACAGTGCACAAACAGATCCAGAAAGGAAAGTTCAGGTTGTTGCCAT
 CGAAGGACTGGATGCCACGGTAAAACACGGTGACCCAGTCAGTGCAGATTCACTTAAGGCTGTCCCTC
 TAAAGTCACACCCTTTGCATTGGCCAGTGGAGGAAGATCTTTGATGATGAACCAACTATCATTAGAA
 GAGCTTTTACTCTTTGGCAATTATATTGGCCTCCGAAATAGCTAAAGAATCTGCCAAATCTCCTGT
 GATTGTAGACAGTCCCAGCTGGGAGGAACCTTATACCATCCTTCTCCACCTGCTCGGCAGTGAAGTT
 TGTGGACTGGAATCTTGATTATCACACTCGAGTCAAGGCCTGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233890 representing NM_001256478
 Red=Cloning site Green=Tags(s)

MAFARRLLRGPLSGPLLGRRGVCAGAMAPRRFVLELPDCTLAHFALGADAPGDADAPDRLAALLGPPE
 RSYSLCVPVTPDAGCGARVRAARLHQRLRHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDP
 DTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVQDGRRLQVGCQVVPVPEPLHPVVDLPSS
 VVFPDREARAVLEECSFIPPEARAVLDLVDQCPKIQKGFQVVAIEGLDATGKTTVTQSVADSLKAVL
 LKSPSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRSQLGGTLYHPSLHLLGSEV
 CGTGILDSSHSSQGLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256478

ORF Size: 1098 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_001256478.1](#), [NP_001243407.1](#)

RefSeq Size: 1241 bp

RefSeq ORF: 1101 bp

Locus ID: 129607

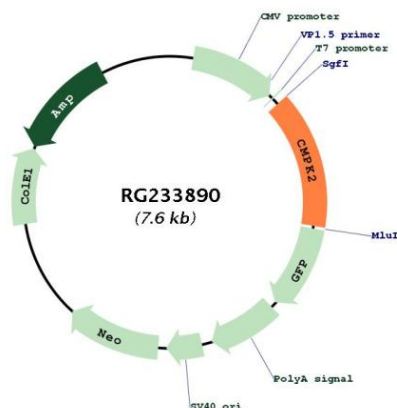
UniProt ID: [Q5EBM0](#)

Cytogenetics: 2p25.2

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

Gene Summary: This gene encodes one of the enzymes in the nucleotide synthesis salvage pathway that may participate in terminal differentiation of monocytic cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2012]

Product images:



Circular map for RG233890