

Product datasheet for **RC234013**

CMPK2 (NM_001256477) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CMPK2 (NM_001256477) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CMPK2
Synonyms: NDK; TMPK2; TYKj; UMP-CMPK2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC234013 representing NM_001256477
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCCTTCGCCCCCGGCTCCTGCGCGGGCCACTGTGCGGGCCGCTGCTCGGGCGGCGGGGTCTGCG
 CTGGGGCCATGGCTCCGCCGCGCCGCTTCGTCTGGAGCTTCCCGACTGCACCCTGGCTCACTTCGCCCT
 AGGCGCCGACGCCCCGGCGACGCAGACGCCCCGACCCCGCTGGCGGCGTCTGGGGCCCCGGAG
 CGCAGCTACTCGCTGTGCGTGCCGTGACCCCGACGCCGGTGCAGGGCCCGGGTCCGGCGGCGCGGC
 TGCACCAGCGCTGCTGCACCAGCTGCGCCGCGGCCCTTCCAGCGGTGCCAGTCTCAGGCTGCTCTG
 CTACTGCCCGGGCGGCCAGGCCGCGGCGCACAGCAAGGCTTCCTGCTGCGGACCCCTGGATGACCT
 GACACCCGGCAAGCGCTGCTCGAGCTGCTGGGCGCCTGTGAGGAGCACACGCCCGCACTTGGGCGAGT
 TCGAGGGCCGACCCGCGCGGCCAGCTGTGGCAGCGCCTCTGGGAGGTGCAAGACGCGAGCGGCTGCAGGT
 GGGCTGCGCACAGGTCTGCCCCGTCGCGGAGCCCCGCTGCACCCGGTGGTGCAGACTTGGCCAGTTCC
 GTGGTCTTCCCGACCGGAAGCCGCGCGGCCGTTTTGGAGGAGTGTACCTCCTTTATCCTGAAGCCC
 GGGCAGTGCTTGACCTGGTTCGACCAAGTGCACCAAAACAGATCCAGAAAGGAAAGTTCAGGTTGTTGCCAT
 CGAAGGACTGGATGCCACGGGTAACACCGGTGACCCAGTCAAGGAGTCACTTAAGGCTGTCCCTC
 TTAAGTCAACCCCTTTGCAATTGGCCAGTGGAGGAAGATCTTTGATGATGAACCAACTATCATTAGAA
 GAGCTTTTACTCTTTGGCAATTATATTGTGGCCTCCGAAATAGCTAAAGAATCTGCCAAATCTCCTGT
 GATTGTAGACAGTACTGGCACAGCACGCCACCTATGCCATAGCCACTGAGGTGAGTGGGGTCTCCAG
 CACCTGCCCCAGCCATCACCTGTGTACCAGTGGCCAGAGGACCTGCTCAAACCTGACCTTATCCTGC
 TGCTCACTGTGAGTCTGAGGAGAGGTTGCAGAGGCTGCAGGGCCGGGCATGGAGAAGACCAGGGAAGA
 AGCAGAACTTGAGGCCAACAGTGTGTTTCGTCAAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC234013 representing NM_001256477
Red=Cloning site Green=Tags(s)

MAFARRLLRGPLSGPLLGRGVCAGAMAPRRFVLELPDCTLAHFALGADAPGDADAPDRLAALLGPPE
 RSYSLCVPVTPDAGCGARVRAARLHQRLHQLRRGPFQRCQLLRLLCYCPGGQAGGAQQGFLLRDPLDDP
 DTRQALLELLGACQEAPRPHLGEFEADPRGQLWQRLWEVDGRRLQVGCQVVPVPEPPLHPVVPDLSS
 VVFPDREARAVLEECSFIPPEARAVLDLVDQCPKQIQKGFQVVAIEGLDATGKTTVTQSVADSLKAVL
 LKSPSCIGQWRKIFDDEPTIIRRAFYSLGNYIVASEIAKESAKSPVIVDRYWHSTATYAIATEVSGGLQ
 HLPFAHPVYQWPEDLLKPDILLLLTVSPEERLQRLQGRGMEKTREEAELEANSVFRQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001256477

ORF Size: 1227 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_001256477.1](#), [NP_001243406.1](#)

RefSeq Size: 2176 bp

RefSeq ORF: 1230 bp

Locus ID: 129607

UniProt ID: [Q5EBM0](#)

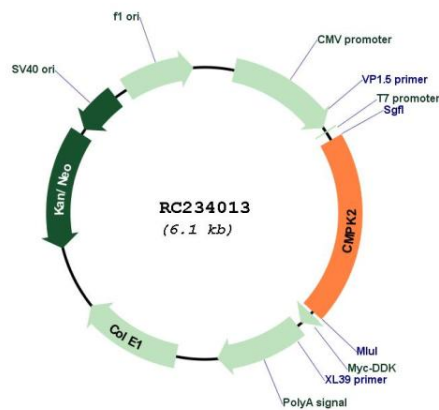
Cytogenetics: 2p25.2

Protein Pathways: Metabolic pathways, Pyrimidine metabolism

MW: 45.4 kDa

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 RC234013