

Product datasheet for **RG204123**

HEMK2 (N6AMT1) (NM_182749) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HEMK2 (N6AMT1) (NM_182749) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HEMK2
Synonyms: C21orf127; HEMK2; KMT9; m.HsaHemK2P; MTQ2; N6AMT; PRED28; PrmC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG204123 representing NM_182749
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCAGGGGAGAACTTCGCTACGCCGTTCCACGGGCACGTGGGCCGGCGCCTTCAGCGACGTGTACG
 AGCCCGCGGAGGACACGTTTCTGCTTTTGGACGCGCTCGAGGCAGCGGCTGCCGAAGTGGCAGGAGTGGA
 AATATGCCTGGAAGTAGGGTCAGGGTCTGGTGTAGTATCTGCATTCTAGCCTCTATGATAGGCCCTCAG
 GCTTTGTACATGTGCACTGATATCAACCCTGAGGCAGCAGCTTGTACCCTAGAGACAGCAGCTGTAACA
 AAGTTCACATTCAACCAGTTATTACAGATTTGGTAGGAAGTACGGAATAGAGGCAGCTTGGCTGGTGG
 CAGAAATGGTCGGGAAGTCATGGACAGGTTTTTCCCCTGGTCCAGATCTCTTTCCACCAAGAGGATTA
 TTCTATTTAGTTACCATTAAGAAAACAACCCAGAAGAAATTTGAAAATAATGAAGACAAAAGGTCTGC
 AAGGAACCACTGCACTTTCCAGACAAGCAGGCCAAGAACTCTTTCAGTCCTCAAGTTCCACCAAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204123 representing NM_182749
 Red=Cloning site Green=Tags(s)

MAGENFATPFHGHVGRGAFSDVYEPAEDTFLLLDALEAAAAELAGVEICLEVGSVGVSAFLASMIGPQ
 ALYMCTDINPEAACTLETARCNKVHIQPVITDLVGSHGIEAAWAGGRNGREVMDFRFPVLDLLSPRGL
 FYLVTIKENNPEEILKIMKTKGLQGTTALSRQAGQETLSVLKFTKS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_182749

ORF Size: 558 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_182749.1](#), [NP_877426.1](#)

RefSeq Size: 4799 bp

RefSeq ORF: 561 bp

Locus ID: 29104

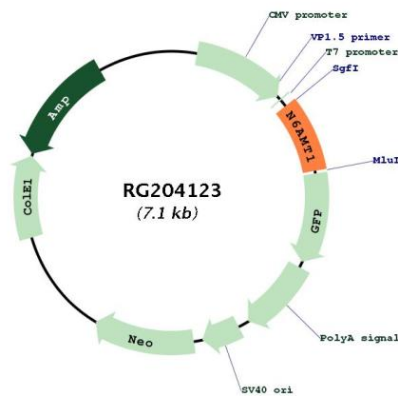
UniProt ID: [Q9Y5N5](#)

Cytogenetics: 21q21.3

Protein Families: Druggable Genome

Gene Summary: This gene encodes an N(6)-adenine-specific DNA methyltransferase. The encoded enzyme may be involved in the methylation of release factor I during translation termination. This enzyme is also involved in converting the arsenic metabolite monomethylarsonous acid to the less toxic dimethylarsonic acid. Alternative splicing of this gene results in multiple transcript variants. A related pseudogene has been identified on chromosome 11. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG204123