OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC204123

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:	Myc-DDK
Symbol:	HEMK2
Synonyms:	C21orf127; HEMK2; KMT9; m.HsaHemK2P; MTQ2; N6AMT; PRED28; PrmC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204123 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGGGGAGAACTTCGCTACGCCGTTCCACGGGCACGTGGGCCGCGGCGCCTTCAGCGACGTGTACG
AGCCCGCGGAGGACACGTTTCTGCTTTTGGACGCGCTCGAGGCAGCGGCTGCCGAACTGGCAGGAGTGGA
AATATGCCTGGAAGTAGGGTCAGGGTCTGGTGTAGTATCTGCATTCCTAGCCTCTATGATAGGCCCTCAG
GCTTTGTACATGTGCACTGATATCAACCCTGAGGCAGCAGCTTGTACCCTAGAGACAGCACGCTGTAACA
AAGTTCACATTCAACCAGTTATTACAGATTTGGTAGGAAGTCACGGAATAGAGGCAGCTTGGGCTGGTGG
CAGAAATGGTCGGGAAGTCATGGACAGGTTTTTTCCCCTGGTTCCAGATCTCCTTTCACCAAGAGGATTA
TTCTATTTAGTTACCATTAAAGAAAACAACCCAGAAGAAATTTTGAAAATAATGAAGACAAAAGGTCTGC
AAGGAACCACTGCACTTTCCAGACAAGCAGGCCAAGAAACTCTTTCAGTCCTCAAGTTCACCAAGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204123 protein sequence
Red=Cloning site Green=Tags(s)

MAGENFATPFHGHVGRGAFSDVYEPAEDTFLLLDALEAAAAELAGVEICLEVGSGSGVVSAFLASMIGPQ
ALYMCTDINPEAAACTLETARCNKVHIQPVITDLVGSHGIEAAWAGGRNGREVMDRFFPLVPDLLSPRGL
FYLVTIKENNPEEILKIMKTKGLQGTTALSRQAGQETLSVLKFTKS

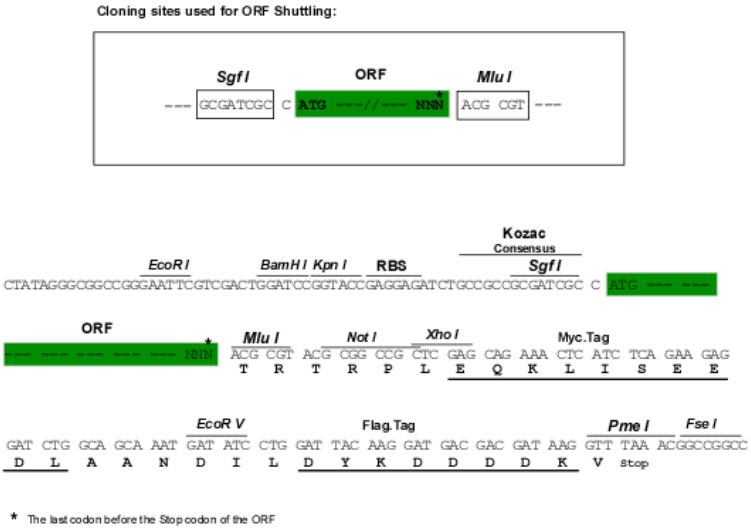
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6431_b09.zip

View online »

Restriction Sites: SgfI-MluI

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: 926 bp

RefSeq ORF: 561 bp

Locus ID: 29104

UniProt ID: Q9Y5N5

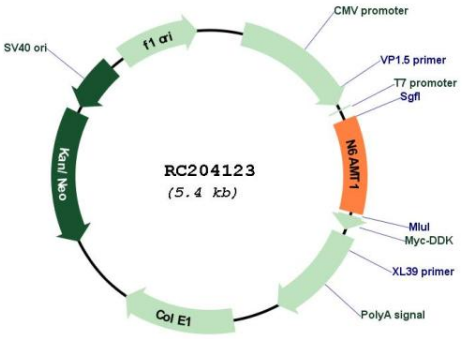
Cytogenetics: 21q21.3

Protein Families: Druggable Genome

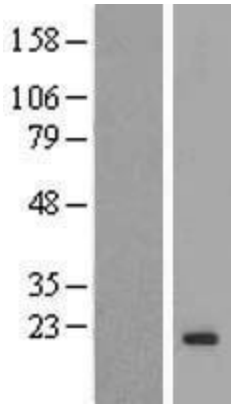
MW: 19.8 kDa

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 pf 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 RC204123



Western blot validation of overexpression lysate (Cat# [LY405346]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).