

## Product datasheet for **RG217745**

### HEMK2 (N6AMT1) (NM\_013240) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HEMK2 (N6AMT1) (NM_013240) 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:	>RG217745 representing NM_013240 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCAGGGGAGAACTTCGCTACGCCGTTCCACGGGCACGTGGGCCGGGCGCCTTCAGCGACGTGTACG  
AGCCCCGGGAGGACACGTTTCTGCTTTTGGACGCGCTGGAGGCAGCGGCTGCCGAAGTGGCAGGAGTGGA  
AATATGCCTGGAAGTAGGGTCAGGGTCTGGTGTAGTATCTGCATTCTAGCCTCTATGATAGGCCCTCAG  
GCTTTGTACATGTGCACTGATATCAACCCTGAGGCAGCAGCTTGTACCCTAGAGACAGCAGCTGTAACA  
AAGTTCACATTCAACCAGTTATTACAGATTTGGTCAAAGGCTTGCTACCAAGATTGACCGAAAAAGTTGA  
TCTTCTGGTGTTAATCCCCCTATGTAGTGACTCCACCTCAAGAGGTAGGAAGTACCGAATAGAGGCA  
GCTTGGGCTGGTGGCAGAAATGGTCGGGAAGTCATGGACAGGTTTTTCCCTGTTCCAGATCTCCTTT  
CACCAAGAGGATTATTCTATTTAGTTACCATTAAGAAAAACAACCAGAAGAAATTTTAAAAATAATGAA  
GACAAAAGGTCTGCAAGGAACCACTGCACCTTCCAGACAAGCAGGCCAAGAACTCTTTCAGTCCTCAAG  
TTCACCAAGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG217745 representing NM\_013240  
Red=Cloning site Green=Tags(s)

MAGENFATPFHGHVGRGAFSDVYEPAEDTFLLLEDALEAAAAELAGVEICLEVSGSGVVSFAFLASMIGPQ  
 ALYMCTDINPEAACTLETARCNKVHIQPVITDLVKGLLPRLTEKVDLLVFNPYYVTPPQEVGSHGIEA  
 AWAGGRNGREVMDFRFFPLVPDLLSPRGLFYLVTIKENNPEEILKIMKTKGLQGTALSRQAGQETLSVLK  
 FTKS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_013240

**ORF Size:** 642 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\\_013240.6](#)

**RefSeq Size:** 1010 bp

**RefSeq ORF:** 645 bp

**Locus ID:** 29104

**UniProt ID:** [Q9Y5N5](#)

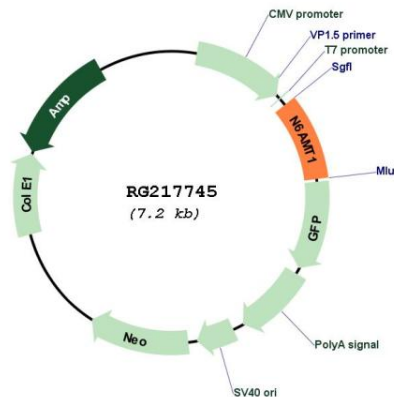
**Cytogenetics:** 21q21.3

**Protein Families:** Druggable Genome

**MW:** 23 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 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 RG217745