

Product datasheet for **RG200039**

HEMK1 (NM_016173) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEMK1 (NM_016173) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEMK1
Synonyms:	HEMK; MPRMC; MTQ1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200039 representing NM_016173 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTTTGGGGCCGAATGCTGTGGGCCCTCCTGTCTGGCCCAGGGAGGAGGGGAAGTACCCGGGGCT
GGGCCTTCAGCTCATGGCAACCCCAACCACCTCTGGCTGGGTTATCCAGTGCCATAGAAGTGGTCAGCCA
CTGGACTGGGGTCTTTGAGAAGAGGGGTATCCCTGAGGCCGGGAATCCAGTGAGTACATCGTGGCTCAT
GTCCTTGGAGCCAAAACATTTAGAGCCTGAGGCCGGCACTTTGGACCCAGCCCTTGACCTCTCAGCAAC
TACAGTGTATCCGGGAGCTGAGTAGCCGTGATTGCAGAGGATGCCGGTGCAGTACATCCTTGGAGAGTG
GGACTTCCAGGGGCTCAGCCTAAGGATGGTGCCCCAGTGTATTCGCGGCCAGAAACAGAGGAACTG
GTTGAGTGGGTGCTGGAAGAGGTGGCCCAGAGGTCCCATGCTGTGGGATCCCCAGGCAGCCCCCTCATT
TGGAGGTGGGCTGCGGATCAGGAGCCATCTCCCTCAGCCTGCTGAGCCAGCTCCCCAGAGCCGAGTCAT
TGCTGTGGATAAGCGGGAAGCTGCTATCTCTGACCCATGAGAATGCTCAGAGGCTTCGGTTGCAGGAC
AGGATTTGGATCATCCACCTCGACATGACCTCAGAAAGGAGCTGGACACACCTGCCCTGGGGCCCATGG
ACCTGATTGTAGCAACCCCTCCCTACGTTCCACCAGGACATGGAGCAGCTGGCCCTGAGATCCGAG
CTATGAAGACCCCGGCCCTGGATGGTGGGAGGAGGGCATGGACATCATTACCCACATTCTGGCCTTG
GCACCCCGGCTCCTGAAAGACTCTGGTAGTATCTTCTTAGAAGTGGACCCAAAGGCACCCGGAGCTTGCA
GCAGCTGGCTTACAGAGCCGGCCTGACCTGTACCTTAATCTTGTGGCTGTGCGCAGGGACTTCTGTGGAG
GCCCGGTTCTGCATATCCGGAGGTCTGGCCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200039 representing NM_016173
Red=Cloning site Green=Tags(s)

MELWGRMLWALLSGPGRRGSTRGWAFSSWQPQPPLAGLSSAIELVSHWTGVFEKRGIPPEARSESEYIVAH
 VLGAKTFQSLRPALWTQPLTSQQLQCIRELSSRRLQRMVQYILGEWDFQGLSLRMVPPVFI PRPETEEL
 VEWVLEEVAQRSHAVGSPGSPLILEVGCSSGAISSLLSQLPQSRVIAVDKREAAISLTHENAQRRLQD
 RIWIIHLDMTSERSWTHLPWGPMDLIVSNPPYVFHQDMEQLAPEIRSYEDPAALDGEEGMDIITHILAL
 APRLLKDSGSIFLEVDPRHPELVSSWLQSRPDLVNLVAVRRDFCGRPRFLHIRRSGP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016173

ORF Size: 1014 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_016173.2](#)

RefSeq Size: 5862 bp

RefSeq ORF: 1017 bp

Locus ID: 51409

UniProt ID: [Q9Y5R4](#)

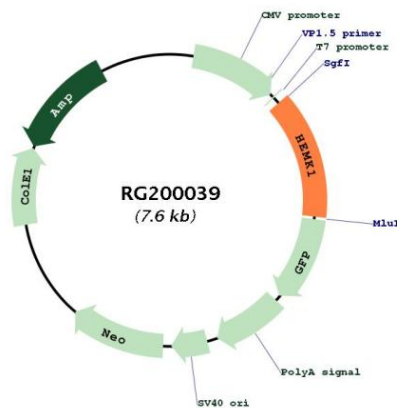
Cytogenetics: 3p21.31

Protein Families: Druggable Genome

Protein Pathways: Androgen and estrogen metabolism, Histidine metabolism, Selenoamino acid metabolism, Tyrosine metabolism

Gene Summary: N5-glutamine methyltransferase responsible for the methylation of the glutamine residue in the universally conserved GGQ motif of the mitochondrial translation release factor MTRF1L. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200039