

## Product datasheet for **MG205078**

### Hemk1 (NM\_133984) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hemk1 (NM_133984) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hemk1
Synonyms:	2310008M14Rik; AW049265
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205078 representing NM_133984 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAGCTCTGGGGACAAATACTTTGGACCCTTCTATCTGTTCCCGAGGAAGGAGGGGAGTCTCCAGG  
GCTGGCCTTCAACTCATGGAAGACTTATTCATCCCTGACTGGGCCGTTGAGTGCCACAGGGATGGTTAA  
TCACTGGACACAGGTCTTTGAGGAAAGAGGTATCCCAGAGGCCCGGAATCCAGTGAGTACATCGTGGCT  
CATGTCCTCGGAGCCAAAACATTTAGAGCCTGAAACCAGCACTTTGGACCAAGCCACTGACCCCTCAAC  
AATTGGAATGCATCCAGGAGCTATGTGGCCATAGATTACAGAGGATGCCGGTGCAGTATATCCTTGGGGA  
GTGGGACTTTAGGGGCTCAGTCTGAAGATGGTACCCCAAGTGTTCATCCCTCGGCCAGAGACAGAAGAA  
CTGGTTGAATGGGTTTTAGAGGAAGTGGCCCGGAGGCCCATGCAGTGAGAGCCAGGATGGTCCCTCA  
TTCTGGAGGTGGGCTGTGGATCAGGAGCCATTACTCTCAGCCTGCTGAGCCAGCTCCCAAGAGTCGAGT  
TGTTGCTGTGGATAAGGAGGAAGCTGCTGTTAGTCTGACCCATGAGAATGCTCGGAGGCTTCAGTGCAG  
GACAGGATCCGGATCATCTGCCTTGATATAACCTCAGAGGGGTGCTGCACACACCTTTTGCCTGGAGCC  
CCTTGGACTTGGTGGTCAGCAACCCTCCCTACATCTTCCGAAGGACATGGAACAGCTGGCTCCAGAGAT  
CTGCAGTTACGAAGATCTGGTGGCCCTGGATGGTGGTACGAAGGCATGGACATCATACCCACATCTTG  
ACCTTGGCACCCAGCTTTGAATGCCTCTGGAAGCATCTTCTTAGAAGTAGACCAAGACACCCAGAGC  
TTGTCAGCAGTTGGCTTCAGAGCCATCCTGACCTGCACCTTAGTCTTGTGGGAGTCCGTGAAGACTTCTG  
TGGGAGGCCCGTTCCTGCATGTCCAGAAGTCTGCACCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205078 representing NM\_133984  
 Red=Cloning site Green=Tags(s)

MKLWGQILWTLVSVPRRRGVLQGWAFNSWKTYSSLTGPLSATGMVNHWTQVFEERGIPEARESSEYIVA  
 HVLGAKTFQSLKPALWTKPLTPQQLCEIQELCGHRLQRMPVQYILGEWDFQGLSLKMPVPVFIIPRPETEE  
 LVEWLEEVARRPHAVRAQDGPLILEVCGSGAITLSLLSQLPKSRVAVDKKAAVSLTHENARRLQLQ  
 DRIRIICLDITSEGCCTHLLPWSPLDLVSNPPYIFRKDMQLAPEICSYEDLVALDGGDEGMDDIITHIL  
 TLAPQLLNASGSIFLEVDPRHPELVSSWLQSHPDHLHSLVGVREDFCGRPRFLHVQKSAP

TRTRPLE - GFP Tag - V

**Restriction Sites:**

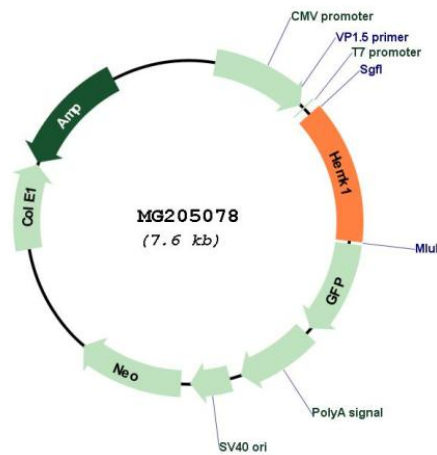
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_133984

**ORF Size:** 1020 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_133984.1</a> , <a href="#">NP_598745.1</a>
<b>RefSeq Size:</b>	1534 bp
<b>RefSeq ORF:</b>	1023 bp
<b>Locus ID:</b>	69536
<b>UniProt ID:</b>	<a href="#">Q921L7</a>
<b>Cytogenetics:</b>	9 F1
<b>Gene Summary:</b>	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]