

## Product datasheet for **RR205723**

### Uhmk1 (NM\_017293) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Uhmk1 (NM_017293) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Uhmk1
Synonyms:	KIS; Kist
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR205723 representing NM_017293 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGGGTCCGGCTGCGCGTGGGGCCGAGCCGCCGCGCTTCTGGAGGCCTTCGGGCGGCTGTGGC  
AGGTACAGAGCCGCTAGGCAGCGGCTCCTCGGCTCGGTGTACCGGGTGCCTGCTGCGGCACTCCAGG  
CTCGCCCCCGGCGCCCTCAAGCAGTTCCTGCCTCCGGGAACCACCGGGGCTGCCGCTCGGCTGCGGAG  
TATGGTTCCGAAAAGAGAGGGCAGCGCTGGAGCAGTTGCAGGGTACAGGAACATCGTGACTTTATACG  
GAGTCTTTACCATACTTCTCTCCAAATGTGCCATCACGCTGTCTGTTGCTTGAACCTCTGGATGTCAG  
CGTTTCGGAATTGCTTGTATATTCAGTACCAGGGTTGCTCCATGTGGATGATCCAGCACTGTGCCAGA  
GATGTCCTGGAGGCCCTTCTTTCTTCCATGAGGGCTATGTCCATGCAGACCTCAAGCCACGAAACA  
TCCTGTGGAGTGCAGGAGAACGAGTGCTTTAAGCTTATTGACTTTGGACTCAGCTTCAAAGAAGGCAATCA  
GGACGTGAAGTATATTCAGACAGACGGGTATCGAGCTCCTGAAGCAGAAGTGCAGAATTGCTTGGCCAG  
GCCGGCTGCAGAGTGATACAGAGTGTACCTCAGCTGTTGATCTCTGGAGCCTTGGAAATCATTTTACTGG  
AAATGTTCTCAGGAATGAACTGAAACATACAGTCAATCTCAGGAGTGAAGGCAAAACAGTTCTGCTAT  
TATTGATCATATTTGCCAGTAAAGCAGTGGTGAATGCCCAATTCAGCCTATCACCTCAGAGACCTT  
ATCAAAGCATGCTTCATGACGACCAAGCAGAAGGATCCCTGCTGAGATGGCCTTGTGCAGCCATTCT  
TTAGCATTCTTTGCCCCATATTGAAGATCTGGTGTGCTTCCAACCTCAGTGTGCTCAGACTCCTCAA  
TGTGCTGGATGATGACTATCTTGAAGTGAAGTGAATATGAAGATGTTGTAGAAGATGAAAAGAAGAG  
TGTGAGAAATATGGACAGTGGTTTCTCTGCTTGTTCAAAGGAAAATCCTGGCAGAGGACAAGTCTTTG  
TTGAGTACGAAACGCTGGAGATTCCAAGCTGCTCAGAAATTGCTGACTGGGAGGATGTTTGACGGGAA  
GTTTGTGTTGGCTACATTCTACCCGCTGAGTGCCTACAAGAGGGGATATCTTTATCAAACCTTGCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR205723 representing NM\_017293  
Red=Cloning site Green=Tags(s)

MAGSGCAWGAEPFRFLEAFGRLWQVQSRLGSGSSASVYRVRCCGTPGSPPGALKQFLPPGTTGAAASAAE  
 YGFRKERAALQLQGHRNIVTL YGVFTIHFSPNVPSRCLLLELLDVSVSELLVYSSHQGCMMMIQHCR  
 DVLEALAFHHEGYVHADLKPRNILWSAENECFKLIDFGLSFKEGNQDVKYIQTGDYRAPEAELQNCIAQ  
 AGLQSDTECTSAVDLWSLGIILLEMFSGMKLNHTVRSQEWKANSSAIIDHIFASKAVVNAIPAYHLRDL  
 IKSMHLHDDPSRRIPAEMALCSPFFSIPFAPHIEDLVMLPTPVLRLNLVLDLDDYLENEDEYEDVVEDVKEE  
 CQKYGPVYVSLVPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKVVVATFYPLSAYKRGYLYQTLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_017293

**ORF Size:** 1257 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\\_017293.1](#), [NP\\_058989.1](#)

**RefSeq Size:** 3244 bp

**RefSeq ORF:** 1260 bp

**Locus ID:** 246332

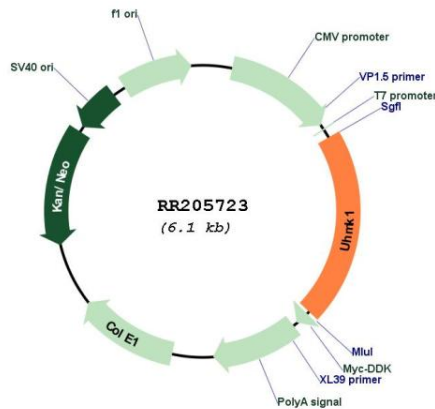
**UniProt ID:** [Q63285](#)

**Cytogenetics:** 13q24

**MW:** 46.5 kDa

**Gene Summary:** Upon serum stimulation, phosphorylates CDKN1B/p27Kip1, thus controlling CDKN1B subcellular location and cell cycle progression in G1 phase. May be involved in trafficking and/or processing of RNA (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR205723