

Product datasheet for **MR200661**

Hint1 (NM_008248) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Hint1 (NM_008248) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Hint1

Synonyms: AA673479; Hint; Ipk1; PKCI-1; PRKCNH1

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR200661 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGACGAGATTGCCAAGGCTCAAGTGGCCAGCCGGCGGCGACACGATCTTCGGCAAGATCATCC
GCAAAGAAATCCCGCCAAGATCATCTTCGAGGACGACCGGTGTCTTCTTTTCATGACATTTCCCTCA
AGCACCAACACACTTTCTGGTGATACCCAAGAAGCATATATCCAGATTCTGTAGCAGATGATGATGAT
GAAAGTCTTCTAGGACATTTAATGATTGTTGGCAAGAAATGTGCTGCAGATCTGGGCCTGAAGCGCGGGT
ACCGGATGGTGGTGAATGAAGTGCAGACGGGGACAGTCTGTCTATCACATTCACCTCCATGTCCTTGG
GGTTCGGCAGATGAAGTGGCCTCCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR200661 protein sequence
Red=Cloning site Green=Tags(s)

MADEIAKAQVAQPGGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHISQISVADDDD
ESLLGHLMIVGKKAADLGLKRGYRMVNEGADGGQSVYHIHLHVLGGRQMNWPPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM 008248

ORF Size: 378 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

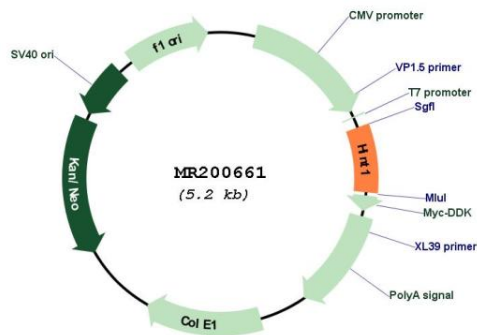
RefSeq: [NM_008248.3](#)

RefSeq Size: 576 bp

| | |
|---------------|------------------------|
| RefSeq ORF: | 381 bp |
| Locus ID: | 15254 |
| UniProt ID: | P70349 |
| Cytogenetics: | 11 B1.3 |
| MW: | 13.8 kDa |

Gene Summary: Hydrolyzes purine nucleotide phosphoramidates with a single phosphate group, including adenosine 5'monophosphoramidate (AMP-NH₂), adenosine 5'monophosphomorpholidate (AMP-morpholidate) and guanosine 5'monophosphomorpholidate (GMP-morpholidate). Hydrolyzes lysyl-AMP (AMP-N-epsilon-(N-alpha-acetyl lysine methyl ester)) generated by lysine tRNA ligase, as well as Met-AMP, His-AMP and Asp-AMP, lysyl-GMP (GMP-N-epsilon-(N-alpha-acetyl lysine methyl ester)) and AMP-N-alanine methyl ester. Can also convert adenosine 5'-O-phosphorothioate and guanosine 5'-O-phosphorothioate to the corresponding nucleoside 5'-O-phosphates with concomitant release of hydrogen sulfide. In addition, functions as scaffolding protein that modulates transcriptional activation by the LEF1/TCF1-CTNNB1 complex and by the complex formed with MITF and CTNNB1. Modulates p53/TP53 levels and p53/TP53-mediated apoptosis. Modulates proteasomal degradation of target proteins by the SCF (SKP2-CUL1-F-box protein) E3 ubiquitin-protein ligase complex (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR200661