

Product datasheet for **MG200661**

Hint1 (NM_008248) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hint1 (NM_008248) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hint1
Synonyms: AA673479; Hint; lpk1; PKCI-1; PRKCNH1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG200661 representing NM_008248
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTGACGAGATTGCCAAGGCTCAAGTGGCCAGCCCGGGCGGACACGATCTTCGGCAAGATCATCC
GCAAAGAAATCCCGCCAAGATCATCTTCGAGGACGACCGGTGTCTTGCTTTTCATGACATTTCCCTCA
AGCACCAACACACTTTCTGGTGATACCCAAGAAGCATATATCCAGATTCTGTAGCAGATGATGATGAT
GAAAGTCTTCTAGGACATTTAATGATTGTTGGCAAGAAATGTGCTGCAGATCTGGGCCTGAAGCGCGGGT
ACCGGATGGTGGTGAATGAAGTGCAGACGGGGACAGTCTGTCTATCACATTCACCTCCATGTCCTTGG
GGGTCGGCAGATGAAGTGGCCTCCTGGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG200661 representing NM_008248
Red=Cloning site Green=Tags(s)

MADEIAKAQVAQPGGDTIFGKIIRKEIPAKIIFEDDRCLAFHDISPQAPTHFLVIPKKHISQISVADDDD
 ESSLGLHLMIVGKKCAADLGLKRGYRMVNEGADGGQSVYHIHLHVLGGRQMNWPPG

TRTRPLE - GFP Tag - V

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.

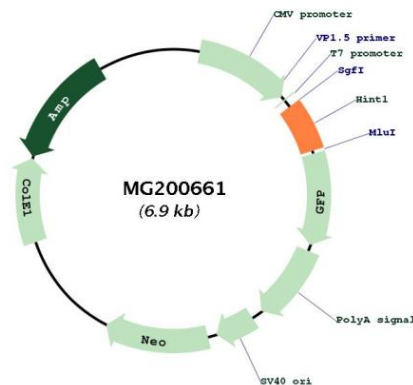
RefSeq: [NM_008248.3](#)

RefSeq Size: 576 bp

RefSeq ORF: 381 bp
 Locus ID: 15254
 UniProt ID: [P70349](#)
 Cytogenetics: 11 B1.3
 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 MG200661