

Product datasheet for **RC208371**

HINT2 (NM_032593) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HINT2 (NM_032593) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HINT2
Synonyms: HIT-17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC208371 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCAGCCGTGGTCTGGCTGCTGGGTTGCGCGCGCGCGCAGAGCCGTGGCGGCCACGGGGTGC
GCGGGGGCAGGTCAGGAGCTGCAGGTGTGACTGATGGGAATGAAGTGGCCAAGGCCACGAGCAAC
TCCTGGGGAGCAGCCCCAACCATCTTCTCCCGGATCCTGGACAAGAGCCTCCAGCTGACATTCTCTAT
GAGGACCAGCAGTGTCTGTGTTCCGTGATGTGGCCCTCAGGCTCCTGTGACTTCTGGTCATTCTTA
AGAAGCCATTCTCGGATTAGCCAGGCTGAAGAAGAAGACCAGCAGCTTCTAGGACACCTACTCCTTGT
GGCAAGCAGACAGCAAAGGCTGAGGGCTGGGAGATGGATACCGACTTGTGATCAACGATGGGAAGCTG
GGTGCACAATCTGTGTATCATCTGCACATTCATGTACTTGGGGCCGGCAGCTCCAGTGGCTCCAGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208371 protein sequence
Red=Cloning site Green=Tags(s)

MAAAVFLAAGLRAARRAATGVRGGQVRGAAGVTDGNEVAKAQQATPGGAAPTIFSRILDKSLPADILY
EDQQCLVFRDVPAPVHFLVIPKKPIPRISQAEEDQQLLGHLLLVAKQTAKAEGLGDGYRLVINDGKL
GAQSVYHLHIHVLGGRQLQWPPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6090_a04.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032593

ORF Size: 489 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_032593.3](#)

RefSeq Size: 652 bp

RefSeq ORF: 492 bp

Locus ID: 84681

UniProt ID: [Q9BX68](#)

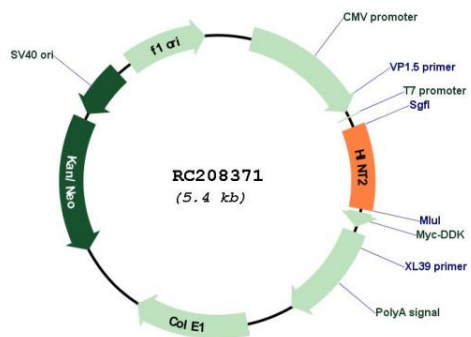
Cytogenetics: 9p13.3

Domains: HIT

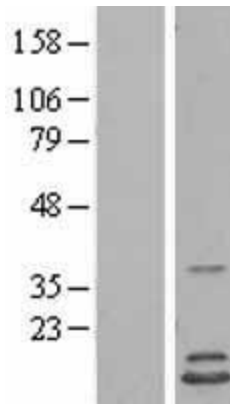
MW: 17.2 kDa

Gene Summary: Histidine triad proteins, such as HINT2, are nucleotide hydrolases and transferases that act on the alpha-phosphate of ribonucleotides (Brenner, 2002 [PubMed 12119013]).[supplied by OMIM, Mar 2008]

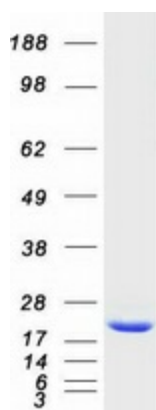
Product images:



Circular map for RC208371



Western blot validation of overexpression lysate (Cat# [LY403175]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208371 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HINT2 protein (Cat# [TP308371]). The protein was produced from HEK293T cells transfected with HINT2 cDNA clone (Cat# RC208371) using MegaTran 2.0 (Cat# [TT210002]).