

Product datasheet for RC204844

HINT3 (NM 138571) Human Tagged ORF Clone

HINT3

Product data:

Product Type: Expression Plasmids

Product Name: HINT3 (NM_138571) Human Tagged ORF Clone

Tag: Myc-DDK

Synonyms: HINT4

Mammalian Cell Neomycin

Selection:

Symbol:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC204844 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCGGAGGAACAGGTGAACCGCAGCGCCCGGCCTGGCCCCGACTGTGAGGCCTCGGCGACTGCAGAAA CTACGGTTTCCTCAGTGGGGACCTGTGAAGCCGCTGGCAAGTCACCAGAGCCCAAGGACTACGACAGCAC CTGCGTGTTCTGCCGGATCGCGGGGCGGCAGGACCCGGGCACCGAACTCCTGCACTGCGAGAATGAGGAC CTAATTTGCTTCAAAGATATCAAACCAGCAGCAACTCATCATTATCTTGTGGTGCCAAAGAAGAACATATTG GAAACTGCAGAACTCTAAGGAAAGATCAAGTAGAACTGGTTGAGAACATGGTAACTGTTGGAAAAACCAT TCTTGAAAGAAATAATTTCACTGACTTCACGAATGTGAGGATGAGTTTCATATGCCACCATTCTGTTCC ATTTCCCACTTGCACCTTCATGTTCTGGACCACAGTGGATCAAGTTGGCTTCTTATCCAAGTTGGTTTATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204844 protein sequence

Red=Cloning site Green=Tags(s)

MAEEQVNRSAGLAPDCEASATAETTVSSVGTCEAAGKSPEPKDYDSTCVFCRIAGRQDPGTELLHCENED LICFKDIKPAATHHYLVVPKKHIGNCRTLRKDQVELVENMVTVGKTILERNNFTDFTNVRMGFHMPPFCS

ISHLHLHVLAPVDQLGFLSKLVYRVNSYWFITADHLIEKLRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6062 c06.zip



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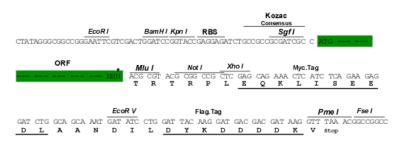


Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_138571

ORF Size: 546 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: <u>NM 138571.5</u>

 RefSeq Size:
 3396 bp

 RefSeq ORF:
 549 bp

 Locus ID:
 135114

 UniProt ID:
 Q9NQE9



Cytogenetics: 6q22.32

Domains: HIT

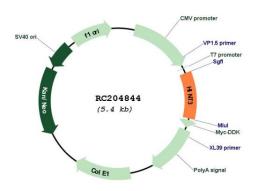
MW: 20.4 kDa

Gene Summary: Histidine triad proteins, such as HINT3, are nucleotide hydrolases and transferases that act on

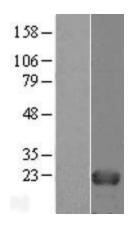
the alpha-phosphate of ribonucleotides (Brenner, 2002 [PubMed 12119013]).[supplied by

OMIM, Mar 2008]

Product images:

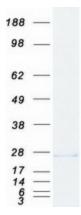


Circular map for RC204844



Western blot validation of overexpression lysate (Cat# [LY403361]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204844 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified HINT3 protein (Cat# [TP304844]). The protein was produced from HEK293T cells transfected with HINT3 cDNA clone (Cat# RC204844) using MegaTran 2.0 (Cat# [TT210002]).