

Product datasheet for **RC224187**

HIAT1 (MFSD14A) (NM_033055) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	HIAT1
Synonyms:	HIAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224187 ORF sequence, **codon optimized**.
Due to the complexity of NM_033055, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

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

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGACGCAAGGGAAGAAAAAAGAGCGGCCAACCGCTCAATTATGTTGGCTAAGAAAAATCATCATT
AGGACGGCGGCACCCCGAGGGCATTGGTTCCCGTCAGTTTACCACGCTGTCATCGTGATATTTCTCGA
ATTCTTTGCCTGGGGCTGCTCACAGCCCGACTCTGGTTGTGCTGCACGAAACATTCCCCAAGCACACT
TTTCTGATGAATGGACTCATCCAGGGGGTGAAGGGACTGCTGAGCTTCTGAGCGCCCACTTATCGGGG
CACTGTCCGACGTCTGGGGCGGAAGAGCTTTCTGCTGCTGACGGTCTTTTTTACCTGCGCCCCATTCC
ACTGATGAAAACTCACCGTGGTGTACTTTCGGTGATTAGCGTGTCCGGCGTTTTCTGCTGTCACATTC
TCCGTGGTATTGCGCTATGTGGCCGATATTACACAAGAGCATGAACGGAGTATGGCATACGGGCTCGTGT
CCGCTACCTTTGCTGCTTCTCTGTCGACCTCCCCCGCCATTGGAGCCTACCTGGGGCGAGGTACGGGGA
TAGTTTGGTAGTCGTGTTGGCGACAGCCATCGCGCTGCTGGATATCTGTTTTATCCTCGTGGCTGTGCCA
GAAAGTCTCCCGAAAAAATGCGGCCAGCCTCATGGGGCGCCCATCTCTGGGAGCAGGCTGATCCTT
TTGCCAGTCTGAAAAAGTTGGCCAGGATAGCATAGTGCTTCTGATTTGCATTACAGTCTTTCTTAGTTA
CTTGCTGAAGCAGGTCACTACTCTTTCTTTCTGTACCTGCGCCAGATTATGAAATTTAGTCTGAG
AGCGTCGCCGATTTATAGCAGTCTGGGAATTCTCTCAATAATCGCCCAAATATTGTTTTGTCTTTGC
TGATGCGGAGCATTGGCAACAAAAACAACTACTTCTTGGGCTGGGCTTTCAGATCCTGCAGCTGGCCTG
GTACGGCTTCGGAAGTGAAGCCCTGGATGATGTGGGCCGCTGGAGCAGTGGCTGCCATGAGCTCTATCACC
TTTCCCGCAGTTTCAGTCTCGTTAGTCGACCCGCCGATGCAGACCAGCAAGGGGTCGTTCAAGGGATGA
TTACCGGAATTAGGGTCTGTGCAATGGGCTGGGGCCGCCCTGTATGGTTTCATCTCTACATCTTCCA
CGTTGAACGAAAGAAATTGCCCATCACCGAACTGATCTCGGGACAAACACGCTCTCCTCAGCAACCTTC
GAGCAAAATAGCATCATACCCGGTCTCTTTTCTCTCGGGCATGTTCAAGTGTGTTGGCCCTGTTGG
TTGCATTGTTTATCCAGAACATACCAATCTGCACTGAGGAGTTCCTCATGGAGAAAGCACTGTGGGTC
CCATAGTCATCCACACAATACCCAGGCACCTGGCGAGGCCAAGGAGCCCTTGCTTCAGGACCAACGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224187 representing NM_033055
Red=Cloning site Green=Tags(s)

MTQGGKKKRAANRSIMLAKKIIKDGSTPQGIGSPSVYHAVIVIFLEFFAWGLLTAPTLVVLHETFPKHT
FLMNGLIQGVKGLLSFLSAPLIGALSDVWGRKSFLLLTVFFTCAPILMKISPWYFAVISVSGVFAVTF
SVVFAYVADITQEHERSMAYGLYSATFAASLVTSPAIGAYLGRVYGDSL VVVLATAIALLDICFILVAVP
ESLPEKMRPASWGAPISWEQADPFASLKKVGQDSIVLLICITVFLSYLPEAGQYSSFFLYLRQIMKFSPE
SVAAFIAVLGILSIIAQTI VLSLLMRSIGNKNTILLGLGFQILQLAWYGFSEPMWMAAGAVAAMSSIT
FPAVSALVSRTADADQQGVVQGMITGIRGLCNGLGPALYGFIFYIFHVELKELPITGDLGTNTSPQHFF
EQNSIIPGPPFLFGACSVLLALLVALFIPHTNLSLRSSSWRKHCGRSHPHNTQAPGEAKEPLLQDTNV

TRTRPLE**QKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033055

ORF Size: 1470 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

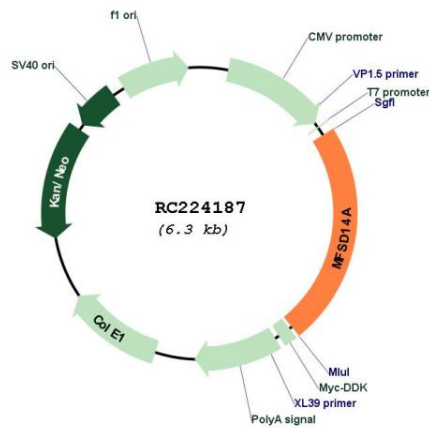
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_033055.2</u> , <u>NP_149044.2</u>
RefSeq Size:	2779 bp
RefSeq ORF:	1473 bp
Locus ID:	64645
UniProt ID:	<u>Q96MC6</u>
Cytogenetics:	1p21.2
Protein Families:	Transmembrane
MW:	53 kDa

Product images:



Circular map for RC224187