

Product datasheet for **RC200845**

HRP2 (HDGFRP2) (NM_001001520) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HRP2 (HDGFRP2) (NM_001001520) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HRP2
Synonyms:	HDGF-2; HDGF2; HDGFRP2; HRP-2; HRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC200845 representing NM_001001520
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCACACGCCCTCAAGCCCGGGGACTTGGTGTTCGCTAAGATGAAGGGCTACCCTCACTGGCCTGCCA
GGATCGACGACATCGCGGATGGCGCCGTGAAGCCCCACCAACAAGTACCCCATTTTTCTTTGGCAC
ACACGAAACAGCCTTCTGGGACCAAGGACTGTTCCCTACGACAAATGTAAGACAAGTACGGGAAG
CCCAACAAGAGGAAAGGCTTCAATGAAGGGCTGTGGGAGATCCAGAACAACCCACGCCAGCTACAGCG
CCCCTCCGCCAGTGAGCTCCTCCGACAGCGAGGCCCGAGGCCAACCCCGCCGACGGCAGTGACGCTGA
CGAGGACGATGAGGACCGGGGGTTCATGGCCGTACAGCGGTAACCGCCACAGCTGCCAGCGACAGGATG
GAGAGCGACTCAGACTCAGACAAGAGTAGCGACAACAGTGGCCTGAAGAGGAAGACGCCTGCGCTAAGA
TGTCGGTCTCGAAACGAGCCGAAAGGCCTCCAGCGACCTGGATCAGGCCAGCGTGTCCCATCCGAAGA
GGAGAACTCGAAAGCTCATCTGAGTCGGAGAAGACCAGCGACCAGGACTTCACACTGAGAAGAAAGCA
GCGGTCCGGGCGCCACGGAGGGGCCCTCTGGGGGACGGAAGAAAAAGAGGCGCGTACGCTCCGACT
CCGACTCCAAGGCCGATTTCGGACGGGGCAAGCCTGAGCCGGTGGCCATGGCGCGGTCCGGCTCCTCCTC
CTCCTTCTCCTCCTCCTCCGACTCCGATGTGTCTGTGAAGAAGCCTCCGAGGGGCGAGGAAGCCAGCG
GAGAAGCCTCTCCGAAGCCGCGAGGGCGGAAACCGAAGCCTGAACGGCCTCCGTCCAGCTCCAGCAGTG
ACAGTGACAGCGACGAGGTGGACCCGATCAGTGAGTGAAGCGGGCGGACGAGGGCGGGAGGGCGGAGCT
GGAGGCCCGGGCGGCGGAGAGCAGGAGGAGGAGCTGCGGCGCTGCGGGAGCAGGAGAAGGAGGAGAAG
GAGCGGAGGCGGAGCGGGCCGACCGGGGAGGCTGAGCGGGCAGCGGGCAGCAGCGGGGACGAGCTC
TCAGGGAGGACGATGAGCCGTCAAGAAGCGGGGACCAAGGGCCGGGGCCGGGTCCCCGTCTCCTC
TGACTCCGAGCCGAGCCGAGCTGGAGAGAGAGGCCAAGAAATCAGCGAAGAAGCCGAGTCTCAAGC
ACAGAGCCCGCCAGGAAACCTGGCCAGAAGGAGAAGAGAGTGCAGCCGAGGAGAAGCAACAAGCCAAGC
CCGTGAAGGTGGAGCGGACCCGGAAGCGGTCCGAGGGCTTCTCGATGGACAGGAAGGTAGAGAAGAAGAA
AGAGCCCTCCGTGGAGGAGAAGCTGCAGAAGCTGCACAGTGAGATCAAGTTTGCCTAAAGGTGACAGC
CCGGACGTGAAGAGGTGCCTGAATGCCCTAGAGGAGCTGGGAACCCTGCAGGTGACCTCTCAGATCCTCC
AGAAGAACACAGACGTGGTGGCCACCTTGAAGAAGATTCGCCGTTACAAAGCGAACAAGGACGTAATGGA
GAAGGCAGCAGAAGTCTATACCCGGCTCAAGTCGCGGTCTCCGCCAAAGATCGAGGCGGTGCAGAAA
GTGAACAAGGCTGGGATGGAGAAGGAGAAGGCCGAGGAGAAGCTGGCCGGGAGGAGCTGGCCGGGAGG
AGGCCCCCAGGAGAAGGCGGAGGACAAGCCAGCACCGATCTCTCAGCCCCAGTGAATGGCGAGGCCAC
ATCACAGAAGGGGAGAGCGCAGAGGACAAGGAGCACGAGGAGGGTGGGACTCGGAGGAGGGGCAAGG
TGTGGCTCCTCTGAAGACCTGCACGACAGCGTACGGGAGGGTCCCAGCTGGACAGGCCTGGGAGCGACC
GGCAGGAGCGGAGAGGGCACGGGGGACTCGGAGGCCCTGGACGAGGAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200845 representing NM_001001520
 Red=Cloning site Green=Tags(s)

MPHAFKPGDLVFAKMKGYPHWPARIIDDIADGAVKPPPNKYPIFFFGTHETAFLGPKDLFPYDKCKDKYGGK
 PNKRKGFNEGLWEIQNNPHASYSAPPPVSSSDSEAPEANPADGSDADEDEDGRGMAVAVTATAASDRM
 ESDSDSKSSDNSGLKRKTPALKMSVSKRARKASSDLQASVSPSEEENSESSSESEKTSQDFTPEKKA
 AVRAPRRGPLGGRKKKKAPSASDSDSKADSDGAKPEPVAMARSASSSSSSSSSDVSVKPPRGRKPA
 EKPLPKPRGRKPKPERPPSSSSSDSDSDEVDRISEWKRRDEARRRELEARRRREQEELRRLREQEKEEK
 ERRRERADRGEAERGGSSGDELREDDEPVKKRGRKGRGPPSSSDSEPEAELEREAKKSAKKPQSSS
 TEPARKPGQKEKRVPEEKQQAQKPVKVERTRKRSEGFSDMRKVEKKKEPSVEEKLQKLHSEIKFALKVDS
 PDVKRCLNALEELGTLQVTSQILQKNTDVVATLKKIRRYKANKDVMEKAAEVYTRLKSRVLGPKIEAVQK
 VNKAGMEKEKAEKLAGEEELAGEEAPQEKAEKDPSTDLAPVNGEATSQKGEKSAEDKEHEEGRDSEEGPR
 CGSSEDLHDSVREGPDLDRPGSDRQERERARGDSEALDEES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4332_f10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001520

ORF Size: 2013 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_001001520.3](#)

RefSeq Size: 2344 bp

RefSeq ORF: 2016 bp

Locus ID: 84717

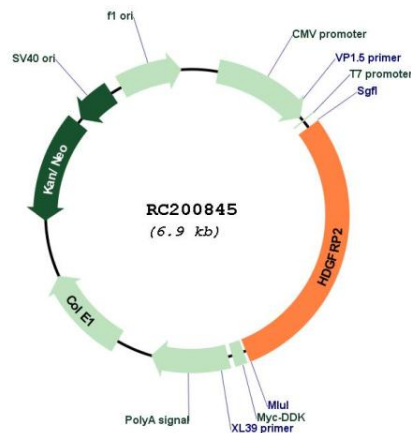
UniProt ID: [Q7Z4V5](#)

Cytogenetics: 19p13.3

MW: 74.1 kDa

Gene Summary: This gene encodes a member of the hepatoma-derived growth factor (HDGF) family. The protein includes an N-terminal PWWP domain that binds to methyl-lysine-containing histones, with specific binding of this protein to tri-methylated lysines 36 and 79 of histone H3, and di- and tri-methylated lysine 20 of histone H4. The protein functions in LEDGF/p75-independent HIV-1 replication by determining HIV-1 integration site selection. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC200845