

Product datasheet for **RG200845**

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: | TurboGFP |
| Symbol: | HDGFL2 |
| Synonyms: | HDGF-2; HDGF2; HDGFRP2; HRP-2; HRP2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>RG200845 representing NM_001001520
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCACACGCCCTTCAAGCCCGGGGACTTGGTGTTCGCTAAGATGAAGGGCTACCCTCACTGGCCTGCCA
GGATCGACGACATCGCGGATGGCCCGTGGAAGCCCCACCCAACAAGTACCCCATCTTTTCTTTGGCAC
ACACGAAACAGCCTTCTGGGACCCAAGGACTGTCCCTACGACAAATGTAAAGACAAGTACGGGAAG
CCCAACAAGAGGAAAGGCTTCAATGAAGGGCTGTGGGAGATCCAGAACAACCCACGCCAGCTACAGCG
CCCCTCCGCCAGTGAGCTCCTCCGACAGCGAGGCCCCGAGGCCAACCCCGCCGACGGCAGTGACGTGA
CGAGGACGATGAGGACCGGGGGTTCATGGCCGTACAGCGGTAACCGCCACAGCTGCCAGCGACAGGATG
GAGAGCGACTCAGACTCAGACAAGAGTAGCGACAACAGTGGCCTGAAGAGGAAGACGCCTGCGCTAAGA
TGTCGGTCTCGAAACGAGCCGAAAGGCCTCCAGCGACCTGGATCAGGCCAGCGTGTCCCATCCGAAGA
GGAGAACTCGAAAGCTCATCTGAGTCGGAGAAGACCAGCGACCAGGACTTCACACTGAGAAGAAAGCA
GCGGTCCGGGCGCCACGGAGGGGCCCTCTGGGGGACGGAAGGCGCGCTCAGCCTCCGACT
CCGACTCCAAGGCCGATTTCGGACGGGGCAAGCCTGAGCCGGTGGCCATGGCGGGTCCGGCTCCTCCTC
CTCCTTCTCCTCCTCCTCCGACTCCGATGTGTCTGTGAAGAAGCCTCCGAGGGGCAGGAAGCCAGCG
GAGAAGCCTCTCCGAAGCCGCGAGGGCGGAAACCGAAGCCTGAACGGCCTCCGTCCAGCTCCAGCAGTG
ACAGTGACAGCGACGAGGTGGACCCGATCAGTGAGTGAAGCGGGGAGCAGAGCCGGAGGGCGCGAGCT
GGAGGCCCGGGCGGCGGAGAGCAGGAGGAGGAGCTGCGGCCCTGCGGGAGCAGGAGAAGGAGGAGAAG
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TCAGGGAGGACGATGAGCCCGTCAAGAAGCGGGGACGCAAGGGCCGGGGCCGGGTCCCGCTCCTCCTC
TGACTCCGAGCCGAGCCGAGCTGGAGAGAGAGGCCAAGAAATCAGCGAAGAAGCCGAGTCCTCAAGC
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AGAAGAACACAGACGTGGTGGCCACCTTGAAGAAGATTCGCCGTTACAAAGCGAACAAGGACGTAATGGA
GAAGGCAGCAGAAGTCTATACCCGGCTCAAGTCGCGGGTCTCGGCCAAAGATCGAGGGGTGCAGAAA
GTGAACAAGGCTGGGATGGAGAAGGAGAAGGCCGAGGAGAAGCTGGCCGGGGAGGAGCTGGCCGGGGAGG
AGGCCCCCGAGGAGAAGCGGAGGACAAGCCAGCACCGATCTCTCAGCCCAAGTGAATGGCGAGGCCAC
ATCACAGAAGGGGAGAGCGCAGAGGACAAGGAGCACGAGGAGGGTGGGACTCGGAGGAGGGGCAAGG
TGTGGCTCCTCTGAAGACCTGCACGACGTACGGGAGGGTCCCGACCTGGACAGGCCCTGGAGCGACCCGG
AGGAGCGCGAGAGGGACGGGGGACTCGGAGGCCCTGGACGAGGAGAGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG200845 representing NM_001001520
 Red=Cloning site Green=Tags(s)

MPHAFKPGDLVFAKMKGYPHWPARIIDDIADGAVKPPPKNKYPIFFFGTHETAFLGPKDLFPYDKCKDKYK
 PNKRKGFNEGLWEIQNNPHASYSAPPPVSSSDSEAPEANPADGSDADEDEDDEDRGVMVAVTATAASDRM
 ESDSDSDKSSDNSGLKRKTPALKMSVSKRARKASSDLQASVSPSEEENSESSSESEKTSQDFTPEKKA
 AVRAPRRGPLGGRKKKKAPSASDSDSKADSDGAKPEPVAMARSASSSSSSSSSDSDVSVKPPRGRKPA
 EKPLPKPRGRKPKPERPPSSSSSDSDSEVDRISEWKRDEARRRELEARRRREQEELRRLREQEKEEK
 ERRRERADRGEAERGGSSGDELREDDEPVKKRGRKGRGPPSSSDSEPEAELEAKKSARKKQSSS
 TEPARKPGQKEKRVRPEEKQAKPVKVERTRKRSEGFSDMRKVEKKKEPSVEEKLQKLHSEIKFALKVDS
 PDVKRCLNALEELGTLQVTSQILQKNTDVVATLKKIRRYKANKDVKMEAAEVYTRLKSRVLGPKIEAVQK
 VNKAGMEKEKAEKLAGEEELAGEEAPQEKAEDKPSTDLAPVNGEATSQKGEAEDKEHEEGRDSEEGPR
 CGSSEDLHDVREGPDLDRPGSDRQERERARGDSEALDEES

TRTRPLE - GFP Tag - V

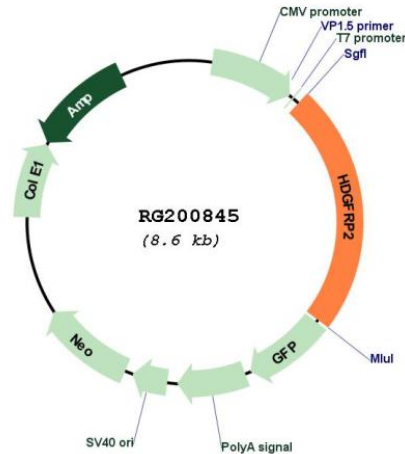
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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_001001520.1](#), [NP_001001520.1](#)

RefSeq Size: 2344 bp

RefSeq ORF: 2016 bp

Locus ID: 84717

UniProt ID: [Q7Z4V5](#)

Cytogenetics: 19p13.3

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]