

Product datasheet for **MR209970**

Hdgfrp2 (BC003741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hdgfrp2 (BC003741) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hdgfrp2
Synonyms:	HRP-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209970 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGCACGCCCTCAAGCCCGGGGACTTGGTGTGGCCAAAGATGAAGGGCTACCCGCACCTGGCCGCCCC
 GGATTGATGACATTGCTGATGGTGCCGTGAAGCCCCACCCAACAAATACCCCATCTTCTTTTGGAAC
 GCATGAAACGGCCTTCCTGGGACCCAAGGACCTGTTCCCTATGATAAGTGCAAGGACAAGTACGGAAAG
 CCCAACAAAGAGAAAGGCTTCAATGAGGGGCTCTGGGAGATCCAGAACAACCCCATGCCAGCTACAGTG
 CGCCTCCGCCGTGAGCTCCTCTGACAGTGAGGCCCTGAAGCCGACCTGGGTTGTGGCAGCGACGTGGA
 CAAGGACAAGAATCCCGGAGGGTCATGACTGTGACAGCTGTGACCACCACAGCCACCAGTGACAGGATG
 GAGAGCGATTCTGACTCTGACAAGAGCAGTGATCACAGTGGCCTGAAGCGGAAGACACCAGTCTTGAAGG
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 GGACTCTGAGAGCCCATCTGAGTCGGAGAAGACCAGTGACCAGGATTTTACCCAGAGAAGAAGACAGCG
 GCCCGGCCGCCACGGCGAGGTCCTCTGGGAGGACGCAAGAAGAAGCACCCCACTGGCTATGCCTGTCCCC
 AGAAGGTGCCATCAGCCTCGGATTCAGACTCCAAAGCCGACTCAGATGGGGCCAAGGAGGAGCCTGTGGT
 TACAGCACAGCCGTCTCCATCCTCCTCGTCGTCGTCCTCATCATCCTCCTCAGACTCAGATGTGTCT
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 CACACCATCCTCCTCTGACTCAGAACCTGAGGGGAGCTTGGGAAAGAGGGGAAGAAGTTGGCCAAGAAG
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 CTGAAGGTTGACAACCCAGATGTGAGGAAGTGTCTGAGTGCACTGGAAGAAGTGGGGACTCTGCAGGTAA
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 AGCCGGGGGAGCAGGCTCCAGAGAGCTGGCAGAGGATGAGCCAGCACCAGTCCGTCAGCACCTGTGAA
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 GATGGCCCCAGGGGTGGCTCCTCAGAAGAGCTGCATGACAGCCCACGCGCAACTCGGACCCAGCCAAGC
 CTGGAAATGAGCGTCAGGACCATGAGAGGACACGGCTGGCCTCTGAGTCTGCCAATGATGACAATGAGGA
 CAGC

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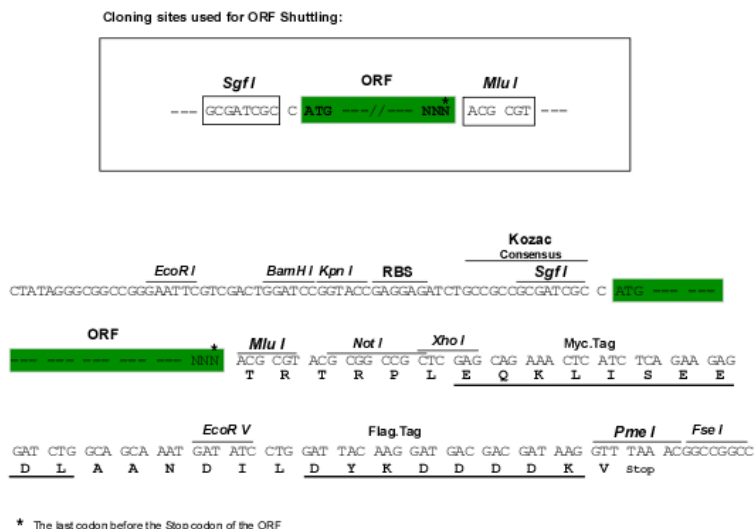
Protein Sequence: >MR209970 protein sequence
Red=Cloning site Green=Tags(s)

MPHAFKPGDLVFAKMKGYPHWPARIIDDIADGAVKPPPKNKYPIFFFGTHETAFLGPKDLFPYDKCKDKYKG
 PNKRKGFNEGLWEIQNNPHASYSAPPPVSSDSEAPEADLGCSDVDKDESRRVMTVTAVTTTATSDRM
 ESDSDSDKSSDHSGLKRKTPVLKVSVSKRARRASSDLQASVSPSEEDSESPSEKTSQDFTPPEKTA
 ARPPRRGPLGGRKKKHTGYACPQKVPASDSDSKADSDGAKEEPVVTAQPSPPSSSSSSSSSSSDSDVS
 VKKPPRGRKPAEKPPPKPRGRRPKPERPPSTSSSDSDSGEVDRISEWKRRDEERRRELEARRREQEE
 ELRRLREQEREKERKERAERGGSSGELEDEEPPVKRSRKARGRGTSSSDSEPEGELGKEGKKLAKK
 SQLPGSESARKPGQKEKGRPDEKPRARPVKVERTKRSEGLSLERKGEKKKEPSVEERLQKLHSEIKFA
 LKVDNPDVRKCLSAL EELGTLQVTSQILQKNTD VVATLKKIRRYKANKDVMAKAAEVYTRLKSRVLGPKV
 EALQKVNKAGAEKERADNEKLEEQPGEQAPRELADEPSTDRSAPVNGEATSQKGENMEDRAQEDGGQDSE
 DGPRGGSSEELHDSPRDNDPAKPGNERQDHERTRLASESANDDNEDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC003741

ORF Size: 2034 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: [BC003741](#), [AAH03741](#)

RefSeq Size: 2249 bp

RefSeq ORF: 2036 bp

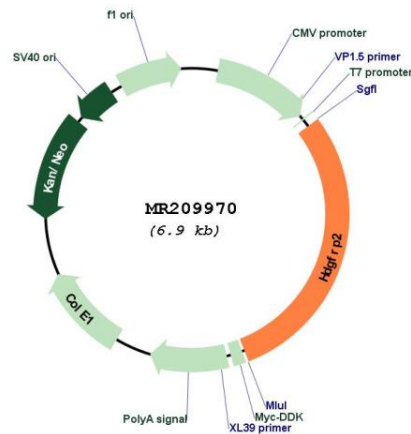
Locus ID: 15193

Cytogenetics: 17 D

MW: 75.2 kDa

Gene Summary: Involved in cellular growth control, through the regulation of cyclin D1 expression (By similarity). Associates with chromatin. Isoform 1 and isoform 3 bind to condensed chromatin in mitotic cells. Isoform 4 binds to non-condensed chromatin in the presence of HDGF. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209970