

Product datasheet for **RC225291**

HDGF (NM_001126051) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HDGF (NM_001126051) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HDGF
Synonyms: HMG1L2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC225291 representing NM_001126051
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCAGAGGGCAGGCGGAAACCGTGTACAGACGTCCACACTTAAGTGCCTGGGGCCGCGGTATTG
ACGAGATGCCTGAGGCTGCCGTGAAATCAACAGCCAACAATACCAAGTCTTTTTTTTCGGGACCCACGA
GACGGCATTCTGGGCCCAAAGACCTCTCCCTTACGAGGAATCCAAGGAGAAGTTGGCAAGCCCAAC
AAGAGGAAAGGTTTCAGCGAGGGGCTGTGGGAGATCGAGAACAACCTACTGTCAAGGCTTCCGGCTATC
AGTCTCCAGAAAAAGAGCTGTGTGGAAGAGCCTGAACCAGAGCCGAAGCTGCAGAGGGTGACGGTGA
TAAGAAGGGGAATGCAGAGGGCAGCAGCGACGAGGAAGGGAAGCTGGTCATTGATGAGCCAGCCAAGGAG
AAGAACGAGAAAGGAGCGTTGAAGAGGAGAGCAGGGGACTTGCTGGAGGACTCTCCTAAACGTCCCAAGG
AGGCAGAAAACCTGAAGGAGAGGAGAAGGAGGCAGCCACCTTGAGGTTGAGAGGCCCTTCTATGGA
GGTGGAAAAGAAATAGCACCCCTCTGAGCCCGGCTCTGGCCGGGGCCTCCCAAGAGGAAGAAGAAGAG
GAGGATGAAGAGGAAGAGGCTACCAAGGAAGATGCTGAGGCCCGAGGCATCAGAGATCATGAGAGCCTG

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC225291 representing NM_001126051
Red=Cloning site Green=Tags(s)

MEQRAGGNRVQTSTLNCAGAAVIDEMPEAAVKSTANKYQVFFFGTHETAFLGPKDLFPYEESKEKFGKPN
 KRKGFSEGLWEIENNPTVKASGYSSQKKSCVEEPEPEPEAAEGDGKKNAEGSSDEEGKLVIDEPAKE
 KNEKGALKRRAGDILLEDSPKRPKEAENPEGEEKEAATLEVERPLPMEVEKNSTPSEPGSGRGPPQEEEE
 EDEEEATKEDAEAPGIRDHESL

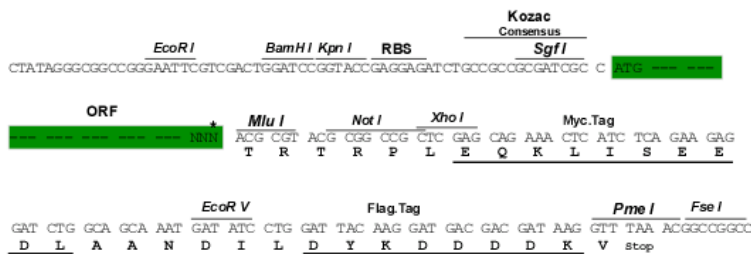
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1475_g02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001126051

ORF Size: 699 bp

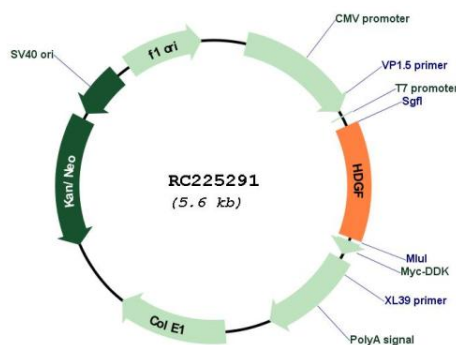
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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](#)

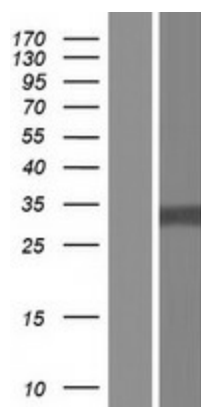
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none"> 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_001126051.1</u> , <u>NP_001119523.1</u>
RefSeq ORF:	702 bp
Locus ID:	3068
UniProt ID:	<u>P51858</u>
Cytogenetics:	1q23.1
MW:	25.4 kDa
Gene Summary:	This gene encodes a member of the hepatoma-derived growth factor family. The encoded protein has mitogenic and DNA-binding activity and may play a role in cellular proliferation and differentiation. High levels of expression of this gene enhance the growth of many tumors. This gene was thought initially to be located on chromosome X; however, that location has been determined to correspond to a related pseudogene. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jan 2016]

Product images:



Circular map for RC225291



Western blot validation of overexpression lysate (Cat# [LY426633]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225291 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).