

Product datasheet for **RC223533**

HGF (NM_001010932) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HGF (NM_001010932) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HGF
Synonyms:	DFNB39; F-TCF; HGFB; HPTA; SF
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC223533 representing NM_001010932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCTGCAGCATGTCCTCCTGCATCTCCTCCTGCTCCCCA
 TCGCCATCCCCTATGCAGAGGGACAAAGGAAAAGAAGAAATACAATTCATGAATTCAAAAATCAGCAAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC223533 representing NM_001010932
 Red=Cloning site Green=Tags(s)

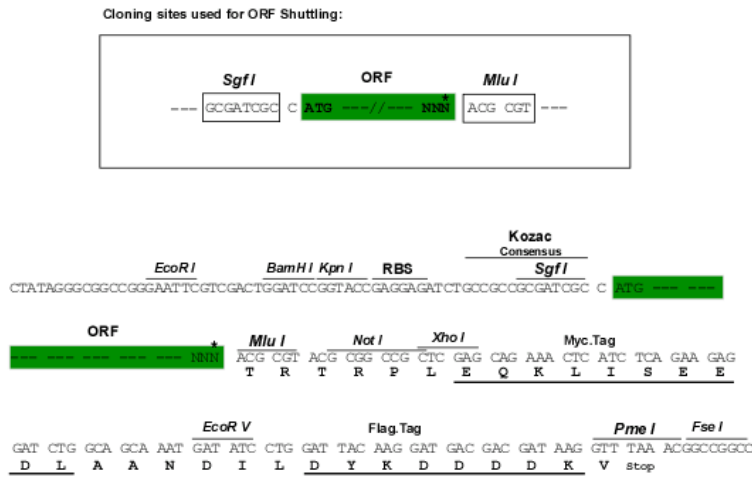
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 GESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFDDNYCRNPDGQPRPWCYTLDPHTRWEYCAI
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 NPDGSESPWCFTTDPNIRVGYSQIPNCDMSHGQDCYRNGNKNYMGNLSQTRSGLTCSMWDKNMEDLHRH
 IFWEPDASKLNENYCRNPDHAGPWCYTGNPLIPWDYCPISRCEGDTTPTIVNLDHPVISC AKTKQLRV
 VNGIPTRTNIGWMVSLRYRNKHC GGS L IKESWVLTARQC FPSRDLKDYEAWLGIHDVHGRGDEKCKQVL
 NVSQLVYGPEGSDLVLMKLARPAVLDDFVSTIDL PNYGCTIPEKTS CSVYGWYTG L INYDGLLRVAHLY
 IMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGPLVCEQHMRMVLGVIVPGRGCAIPNRPGI
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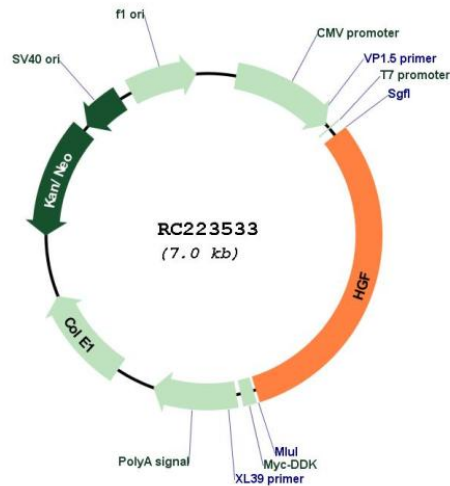
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001010932

ORF Size: 2169 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_001010932.3](#)

RefSeq Size: 2805 bp

RefSeq ORF: 2172 bp

Locus ID:	3082
UniProt ID:	P14210
Cytogenetics:	7q21.11
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma
MW:	82.6 kDa

Gene Summary: This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss. [provided by RefSeq, Nov 2015]