

Product datasheet for **RG215593**

HGF (NM_000601) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HGF (NM_000601) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HGF
Synonyms:	DFNB39; F-TCF; HGFB; HPTA; SF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215593 representing NM_000601
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCTGCAGCATGTCCTCCTGCATCTCCTCCTGCTCCCCA
 TCGCCATCCCCTATGCAGAGGGACAAAGGAAAAGAAGAAATACAATTCATGAATTCAAAAATCAGCAAA
 GACTACCCTAATCAAAATAGATCCAGCACTGAAGATAAAAAACAAAAAGTGAATACTGCAGACCAATGT
 GCTAATAGATGTACTAGGAATAAAGGACTTCCATTCACTTGCAAGGCTTTTGTGTTTTGATAAAGCAAGAA
 AACAAATGCCTCTGGTTCCCCTTCAATAGCATGTCAAGTGGAGTGAAAAAGAATTTGGCCATGAATTTGA
 CCTCTATGAAAACAAAGACTACATTAGAACTGCATCATTGGTAAAGGACGCAGCTACAAGGGAACAGTA
 TCTATCACTAAGAGTGGCATCAAATGTCAGCCCTGGAGTCCATGATACACACGAACACAGCTTTTTGC
 CTTGAGCTATCGGGTAAAGACCTACAGGAACTACTGTGAAATCCTCGAGGGGAAGAAGGGGGACC
 CTGGTGTTCACAAGCAATCCAGAGGTACGCTACGAAGTCTGTGACATTCCTCAGTGTTCCAGAAGTTGAA
 TGATGACCTGCAATGGGGAGAGTTATCGAGGTCTCATGGATCATACAGAATCAGGCAAGATTTGTGAGC
 GCTGGGATCATCAGACCCACACCGGCACAAATCTTGCCTGAAAGATATCCCGACAAGGCTTTGATGA
 TAATTATTGCCGAATCCCGATGGCCAGCCGAGGCCATGGTGCTATACTCTTGACCCTCACACCCGCTGG
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 GAAAATTAAGTCCGAAATCCAGATGGGTCTGAATCACCCTGGTGTGTTTACCACTGATCCAACATCCGAG
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 AAACAATTGCGAGTTGTAATGGGATTCACACGAACAACATAGGATGGATGGTTAGTTTGGATACA
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 TTCTCGAGACTTGAAAGATTATGAAGCTTGGCTTGGAAATTCATGATGTCCACGGAAGAGGAGATGAGAAA
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 TTGCCAGGCTGCTGCTCGGATGATTTTGTAGTACGATTGATTACCTAATTATGGATGCACAATTCC
 TGAAAAGACCAGTTGCAGTGTGTTATGGCTGGGGTACACTGGATTGATCAACTATGATGGCCTATTACGA
 GTGGCACATCTCTATAATGGGAAATGAGAAATGCAGCCAGCATCATCGAGGGAAGGTGACTCTGAATG
 AGTCTGAAATATGTGCTGGGGCTGAAAAGATTGGATCAGGACCATGTGAGGGGGATTATGGTGGCCCACT
 TGTTTGTGAGCAACATAAAATGAGAAATGGTCTTGGTGTGATTGTTCTGGTCTGGATGTGCCATTCCA
 AATCGTCTGGTATTTTGTCCGAGTAGCATATTATGCAAATGGATACACAAAATATTTTAAACATATA
 AGGTACCACAGTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG215593 representing NM_000601
 Red=Cloning site Green=Tags(s)

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MWVTKLLPALLLQHVLLHLLLLPIAIPYAEGQRKRRNTIHEFKKSAKTTLIKIDPALKIKTKKVNTADQC
ANRCTRNGKLPFTCKAFVFDKARKQCLWFPFNSMSSGVKKEFGHEFDLYENKDYIRNCIIGKGRSYKGTV
SITKSGIKCQPWSSMIPHEHSFLPSSYRQKDLQENYCRNPRGEEGGPWCFSTSNPEVRYEVDIPQCSEVE
CMTCNGESYRGLMDHTESGKICQRWDHQTPHRHKFLPERYPDKGFDDNYCRNPDGQPRPWCYTLDPHTRW
EYCAIKTCADNTMNDTDVPLETTECIQGGEGYRGTVNTIWNIGIPCQRWDSQYPHEHDMTPENFKCKDLR
ENYCRNPDGSESPWCFTTDPNIRVGYSQIPNCDMSHGQDCYRGNKNYMGNLSQTRSLTCSMWDKNME
DLHRHIFWEPDASKLNENYCRNPDHAGHPWCYTGNPLIPWDYCPISRCEGDTTPTIVNLDHPVISC AKT
KQLRVVNGIPTRTNIGWVSLRYRNKHC GGS LIKESWVLTARQC FPSRDLKDYEAWLGIHDVHGRGDEK
CKQVLNVSQLVYGPESDLVLMKLARPAVLDDFVSTIDL PNYGCTIPEKTS CSVYGWG YTG L INYDGLLR
VAHLYIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGPLVCEQHMRMVLGVI VPGRGAIP
NRPGIFVRVAYYAKWIIHKIILTYKVPQS
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



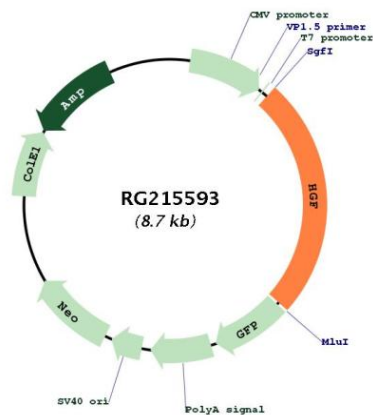
ACCN: NM_000601

ORF Size: 2184 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_000601.6
RefSeq Size:	2820 bp
RefSeq ORF:	2187 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

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]

Product images:

Circular map for RG215593