

## Product datasheet for **SC301539**

### HGF (NM\_001010932) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HGF (NM_001010932) Human Untagged Clone
Tag:	Tag Free
Symbol:	HGF
Synonyms:	DFNB39; F-TCF; HGFB; HPTA; SF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001010932 edited  
AACAGGATTCTTTACCCAGGCATCTCCTCCAGAGGGATCCGCCAGCCCGTCCAGCAGCA  
CCATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCTGCAGCATGTCCTCCTGCATCTCC  
TCCTGCTCCCCATCGCCATCCCCATGCAGAGGGACAAAGGAAAAGAAGAAATACAATTC  
ATGAATTCAAAAATCAGCAAAGACTACCTAATCAAAATAGATCCAGCACTGAAGATAA  
AAACAAAAAAGTGAATACTGCAGACCAATGTGCTAATAGATGTACTAGGAATAAAGGAC  
TTCCATTCACCTTGAAGGCTTTTGTGTTTGTATAAAGCAAGAAAACAATGCCTCTGGTTCC  
CCTTCAATAGCATGTCAAGTGGAGTGAAAAAGAATTTGGCCATGAATTTGACCTCTATG  
AAAACAAAGACTACATTAGAAACTGCATCATTGGTAAAGGACGCAGCTACAAGGGAACAG  
TATCTATCACTAAGAGTGGCATCAAATGTCAGCCCTGGAGTTCCATGATACACACGAAC  
ACAGCTATCGGGGTAAAGACCTACAGGAAAACACTGTGCGAAATCCTCGAGGGGAAGAAG  
GGGGACCTGGTGTTCACAAGCAATCCAGAGGTACGCTACGAAGTCTGTGACATTCTC  
AGTGTTCAGAAGTTGAATGCATGACCTGCAATGGGGAGAGTTATCGAGGTCTCATGGATC  
ATACAGAATCAGGCAAGATTTGTCAGCGCTGGGATCATCAGACACCACACCGGCACAAAT  
TCTTGCCTGAAAGATATCCCACAAGGGCTTTGATGATAATTATTGCCGCAATCCCGATG  
GCCAGCCGAGGCCATGGTGTACTCTTGACCCTCACACCCGCTGGGAGTACTGTGCAA  
TTAAAACATGCGCTGACAATACTATGAATGACACTGATGTTCTTTGAAAACAACGAAT  
GCATCAAAGTCAAGGAGAAGGCTACAGGGGCACTGTCAATACCATTTGGAATGGAATTC  
CATGTCAGCGTTGGGATTCTCAGTATCCTCACGAGCATGACATGACTCCTGAAAATTTCA  
AGTGCAAGGACCTACGAGAAAATTAAGTCCGCAATCCAGATGGGTCTGAATCACCTGGT  
GTTTTACCACTGATCCAAACATCCGAGTTGGCTACTGCTCCCAAATTCAAAACCTGTGATA  
TGTCACATGGACAAGATTGTTATCGTGGGAATGGCAAAAATTAATGGGCAACTTATCCC  
AAACAAGATCTGGACTAACATGTTCAATGTGGGACAAGAACATGGAAGACTTACATCGTC  
ATATCTTCTGGGAACCAGATGCAAGTAAGCTGAATGAGAATTACTGCCGAAATCCAGATG  
ATGATGCTCATGGACCCTGGTGTACACGGGAAATCCACTCATTCTTGGGATTATTGCC  
CTATTTCTCGTTGTGAAGGTGATACCACACCTACAATAGTCAATTTAGACCATCCCATAA  
TATCTTGTGCCAAAACGAAACAATTGCGAGTTGTAATGGGATTCCAACACGAACAAACA  
TAGGATGGATGGTTAGTTTGTAGATACAGAAATAAACATATCTGCGGAGGATCATTGATAA  
AGGAGAGTTGGTTCTTACTGCACGACAGTGTTCCTTCTCGAGACTTGAAAGATTATG  
AAGCTTGGCTTGAATTCATGATGTCCACGGAAGAGGAGATGAGAAATGCAAACAGGTTT  
TCAATGTTTCCCAGCTGGTATATGGCCCTGAAGGATCAGATCTGGTTTTAATGAAGCTTG  
CCAGGCCTGCTGCTGGATGATTTTGTAGTACGATTGATTTACCTAATTATGGATGCA  
CAATTCCTGAAAAGACCAGTTGCAGTGTATGGCTGGGGCTACACTGGATTGATCAACT  
ATGATGGCCTATTACGAGTGGCAGATCTCTATATAATGGGAAATGAGAAATGCAGCCAGC  
ATCATCGAGGGAAGGTGACTCTGAATGAGTCTGAAATATGTGCTGGGGCTGAAAAGATTG  
GATCAGGACCATGTGAGGGGGATTATGGTGGCCCACTGTTTGTGAGCAACATAAAATGA  
GAATGGTTCTTGGTGTGATTGTTCTGGTGGTGGATGTGCCATTCCAATCGCTCTGGTA  
TTTTGTCCGAGTAGCATATTATGCAAAATGGATACACAAAATTTTAAACATATAAGG  
TACCACAGTCATAGCTGAAGTAAGTGTGTCTGAAGCACCACC

**Restriction Sites:** Please inquire

**ACCN:** NM\_001010932

**Insert Size:** 2300 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM\_001010932.1.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001010932.1</a></u> , <u><a href="#">NP_001010932.1</a></u>
<b>RefSeq Size:</b>	2805 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	3082
<b>UniProt ID:</b>	<u><a href="#">P14210</a></u>
<b>Cytogenetics:</b>	7q21.11
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Protease, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Focal adhesion, Melanoma, Pathways in cancer, Renal cell carcinoma
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The encoded isoform (3) lacks a portion of the alpha chain and is shorter compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>