

## Product datasheet for **SC301540**

### HGF (NM\_001010933) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** HGF (NM\_001010933) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** HGF  
**Synonyms:** DFNB39; F-TCF; HGFb; HPTA; SF  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001010933 edited  
ATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCTGCAGCATGTCCTCCTGCATCTCCTC  
CTGCTCCCATCGCCATCCCCTATGCAGAGGGACAAAGGAAAAGAAGAAATACAATTCAT  
GAATTCAAAAATCAGCAAAGACTACCCTAATCAAAATAGATCCAGCACTGAAGATAAAA  
ACCAAAAAAGTGAATACTGCAGACCAATGTGCTAATAGATGTAAGTAAGGACTT  
CCATTCACCTTGCAAGGCTTTTGTGTTTGTATAAAGCAAGAAAACAATGCCTCTGGTCCCC  
TTCAATAGCATGTCAAGTGGAGTGAAAAAGAATTTGGCCATGAATTTGACCTCTATGAA  
AACAAAGACTACATTAGAACTGCATCATTGGTAAAGGACGCAGCTACAAGGGAACAGTA  
TCTATCACTAAGAGTGGCATCAAATGTCAGCCCTGGAGTCCATGATACACACGAACAC  
AGCTATCGGGTAAAGACCTACAGGAAACTACTGTGCAATCCTCGAGGGGAAGAAGGG  
GGACCCTGGTGTTCACAAGCAATCCAGAGGTACGCTACGAAGTCTGTGACATTCCTCAG  
TGTTCAGAAGTTGAATGCATGACCTGCAATGGGGAGAGTTATCGAGGTCTCATGGATCAT  
ACAGAATCAGGCAAGATTTGTCAGCGCTGGGATCATCAGACACCACCCGGCACAATTC  
TTGCTGAAAGATATCCCGACAAGGGCTTTGATGATAATTATTGCCGCAATCCCGATGGC  
CAGCCGAGGCCATGGTGCTATACTTTGACCCTCACACCCGCTGGGAGTACTGTGCAATT  
AAAACATGCGAGACATAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001010933

**Insert Size:** 900 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).



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<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001010933.1.
<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_001010933.1</a></u> , <u><a href="#">NP_001010933.1</a></u>
<b>RefSeq Size:</b>	1292 bp
<b>RefSeq ORF:</b>	858 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, tumorogenesis, 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 (4) lacks an internal in-frame segment and multiple 3' exons but includes an alternate 3' exon, compared to variant 1. The resulting protein (isoform 4) lacks an internal segment and has a shorter and distinct C-terminus, compared to isoform 1.</p>