

## Product datasheet for **SC127905**

### HGF (NM\_000601) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HGF (NM_000601) Human Untagged Clone
Tag:	Tag Free
Symbol:	HGF
Synonyms:	DFNB39; F-TCF; HGFB; HPTA; SF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC127905 sequence for NM\_000601 edited (data generated by NextGen Sequencing)

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ATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCTGCAGCATGTCCTCCTGCATCTCCTC
CTGCTCCCCATCGCCATCCCCTATGCAGAGGGACAAAGGAAAAGAAGAAATACAATTCAT
GAATTCAAAAAATCAGCAAAGACTACCCTAATCAAAATAGATCCAGCACTGAAGATAAAA
ACCAAAAAAGTGAATACTGCAGACCAATGTGCTAATAGATGTACTAGGAATAAAGGACT
CCATTCACCTGCAAGGCTTTTGTGATAAAGCAAGAAAACAATGCCTCTGGTTCCCC
TTCAATAGCATGTCAAGTGGAGTGAAAAAGAATTTGGCCATGAATTTGACCTCTATGAA
AACAAAGACTACATTAGAACTGCATCATTGGTAAAGGACGCAGCTACAAGGGAACAGTA
TCTATCACTAAGAGTGGCATCAAATGTCAGCCCTGGAGTTCATGATACCACACGAACAC
AGCTTTTTGCCTTCGAGCTATCGGGTAAAGACCTACAGGAAACTACTGTCGAAATCCT
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TGTGACATTCTCAGTGTTCAGAAGTTGAATGCATGACCTGCAATGGGGAGATTATCGA
GGTCTCATGGATCATAACAAGATCAGGCAAGATTTGTCAGCGCTGGGATCATCAGACCA
CACCGGCACAAATCTTGCTGAAAGATATCCCGACAAGGGCTTTGATGATAATTATTGC
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GAGTACTGTGCAATTAACATGCGCTGACAATACTATGAATGACACTGATGTTCCTTTTG
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GACTTACATCGTCATATCTTCTGGGAACCAGATGCAAGTAAGCTGAATGAGAATTACTGC
CGAAATCCAGATGATGCTCATGGACCCTGGTGTACACGGGAAATCCACTATTCTCT
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TGCAAACAGGTTCTCAATGTTTCCAGCTGGTATATGGCCCTGAAGGATCAGATCTGGTT
TTAATGAAGCTTGCCAGGCTGCTGTCTGGATGATTTTGTAGTACGATTGATTACCT
AATTATGGATGCACAATTCCTGAAAAGACCAGTTGCAAGTGTATGGCTGGGGCTACACT
GGATTGATCAACTATGATGGCCTATTACGAGTGGCACATCTCTATATAATGGGAAATGAG
AAATGCAGCCAGCATCATCGAGGGAAGGTGACTCTGAATGAGTCTGAAATATGTGCTGGG
GCTGAAAAGATTGGATCAGGACCATGTGAGGGGGATTATGGTGGCCACTTGTGTTGAG
CAACATAAAATGAGAATGGTTCTTGGTGTGATTGTTCTGGTCTGGATGTGCCATTCCA
AATCGTCTGGTATTTTGTCCGAGTAGCATATTATGCAAAATGGATACACAAAATATT
TTAACATATAAGGTACCACAGTCATAG

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Clone variation with respect to NM\_000601.4

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000601 unedited            TCACCTCTTGAATACGCCTCACTATATTGCGGCCGCGAACTCGGCACGAGGAGCCGACT            GGCTCTTTTAGGCACTGACTCCGAACTGGATTCTTTCACCCAGGCATCTCCTCCAGAGGG            ATCCGCCAGCCCGTCCAGCAGCACCATGTGGGTGACCAAACCTCTGCCAGCCCTGCTGCT            GCAGCATGTCTCCTGCATCTCCTCCTGCTCCCATCGCCATCCCCTATGCAGAGGGACA            AAGGAAAAGAAGAAATACAATTCATGAATCAAAAAATCAGCAAAGACTACCCTAATCAA            AATAGATCCAGCACTGAAGATAAAAAACCAAAAAAGTGAATACTGCAGACCAATGTGCTAA            TAGATGTACTAGGAATAAAGGACTTCCATTCACCTTGCAAGGCTTTTGTGTTTTGATAAAGC            AAGAAAACAATGCCTCTGGTTCCCTTCAATAGCATGTCAAGTGGAGTGAAAAAGAATT            TGGCCATGAATTTGACCTCTATGAAAACAAAGACTACATTAGAAACTGCATCATTGGTAA            AGGACGCAGCTACAAGGGGAACCAGTATCTATCACTAAAAGTGGCATCAAATGTCAGCCC            CGGGAAGTTCCATTGATACCCACCGAAACCCAGCCTTTTTTGGCCTTCGAAGCTAATCG            GGGGGTAAAGAACCTCCAGGGAAAACCTACTGGTCCGAAAATCCCTTGCAGGGGGAAAAA            AAGGGGGGACCCCTTTTTGTTTTAACCAAGACCAATC</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;Forward primer walk for NM_000601 unedited            AATAATCAAGCTTGCCTTGCCTGCTGCTGGATGACTTTGTTACTACCATTGATTTACC            TAATTATGGATGCACAATTCCTGAAAAGACCAGTTGCAGTGTGTTATGGCTGGGGTACAC            TGGATTGATCAACTATGATGGCCTATTACGAGTGGCACATCTCTATAAATGGGAAATGA            GAAATGCAGCCAGCATCATCGAGGGAAGGTGACTCTGAATGAGTCTGAAATATGTGCTGG            GGCTGAAAAGATTGGATCAGGACCATGTGAGGGGGATTATGGTGGCCACTTGTTTTGTA            GCAACATAAAAATGAGAATGGTTCTTGGTGTGATTGTTCCCTGGTGGATGTGCCATTCC            AAATCGTCTGGTATTTTTGTCCGAGTAGCATATTATGCAAAAATGGATACACAAAATTAT            TTTAACATATAAGGTACCACAGTCATAGCTGAAGTAAGTGTGTCTGAAGCACCCACCAAT            ACAACTGTCTTTTACATGAAGATTTAGAGAAATGTGGAATTTAAGATGCACTTACAACA            ATCCTAAGACAACACTAGGAGATCATGTTTGTGAAATTTCCATTAAATGTTTTATGGGTG            TTATCAGGTGTTCTGTTTGTGAGTGTATTTTTGTCAATGTTGAAGTTGAATANGGTACAT            GCNAGTGAATAACATATCTTCTTGAGATACCTTGATGGATAAAAAAACCCCGGGTTTTT            TTGCTGGAGGATCAGATTTT</p>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000601
<b>Insert Size:</b>	5000 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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>	<a href="#">NM_000601.4</a> , <a href="#">NP_000592.3</a>
<b>RefSeq Size:</b>	2820 bp
<b>RefSeq ORF:</b>	2187 bp
<b>Locus ID:</b>	3082
<b>UniProt ID:</b>	<a href="#">P14210</a>
<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 (1) represents the longest transcript and encodes the longest 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>