

Product datasheet for **MC221077**

Hgf (NM_010427) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgf (NM_010427) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hgf
Synonyms:	C230052L06Rik; HGF/S; HGF/SF; NK; NK1; NK2; SF; SF/HG; SF/HGF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221077 representing NM_010427
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGTGGGGACCAAACCTTCTGCCGGTCTGTGTCTGCAGCATGTCCTCTGCACCTCCTCTGCTTC
 ATGTCGCCATCCCCTATGCAGAAGGACAGAAGAAAAGAAGAAATACACTTCATGAATTTAAAAAGTCAGC
 AAAAATACTCTTACCAAGGAAGACCCATTACTGAAGATTTAAACCAAAAAAGTGAACCTCTGCAGATGAG
 TGTGCCAACAGGTGTATCAGGAACAGGGGCTTTACGTTCACTTGAAGGCCTTCGTTTTTGATAAGTCAA
 GAAAACGATGCTACTGGTATCCTTTCAATAGTATGTCAAGTGGAGTGAAAAAGGGTTTGGCCATGAATT
 TGACCTCTATGAAAACAAAGACTATATTAGAACTGCATCATTGGTAAAGGAGGCAGCTATAAAGGGACG
 GTATCCATCACTAAGAGTGGCATCAAATGCCAGCCTTGAATTCATGATCCCCATGAACACAGCTTTT
 TGCCTTCGAGCTATCGCGGTAAGACCTACAGGAAAACACTGTGCGAAATCCTCGAGGGGAAGAAGGGG
 ACCCTGGTGTTCACAAGCAATCCAGAGGTACGCTACGAAGTCTGTGACATTCTCAGTGTTCAGAAATT
 GAATGCATGACCTGCAATGGTGAAGCTACAGAGGTCCCATGGATCACACAGAATCAGGCAAGACTTGTG
 AGCGCTGGGACCAGCAGACACCACCCGACACAAGTTCTTGCCAGAAAAGATATCCCGACAAGGGCTTTGA
 TGATAATTATTGCCGCAATCCTGATGGCAAGCCGAGGCCATGGTGTACTCTTGACCTGACACCCCT
 TGGGAGTATTGTGCAATTAACCGTGGCTCACAGTGTGTGAATGAGACTGATGTCCCTATGAAAACAA
 CTGAATGCATTCAAGGCCAAGGAGAAGGTTACAGGGGAACCAGCAATACCATTGGAAATGGAATTCCTG
 TCAGCGTTGGGATTTCGAGTACCCTCACAAGCATGATATCACTCCCGAGAACTTCAAATGCAAGGACCT
 AGAGAAAATTATGCCGCAATCCAGATGGGGCTGAATCACCATGGTGTTCCTACTGACCCAAACATCC
 GAGTTGGCTACTGCTCTCAAATCCCAAGTGTGACGTGTCAAGTGGACAAGATTGTTATCGTGGCAATGG
 GAAAAATTACATGGGCAACTTATCCAAAACAAGGTCTGGACTTACATGTTCCATGTGGGACAAGAATATG
 GAGGATTTACACCGTCATATCTTCTGGGAGCCAGATGCTAGCAAATTGAATAAGAATTACTGCCGGAATC
 CTGATGATGATGCCCATGGACCTTGGTGTACACGGGGAATCCTCTTATTCTTGGGATTATTGCCCTAT
 TTCCCGTTGTGAAGGAGATACTACACCTACAATTGTCAATTTGGACCATCCTGTAATATCCTGTGCCAAA
 ACAAACAACCTGCGGGTGTAAATGGCATTCCAACACAAACAACAGTAGGGTGGTGTAGTTTGAAT
 ACAGAAAATAACATATCTGTGGAGGATCATTGATAAAGGAAAGTGGGTTCTTACTGCAAGACAATGTTT
 TCCAGCCAGAAAACAAGACTTGAAGACTATGAAGCTTGGCTTGGCATCCAGATGTTTCATGAGAGAGGC
 GAGGAGAAGCGCAAGCAGATCTTAAACATTTCCAGCTGGTCTATGGTCTGAAGGCTCAGACTTGGTTT
 TACTGAAGCTTGTGCGACCTGCAATCCTGGATAACTTTGTGAGTACAATTGATTTACCTAGTTATGGTTG
 TACAATCCCTGAAAAGACCCTTGCAGTATTTACGGCTGGGGCTACACTGGATTGATCAACGCGGATGGT
 TTATTACGAGTAGCTCATCTGTATATTATGGGGAATGAGAAATGCAGTCAGCACCATCAAGGCAAGGTGA
 CTTTGAATGAGTCTGAGTTATGTGCTGGGGCTGAAAAGATTGGATCAGGACCATGTGAGGGAGATTATGG
 TGGCCCACTCATTTGTGAACAACAAAAATGAGAATGGTCTTGGTGTGATTGTTCTGCTGGTGGTGGTGT
 GCCATCCCAATCGTCTGGTATTTTTGTTTCGAGTAGCATATTATGCAAAATGGATACACAAAGTAATTT
 TGACATACAAGTTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010427
Insert Size: 2187 bp

OTI Disclaimer: 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.

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](#)

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: [BC119228](#), [AAI19229](#)

RefSeq Size: 2283 bp

RefSeq ORF: 2187 bp

Locus ID: 15234

UniProt ID: [Q08048](#)

Cytogenetics: 5 7.07 cM

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. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the hepatocyte growth factor alpha and beta chains, which heterodimerize to form the mature active protein. Although this protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Homozygous knockout mice for this gene exhibit embryonic lethality due to impaired development of the placenta and liver. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR, compared to variant 1. Variants 1, 2, and 3 encode the same isoform (1).