

Product datasheet for **MC220090**

Hgfac (NM_019447) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hgfac (NM_019447) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hgfac
Synonyms:	HGF; HGFA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220090 representing NM_019447
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGCGACAGGCTGGATCTCTAGCCTCTGTCCCTTACCCAGGCCATGTCCCTTCTGTCTGCTCTGCT
 TGCTGCTGGTGGTGCCTCGGGGGGCCAGCCCCAGGCTGGCAGGAACCACACAGAGCCCCAGGACCTAA
 CGTTACAGCCACCCCGTGACCCCCACGATCCCTGTGATCTCTGGGAATGTCAGCACCTCAACAGAAAGT
 GCTCCAGCAGCAGAGACTGAGGGACCCAAAGTGAGAGGTACCCTCCTCCCTCCAGCAGCAGCCCCCTG
 GGGGCCAAGTGTCTACCGAGTCTGGGCAGCCGTGCAGGTTCCCTTCCGCTACGGTGGCCGCATGCTGCA
 CTCCTGTACCTCTGAGGGAAGTGCCTACAGGAAGTGGTGCCTACAACACACAATATGACCGAGACCGG
 GCCTGGGGCTACTGTGCAGAGGTACCCTGCCTGTGGAAGGTCCAGCTATCCTTGACCCTTGTGCCTCTG
 GGCCCTGCCTCAATGGGGGCACATGTTCCAGTACACATGACCATGGTCTCCTACCCTGCTCTTGCCCGCT
 GGCCTTACAGGCAAGGACTGTGGCACAGAGAAATGCTTTGATGAAACACGCTATGAGTATTTGAGGTG
 GCGGACCACTGGGCCCGTGTGAGCGAGGGACATGTGGAGCAATGTGGCTGTATGGAGGGCCAGGCCCGGT
 GTGAAGACACCCACCACACAGCTTGTCTGAGCAGCCATGCTGAACGGAGGCACCTGCCACCTGATTGT
 GGGCACAGGGACCGCTCTGCACCTGCCCGTTGGGCTATGCTGGGCGGTTCTGTAACATTGTTCCACACA
 GAGCACTGCTTCTGGGAAATGGTACAGAGTACCAGGGCGTGGCCAGCACCGCTGCCTCGGGCCTGAGCT
 GCCTGGCTGGAATTCGACCTGCTCTACCAGGAGCTGCACGTGGACTCAGTGGCTGCTGCTGCTCTGCT
 TGGCCTGGGCCCTCACGCTTACTGCCGGAACCCAGACAAGGATGAGAGGCCTTGGTGCTATGTGGTGAAG
 GACAACGCACTGCTGTGGGAGTATTGCCGCCTGACAGCCTGTAATCCCTGGCCAGAGTCCACTCCCAAA
 CCCCGGAGATCTAGCAGCCCTGCCGAGTCAGCCCCGGCTGTGGCTCCTACCTGTGGAAGAGGCACAA
 GAAGAGGACGTTCTTGAGACCACGCATCATCGGGGGCTCATCATCTTTGCCTGGCTCACACCCCTGGCTG
 GCTGCCATCTACATTGGGAATAGCTTCTGTGCCGGGAGCCTTGTCCATACCTGCTGGGTAGTGTCTGCAG
 CCCACTGCTTCGCCAACAGCCCCCAGGGACAGCATCACAGTGGTACTGGGTGACCACTTCTTCAACCG
 CACCACGGATGTGACACAGACATTTGGCATTGAGAAGTATGTGCCCTACACCCTGTACTCGGTGTTCAAC
 CCCAACAAACCATGACCTTGTCTTGTATCCGGCTAAAGAAGAAGGGAGAGCGCTGTGCTGTCCGCTCCCAGT
 TTGTTCAACCCATCTGCCTGCCTGAGGCAGGCAGCTCCTTCCCTACTGGACACAAGTGTGAGATTGCAGG
 CTGGGGCCACATGGATGAAAATGTGAGCAGCTACTCCAACCTCCTGCTGGAGGCACTGGTCCCTCTTGT
 GCTGACCAACAAGTGTAGCAGCCAGAGGTATATGGTGCTGACATCAGCCCTAACATGCTCTGTGCCGGCT
 ACTTCGATGCAAGTCCGATGCCTGCCAGGGGACTCAGGTGGGCCCTTGGTCTGTGAGAAGAATGGTGT
 GGCTTACCTGTATGGCATCATCAGCTGGGGTGTGGCTGTGGGCCCTCAACAAGCCAGGAGTCTACACC
 CGTGTGGCCAATTATGTGGACTGGATCAACGACCGTATTCGACCGCCCAAGCGACCCGTGGCTACGCTCT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_019447
- Insert Size:** 1962 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).
- 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: [NM_019447.3](#), [NP_062320.2](#)

RefSeq Size: 2172 bp

RefSeq ORF: 1962 bp

Locus ID: 54426

UniProt ID: [Q9R098](#)

Cytogenetics: 5 B2

Gene Summary: This gene encodes a serine protease enzyme that proteolytically activates hepatocyte growth factor (HGF) and plays a vital role in the regulation of HGF activity in the regeneration and repair of various tissues. The encoded protein is an inactive zymogen that is proteolytically activated to generate a heterodimeric enzyme consisting of a short chain and a long chain linked by a disulfide bridge. Mice lacking the encoded protein display an impairment in mucosal regeneration after injury. [provided by RefSeq, Jul 2015]