

Product datasheet for **MC208020**

Hbegf (NM_010415) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hbegf (NM_010415) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hbegf
Synonyms:	AW047313; Dtr; Dts; Hegfl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC208020 representing NM_010415 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCTGCTGCCGTCCGTGATGCTGAAGCTCTTCTGGCCGAGTGTGTCCGCGTTGGTGACCCGGT
AGAGTCTGGAGCGGCTTCGGAGAGGTCTGGCGCAGCAACCAGCAACCCTGACCTCCCACTGGATCCAC
AAACCAGCTGCTACCCACGGGAGGTGATCGTGCTCAGGGGTCCAGGACTTGAAGGGACAGATCTGAAC
CTTTTCAAAGTTGCTTTCTCTCAAGCCACAAGGCTGGCCACCCCAAGCAAAGAAAGGAATGGGAAAA
AGAAGAAGAAAGAAAGGGTTAGGAAGAAGAGAGACCCATGCCTCAGGAAATACAAGGACTACTGCAT
CCACGGGGAGTGAGATACCTGCAGGAGTCCGTACTCCCTCTTGCAAATGCCTCCCTGGTTACCACGGA
CACAGGTGTCATGGGCTGACTCTACCAGTGAGAAATCCCTATACACATATGACCACACTACAGTCTTGG
CTGTGGTGGCTGTAGTACTGTCGTCCGTCTGTCTTCTTGTTCATCGTGGGACTTCTCATGTTTAGGTACCA
CAGGAGAGGAGGTTATGACTTGGAAAGTGAAGAGAAAGTGAAGTTGGGCGTGGCTAGCTCCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms:	https://cdn.origene.com/chromatograms/ja1251_c05.zip
Restriction Sites:	SgfI-MluI
ACCN:	NM_010415
Insert Size:	627 bp



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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: [NM_010415.1](#), [NP_034545.1](#)

RefSeq Size: 2337 bp

RefSeq ORF: 627 bp

Locus ID: 15200

UniProt ID: [Q06186](#)

Cytogenetics: 18 19.46 cM

Gene Summary: Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal cardiac valve formation and normal heart function. Promotes smooth muscle cell proliferation. May be involved in macrophage-mediated cellular proliferation. It is mitogenic for fibroblasts, but not endothelial cells. It is able to bind EGF receptor/EGFR with higher affinity than EGF itself and is a far more potent mitogen for smooth muscle cells than EGF. Also acts as a diphtheria toxin receptor.[UniProtKB/Swiss-Prot Function]