

## **Product datasheet for MR212137**

## Hbegf (NM 010415) Mouse Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

**Product Name:** Hbegf (NM\_010415) Mouse Tagged ORF Clone

Tag: Myc-DDK

Symbol: Hbegf

Synonyms: AW047313; Dtr; Dts; Hegfl

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide >MR212137 representing NM\_010415

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR212137 representing NM\_010415

Red=Cloning site Green=Tags(s)

MKLLPSVMLKLFLAAVLSALVTGESLERLRRGLAAATSNPDPPTGSTNQLLPTGGDRAQGVQDLEGTDLN LFKVAFSSKPQGLATPSKERNGKKKKKGKGLGKKRDPCLRKYKDYCIHGECRYLQEFRTPSCKCLPGYHG HRCHGLTLPVENPLYTYDHTTVLAVVAVVLSSVCLLVIVGLLMFRYHRRGGYDLESEEKVKLGVASSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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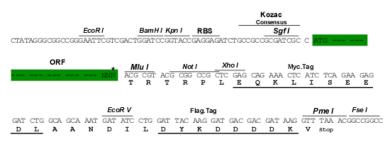
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mm9026">https://cdn.origene.com/chromatograms/mm9026</a> e06.zip

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM 010415

ORF Size: 624 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

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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: <u>NM 010415.2</u>, <u>NP 034545.1</u>

 RefSeq Size:
 2337 bp

 RefSeq ORF:
 627 bp

 Locus ID:
 15200

 UniProt ID:
 Q06186

**Cytogenetics:** 18 19.46 cM

MW: 23.3 kDa

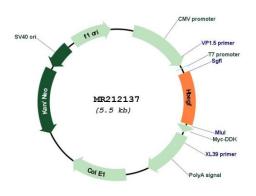
**Gene Summary:** Growth factor that mediates its effects via EGFR, ERBB2 and ERBB4. Required for normal

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]

## **Product images:**



Circular map for MR212137