

## Product datasheet for **RR200862**

### Hemgn (NM\_133294) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hemgn (NM_133294) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hemgn
Synonyms:	Edag-1; Edag1; Hgn; RP59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR200862 representing NM\_133294  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATGTGAGGAAGGACCAATCTCATCTGACGCTCAACCAGACCCTGAAGCTCATGTAGAGAAGTCCC  
 ATGCTCCAGACATCATTGGATCTTGGAGTTTGAAGAACAGAGAACAACCTGAAGAAGAGAAAAGCTGAGGC  
 ACAGGGGAGGCAGACGTCACAATGGCAACTTGGAGAACAGAAAAACGCAAGTATCAGAGAACAGGAAAA  
 GGTAATCGAAGAGGCCGAAAGAGACAAGGGAATGTGGAACAAAAGGCAGAGTCTTGGTCACAAAACAGAAA  
 ACGAAAGGGTACAGGAGGTATTGGTACCTGCTGAGGAAGAACTGAGTACTCTGGAAACTGCAACTCA  
 AGCCCTTCCCTTGAGAGCATCCCCACAAAAGCTGTGCCACAGAACACTGTTCTGAAGTACCCCAAGAA  
 AGCTTGCAGTGCCAAGAAATAACTATACAGAACCATTCTCAAACACACCAACGAAGGGACAAAGCTGAAG  
 CTCTCTCTCTACCACGTGCCAAGAAATAGGAGTACTTCAATATTCTCTAAGATGTGCCAAGATATGGC  
 TGAACTGAGGCACGCTCACCTAAAATGTGCCAGGAGACAGCTGTGCCCAAACCTATTCTCCCAAAGCA  
 CACGAAGATATGGCTGAATATGAGGCACCTTTCGCTAAAATGTGCCGGGAAACACCTGTGCCACAATACC  
 ATTCTTCCAAAATACCCCAAGATATGACCGGACCTGAGGCGTTAGCTCCTGATATGTGCCAAGAAACAAC  
 TGTGTCCCAAAACCATTCTTCCAAAGTACCCAGGATATGGCTGGACCTGAGGCGCTCTCTTAAAATG  
 TGCCAGGAACCAACTGTGCTTCAAGAACATACTTTGAAAATATGCCAAGATGTGGCCAGACCTGACGTCC  
 TCTCTTAAAACACATCAAGAGATGACTGTTCCCAAAGCCCTTCCCTGTATAACACCTGGAGATGCTGC  
 TGGCCAGAAAGGATGCTCCCCAAAACACTCCCCAGTCAGATGTAACCCCATGTCAGTCACACCAGGA  
 AAAATACTTCCCACCCAGATCTGGGAACGGCTGTGGCTGAAGGCTGCTTTTCTGAAGCCGGAGAATGCA  
 TTGTATCTGAAGACATTTCTACAAAACACACCAAGAAGCAGTTGAACCTAAATTCCTTTCTCACAAAG  
 TTACAAAGAATCACTGTGCTATAGTCTCTCTCATAAAACCATCCAAGAATCACCTGGGCTGAAGAA  
 TATTCACCTGGAAGCCGTATGAATGTGAGAGCCTGAAGACCTCTATCAAGACCTGTAGAAGACAGGG  
 ATGGGCTAAACACAGCCTTCCAGAAGGAGCCAGGAAGTAGGTGGGCCCAGAGGCAGGACCCTGATGC  
 ACAGGATATCGAGGACGCTGGTCTTCTCTCAAGACCTGGAGGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200862 representing NM\_133294  
 Red=Cloning site Green=Tags(s)

MDVVRKDQSHLTLNQTPEAHVEKSHAPDIIGSWSLRNREQLKRRKAEAQGRQTSQWQLGEQKRRKYQRTGK  
 GNRRGRKRQGNVEQKAESWSQTENERVQEVLPAAEEETEYSGNTATQALPLRASPTKAVPTEHCSEVPQE  
 SLQCQEITIQNHSQTHQRRDKAEALSP TTCQEIGVLQYSPKMCQDMAEPEARSPKMCQETAVPQTYSPKA  
 HEDMAEYEAALSPKMCRETPVPQYHSSKIPQDMTGPEALAPDMCQETTVSQNHSSKVPQDMAGPEALSLKM  
 CQEPTVLQEHTLKIQCQDVARPDVLSKTHQEMTPKALPCITPGDAAGPEGCSPKTL PQSDVTPMSVTPG  
 KNTSHPDLGTAVAEGCFSEAGECIVSEDI STKTHQEAVEPKFLSHKTYKEFTVPIVSSHKTIQESPGPEE  
 YSPGSRHEMSEPEDLSIKTKNRDGPKHSLPEGAQEVGGAQRQDPDAQDIEDAGAFSQDLEE

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_133294

**ORF Size:** 1446 bp

**OTI Disclaimer:** 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:** [NM\\_133294.1](#), [NP\\_579828.1](#)
**RefSeq Size:** 2512 bp

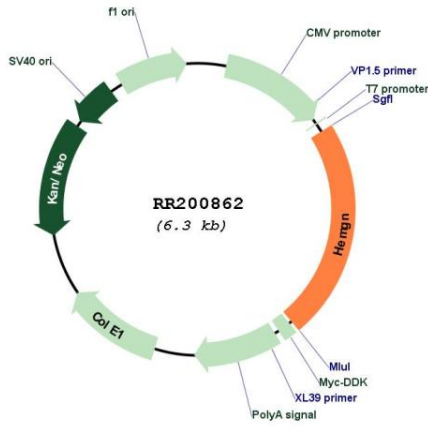
**RefSeq ORF:** 1449 bp

**Locus ID:** 113882

**UniProt ID:** [Q6AZ54](#)

**Cytogenetics:** 5q22  
**MW:** 53.3 kDa  
**Gene Summary:** may be involved in osteoblast recruitment into growing bone tissue [RGD, Feb 2006]

**Product images:**



Circular map for RR200862