

Product datasheet for **RC208367**

Hemogen (HEMGN) (NM_018437) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hemogen (HEMGN) (NM_018437) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hemogen
Synonyms:	CT155; EDAG; EDAG-1; NDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC208367 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTGGAAAGACCAATCTCATTGAAGCACCATCAGACACCTGACCCTCATCAAGAAGAGAACC
 ATTCTCCAGAAGTCATTGGAACCTGGAGTTTGAGAAACAGAGAACTACTTAGAAAAAGAAAGCTGAAGT
 GCATGAAAAGGAAACATCACAATGGCTATTTGGAGAACAGAAAAACGCAAGCAGCAGAGAACAGGAAAA
 GGAAATCGAAGAGGCAGAAAGAGACAACAAAACACAGAATTGAAGGTGGAGCCTCAGCCACAGATAGAAA
 AGGAAATGGAGAAAGCACTGGCACCTATAGAGAAAAAACTGAGCCACCTGGGAGCATAACCAAAGTATT
 TCCTTCAGTAGCCTCCCCGAAAAAGTTGTGCCTGAGGAACACTTTTCTGAAATATGTCAAGAAAGTAAC
 ATATATCAGGAGAATTTTCTGAGTACCAAGAAATAGCAGTACAAAACCTTCTTCTGAAACATGCCAAC
 ATGTGTCTGAACCTGAAGACCTCTCCTAAAAATGTACCAAGAAATATCTGTACTTCAAGACAATCTTC
 CAAAATATGCCAAGACATGAAGGAACCTGAAGACAACCTCCTAACACATGCCAAGTAATATCTGTAAAT
 CAAGACCATCCTTTCAAATGTACCAAGATATGGCTAAACGAGAAGATCTGGCTCCTAAAAATGTGCCAAG
 AAGCTGTGTACCCAAAATCCTTCTTGTCCAACATCTGAAGACACAGCTGATCTGGCAGGATGCTCTCT
 TCAAGCATATCCAAAACAGATGTGCCTAAAGGCTATATTCTTGACACAGACCAAAAATCCAGCAGAACCA
 GAGGAATACAATGAAACAGATCAAGGAATAGCTGAGACAGAAGGCCTTTTTCTAAAAATACAAGAAATAG
 CTGAGCCTAAAGACCTTTCTACAAAAACACACCAAGAATCAGCTGAACCTAAATACCTTCTCATAAAAC
 ATGTAACGAAATATTGTGCCTAAAGCCCCCTCTATAAAACAATCCAAGAAACACCTCATTCTGAAGAC
 TATTCAATTGAAATAAACCAAGAAACTCCTGGGCTGAAAAATATTACCTGAAACGTATCAAGAAATAC
 CTGGGCTTGAAGAATATTCACCTGAAATATACCAAGAAACATCCACGCTTGAAGAATATTACCTGAAAT
 ATACCAAGAAACACCGGGGCTGAAGACCTCTCTACTGAGACATATAAAAAATAAGGATGTGCCTAAAGAA
 TGCTTTCCAGAACCACACCAAGAAACAGGTGGGCCCAAGGCCAGGATCCTAAAGCACACCAGGAAGATG
 CTAAGAGTGCTTATACTTTCTCAAGAAATGAAAGAAAAACCAAGAAAGAGCCAGGAATACCAGCAAT
 TCTGAATGAGAGTCATCCAGAAATGATGTCTATAGTTATGTTTTGTTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208367 protein sequence
 Red=Cloning site Green=Tags(s)

MDLGKDQSHLKHHTPDPHQEENHSPEVIGTWSLRNRELLRKRKAEVHEKETSQWLFGEQKRRKQQRGK
 GNRRGRKRQONTELKVEPQPQIEKEMEKALAPIEKKTEPPGSITKVFPSVASPQKVVEEHFSEICQESN
 IYQENFSEYQEIAVQNHSETCQHVSEPEDLSPKMYQEISVLQDNSSKICQDMKEPEDNSPNTCQVISVI
 QDHPFKMYQDMAKREDLAPKMCQEAAPKILPCPTSEDTADLAGCSLQAYPKPDVPGYILDTDQNPAP
 EEYNETDQGIAETEGLFPKIQEIAEPKDLSTKTHQESAEPKYLPHKTCNEIIVPKAPSHKTIQETPHSED
 YSIEINQETPGSEKYSPEYQEIPGLEEYSPEIYQETSQLEEYSPEIYQETPGPEDLSTETYKNKDVPE
 CFPEPHQETGGPQGQDPKAHQEDAKDAYTFPQEMKEPKKEEPIAILNESHPEVDVYSYVLF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6089_f08.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018437

ORF Size: 1995 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_018437.5](#)

RefSeq Size: 2252 bp

RefSeq ORF: 1455 bp

Locus ID: 55363

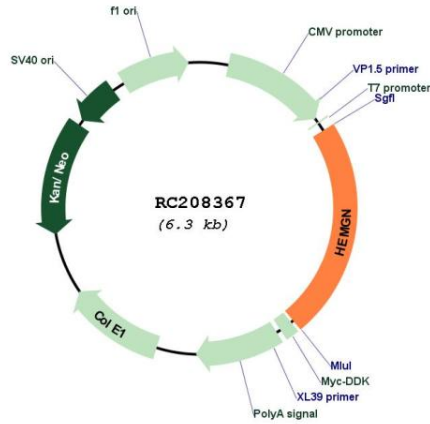
UniProt ID: [Q9BXL5](#)

Cytogenetics: 9q22.33

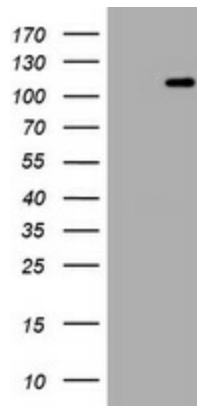
MW: 55.3 kDa

Gene Summary: Regulates the proliferation and differentiation of hematopoietic cells. Overexpression block the TPA-induced megakaryocytic differentiation in the K562 cell model. May also prevent cell apoptosis through the activation of the nuclear factor-kappa B (NF-kB).[UniProtKB/Swiss-Prot Function]

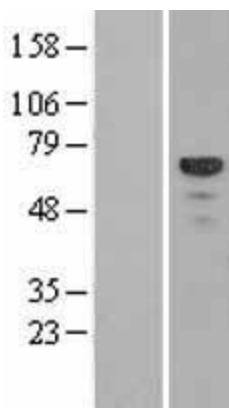
Product images:



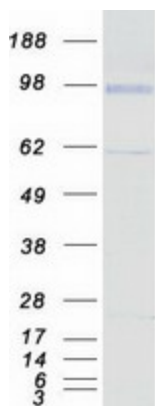
Circular map for RC208367



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HEMGN (Cat# RC208367, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HEMGN(Cat# [TA800885]). Positive lysates [LY402697] (100ug) and [LC402697] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402697]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208367 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HEMGN protein (Cat# [TP308367]). The protein was produced from HEK293T cells transfected with HEMGN cDNA clone (Cat# RC208367) using MegaTran 2.0 (Cat# [TT210002]).