

Product datasheet for **RC214122**

Hemogen (HEMGN) (NM_197978) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hemogen (HEMGN) (NM_197978) 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:

>RC214122 representing NM_197978.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGATTTGGGAAAGACCAATCTCATTGAAGCACCATCAGACACCTGACCCTCATCAAGAAGAGAAC
CATTCTCCAGAAGTCATTGGAACCTGGAGTTTGAGAAACAGAGAACTACTTAGAAAAAGAAAAGCTGAA
GTGCATGAAAAGGAAACATCACAAATGGCTATTTGGAGAACAGAAAAACGCAAGCAGCAGAGAACAGGA
AAAGGAAATCGAAGAGGCAGAAAGAGACAACAAAAACAGAAATTGAAGGTGGAGCCTCAGCCACAGATA
GAAAAGGAAATGGAGAAAGCACTGGCACCTATAGAGAAAAAACTGAGCCACCTGGGAGCATAACCCAAA
GTATTTCTTCAGTAGCCTCCCCGAAAAAGTTGTGCCTGAGGAACACTTTTCTGAAATATGTCAAGAA
AGTAACATATATCAGGAGAATTTTCTGAGTACCAAGAAATAGCAGTACAAAACCATTCTTCTGAAAACA
TGCCAACATGTGTCTGAACCTGAAGACCTCTCTCCTAAAATGTACCAAGAAATATCTGTACTTCAAGAC
AATTCTTCCAAAAATGCCAAGACATGAAGGAACCTGAAGACAACCTCTCCTAACACATGCCAAGTAATA
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ATGTGCCAAGAAGCTGTGTACCCAAAAATCCTTCTTGTCCAACATCTGAAGACACAGCTGATCTGGCA
GGATGCTCTCTTCAAGCATATCCAAAACAGATGTGCCTAAAGGCTATATTTCTTGACACAGACCCAAAAT
CCAGCAGAACCAGAGGAATACAATGAAACAGATCAAGGAATAGCTGAGACAGAAGGCCTTTTTCTCTAAA
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CTTCTCATAAAACATGTAAACGAAATATTGTGCCTAAAGCCCCCTCTCATAAAACAATCCAAGAAAACA
CCTCATTCTGAAGACTATTCAATTGAAATAAACCAAGAAACTCCTGGGTCTGAAAAATATCACCTGAA
ACGTATCAAGAAATACCTGGGCTTGAAGAATATCACCTGAAATATACCAAGAAACATCCCAGCTTGAA
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AAGGATGTGCCTAAAGAATGCTTTCCAGAACCACACCAAGAAACAGGTGGGCCCCCAAGGCCAGGATCCT
AAAGCACACCAGGAAGATGCTAAAGATGCTTACTTTTCTCAAGAAATGAAAGAAAAACCCAAAGAA
GAGCCAGGAATACCAGCAATTCTGAATGAGAGTCATCCAGAAAATGATGTCTATAGTTATGTTTTGTTT
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCGGC
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Protein Sequence:

>Peptide sequence encoded by RC214122
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MDLGKDQSHLKHHTPDPHQEENHSPEVIGTWSLRNRELLRKRKAIEVHEKETSQWLFGEQKKRQQRTE
KGNRRGRKRQNTLKVPEPQPIEKEMEKALAPIEKTEPPGSIKVFPSVASPQKVVPEEHFSEICQE
SNIYQENFSEYQEIIVQNHSSQHVSEPEDLSPKMYQEISVLQDNSSKICQDMKEPEDNSPNTCQVI
SVIQDHPFKMYQDMAKREDLAPKMCQEAAPVKILPCPTSEDADLAGCSLQAYPKPDVPGYILDTDQN
PAEPEEYNETDQIAETEGLFPKIQEIAEPKDLSTKTHQESAEPKYLPHKTCNEIIVPKAPSHKTIQET
PHSEYDSEINQETPGSEKYSPEYQEIPLGLEEYSPEIYQETSQLEEYSPEIYQETPGPEDLSTETYKN
KDVPKECFPEPHQETGGPQGQDPKAHQEDAKDAYTFPQEMKEKPKKEEPIAILNESHPEVDVYSYVLF
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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Recombinant protein using RC214122 also available, [TP314122](#)

Chromatograms:

https://cdn.origene.com/chromatograms/mk6351_h02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_197978

ORF Size: 1449 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 Size: 2306 bp

RefSeq ORF: 1455 bp

Locus ID: 55363

UniProt ID: [Q9BXL5](#)

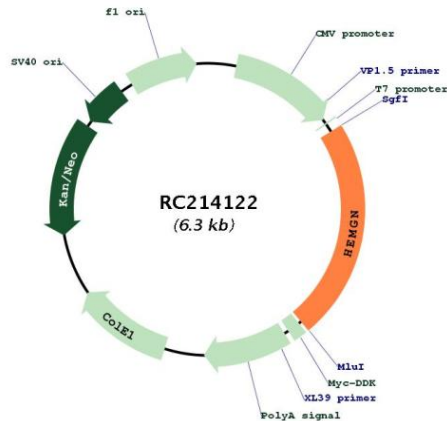
Cytogenetics: 9q22.33

MW: 55.3 kDa

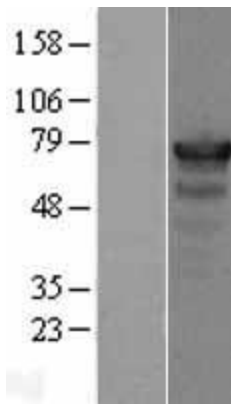
Gene Summary:

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]

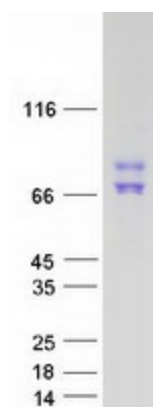
Product images:



Circular map for RC214122



Western blot validation of overexpression lysate (Cat# [LY405099]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214122 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HEMGN protein (Cat# [TP314122]). The protein was produced from HEK293T cells transfected with HEMGN cDNA clone (Cat# RC214122) using MegaTran 2.0 (Cat# [TT210002]).