

## Product datasheet for **RG214122**

### 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:	TurboGFP
Symbol:	Hemogen
Synonyms:	CT155; EDAG; EDAG-1; NDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG214122 representing NM\_197978  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGATTGGAAAGGACCAATCTCATTGAAGCACCATCAGACACCTGACCCTCATCAAGAAGAGAACC  
 ATTCTCCAGAAGTCATTGGAACCTGGAGTTTGAGAAACAGAGAAGTACTTGTAGAAAAAGAAAGCTGAAGT  
 GCATGAAAAGGAAACATCACAATGGCTATTTGGAGAACAGAAAAACGCAAGCAGCAGAGAACAGGAAAA  
 GGAAATCGAAGAGGCAGAAAGAGACAACAAAACACAGAATTGAAGGTGGAGCCTCAGCCACAGATAGAAA  
 AGGAAATGGAGAAAGCACTGGCACCTATAGAGAAAAAACTGAGCCACCTGGGAGCATAACCAAAGTATT  
 TCCTTCAGTAGCCTCCCCGAAAAAGTTGTGCCTGAGGAACACTTTTCTGAAATATGTCAAGAAAGTAAC  
 ATATATCAGGAGAATTTTCTGAGTACCAAGAAATAGCAGTACAAAACCTTCTTCTGAAACATGCCAAC  
 ATGTGTCTGAACCTGAAGACCTCTCCTAAAAATGTACCAAGAAATATCTGTACTTCAAGACAATCTTC  
 CAAAATATGCCAAGACATGAAGGAACCTGAAGACAACCTCCTAACACATGCCAAGTAATATCTGTAAAT  
 CAAGACCATCCTTTCAAATGTACCAAGATATGGCTAAACGAGAAGATCTGGCTCCTAAAATGTGCCAAG  
 AAGCTGTGTACCCAAAATCCTTCTTGTCCAACATCTGAAGACACAGCTGATCTGGCAGGATGCTCTCT  
 TCAAGCATATCCAAAACAGATGTGCCTAAAGGCTATATTCTTGACACAGACCAAAAATCCAGCAGAACCA  
 GAGGAATACAATGAAACAGATCAAGGAATAGCTGAGACAGAAGGCCTTTTTCTAAAATACAAGAAATAG  
 CTGAGCCTAAAGACCTTTCTACAAAAACACACCAAGAATCAGCTGAACCTAAATACCTTCTCATAAAAC  
 ATGTAACGAAATATTGTGCCTAAAGCCCCCTCTCATAAAACAATCCAAGAAACACCTCATTCTGAAGAC  
 TATTCAATTGAAATAAACAAGAAACTCCTGGGTCTGAAAAATATTACCTGAAACGTATCAAGAAATAC  
 CTGGGCTTGAAGAATATTCACCTGAAATATACCAAGAAACATCCCAGCTTGAAGAATATTCACCTGAAAT  
 ATACCAAGAAACACCGGGCCTGAAGACCTCTCTACTGAGACATATAAAAAATAAGGATGTGCCTAAAGAA  
 TGCTTTCCAGAACCACACCAAGAAACAGGTGGGCCCAAGGCCAGGATCCTAAAGCACACCAGGAAGATG  
 CTAAGATGCTTATACTTTCTCAAGAAATGAAAGAAAAACCAAGAAGAGCCAGGAATACCAGCAAT  
 TCTGAATGAGAGTCATCCAGAAATGATGTCTATAGTTATGTTTTGTTT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG214122 representing NM\_197978  
 Red=Cloning site Green=Tags(s)

MDLGKDQSHLKHHTPDPHQEENHSPEVIGTWSLRNRELLRKRKAEVHEKETSQLWFGEQKKRQQRRTGK  
 GNRGRKRQONTELKVEPQPQIEKEMEKALAPIEKKTEPPGSITKVFPSVASPQKVVPPEEHFSEICQESN  
 IYQENFSEYQEIIVQNHSSSETCQHVSEPEDLSPKMYQEISVLQDNSSKICQDMKEPEDNSPNTCQVISVI  
 QDHPFKMYQDMAKREDLAPKMCQEAAPKILPCPTSEDTADLAGCSLQAYPKPDVPGYILDTDQNPAP  
 EYNETDQGI AETGLFPKIQEIAEPKDLSTKTHQESAEPKYLPHKTCNEIIVPKAPSHKTIQETPHSED  
 YSIEINQETPGSEKYSPEYQEIPGLEEYSPEIYQETSQLEEYSPEIYQETPGPEDLSTETYKNKDVPEK  
 CFPEPHQETGGPQGDPAHQEDAKDAYTFPEMKEKPKKEPGIPAILNESHPEVDVYSYVLF

**TR**TRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**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:** [NM\\_197978.1](#), [NP\\_932095.1](#)

**RefSeq Size:** 2178 bp

**RefSeq ORF:** 1455 bp

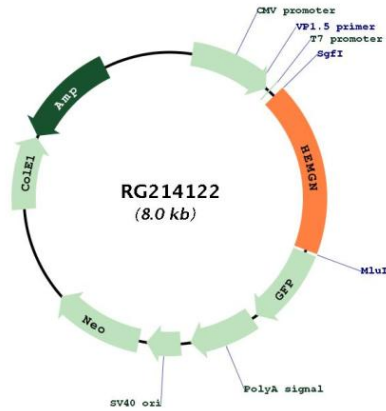
**Locus ID:** 55363

**UniProt ID:** [Q9BXL5](#)

**Cytogenetics:** 9q22.33

**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 RG214122