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# Product datasheet for SC108773

## Hemogen (HEMGN) (NM_018437) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Hemogen (HEMGN) (NM_018437) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Hemogen |
| **Synonyms:** | CT155; EDAG; EDAG-1; NDR |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL4 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>OriGene ORF within SC108773 sequence for NM_018437 edited (data generated by NextGen Sequencing)

ATGGATTTGGGAAAGGACCAATCTCATTTGAAGCACCATCAGACACCTGACCCTCATCAA
GAAGAGAACCATTCTCCNNNAGTCATTGGAACCTGGAGTTTGAGAAACAGAGAACTACTT
AGAAAAAGAAAAGCTGAAGTGCATGAAAAGGAAACATCACAATGGCTATTTGGAGAACAG
AAAAAACGCAAGCAGCAGAGAACAGGAAAAGGAAATCGAAGAGGCAGAAAGAGACAACAA
AACACAGAATTGAAGGTGGAGCCTCAGCCACAGATAGAAAAGGAAATAGTGGAGAAAGCA
CTGGCACCTATAGAGAAAAAAACTGAGCCACCTGGGAGCATAACCAAAGTATTTCCTTCA
GTAGCCTCCCCGCAAAAAGTTGTGCCTGAGGAACACTTTTCTGAAATATGTCAAGAAAGT
AACATATATCAGGAGAATTTTTCTGAGTACCAAGAAATAGCAGTACAAAACCATTCTTCT
GAAACATGCCAACATGTGTCTGAACCTGAAGACCTCTCTCCTAAAATGTACCAAGAAATA
TCTGTACTTCAAGACAATTCTTCCAAAATATGCCAAGACATGAAGGAACCTGAAGACAAC
TCTCCTAACACATGCCAAGTAATATCTGTAATTCAAGACCATCCTTTCAAAATGTACCAA
GATATGGCTAAACGAGAAGATCTGGCTCCTAAAATGTGCCAAGAAGCTGCTGTACCCAAA
ATCCTTCCTTGTCCAACATCTGAAGACACAGCTGATCTGGCAGGATGCTCTCTTCAAGCA
TATCCAAAACCAGATGTGCCTAAAGGCTATATTCTTGACACAGACCAAAATCCAGCAGAA
CCAGAGGAATACAATGAAACAGATCAAGGAATAGCTGAGACAGAAGGCCTTTTTCCTAAA
ATACAAGAAATAGCTGAGCCTAAAGACCTTTCTACAAAAACACACCAAGAATCAGCTGAA
CCTAAATACCTTCCTCATAAAACATGTAACGAAATTATTGTGCCTAAAGCCCCCTCTCAT
AAAACAATCCAAGAAACACCTCATTCTGAAGACTATTCAATTGAAATAAACCAAGAAACT
CCTGGGTCTGAAAAATATTCACCTGAAACGTATCAAGAAATACCTGGGCTTGAAGAATAT
TCACCTGAAATATACCAAGAAACATCCCAGCTTGAAGAATATTCACCTGAAATATACCAA
GAAACACCGGGGCCTGAAGACCTCTCTACTGAGACATATAAAAATAAGGATGTGCCTAAA
GAATGCTTTCCAGAACCACACCAAGAAACAGGTGGGCCCCAAGGCCAGGATCCTAAAGCA
CACCAGGAAGATGCTAAAGATGCTTATACTTTTCCTCAAGAAATGAAAGAAAAACCCAAA
GAAGAGCCAGGAATACCAGCAATTCTGAATGAGAGTCATCCAGAAAATGATGTCTATAGT
TATGTTTTGTTTTAA

Clone variation with respect to NM_018437.3
78 a=>n;79 g=>n;80 a=>n

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_018437 unedited

GCATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGGCACCAGGGGAAGTCAGACC
AAAATAGCAGGAAGGTATTGCAGCAAGATGGATTTGGGAAAGGACCAATCTCATTTGAAG
CACCATCAGACACCTGACCCTCATCAAGAAGAGAACCATTCTCCAGTCATTGGAACCTGG
AGTTTGAGAAACAGAGAACTACTTAGAAAAAGAAAAGCTGAAGTGCATGAAAAGGAAACA
TCACAATGGCTATTTGGAGAACAGAAAAAACGCAAGCAGCAGAGAACAGGAAAAGGAAAT
CGAAGAGGCAGAAAGAGACAACAAAACACAGAATTGAAGGTGGAGCCTCAGCCACAGATA
GAAAAGGAAATAGTGGAGAAAGCACTGGCACCTATAGAGAAAAAAACTGAGCCACCTGGG
AGCATAACCAAAGTATTTCCTTCAGTAGCCTCCCCGCAAAAAGTTGTGCCTGAGGAACAC
TTTTCTGAAATATGTCAAGAAAGTAACATATATCAGGAGAATTTTTCTGAGTACCAAGAA
ATAGCAGTACAAAACCATTCTTCTGAAACATGCCAACATGTGTCTGAACCTGAAGACCTC
TCTCCTAAAATGTACCAAGAAATATCTGTACTTCAAGACAATTCTTCCAAAATATGCCAA
GACATGAAGGAACCTGAAGACAACTCTCCTAACACATGCCAAGTAATATCTGTAATTCAA
GACCATCCTTTCAAAATGTACCAAGATATGGCTAAACGAGAAGATCTGGCNTCTNANATG
TGCCAAGAAGCTGCTGTACCCAAATCCTTNCTTGTCCACATCTGAAGACCAGCTGATCTG
GCAGGATGCTCTCTTCAGCATATCCAAACCAGATGTGCCTAAGGCTATATTCTGAACAGA
CANNATCAGCGACCCGAGATACATGAACAGTCAGGATACTGAACGAGGCCTTNTNCTAAA
TCAGAATACTGAGCTAGAC

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**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_018437 unedited
GGGGCAACGACNGCCCTTTTTTNNNNACNGNNAATCTTGNNACCGCGGCCGCATTCTANG
ATCGAGTTTTTTTTTTTTTTTTTTAAGCATGTAATAATGATTTAATGTACATTGTGCACA
AATACAATATTTAAAAAATAAAAATAGAAAATCAAAATTCAAATACAAAAGTAAACTACA
TTCATCACTCCAAAATATCTTTTAAGGAGAATTGTTAAAACTGACCAAAAGAGTCAACTA
AAGCCTGAATAAAATTTTGATGCTACTGTTACATTAATAATTGAACAGCATTTACAAGAA
AACTATATACTCCACAAAATGTATGTGTTCAGTCTTAGTCACTTATCTGCTCTTAAGACG
TAAATAAATGTTCTTAGGGGGGAAAACCAATTATCCAGTCCTCCCCGCTTCCTTATTTGT
CTGTTCCCACCACTATCCTCTCCCCGACCTATACATACATACACACACACACACACACAC
ACACACACACATTTTAGCATGATATTGTCTATGTGGTAGAGCCTTAAAAAATGTTATTTC
TTTCAGATATGGTCTACAAATAGAAAAAATAATATTAATGAGCATTGTCAAAAGTTTACA
ATATTTTGAGAAAATCACGCATAAACTATTAAGCTGTATGTTCCATTTGGACCANNCACT
TATGGNTGAGCATTGNTAAAAACAAAACATACTATAGACATCATTNTCTGGATGACTCTC
ATTCAGAAATGCTGGTNATCCTGGCTCTTCTTTGGGTTTTCTTTCATTTCTTGAGGAAAG
TANTAAGCATCTTTACCATCCTTCTGGGGGTGCTTTAGGATCCCTGGCCTTGGGCCCCAC
CTGTGTCTTTGTGGTGTTCTTGAAAGCACTCCTTTAGGCCATTCTTAATTTTAATGTCTA
ACTAAAAAGGTCTTCAAGGCCCCGGGTTTCTGGTATATTCAGGGGAAAATCTTCAACCTG
GAAGTTTCTTGTTTTTTCAGGAAGAATTTTTAACCCCGGTATTTTTGAACCCTTAGGGAA
ATTTTTACACCCA
```

**Restriction Sites:** NotI-NotI

**ACCN:** NM_018437

**Insert Size:** 2000 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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_018437.3, NP_060907.2

**RefSeq Size:** 2210 bp

**RefSeq ORF:** 1455 bp

**Locus ID:** 55363

**UniProt ID:** Q9BXL5

**Cytogenetics:** 9q22.33

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**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]
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same protein.

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