

Product datasheet for **MG208081**

Hemgn (NM_053149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hemgn (NM_053149) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hemgn
Synonyms:	4921524M03Rik; AI317176; EDAG; Hgn; mNDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208081 representing NM_053149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGACATGGGAAGGGCCGACCTCGTCTGAAGCTCCCCAGATGCCTGAAGCTACCCACAGAAGTCTT
 GTGCTCCAGACATCATTGGATCTTGGAGCTGAGAAACAGAGAACAACCTGAGGAAGAAAAAGCTGAGGC
 CCAGGGGAGGCAGACATCACAATGGCTCCTTGGAGAACGAAAAACGCAAGTATCAGAGAACAGGAAAA
 GGAAATAAAAGAGGCCGAAAGAGACAAGGGAACGTGGAGCAAAAGGCAGAGCCTTGGTCACAAACAGAAA
 GGGAAAGGGTGAAGAGGTATTGGTATCTGCTGAGGAAGAAACCGAGCACCCCTGGGAACTCTGCAACTGA
 AGCCCTCCCTTGGTCCCATCCCCACAAAAGCTGTGCCTGCAGATCAGTGTCTGAAGCACACCAAGAA
 AGCATTCAATGTCAAGAAAGAGCAATACAGAACCATTCTCAAACACACCTCTCTCCTACCACATGCCAAG
 GAATAGCAGTACTCAACATTCTCTAAAATGTGCCAAGATATGGCCGAACCTGAGGTATTCTCTCTAA
 CATGTGCCAGGAGACAGCTGTGCCCAAACCTATCCTCCCAAAGCACTTGAAGAAATGGTGCAGCCGAG
 CCACTCTCTCTAAAATGTGCCAGGAAACAACCTGTGTCCCAAACCTATTCTCAAAGTGCCCAAGATA
 TGGCTGGACCTGAGGCTCTCTCTCTAACATGTGCCAGGAACCAACTGTGCCTCAAGAACATACTTTGAA
 AATGTGCCATGATGTGGCCAGACCTGAAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
 GCCTTTCCCTGTGTAACACCTGGAGATGCTGCTGGCCTGGAAGGATGCGCCCAAAAGCCCTCCCAAT
 CAGATGTCGCTGAAGGCTGTCCACTTGACACAACCCACAGTCAGTCACACCAGAAACAAACCACTCCGA
 CCCAGATCTGGGAATGGCTGTGACTGAAGGCTTCTTTCTGAAGCCAGAGAATGCACTGTTTCTGAAGGC
 GTTCTACAAAGACACCAAGAAGCAGTTGAACCTGAATTCATTTCTCACGAGACTATAAAGAATTCA
 CTGTGCCTATAGTTTCTCTCAGAAAACAATCCAAGAATCACCTGAGCCTGAACAATTTACCTGAAAC
 ATGTCAACCAATACCTGGGCCTGAGAACTATTCCTGGAACCTGCCATGAAATGTGGGCCTGAAGAC
 CTCTCTATCAAGACCTGTGAGGACAGGAGGAGCCTAAACACAGCCTTCCAGAAGGAGCCAGAAAGTAG
 GTGGGGCCCAAGGCAGGACGCTGATGCACAGGACAGCGAGAACGCTGGTCTTTCTCTCAAGATTTTAC
 AGAAATGGAGGAAGGAAACAAAGCAGATCAAGATCCGGAAGCTCCAGCAAGCCACAAGTTCTCAAGAG
 ACCTGCCAGAAAATGGCATCTACAGCTCTGCTCTATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208081 representing NM_053149
 Red=Cloning site Green=Tags(s)

MDMGKGRPRLKLPQMPAHPQKSCAPDIIGSWSLRNREQLRKRKAEAQGRQTSQWLLGEQKRRKYQRTGK
 GNKRGRKRQGNVEQKAEPWSQTERERVQEVLVSAEEETEHPGNSATEALPLVPSPTKAVPADQCSEAHQE
 SIQCQERAIQNHSTHLSPITTCQGIQVAVLQHSKMCQDMAEPEVFSNMCQETAVPQTYPPKALEEMAAAE
 PLSPKMCQETTVPNHSSKVPQDMAGPEALSPNMCQEPVTPQEHLLKMHVDVARPEVLSPKTHQEMAVPK
 AFPCVTPGDAAGLEGAPKALPQSDVAEGCLDTPPTSVTPEQTTSDPDLGMAVTEGFFSEARECTVSEG
 VSTKTHQEAVEPEFISHETYKEFTVPIVSSQKTIQESPEPEQYSPETCQPIPGPENYSLETCHMSGPED
 LSIKTCQDREEPKHSLEGAQKVGAQGDADAQDSENAGAFSQDFTMEEGNKADQDPEAPASPQGSQE
 TCPENGIYSSALF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_053149

ORF Size: 1509 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_053149.2](#), [NP_444379.1](#)

RefSeq Size: 2310 bp

RefSeq ORF: 1512 bp

Locus ID: 93966

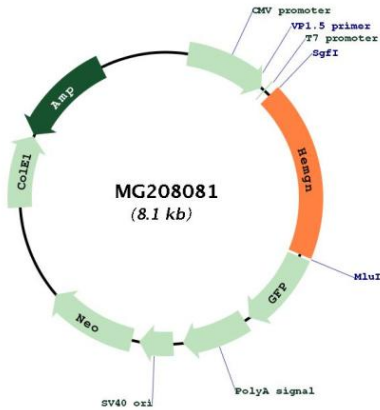
UniProt ID: [Q9ERZ0](#)

Cytogenetics: 4 B1

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) (By similarity).
 [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208081