

Product datasheet for **MR208081**

Hemgn (NM_053149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hemgn (NM_053149) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hemgn
Synonyms:	4921524M03Rik; AI317176; EDAG; Hgn; mNDR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208081 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGACATGGGAAGGGCCGACCTCGTCTGAAGCTCCCCAGATGCCTGAAGCTACCCACAGAAGTCTT
 GTGCTCCAGACATCATTGGATCTTGGAGTCTGAGAAACAGAGAACAACCTGAGGAAGAGAAAAGCTGAGGC
 CCAGGGGAGGCAGACATCACAATGGCTCCTTGGAGAACAGAAAAACGCAAGTATCAGAGAACAGGAAAA
 GGAAATAAAAGAGGCCGAAAGAGACAAGGGAACGTGGAGCAAAAGGCAGAGCCTTGGTCACAAACAGAAA
 GGGAAAGGGTGAAGAGGTATTGGTATCTGCTGAGGAAGAAACCGAGCACCCCTGGGAACTCTGCAACTGA
 AGCCCTCCCTTGGTCCCATCCCCACAAAAGCTGTGCCTGCAGATCAGTGTCTGAAGCACACCAAGAA
 AGCATTCAATGTCAAGAAAGAGCAATACAGAACCATTCTCAAACACACCTCTCTCCTACCACATGCCAAG
 GAATAGCAGTACTTCAACATTCTCTAAAATGTGCCAAGATATGGCCGAACCTGAGGTATTCTCTCTAA
 CATGTGCCAGGAGACAGCTGTGCCCAAACCTATCCTCCCAAAGCACTTGAAGAAATGGTGCAGCCGAG
 CCACTCTCTCTAAAATGTGCCAGGAAACAACCTGTGTCCCAAACCTATTCTCAAAGTGCCCAAGATA
 TGGCTGGACCTGAGGCTCTCTCTCTAACATGTGCCAGGAACCAACTGTGCCTCAAGAACATACTTTGAA
 AATGTGCCATGATGTGGCCAGACCTGAAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT
 GCCTTTCCCTGTGTAACACCTGGAGATGCTGCTGGCCTGGAAGGATGCGCCCCAAAAGCCCTCCCCAAT
 CAGATGTCGCTGAAGGCTGTCCACTTGACACAACCCCCACGTGAGTACACCCAGAACAAACCACTCCGA
 CCCAGATCTGGGAATGGCTGTGACTGAAGGCTTCTTTCTGAAGCCAGAGAATGCACTGTTTCTGAAGGC
 GTTCTACAAAGACACACCAAGAAGCAGTTGAACCTGAATTCATTTCTCACGAGACTATAAAGAATTCA
 CTGTGCCTATAGTTTCTCTCAGAAAACAATCCAAGAATCACCTGAGCCTGAACAATATTCACCTGAAAC
 ATGTCAACCAATACCTGGGCTGAGAACTATTCCTGGAACCTGCCATGAAATGTGGGGCCTGAAGAC
 CTCTCTATCAAGACCTGTGAGGACAGGAGGAGCCTAAACACAGCCTTCCAGAAGGAGGCCAGAAAGTAG
 GTGGGGCCCAAGGGCAGGACGCTGATGCACAGGACAGCGAGAACGCTGGTCTTTCTCTCAAGATTTTAC
 AGAAATGGAGGAAGGAAACAAAGCAGATCAAGATCCGGAAGCTCCAGCAAGCCCAAGGTTCTCAAGAG
 ACCTGCCAGAAAATGGCATCTACAGCTCTGCTCTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208081 protein sequence
 Red=Cloning site Green=Tags(s)

MDMGKGRPRLLKLPQMPAHPQKSCAPDIIGSWSLRNREQLRKRKAEAQGRQTSQWLLGEQKRRKYQRTGK
 GNKRGRKRQGNVEQKAEPWSQTERERVQEVLSAEEETEHPGNSATEALPLVPSPTKAVPADQCSEAHQE
 SIQCQERAIQNHSQTHLSPTTCQGI AVLQHSPKMCQDMAEPEVFSNMCQETAVPQTYPPKALEEMAAAE
 PLSPKMCQETTVPNHSSKVPQDMAGPEALSPNMCQEPVTPQEHTLKMCHDVARPEVLSPKTHQEMAVPK
 AFTPVTPGDAAGLEGCAPKALPQSDVAEGCPLDTPPTSVTPEQTTSDPDLGMAVTEGFFSEARECTVSEG
 VSTKTHQEA VEPEFISHETYKEFTVPIVSSQKTIQESPEPEQYSPETCQPIPGPENYSLETCHMSGPED
 LSIKTCQDREEPKHSLEGAQKVGGAQQDADAQDSENAGAFSQDFTEMEEGNKADQDPEAPASPQGSQE
 TCPENGIYSSALF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_053149

ORF Size: 1512 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_053149.1](#), [NM_053149.2](#), [NP_444379.1](#)

RefSeq Size: 2310 bp

RefSeq ORF: 1512 bp

Locus ID: 93966

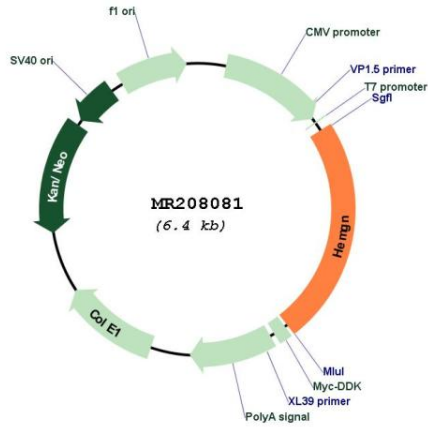
UniProt ID: Q9ERZO

Cytogenetics: 4 B1

MW: 55 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) (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208081