

Product datasheet for **RC201584**

HNRPM (HNRNPM) (NM_005968) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNRPM (HNRNPM) (NM_005968) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNRNPM
Synonyms:	CEAR; hnRNP M; HNRNPM4; HNRPM; HNRPM4; HTGR1; NAGR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC201584 representing NM_005968
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCAGGGTCAAGCGCGCGGAGGTGGCGCGCAGGAGATCAAAATGGAGGAAGAGAGCGGCG
 CGCCCGCGTGCCGAGCGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGCTCAGAATGA
 GAAGAGGAAGGAGAAAAACATAAAAAGAGGAGGAATCGCTTTGAGCCATATGCCAATCCAACTAAAAGA
 TACAGAGCCTTACATAAAACATACCTTTTGATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAA
 AAGTTGGTGAAGTAACATACGTGGAGCTCTAATGGACGCTGAAGGAAAGTCAAGGGGATGTGCTGTTGT
 TGAATTCAAGATGGAAGAGAGCATGAAAAAGCTGCGGAAGTCTAAACAAGCATAGTCTGAGCGGAAGA
 CCACTGAAAGTCAAAGAAGATCTGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGTGATGGCTACGA
 CTGGTGGGATGGGTATGGGACCAGGTGGCCAGGAATGATTACTATCCCACCCAGTATCCTAAATAATCC
 CAACATCCAAAATGAGATTATCCATGCATTACAGGCTGGAAGACTTGAAGCACAGTATTTGTAGCAAAAT
 CTGGATTATAAAGTTGGCTGGAAGAAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAG
 ACATTCCTGAAGATAAAGATGGAAGAAAGTCTGGGAATAGGCACTGTTACTTTTGAACAGTCCATTGAAGC
 TGTGCAAGCTATATCTATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAG
 AGGGCCTTACAAAAGGAGATTTCTTCCCTCCTGAGCGTCCACAACAACCTCCCCATGGCCTTGGTGGTA
 TTGGCATGGGGTTAGGACCAGGAGGGCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGG
 AAACATAGGTCCCGCAGGAATGGGAATGGAAGGCATAGGATTTGGAATAAATAAAATGGGAGGAATGGAG
 GGGCCCTTGGTGGTGGTATGGAACATGGGTGATTTGGATCTGGGATGAACATGGGCAGGATAAATG
 AAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGCAAAGCAGGGAGGAGGTGGAGGTGGAGGATG
 CGTCCCTGGGATCGAGAGGATGGGTCTGGCATTGACCGCTCGGGGGTCCCGCATGGAGCGCATGGGC
 GCGGGCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCATGGGCCTGGTCTGGACCGCA
 TGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCGCTGGGCCTCGACCACATGGCCTC
 CAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGCATGGGTGCCGGCATG
 GGCTTCGGCCTTGGAGCGCATGGCCGCTCCCATCGACCGTGTGGCCAGACCATGGAGCGCATGGGCTCTG
 GCGTGGAGCGCATGGGCCCTGCCATCGAGCGCATGGGCCTGAGCATGGAGCGCATGGTCCCCGAGGTAT
 GGGAGCTGGCCTGGAGCGCATGGGCCCGTGGATCGCATGGCCACCGCCTGGAGCGCATGGGCCTGGAGCGCA
 ACAATCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCAACAGCCTCGAGCGCATGGGCCTGGAGCGCA
 TGGGTGCCAACAGCCTCGAGCGCATGGGCCTGCCATGGGCCCGCCCTGGGCGCTGGCATTGAGCGCAT
 GGGCCTGGCCATGGGTGGCGGTGGCGGTGCCAGCTTTGACCGTCCATCGAGATGGAGCGTGGCAACTTC
 GGAGGAAGCTTCGCAGGTTCTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCC
 AGATATTTGTGAGAAATCTGCCATTCGATTTACATGGAAGATGCTAAAGGACAAATCAACGAGTGGCG
 CCACGTGCTGTACGCCGACATCAAGATGGAGAATGGGAAGTCCAAGGGGTGTGGCGTGGTTAAGTTGAG
 TCGCCAGAGGTGGCCGAGAGACCTGCCGGATGATGAATGGCATGAAGCTGAGTGGCCGAGAGATTGACG
 TTCGAATTGATAGAAACGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC201584 representing NM_005968
 Red=Cloning site Green=Tags(s)

MAAGVEAAAEVAATEIKMEEESGAPGVPSGNGAPGPKGEGERPAQNEKRKEKNIKRGGNRFEPYANPTKR
 YRAFITNIPFDVKWQSLKDLVKEKVGVEVTVVLLMDAEGKSRGCAVVEFKMEESMKKAAEVLNKHSLSGR
 PLKVKEDPDGEHARRAMQKVMATTGGMGMPGGPGMITIPPSILNPNIPNEIIHALQAGRLGSTVFNAN
 LDYKVGWKKLKEVFSMAGVVVRADILEDKDGKSRGIGTVTFEQSIEAVQAI SMFNGQLLFDRPMHVKMDE
 RALPKGDFPPPERPQQLPHGLGGIGMGLPGGGQPIDANHLNKGIGMGNIGPAGMGMEGIGFGINKMGGME
 GPFGGGMENMGRFGSGMNMGRINEILSNALKRGEIIAKQGGGGGGGSPGIERMGPIDRLGGAGMERMG
 AGLGHGMDRVGSEIERMGLVMDRMGSVERMGSGIERMGLGLDHMASSIERMQTMERIGSGVERMGAGM
 GFGLERMAAPIDRVGQTIERMGSVERMGPAIERMGLSMERMVPAGMGAGLERMGPVMDRMATGLERMGA
 NNLERMGLERMANSLERMGLERMANSLERMGPAMGPALGAGIERMGLAMGGGGASFDRAIEMERGNF
 GGSFAGSFGGAGGHAPGVARKACQIFVRNLPDFTWKMLKDKFNECGHVLADIKMENGSKSGCVVVFKE
 SPEVAERACRMMNGMKLSGREIDVIRIDNA

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

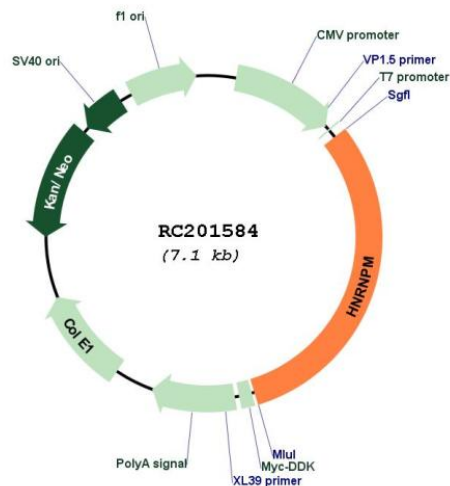
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_005968

ORF Size: 2190 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_005968.5](#)

RefSeq Size: 2547 bp

RefSeq ORF: 2193 bp

Locus ID: 4670

UniProt ID: [P52272](#)

Cytogenetics: 19p13.2

Domains: RRM

Protein Families: Druggable Genome

Protein Pathways: Spliceosome

MW: 77.5 kDa

Gene Summary: This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins and they complex with heterogeneous nuclear RNA (hnRNA). These proteins are associated with pre-mRNAs in the nucleus and appear to influence pre-mRNA processing and other aspects of mRNA metabolism and transport. While all of the hnRNPs are present in the nucleus, some seem to shuttle between the nucleus and the cytoplasm. The hnRNP proteins have distinct nucleic acid binding properties. The protein encoded by this gene has three repeats of quasi-RRM domains that bind to RNAs. This protein also constitutes a monomer of the N-acetylglucosamine-specific receptor which is postulated to trigger selective recycling of immature GlcNAc-bearing thyroglobulin molecules. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2011]