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Product datasheet for RC239026

HNRPM (HNRNPM) (NM_001297418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNRPM (HNRNPM) (NM_001297418) 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

ORF Nucleotide Sequence:

>RC239026 representing NM_001297418
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGAGAGCATGAAAAAAGCTGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAG
TCAAAGAAGATCCTGATGGTGAACATGCCAGGAGAGCAATGCAAAAGGTGATGGCTACGACTGGTGGGAT
GGGTATGGGACCAGGTGGCCCAGGAATGATTACTATCCCACCCAGTATCCTAAATAATCCCAACATCCCA
AATGAGATTATCCATGCATTACAGGCTGGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGATTATA
AAGTTGGCTGGAAGAAACTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGA
AGATAAAGATGGAAAAAGTCGTGGAATAGGCACTGTTACTTTTGAACAGTCCATTGAAGCTGTGCAAGCT
ATATCTATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGATGAGAGGGCCTTAC
CAAAAGGAGATTTCTTCCCTCCTGAGCGTCCACAACAACTTCCCCATGGCCTTGGTGGTATTGGCATGGG
GTTAGGACCAGGAGGGCAACCCATTGATGCCAATCACCTGAATAAAGGCATCGGAATGGGAAACATAGGT
CCCGCAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGAAAACATGGGTCGATTTGGATCTGGGATGAACA
TGGGCAGGATAAATGAAATCCTAAGTAATGCACTGAAGAGAGGAGAGATCATTGCAAAGCAGGGAGGAGG
TGGAGGTGGAGGAAGCGTCCCTGGGATCGAGAGGATGGGTCCTGGCATTGACCGCCTCGGGGGTGCCGGC
ATGGAGCGCATGGGCGCGGGCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCATGGGCC
TGGTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCGCTGGGCCT
CGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATTGGCTCTGGCGTGGAGCGC
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GGTGCCCGCAGGTATGGGAGCTGGCCTGGAGCGCATGGGCCCCGTGATGGATCGCATGGCCACCGGCCTG
GAGCGCATGGGCGCCAACAATCTGGAGCGGATGGGCCTGGAGCGCATGGGCGCCAACAGCCTCGAGCGCA
TGGGCCTGGAGCGCATGGGTGCCAACAGCCTCGAGCGCATGGGCCCTGCCATGGGCCCGGCCCTGGGCGC
TGGCATTGAGCGCATGGGCCTGGCCATGGGTGGCGGTGGCGGTGCCAGCTTTGACCGTGCCATCGAGATG
GAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTCCTTTGGTGGAGCTGGAGGCCATGCTCCTGGGGTGG
CCAGGAAGGCCTGCCAGATATTTGTGAGAAATCTGCCATTCGATTTCACATGGAAGATGCTAAAGGACAA
ATTCAACGAGTGCGGCCACGTGCTGTACGCCGACATCAAGATGGAGAATGGGAAGTCCAAGGGGTGTGGC
GTGGTTAAGTTCGAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGATGAATGGCATGAAGCTGAGTG
GCCGAGAGATTGACGTTCGAATTGATAGAAACGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

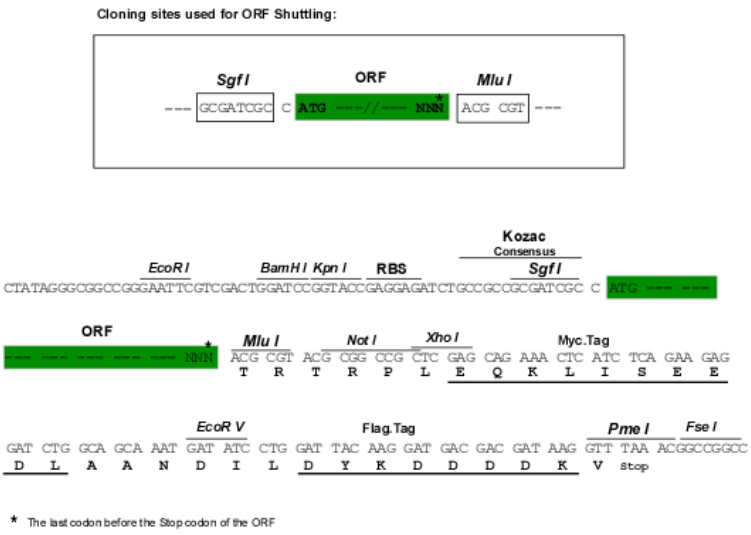
>RC239026 representing NM_001297418
Red=Cloning site Green=Tags(s)

MEESMKKAAEVLNKHSLSGRPLKVKEDPDGEHARRAMQKVMATTGGMGMGPGGPGMITIPPSILNNPNIP
NEIIHALQAGRLGSTVFVANLDYKVGWKKLKEVFSMAGVVVRADILEDKDGKSRGIGTVTFEQSIEAVQA
ISMFNGQLLFDRPMHVKMDERALPKGDFFPPERPQQLPHGLGGIGMGLGPGGQPIDANHLNKGIGMGNIG
PAGMEGPFGGGMENMGRFGSGMNMGRINEILSNALKRGEIIAKQGGGGGGSVPGIERMGPGIDRLGGAG
MERMGAGLGHGMDRVGSEIERMGLVMDRMGSVERMGSGIERMGPLGLDHMASSIERMGQTMERIGSGVER
MGAGMGFGLERMAAPIDRVGQTIERMGSGVERMGPAIERMGLSMERMVPAGMGAGLERMGPVMDRMATGL
ERMGANNLERMGLERMGANSLERMGLERMGANSLERMGPAMGPALGAGIERMGLAMGGGGGASFDRAIEM
ERGNFGGSFAGSFGGAGGHAPGVARKACQIFVRNLPFDFTWKMLKDKFNECGHVLYADIKMENGKSKGCG
VVKFESPEVAERACRMMNGMKLSGREIDVRIDRNA

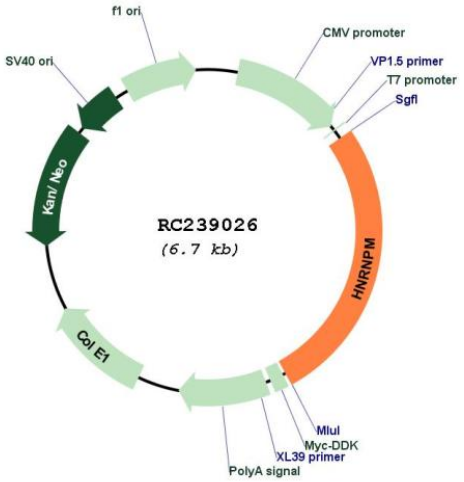
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001297418

ORF Size: 1785 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_001297418.2
RefSeq Size:	2540 bp
RefSeq ORF:	1788 bp
Locus ID:	4670
Cytogenetics:	19p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Spliceosome
MW:	63.4 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]