

## Product datasheet for **SC107969**

### **HNRPM (HNRNPM) (NM\_031203) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HNRPM (HNRNPM) (NM_031203) Human Untagged Clone
Tag:	Tag Free
Symbol:	HNRPM
Synonyms:	CEAR; hnRNP M; HNRNPM4; HNRPM; HNRPM4; HTGR1; NAGR1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC107969 sequence for NM\_031203 edited (data generated by NextGen Sequencing)

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ATGGCGGCAGGGGTCGAAGCGCGCGGAGGTGGCGGCGACGGAGATCAAAATGGAGGAA
GAGAGCGGCGCGCCCGCGTGCAGAGCGCAACGGGGCTCCGGCCCTAAGGGTGAAGGA
GAACGACCTGCTCAGAATGAGAAGGGAAGGAGAAAAACATAAAAAGAGGAGGCAATCGC
TTTGAGCCATATGCCAATCCAACATAAAGATAACAGAGCCTTATTACAAACATACCTTTT
GATGTGAAATGGCAGTCACTTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGTAACATAC
GTGGAGCTCTTAATGGACGCTGAAGGAAAAGTCAAGGGGATGTGCTGTTGTTGAATTCAAG
ATGGAAGAGAGCATGAAAAAGCTGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGA
CCACTGAAAGTCAAAGAAGATCCTGATGGTGAACATGCCAGGAGAGCAATGCAAAAAGCT
GGAAGACTTGGAAGCACAGTATTTGTAGCAAATCTGGATTATAAAGTTGGCTGGAAGAAA
CTGAAGGAAGTATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTGAAGATAAA
GATGGA AAAAGTCGTGGAATAGGCACTGTTACTTTTGAACAGTCCATTGAAGCTGTGCAA
GCTATATCTATGTTCAATGGCCAGCTGCTATTTGATAGACCAATGCACGTCAAGATGGAT
GAGAGGGCCTTACAAAAGGAGATTTCTCCCTCCTGAGCGTCCACAACAACCTCCCCAT
GGCCTTGGTGGTATTGGCATGGGGTTAGGACCAGGAGGGCAACCCATTGATGCCAATCAC
CTGAATAAAGGCATCGGAATGGGAAACATAGGTCCCGCAGGAATGGGAATGGAAGGCATA
GGATTTGGAATAAATAAAATGGGAGGAATGGAGGGGCCCTTTGGTGGTGGTATGGA AAAAC
ATGGGTGCGATTTGGATCTGGGATGAACATGGGCAGGATAAATGAAATCCTAAGTAATGCA
CTGAAGAGAGGAGAGATCATTGCAAAGCAGGGAGGAGGTGGAGGTGGAGGAAGCGTCCCT
GGGATCGAGAGGATGGGTCTGGCATTGACCGCTCGGGGTGCCGGCATGGAGCGCATG
GGCGGGCCCTGGGCCACGGCATGGATCGCGTGGGCTCCGAGATCGAGCGCATGGGCCTG
GTCATGGACCGCATGGGCTCCGTGGAGCGCATGGGCTCCGGCATTGAGCGCATGGGCCCG
CTGGGCCTCGACCACATGGCCTCCAGCATTGAGCGCATGGGCCAGACCATGGAGCGCATT
GGCTCTGGCGTGGAGCGCATGGGTGCCGGCATGGGCTTCGGCCTTGAGCGCATGGCCGCT
CCCATCGACCGTGTGGGCCAGACCATTGAGCGCATGGGCTCTGGCGTGGAGCGCATGGGC
CCTGCCATCGAGCGCATGGGCCTGAGCATGGAGCGCATGGTGCCCGCAGGTATGGGAGCT
GGCCTGGAGCGCATGGGCCCGTGATGGATCGCATGGCCACCGGCCTGGAGCGCATGGGC
GCCAACAACTGGAGCGGATGGGCCTGGAGCGCATGGGCGCAACAGCCTCGAGCGCATG
GGCCTGGAGCGCATGGGTGCCAACAGCCTCGAGCGCATGGGCCCGCCATGGGCCGGCC
CTGGGCGCTGGCATTGAGCGCATGGGCCTGGCCATGGGTGGCGGTGGCGGTGCCAGCTTT
GACCGTGGCATCGAGATGGAGCGTGGCAACTTCGGAGGAAGCTTCGCAGGTTCTTTGGT
GGAGCTGGAGGCCATGCTCCTGGGGTGGCCAGGAAGGCCTGCCAGATATTTGTGAGAAAT
CTGCCATTCGATTTACATGGAAGATGCTAAAGGACAAATTCAACGAGTGGGCCACGTCG
CTGTACGCCGACATCAAGATGGAGAATGGGAAGTCCAAGGGGTGGTGTGGTTAAGTTC
GAGTCGCCAGAGGTGGCCGAGAGAGCCTGCCGGATGATGAATGGCATGAAGCTGAGTGGC
CGAGAGATTGACGTTCAATTGATAGAAAACGCTTAA

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Clone variation with respect to NM\_031203.3  
 1665 t=>c;1968 c=>t

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_031203 unedited  
 TTCACATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGAATGGCGGCAGG  
 GGTCTGAAGCGGCGCGGAGGTGGCGGCGACGGAGATCAAATGGAGGAAGAGAGCGGCGC  
 GCCCGCGTGGCAGCGGCAACGGGGCTCCGGGCCCTAAGGGTGAAGGAGAACGACCTGC  
 TCAGAATGAGAAGAGGAAGGAGAAAAACATAAAAAAGAGGAGGCAATCGCTTTGAGCCATA  
 TGCCAATCCAACATAAAGATAACAGAGCCTTCATTACAAACATACCTTTTGTGTGAAATG  
 GCAGTCACCTAAAGACCTGGTTAAAGAAAAAGTTGGTGAGGTAACATACGTGGAGCTCTT  
 AATGGACGCTGAAGGAAAGTCAAGGGGATGTGCTGTTGTTGAATTCAGATGGAAGAGAG  
 CATGAAAAAAGCTGCGGAAGTCCTAAACAAGCATAGTCTGAGCGGAAGACCACTGAAAGT  
 CAAAGAAGATCCTGATGGTGAACATGCCAGGAGAGCAATGCAAAAAGGCTGGAAGACTTGG  
 AAGCACAGTATTTGTAGCANATCTGGATTATANAGTTGGCTGGNAGAACTGANNNAGT  
 ATTTAGTATGGCTGGTGTGGTGGTCCGAGCAGACATTCTTNGAGATAAAGATGGGAAAAG  
 TCGNTGGATANGCACTGGTACTTNTTGACAGTCCCATTGAGCTGTGNCAGCTATATCTAT  
 GTTCAATGGCCAGCTGCTATTTGATAGACCCATGCACCGTCAGATGGATTGAGAGGCCNT  
 ACCAAAAAGAGAATTTTCTTCTNCTGAGCGTCCACANCAACCTCCCATGGGCCTNGTT  
 GTATTGGCCATGGGGTTAGGCCCAAGGCACCCATTGATGCCATCACCTGAATAAAGC  
 ATCCGGAATGGGAATAAGTCCGCCGGGATGGGAATGGAAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_031203 unedited  
 TCTGGACCGGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTCAGGAACCG  
 GTATTTATTATCAAAGTCATATTCGATGTCAACAAGATGCCACAACACTACAAAAAATTG  
 CGCACATTGCAATCTCAATGCAAACAGTCAAATGGAACCCAGTCATTA AAAAAGTAATT  
 CAAATTACCCAAAAAGCAACTGAATTTTTTAAACATCTTTATACATCCAGCCAACAAAT  
 TAAATGGTTAAACAAGAAAAAATACAAATTCAGAGGTCTCGTATCGATGTTAAAAAAGG  
 CAACTGCTTAAGCGTTTCTATCAATTCGAACGTCAATCTCTCGGCCACTCAGCTTCATGC  
 CATTATCATCCGGCAGGCTCTCTCGGCCACCTCTGGCGACTCGAACTTAACCACACCAC  
 ACCCCTTGGACTCCCATTCTCCATCTTGATGTCGGCGTACAGCACGTGGCCGCACTCGT  
 TGAATTTGTCCTTAGCATCTCCATGTGAAATCGAATGGCAGATTTCTCACAAATATCT  
 GGCAGGCTTCTGGCCACCCAGGAGCATGGCCTCCAGCTCCACCAAAGGAACCTGCCA  
 AGCTTCTCCGAAGTTGCCACGCTCCATCTCGATGGCACGGTCAAAGCTGGCACCCGCA  
 CGCCACCCATGGCCAGGCCCATGCGCTCAATGCCAGCGCCAGGGCCGGCCCATGGCGG  
 GGCCCATGCGCTCGAGGCTGTTGGCACCCATGCGCTNCAGGCCCATGCGCTCGAGGCTTG  
 TGGCGCCCATGCGCTCCAGGCCATCCGCTCCAGATTTGTGGCGCCATGCGCTNCAGGC  
 CGNTGGCCATGCGATCCATCACGGGGCCNATGCGCNTCAGCCAGCNCCATTACTGNGGGC  
 ACATGCGCTCATGCTNCAGCCATGCGCTCGATGCAGGGCCATGCGCTCCACGCAGAGCCA  
 TGGCTCATGGTCTGCCAACNGTCGATGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_031203

**Insert Size:**

2380 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\\_031203.1](#), [NP\\_112480.1](#)

**RefSeq Size:** 2586 bp

**RefSeq ORF:** 2076 bp

**Locus ID:** 4670

**UniProt ID:** [P52272](#)

**Cytogenetics:** 19p13.2

**Domains:** RRM

**Protein Families:** Druggable Genome

**Protein Pathways:** Spliceosome

**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]

Transcript Variant: This variant (2) lacks an in-frame segment in the coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.