

## Product datasheet for **RC201834**

### **HNRPH1 (HNRNPH1) (NM\_005520) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HNRPH1 (HNRNPH1) (NM_005520) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNRPH1
Synonyms:	hnRNPH; HNRPH; HNRPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC201834 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGATGTTGGGCACGGAAGGTGGAGAGGGATTCTGTTGAAGGTCCGGGGCTTGCCCTGGTCTTGCTCGG  
 CCGATGAAGTGCAGAGGTTTTTTCTGACTGCAAAATTCAAAATGGGGCTCAAGGTATTCGTTTCATCTA  
 CACCAGAGAAGGCAGACCAAGTGCGAGGCTTTTGTGAAGTGAATCAGAAGATGAAGTCAAAATGGCC  
 CTGAAAAAAGACAGAGAACTATGGGACACAGATATGTTGAAGTATCAAGTCAAACAACGTTGAAATGG  
 ATTGGGTGTTGAAGCATACTGGTCCAAATAGTCTGACACGGCCAATGATGGCTTTGTACGGCTTAGAGG  
 ACTTCCCTTTGGATGTAGCAAGGAAGAAATTGTTCAAGTCTTCTCAGGGTTGAAATCGTGCCAAATGGG  
 ATAACATTGCCGGTGGACTTCCAGGGGAGGAGTACGGGGGAGGCCTTCGTGCAGTTTGCTTCACAGGAAA  
 TAGCTGAAAAGGCTCTAAAGAAACACAAGGAAAGAATAGGGCACAGGTATATTGAAATCTTAAAGAGCAG  
 TAGAGCTGAAGTTAGAAGTCAATGATCCACCACGAAAGCTTATGGCCATGCAGCGCCAGGTCTTAT  
 GACAGACCTGGGGCTGGTAGAGGTATAACAGCATTGGCAGAGGAGCTGGCTTTGAGAGGATGAGGCGTG  
 GTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGATGGCTATGGATTTGGGTC  
 AGATAGATTTGGAAGAGACCTCAATTACTGTTTTTCAGGAATGTCTGATCACAGATACGGGGATGGTGGC  
 TCTACTTTCCAGAGCACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACTGAGAATG  
 ACATTTATAATTTTTTTTCCCGCTCAACCCTGTGAGAGTACACATTGAAATTTGGTCTGATGGCAGAGT  
 AACTGGTGAAGCAGATGTCGAGTTCGAACTCATGAAGATGCTGTGGCAGCTATGTCAAAAGACAAAAGCA  
 AATATGCAACACAGATATGTAGAAGTCTTCTTGAATTTACAGCAGGAGCAAGCGGTGGTCTTACGAAC  
 ACAGATATGTAGAAGTCTTCTTGAATTTACAGCAGGAGCAAGCGGTGGTCTTATGGTAGCCAAATGAT  
 GGGAGGCATGGGCTTGTCAAACAGTCCAGCTACGGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTTAC  
 GGAGGCGGCTACGGTGGCCAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACCTCAGTGATT  
 TTCAATCAAACATTGCA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201834 protein sequence  
 Red=Cloning site Green=Tags(s)

MMLGTEGGEFVVKVRLPWSCSADEVQRFFSDCKIQNGAQGIRFIYTREGRPSGEAFVELESEDEVKLA  
 LKKDRETMGHRYEVFKSNNVEMDWLKHGTPNSPDTANDGFVRLRGLPFGCSKEEIVQFFSGLEIVPNG  
 ITLPVDFQGRSTGEAFVQFASQEI AEKALKKKHKEIGHRYIEIFKSSRAEVRTHYDPPRKLMMQRP  
 DRPGAGRGYNSIGRGAGFERMRGAYGGYGGYDDYNGYNDGYGFGSDRFGRDLNYCFSGMSDHYGDGG  
 STFQSTTGHCVMRGLPYRATENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSKDKA  
 NMQHRYVELFLNSTAGASGGAYEHRYVELFLNSTAGASGGAYGSQMMGMGLSNQSSYGGPASQQLSGGY  
 GGGYGGQSSMSGYDQVLQENSSDFQSNIA

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6085\\_f02.zip](https://cdn.origene.com/chromatograms/mk6085_f02.zip)

**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_005520

ORF Size: 1347 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

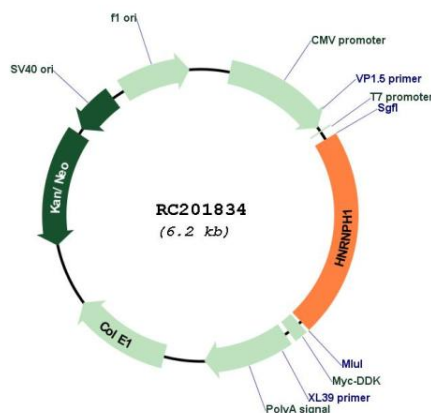
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

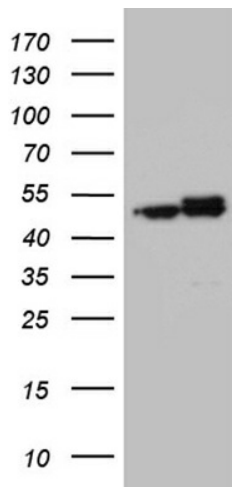
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_005520.3</a>
<b>RefSeq Size:</b>	2274 bp
<b>RefSeq ORF:</b>	1350 bp
<b>Locus ID:</b>	3187
<b>UniProt ID:</b>	<a href="#">P31943</a>
<b>Cytogenetics:</b>	5q35.3
<b>Domains:</b>	RRM
<b>MW:</b>	49.2 kDa
<b>Gene Summary:</b>	This gene encodes a member of a subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA binding proteins that complex with heterogeneous nuclear RNA. 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 may 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 RNA and is very similar to the family member HNRPF. This gene may be associated with hereditary lymphedema type I. Alternatively spliced transcript variants have been described [provided by RefSeq, Mar 2012]

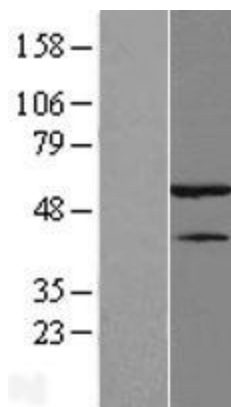
## Product images:



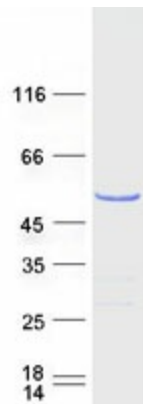
Circular map for RC201834



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HNRNPH1 (Cat# RC201834, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HNRNPH1 antibody (Cat# [TA810894]). Positive lysates [LY417247] (100ug) and [LC417247] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY417247]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201834 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPH1 protein (Cat# [TP301834]). The protein was produced from HEK293T cells transfected with HNRNPH1 cDNA clone (Cat# RC201834) using MegaTran 2.0 (Cat# [TT210002]).