

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**CGCATCGCC**

ATGATGTTGGGCACGGAAGGTGGAGAGGGATTCGTGGTGAAGGTCGGGGCTTGCCTGGTCTTGCTCGG
 CCGATGAAGTGCAGAGGTTTTTTCTGACTGCAAATTCAAAATGGGGCTCAAGGTATTCGTTTCATCTA
 CACCAGAGAAGGCAGACCAAGTGCCGAGGCTTTTGTGAACCTGAATCAGAAGATGAAGTCAAATGGCC
 CTGAAAAAAGACAGAAACTATGGGACACAGATATGTTGAAGTATTCAAGTCAAACAACGTTGAAATGG
 ATTGGGTGTTGAAGCATACTGGTCCAAATAGTCTGACACGGCCAATGATGGCTTTGTACGGCTTAGAGG
 ACTTCCCTTTGGATGTAGCAAGGAAGAAATTTTCAGTCTTCTCAGGGTTGAAATCGTGCCAAATGGG
 ATAACATTGCCGGTGGACTTCCAGGGGAGGAGTACGGGGAGGCCTTCGTGCAGTTTGCTTACAGGAAA
 TAGCTGAAAAGGCTCTAAAGAAACACAAGGAAAGAATAGGGCACAGGTATATTGAAATCTTAAAGAGCAG
 TAGAGCTGAAGTTAGAACTCATTATGATCCACCACGAAAGCTTATGGCCATGCAGCGGCCAGGTCCTTAT
 GACAGACCTGGGCTGGTAGAGGTATAACAGCATTGGCAGAGGAGCTGGCTTTGAGAGGATGAGGCGTG
 GTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGATGGCTATGGATTTGGGTC
 AGATAGATTTGGAAGAGACCTCAATTAAGTGTGTTTTCAGGAATGTCTGATCACAGATACGGGGATGGTGGC
 TCTACTTTCCAGAGCACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACTGAGAATG
 ACATTTATAATTTTTTCCACCGCTCAACCCTGTGAGAGTACACATTGAAATTTGGTCTGATGGCAGAGT
 AACTGGTGAAGCAGATGTCGAGTTCGAACTCATGAAGATGCTGTGGCAGCTATGTCAAAGACAAAAGCA
 AATATGCAACACAGATATGTAGAACTCTTCTTGAATTCACAGCAGGAGCAAGCGGTGGTCTTACGAAC
 ACAGATATGAGAACTCTTCTTGAATTCACAGCAGGAGCAAGCGGTGGTCTTATGGTAGCCAAATGAT
 GGGAGGCATGGGCTTGTCAAACCAGTCCAGCTACGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTTAC
 GGAGGCGCTACGGTGGCCAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACCTCAGTGATT
 TTCAATCAAACATTGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MMLGTEGGEFVVKVRGLPWSCSADEVQRFFSDCKIQNGAQGIRFIYTREGRPSGEAFVELESEDEVKLA
 LKKDRETMGHRYVEVFKSNNVEMDWLKHGPNPDTANDGFVRLRGLPFGCSKEEIVQFFSGLEIVPNG
 ITLPVDFQGRSTGEAFVQFASQIEAEKALKKKKERIGHRYIEIFKSSRAEVRTHYDPPRKLMMAMQRP
 DRPGAGRGYNSIGRGAGFERMRRGAYGGYGGYDDYNGYNDGYGFGSDRFGRDLNYCFSGMSDHRYG
 DGGSTFQSTTGHCVHMRGLPYRATENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSK
 DKANMQHRYVELFLNSTAGASGGAYEHRYVELFLNSTAGASGGAYGSQMMGMGLSNQSSYGGPASQQLSGG
 YGGYGGQSSMSGYDQVLQENSSDFQSNIA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6085_f02.zip

Restriction Sites:

Sgfl-Mlul

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 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).

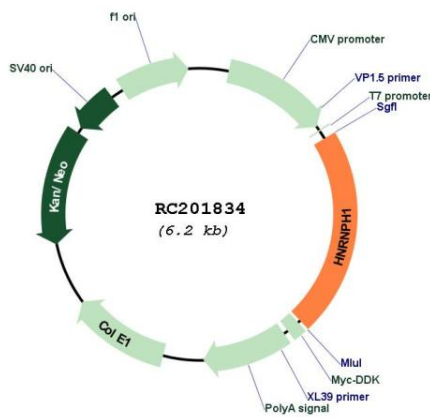
Reconstitution Method:

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.

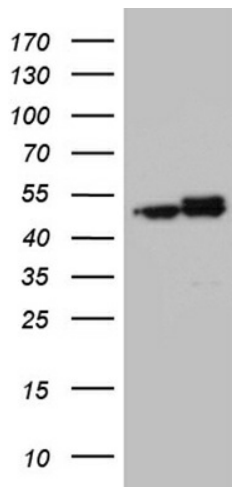
RefSeq: [NM_005520.3](#)
RefSeq Size: 2274 bp
RefSeq ORF: 1350 bp
Locus ID: 3187
UniProt ID: [P31943](#)
Cytogenetics: 5q35.3
Domains: RRM
MW: 49.2 kDa

Gene Summary: 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]

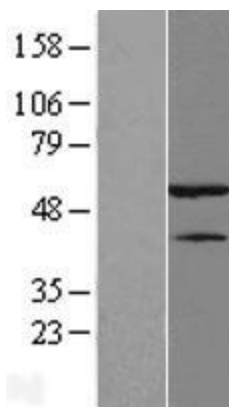
Product images:



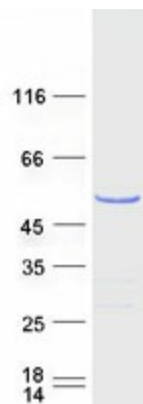
Circular map for RC201834



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]).