

Product datasheet for **RC201695**

HNRNPC (NM_004500) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Tag: Myc-DDK

Symbol: HNRNPC

Synonyms: C1; C2; HNRNP; HNRPC; SNRPC

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC201695 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGCAACGTTACCAACAAGACAGATCCTCGCTCCATGAACTCCCGTGTATTCATTGGGAATCTCA
ACACTCTTGTGGTCAAGAAATCTGATGTGGAGGCAATCTTTTGAAGTATGGCAAATTTGGGGTGCTC
TGTTCAATAAGGGCTTTCCTTCGTTCACTATGTTAATGAGAGAAATGCCCGGGCTGCTGTAGCAGGAGAG
GATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAGTGAACCGAGGAA
AAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGCTCCTCTTTGACTTGGACTATGACTTTCAACG
GGACTATTATGATAGGATGTACAGTTACCCAGCACGTGTACCTCCTCCTCCTATTGCTCGGGCTGTA
GTGCCCTCGAAACGTGAGCGTGTATCAGGAAACACTTCACGAAGGGGCAAAAGTGCTTCAATTCTAAGA
GTGGACAGCGGGGATCTTCCAAGTCTGGAAGTTGAAAGGAGATGACCTTCAGGCCATTAAGAAGGAGCT
GACCCAGATAAAACAAAAGTGGATTCTCTCTGGAAAACCTGGAAAAATTGAAAAGGAACAGAGCAAA
CAAGCAGTAGAGATGAAGAATGATAAGTCAGAAGAGGAGCAGAGCAGCTCCGTGAAGAAAGATGAGA
CTAATGTGAAGATGGAGTCTGAGGGGGTGCAGATGACTCTGCTGAGGAGGGGGACCTACTGGATGATGA
TGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGATCAAGGATGATGAAAAAGAGGCTGAGGAAGGA
GAGGATGACAGAGACAGGCCAATGGCGAGGATGACTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201695 protein sequence
 Red=Cloning site Green=Tags(s)

MASNVTNKTDPRSMNSRVFIGNLNTLVVKKSDVEAIFSKYGKIVGCSVHKGF AFVQYVNERNARA AVAGE
 DGRMIAGQVL D INLAAEPKVN RGKAGVKRSAAEMYGSSFDLDYDFQRDYYDRMYSYPARVPPPPPIARAV
 VPSKRQRVSGNTSRRGKSGFNSKSGQRGSSKSGKLKGGDLQA IKKELTQIKQKVD S LLENLEKIEKEQSK
 QAVEMKNDKSEEEQSSSSVKKDET NVKMESEGGADDSAE GDLDDDDNEDRGDDQL EL IKDDEKEAE EG
 EDDRDSANGEDDS

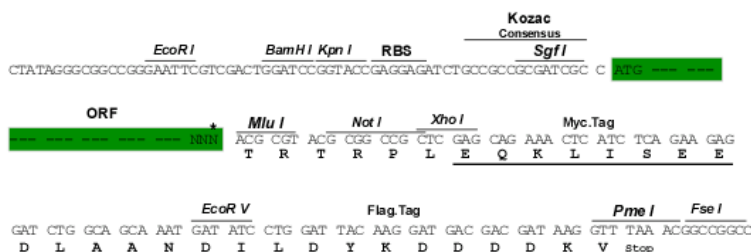
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6192_d07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 004500

ORF Size: 879 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_004500.4](#)

RefSeq Size: 3213 bp

RefSeq ORF: 882 bp

Locus ID: 3183

UniProt ID: [P07910](#)

Cytogenetics: 14q11.2

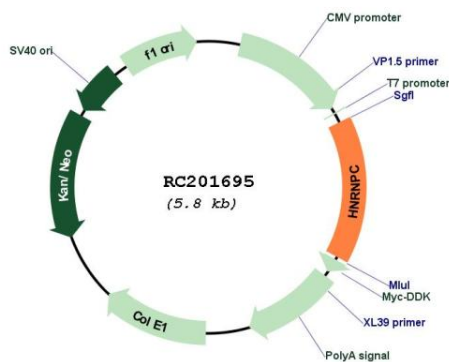
Domains: RRM

Protein Pathways: Spliceosome

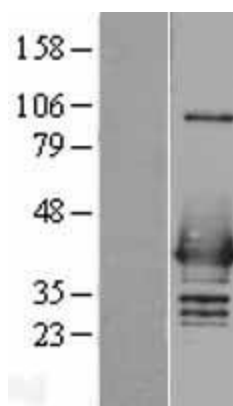
MW: 32.3 kDa

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 can act as a tetramer and is involved in the assembly of 40S hnRNP particles. Multiple transcript variants encoding at least two different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201695



Western blot validation of overexpression lysate (Cat# [LY401430]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201695 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).