

## Product datasheet for **RC204921**

### hnRNP K (HNRNPK) (NM\_031262) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP K (HNRNPK) (NM_031262) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	hnRNP K
Synonyms:	AUKS; CSBP; HNRPK; TUNP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC204921 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAACCTGAACAGCCAGAAGAAACCTTCCTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTG  
 CAGAAGATATGGAAGAGGAACAAGCATTAAAAGATCTAGAAACACTGATGAGATGGTTGAATTACGCAT  
 TCTGCTTCAGAGCAAGAATGCTGGGCGAGTATTGGAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACA  
 GACTACAATGCCAGTGTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGTGATA  
 TTGAAACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGAAGAGGGCCTGCAGTTGCCATCACC  
 CACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACTATAAAGGA  
 AGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTCAAAG  
 GTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTCCAGGAATGCTGTCTCA  
 TTCCACTGACAGAGTTGTTCTTATTGGAGAAAACCCGATAGGGTGTAGAGTGCATAAAGATCATCCTT  
 GATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTACGATGAAACCT  
 ATGATTATGGTGGTTTTACAATGATGTTTGATGACCGTCGCGGACGCCAGTGGGATTTCCCATGCGGGG  
 AAGAGGTGGTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTAT  
 GATGATATGAGCCCTCGTCGAGGACCACCTCCCCCTCCTCCCGGACGAGGCGGCCGGGTGGTAGCAGAG  
 CTCGGAATCTTCTCTTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGG  
 GAGACCTGGAGACCGTTACGACGGCATGGTTGGTTTTCAGTGTGATGAAACTTGGGACTGTCAATAGAT  
 ACATGGAGCCCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATG  
 CAGGGGGTCTGGCTCATATGGTGATCTTGGTGGACCTATTATTACTACACAAGTAACTATCCCAAAGA  
 TTTGGCTGGATCTATTATTGGCAAAGGTGGTCAAGCGATTAAACAAATCCGTCATGAGTCGGGAGCTTCG  
 ATCAAATTTGATGAGCCTTTAGAAGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGA  
 TACAGAATGCACAGTATTGCTGCAGAACAGTGTGAAGCAGTATTCTGGAAGTTTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC204921 protein sequence  
 Red=Cloning site Green=Tags(s)

METEQPEETFPNTEINGEFGKRPAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGGGKNIKALRT  
 DYNASVSPDSSGPERILSISADIETIGEILKKIIPBLEEGLQLPSPTATSQLPLESDAVECLNYQHYKG  
 SDFDCELRLLIHQSLAGGIIGVKGAKIKELRENTQTIIKLFQECPPHSTDRVVLIGGKPDVVECIKIIIL  
 DLISESPIKGRAQPYDPNFYDETYDYGFTMMFDDRRGRPVGFPMRGRGGFDRMPPGRGGRPMPPSRDY  
 DDMSPRRGPMPGRGGRGSRNLPLPPPPPRGGDLMAYDRRGRPGDRYDGMVGFSADETWDSAID  
 TWSPSEWQMAIEPQGGSGYDYSYAGGRGSYDLGGPIITQVTIPKDLAGSIIGKGGQRIKQIRHESGAS  
 IKIDEPLEGSEDRIITITGTQDQIQNAQYLLQNSVKQYSKFF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6667\\_f10.zip](https://cdn.origene.com/chromatograms/mk6667_f10.zip)

**Restriction Sites:**

Sgfl-Mlul

## Cloning Scheme:



ACCN: NM\_031262

ORF Size: 1389 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\\_031262.3](#)

RefSeq Size: 2935 bp

RefSeq ORF: 1392 bp

Locus ID: 3190

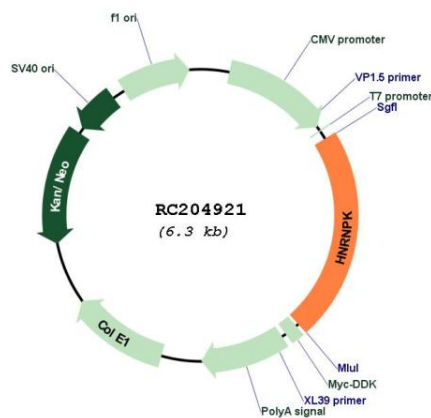
UniProt ID: [P61978](#)

Cytogenetics: 9q21.32

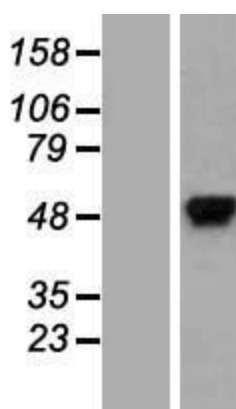
**Domains:** KH  
**Protein Pathways:** Spliceosome  
**MW:** 51 kDa

**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 is located in the nucleoplasm and has three repeats of KH domains that binds to RNAs. It is distinct among other hnRNP proteins in its binding preference; it binds tenaciously to poly(C). This protein is also thought to have a role during cell cycle progression. Several alternatively spliced transcript variants have been described for this gene, however, not all of them are fully characterized. [provided by RefSeq, Jul 2008]

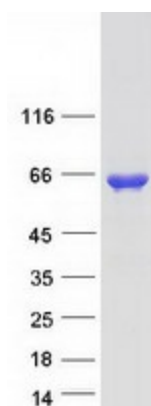
### Product images:



Circular map for RC204921



Western blot validation of overexpression lysate (Cat# [LY410602]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204921 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPK protein (Cat# [TP304921]). The protein was produced from HEK293T cells transfected with HNRNPK cDNA clone (Cat# RC204921) using MegaTran 2.0 (Cat# [TT210002]).