

Product datasheet for **RC201843**

hnRNP K (HNRNPK) (NM_002140) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP K (HNRNPK) (NM_002140) 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:

>RC201843 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAACCTGAACAGCCAGAAGAAACCTCCCTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTG
 CAGAAGATATGGAAGAGGAACAAGCATTAAAAGATCTAGAAACACTGATGAGATGGTTGAATTACGCAT
 TCTGCTTCAGAGCAAGAATGCTGGGGCAGTGATTGGAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACA
 GACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGCTGATA
 TTGAAACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGAAGAGGGCCTGCAGTTGCCATCACC
 CACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACTATAAAGGA
 AGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTCAAAG
 GTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTCCAGGAATGCTGCTCTCA
 TTCCACTGACAGAGTTGTTCTTATTGGAGGAAACCCGATAGGGTGTAGAGTGCATAAAGATCATCCTT
 GATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTACGATGAAACCT
 ATGATTATGGTGGTTTTACAATGATGTTTGATGACCGTCGCGGACGCCAGTGGGATTTCCCATGCGGGG
 AAGAGGTGGTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTAT
 GATGATATGAGCCCTCGTCGAGGACCACCTCCCCCTCCTCCCGGACGAGGCGGCCGGGTGGTAGCAGAG
 CTCGGAATCTTCTCTTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGG
 GAGACCTGGAGACCGTTACGACGGCATGGTTGGTTTCAGTGCTGATGAACTTGGACTCTGCAATAGAT
 ACATGGAGCCCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATG
 CAGGGGGTCGTGGCTCATATGGTGATCTTGGTGGACCTATTATTACTACACAAGTAACTATCCCAAAGA
 TTTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGATTAACAAATCCGTCATGAGTCGGGAGCTTCG
 ATCAAATTTGATGAGCCTTTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGA
 TACAGAATGCACAGTATTGCTGCAGAACAGTGTGAAGCAGTATGCAGATGTTGAAGATTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201843 protein sequence
 Red=Cloning site Green=Tags(s)

METEQPEETFPNTEINGEFGKRPAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGGGKNIKALRT
 DYNASVSPDSSGPERILSISADIETIGEILKKIIPBLEEGLQLPSPTATSQLPLESDAVECLNYQHYKG
 SDFDCELRLLIHQSLAGGIIGVKGAKIKELRENTQTIIKLFQECPPHSTDRVVLIGGKPDVVVCEIKIIL
 DLISESPIKGRAQPYDPNFYDETYDYGFTMMFDDRRGRPVGFPMRGRGGFDRMPPGRGGRPMPPSRDY
 DDMSPRRGPPPPPPGRGGRGSRNLPLPPPPPRGGDLMAYDRRGRPGDRYDGMVGFSADETWDSAID
 TWSPSEWQMAIEPQGGSGYDYSYAGGRGSYDLGGPIITQVTIPKDLAGSIIGKGGQRIKQIRHESGAS
 IKIDEPLGESDRIITITGTQDQIQNAQYLLQNSVKQYADVEGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6151_h12.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_002140

ORF Size: 1392 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_002140.4](#)

RefSeq Size: 2995 bp

RefSeq ORF: 1395 bp

Locus ID: 3190

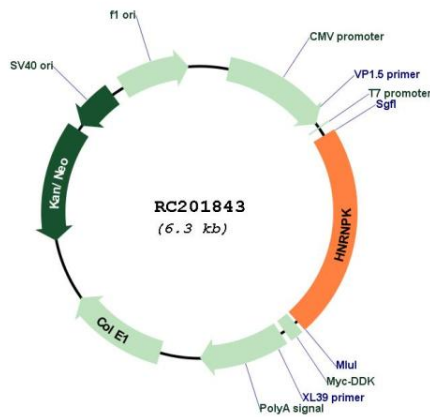
UniProt ID: [P61978](#)

Cytogenetics: 9q21.32

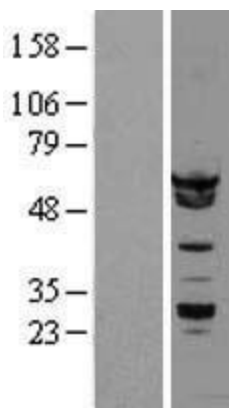
Domains: KH
Protein Pathways: Spliceosome
MW: 51 kDa

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]

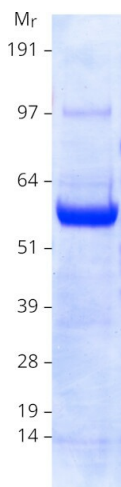
Product images:



Circular map for RC201843



Western blot validation of overexpression lysate (Cat# [LY400779]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201843 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPK protein (Cat# [TP301843]). The protein was produced from HEK293T cells transfected with HNRNPK cDNA clone (Cat# RC201843) using MegaTran 2.0 (Cat# [TT210002]).