

Product datasheet for **RG201843**

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:	TurboGFP
Symbol:	hnRNP K
Synonyms:	AUKS; CSBP; HNRPK; TUNP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG201843 representing NM_002140
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAACTGAACAGCCAGAAGAAACCTTCCTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTG
 CAGAAGATATGGAAGAGGAACAAGCATTAAAAGATCTAGAAACACTGATGAGATGGTTGAATTACGCAT
 TCTGCTTCAGAGCAAGAATGCTGGGCGAGTGATTGAAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACA
 GACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGTGATA
 TTGAAACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGAAGAGGGCCTGCAGTTGCCATCACC
 CACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACTATAAAGGA
 AGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTCAAAG
 GTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTCCAGGAATGCTGCTCTCA
 TTCCACTGACAGAGTTGTTCTTATTGGAGAAAACCCGATAGGGTGTAGAGTGCATAAAGATCATCCTT
 GATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTACGATGAAACCT
 ATGATTATGGTGGTTTTACAATGATGTTTGATGACCGTCGCGGACGCCAGTGGGATTTCCCATGCGGGG
 AAGAGGTGGTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTAT
 GATGATATGAGCCCTCGTCGAGGACCACCTCCCCCTCCTCCCGGACGAGGCGGCCGGGTGGTAGCAGAG
 CTCGGAATCTTCTCTTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGG
 GAGACCTGGAGACCGTTACGACGGCATGGTTGGTTTTCAGTGTGATGAAACTTGGACTCTGCAATAGAT
 ACATGGAGCCCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATG
 CAGGGGGTCTGGCTCATATGGTGATCTTGGTGGACCTATTATTACTACACAAGTAACTATCCAAAGA
 TTTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGATTAACAAATCGGTCATGAGTCGGGAGCTTCG
 ATCAAAATTGATGAGCCTTTAGAAGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGA
 TACAGAATGCACAGTATTGCTGCAGAACAGTGTGAAGCAGTATGCAGATGTTGAAGGATTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG201843 representing NM_002140
 Red=Cloning site Green=Tags(s)

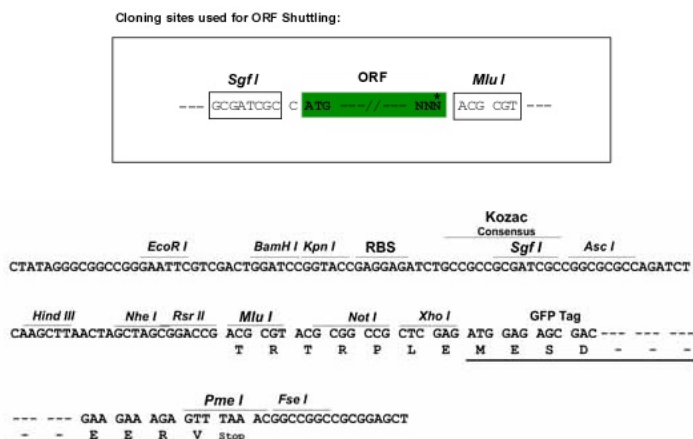
METEQPEETFPNTEFNTEFGKRPAAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGKGGKNIKALRT
 DYNASVSPDSSGPERILSISADIETIGEILKKIIPTELEGLQLPSPTATSQLPLESDAVECLNYQHKG
 SDFDCELRLLIHQSLAGGIIGVKGAKIKELRENTQTTIKLFQECPPHSTDRVVLIGGKPDVVVECIKIL
 DLISESPIKGRAQPYDPNFYDETYDYGFTMMFDDRRGRPVGFPMRGRGGFDRMPPGRGGRPMPSSRRDY
 DDMSPRRGGPPPPPPGRGGGSRARNLPLPPPPPRGGDL MAYDRRGRPGDRYDGMVGFSADETWD SAID
 TWSPSEWQMAYEPQGGSGYDYSYAGGRGSYDGLGGPIITTVTIIPKDLAGSIIGKGGQRIKQIRHESGAS
 IKIDEPLEGSEDRIITITGTQDQIQNAQYLLQNSVKQYADVEGF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-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: 2830 bp

RefSeq ORF: 1395 bp

Locus ID: 3190

UniProt ID: [P61978](#)

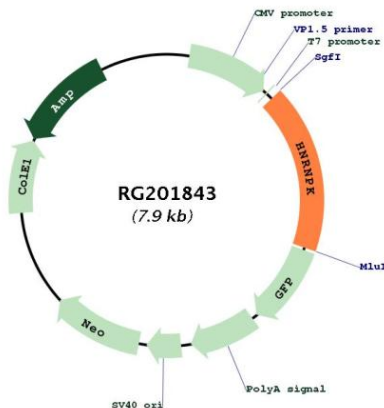
Cytogenetics: 9q21.32

Domains: KH

Protein Pathways: Spliceosome

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 RG201843