

## Product datasheet for **RG204921**

### 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:	TurboGFP
Symbol:	HNRNPK
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:**

>RG204921 representing NM\_031262  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGAACCTGAACAGCCAGAAGAAACCTTCCTTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTG  
 CAGAAGATATGGAAGAGGAACAAGCATTAAAAGATCTAGAAACACTGATGAGATGGTTGAATTACGCAT  
 TCTGCTTCAGAGCAAGAATGCTGGGCGAGTGATTGAAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACA  
 GACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGTGATA  
 TTGAAACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGAAGAGGGCCTGCAGTTGCCATCACC  
 CACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACTATAAAGGA  
 AGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTCAAAG  
 GTGCTAAAATCAAAGAACTTCGAGAGAACTCAAACCACCATCAAGCTTTCCAGGAATGCTGTCTCA  
 TTCCACTGACAGAGTTGTTCTTATTGGAGAAAACCCGATAGGGTTGTAGAGTGCATAAAGATCATCCTT  
 GATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTACGATGAAACCT  
 ATGATTATGGTGGTTTTACAATGATGTTTGATGACCGTCCGGACGCCAGTGGGATTTCCCATGCGGGG  
 AAGAGGTGGTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTAT  
 GATGATATGAGCCCTCGTCGAGGACCACCTCCCCCTCCTCCCGGACGAGGCGGCCGGGTGGTAGCAGAG  
 CTCGGAATCTTCTCTTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGG  
 GAGACCTGGAGACCGTTACGACGGCATGGTTGGTTTCAGTGTGATGAACTTGGACTGTCAATAGAT  
 ACATGGAGCCCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCGATATGATTATCCAAAGA  
 CAGGGGGTCGTGGCTCATATGGTGATCTTGGTGGACCTATTACTACACAAGTAACTATCCAAAGA  
 TTTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGATTAACAAATCGGTCATGAGTCGGGAGCTTCG  
 ATCAAAATTGATGAGCCTTTAGAAGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGA  
 TACAGAATGCACAGTATTGCTGCAGAACAGTGTGAAGCAGTATTCTGAAAAGTTTTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG204921 representing NM\_031262  
 Red=Cloning site Green=Tags(s)

METEQPEETFPNTEFNTEFNGEFGKRPAAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGKGGKNIKALRT  
 DYNASVSPDSSGPERILSISADIETIGEILKKIIPTELEGLQLPSPTATSQLPLESDAVECLNYQHKG  
 SDFDCELRLLIHQSLAGGIIGVKGAKIKELRENTQTTIKLFQECPPHSTDRVVLIGGKPDVVVEIKIIL  
 DLISESPIKGRAQPYDPNFYDETYDYGFTMMFDDRRGRPVGFPMRGRGGFDRMPPGRGGRPMPSSRDY  
 DDMSPRRGPMPMPGRGGGRSARNLPLPPPPRGGDLMAADRGRPGDRYDGMVGFSADETWD SAID  
 TWSPSEWQMAYEPQGGSGYDYSYAGGRGSYDLGGPIITQVTIPKDLAGSIIGKGGQRIKQIRHESGAS  
 IKIDEPLEGSEDRIITITGTQDQIQNAQYLLQNSVKQYSKFF

TRTRPLE – GFP Tag – V

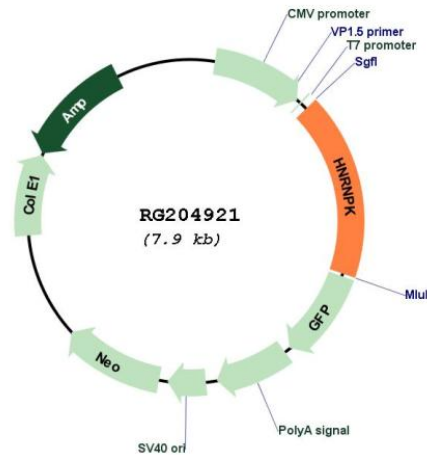
**Restriction Sites:**

SgfI-MluI

## Cloning Scheme:



## Plasmid Map:



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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_031262.3</a>
<b>RefSeq Size:</b>	2770 bp
<b>RefSeq ORF:</b>	1392 bp
<b>Locus ID:</b>	3190
<b>UniProt ID:</b>	<a href="#">P61978</a>
<b>Cytogenetics:</b>	9q21.32
<b>Domains:</b>	KH
<b>Protein Pathways:</b>	Spliceosome
<b>Gene Summary:</b>	<p>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]</p>