

Product datasheet for **SC107869**

hnRNP K (HNRNPK) (NM_031262) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP K (HNRNPK) (NM_031262) Human Untagged Clone
Tag:	Tag Free
Symbol:	hnRNP K
Synonyms:	AUKS; CSBP; HNRPK; TUNP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_031262, the custom clone sequence may differ by one or more nucleotides

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ATGGAACCTGAACAGCCAGAAGAAACCTTCCCTAACACTGAAACCAATGGTGAATTTGGTAAACGCCCTG
CAGAAGATATGGAAGAGGAACAAGCATTAAAAGATCTAGAAACTGATGAGATGGTTGAATTACGCAT
TCTGCTTCAGAGCAAGAATGCTGGGGCAGTGATTGAAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACA
GACTACAATGCCAGTGTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGTGATA
TTGAAACAATTGGAGAAATCTGAAGAAAATCATCCCTACCTGGAAGAGGGCCTGCAGTTGCCATCACC
CACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACTATAAAGGA
AGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATTGGGGTCAAAG
GTGCTAAAATCAAAGAACTTCGAGAGAACACTCAAACCACCATCAAGCTTTCCAGGAATGCTGTCTCA
TTCCACTGACAGAGTTGTTCTTATTGGAGGAAAACCCGATAGGGTGTAGAGTGCATAAAGATCATCCTT
GATCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAGCCTTATGATCCCAATTTTACGATGAAACCT
ATGATTATGGTGGTTTTACAATGATGTTTGATGACCGTCGCGGACGCCAGTGGGATTTCCCATGCGGGG
AAGAGGTGGTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTAT
GATGATATGAGCCCTCGTCGAGGACCACCTCCCCCTCTCCCGGACGAGGCGGCCGGGTGGTAGCAGAG
CTCGGAATCTTCTCTTCCACCACCACCACCTAGAGGGGGAGACCTCATGGCCTATGACAGAAGAGG
GAGACCTGGAGACCGTTACGACGGCATGGTTGGTTTCAGTGTGATGAAACTTGGACTCTGCAATAGAT
ACATGGAGCCCATCAGAATGGCAGATGGCTTATGAACCACAGGGTGGCTCCGGATATGATTATTCCTATG
CAGGGGGTCTGGCTCATATGGTATCTTGGTGGACCTATTATTACTACACAAGTAACTATTCCCAAAGA
TTTGGCTGGATCTATTATTGGCAAAGTGGTACGCGGATTAACAAATCCGTCATGAGTCGGGAGCTTCG
ATCAAAATTGATGAGCCTTTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGA
TACAGAATGCACAGTATTTGCTGCAGAACAGTGTGAAGCAGTATTCTGAAAAGTTTTTCTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031262 unedited
 GGAATTTGTAATACGACTCACTTATAGGGCGGCCGCGATTCCGGCAGGAGGCGGCGCG
 GCAGCGGAGGGACGGCAGTCTCGCGCGGCTACTGCAGCACTGGGGTGTCAGTTGTTGGTC
 CGACCCAGAACGCTTCAGTTCTGCTCTGCAAGGATATATAATAACTGATTGGTGTGCCCG
 TTTAATAAAAAGAATATGGAACCTGAACAGCCAGAAGAAACCTTCCCTAACACTGAAACCA
 ATGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTAAAAAGAT
 CTAGAAACACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGAGCAAGAATGCTGGGG
 CAGTGATTGGAAGAGGCAAGAATATTAAGGCTCTCCGTACAGACTACAATGCCAGTG
 TTTCACTCCAGACAGCAGTGGCCCGAGCGCATATTGAGTATCAGTGCTGATATTGAAA
 CAATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGGAAAGAGGGCCTGCAGTTGCCAT
 CACCCACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACC
 AACACTATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAG
 CAGGAGGAATTATTGNNGGTCAAAGTGCTAAAATCAAAGAACTTCGAGAGAACTCAAA
 CCACCATCAAGCTTTTNNCAGAATGCTGTCCTCATTCCCACTGACAGANTGTTCTTATTG
 GAGGAAAAACCCGATAGGNTGGTANAGTGATAAAGATCTNCCTTGATCTTATATCTGAG
 TCTCCATCAAAAGACGTGCACAGCCTTATGATCCCATTTTTACGATGAACTATGAAATA
 TGGGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031262 unedited
 GAGTCGAGTTTTTTTTTTTTTTTTTTAGCATCATGGGTGTTTTATTTTGGAAAGTGA
 ATTTTAACTATCAATACAAATGCCAAGATACTACACAAAACATCCACAGGAACTTTTTTC
 ATCTTTTTTTTTTTGAATTGTACACAAACATTTCTACATAATCCAACATACAACAGAG
 AAATGGTACATCTTTTTCTTCAATTTGCATACAATGGAAAAACAAGTATATATATTTT
 TACAAAGTTAACTAATAAGACACTAGAGCAAATTGACAGTTTAAAGTCTATAGGTGAGAA
 ATTATCTAATAAAAAATAATCAATTTTTTTCAGCATTAGTCACTTCCATAACCAAGTGTAT
 TCTGATTAATAAAACTTGCTGCCAATCAGAATCTGGTATATACTCATACCATTACTCAA
 CTTGTAGTACTGCTCCCCACCTTAGTCTTCCAACTAACATAGAAAAATTGTTGAAAAGT
 AGGGGCAAGCATTGCAAAAACAACAAAAATCCCCAGCTTATTATAAGCATGAATATG
 TATGATGGAATTTCTCCAGCAATAGACTTCCCAACCATCAGAAATCACCAGAACTAA
 AGTTGCCAAGTTATTTGCTATGTCCAACAAGAGATGCATTTATGTCCAACAGAGGA
 GCTGAAAATAAACTTAGTGTTTAGTTGGGGGGTGGGTTGGGAAATNCAGCAACATTTTAA
 ATGACTGTCTTAAAAAAAATGACCCCAAAATAGGTTCACTAAATTTATTTAAAAAATCA
 TAAAACGTTTCTTACAAAGAAGCATACATTTCTGCACACTGCTCTGAACAGATGCAGGAA
 CATGGGGCCATTTGACTTTTCTCCTGTCCCACCCCAATGTTCAAGTGACCCAAAGCA
 AGGGGTTAAATAATTACCTGGGGGGGATTTTTTAAACACCACCACTACCGAAAATAAATC
 CCCTCCTCTGCCGTGTTNAAAATCAATGTAGTTTTTGGCCGCTCCCCCCCACCTGTT
 GTTAGAACAACTTCTTGTGACACCAAGTTTCTCACC

Restriction Sites:

NotI-NotI

ACCN:

NM_031262

Insert Size:

2840 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_031262.1](#), [NP_112552.1](#)

RefSeq Size: 2770 bp

RefSeq ORF: 1392 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]

Transcript Variant: This variant (3) uses an alternate acceptor splice site at the last coding exon compared to transcript variant 1. This results in a frame-shift and an isoform (b) with a distinct C-terminus compared to isoform a.