

Product datasheet for **SC109316**

hnRNP K (HNRNPK) (NM_031263) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP K (HNRNPK) (NM_031263) 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)



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Fully Sequenced ORF: >OriGene ORF within SC109316 sequence for NM_031263 edited (data generated by NextGen Sequencing)

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ATGGAACCTGAACAGCCAGAAGAAACCTTCCCTAACACTGAAACCAATGGTGAATTTGGT
AAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTAAAAGATCTAGAAACTGAT
GAGATGGTTGAATTACGCATTCTGCTTCAGAGCAAGAATGCTGGGGCAGTGATTGGAAAA
GGAGGCAAGAATATTAAGGCTCTCCGTACAGACTACAATGCCAGTGTTCAGTCCCAGAC
AGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGTCTGATATTGAAACAATTGGAGAAAT
CTGAAGAAAAATCATCCCTACCTTGAAGAGGGCCTGCAGTTGCCATCACCCACTGCAACC
AGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACTATAAAGGA
AGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCTAGCAGGAGGAATTATT
GGGGTCAAAGGTGCTAAAATCAAAGAACTTCGAGAGAACAACCTCAAACCACCATCAAGCTT
TTCCAGGAATGCTGTCTCATTCCACTGACAGAGTTGTTCTTATTGGAGGAAAACCCGAT
AGGGTTGTAGAGTGCATAAAGATCATCCTTGATCTTATATCTGAGTCTCCCATCAAAGGA
CGTGCACAGCCTTATGATCCCAATTTTTACGATGAAACCTATGATTATGGTGGTTTTACA
ATGATGTTTGATGACCGTCGCGGACGCCAGTGGGATTTCCCATGCGGGGAGAGGTGGT
TTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCATCTAGAAGAGATTAT
GATGATATGAGCCCTCGTCGAGGACCACCTCCCCCTCCTCCCGGACGAGCGGCCGGGT
GGTAGCAGAGCTCGAATCTTCTCTTCCACCACCACCACCTAGAGGGGGAGACCTC
ATGGCCTATGACAGAAGAGGGAGACCTGGAGACCGTTACGACGGCATGGTTGGTTTCAGT
GCTGATGAAACTTGGGACTCTGCAATAGATACATGGAGCCCATCAGAATGGCAGATGGCT
TATGAACCACAGGGTGGCTCCGGATATGATTATCCTATGCAGGGGGTCTGGCTCATAT
GGTGACTTTGGTGACCTATTATTACTACACAAGTAACCTATCCCAAAGATTTGGCTGGA
TCTATTATTGGCAAAGGTGGTCAGCGGATTAACAAATCCGTCATGAGTCGGGAGCTTCG
ATCAAAATTGATGAGCCTTTAGAAGGATCCGAAGATCGGATCATTACCATTACAGGAACA
CAGGACCAGATACAGAATGCACAGTATTTGCTGCAGAACAGTGTGAAGCAGTATGCAGAT
GTTGAAGGATTCTAA
    
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Clone variation with respect to NM_031263.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_031263 unedited

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AATTTGTAATACGACTACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGAGGCGGCG
CGGCAGCGGAGGGACGGCAGTCTCGCGCGGCTACTGCAGCACTGGGGTGTGAGTTGTTGG
TCCGACCCAGAACGCTTCAGTTCTGCTCTGCAAGGATATAATAAAGTATTGGTGTGCC
CGTTTAATAAAAAGAAATATGGAACCTGAACAGCCAGAAGAAACCTTCCCTAACACTGAAAC
CAATGGTGAATTTGGTAAACGCCCTGCAGAAGATATGGAAGAGGAACAAGCATTAAAAG
ATCTAGAAACACTGATGAGATGGTTGAATTACGCATTCTGCTTCAGAGCAAGAATGCTGG
GGCAGTGATTGGAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACAGACTACAATGCCAG
TGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATATTGAGTATCAGTGTCTGATATTGA
AACAAATTGGAGAAATTCTGAAGAAAATCATCCCTACCTTGAAGAGGGCCTGCAGTTGCC
ATCACCCACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTA
CCAACACTATAAAGGAAGTGACTTTGACTGCGAGTTGAGGCTGTTGATTCATCAGAGTCT
AGCAGGAGGAATTATTGGGGTCAAAGGTGCTAAAATCAAAGAACTTCGAGAGAACAACCTCA
AACCCCTTCAAGCTTTCCAGGAAACCTGTCCTCATTCCACTGACAGAGTTGTTCTTAT
TGAAGGACACCCGAATAGGTTGAAAAGTGCATAAAAACATCCTTGATCTATATCTGAGTC
TCCCATCAAAGGACTGCCCCACCTT
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_031263 unedited TTGGCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTACATAAGATTACTA TATTTCTTTTAAAGAGGAACGTTTCAACAAATTTTACAGGTGTCAATCAACCTTGTTCA AATCGGGCACACATCAAATCTAGCATCATGGGTGTTTTATTTATTTGGAAGTGAATTTTA ACTATCAATACAAATGCCAAGATACTACACAAAACATCCACAGGAACTTTTTTCATCTTT TTTTTTTTTTGAATTGTACACAAAACATTTCTACATAATCCAACATACAACAGAGAAATGG TACATCTTTTTCTTTCAATTTGCATACAATGGAAAAACAAGTATATATATATTTTACAAA GTTTAACTAATAAGACACTAGAGCAAATTGACAGTTTAAAGTCTATAGGTGAGAAATTATC TAATAAAAATAATCAATTTTTTTCAGCATTAGTCACTTCCATAACCAAGTGTATTCTGAT TAATAAAACTTGCTGCCAATCAGAATTCTGGTATATACTCATAACCATTACTCAACTTGTA GTACTGCTCCCCACCTTAGTTCTTCACAACACTAACATAGAAAATTGTTGAAAAGTAGGGGC AAGCATTTGCAAAAACAAAACAAAAATCCCCAGCTTATTATAAGCATGAATATGTATGAT GGAATTTCTTCCAGCAATAGACTTCAAACCATCAAGAAATCACCAGAACTAAGTTTGC CAAGTTATTTGCCTATGTCNCAACAGAGATGCACTTATATGTCCAACAGAGGAGCTGAA ATTAAACTTAGTGTTAGTTGGNGGTGGNGGTTGGGAATATCAANCCCCATTTTAAATGA CTGTCTTAAAAAAAATGACCACCAAAAATAGGTCACTAAATTTATTTAAAAATCATAAACGT TCTACAAAGACATTACATCTTGACCTGCTTGGACAGATGCAGGAACCTGGGACTATGTTA CTTTCCTCCTGTCCACCCAATGTACAGA
Restriction Sites:	NotI-NotI
ACCN:	NM_031263
Insert Size:	2770 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:	<ol style="list-style-type: none"> 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:	<u>NM_031263.1</u> , <u>NP_112553.1</u>
RefSeq Size:	2745 bp
RefSeq ORF:	1395 bp
Locus ID:	3190
UniProt ID:	<u>P61978</u>
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 (2) uses an alternate 5' non-coding exon, hence has a different 5' UTR compared to transcript variant 1. Transcript variants 1 and 2 encode the same isoform (a).