

## Product datasheet for **MR230044**

### Hnrnpk (NM\_001301343) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpk (NM_001301343) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hnrnpk
Synonyms:	hn; Hnrpk; KBB; KBBP; NOVA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230044 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGACCGAACAGCCAGAAGAAACCTTCCCAACACCGAAACCAATGGTGAATTTGGTAAACGCCCTG  
 CAGAAGATATGGAAGAGGAGCAAGCCTTTAAAAGATCTAGAAATACTGATGAGATGGTTGAATTGCGCAT  
 TTTGCTTCAGAGCAAGAATGCTGGAGCAGTGATTGGAAAAAGGAGGCAAGAATATTAAGGCTCTCCGTACA  
 GACTACAATGCCAGTGTTTCAGTCCCAGACAGCAGTGGCCCCGAGCGCATACTGAGTATCAGTGCTGATA  
 TTGAGACGATTGGAGAAATCTGAAGAAAATCATCCCTACCTTGGAAAGAGGGCCTGCAGTTGCCATCACC  
 CACTGCAACCAGCCAGCTCCCGCTCGAATCTGATGCTGTGGAATGCTTAAATTACCAACATTATAAAGGA  
 AGTGACTTTGATTGCGAGTTGAGACTGTTGATTCATCAGAGTCTGGCAGGAGGAATAATTGGTGTAAAG  
 GTGCTAAAATCAAAGAACTTCGAGAAAACACTCAGACAACAATCAAGCTTTCCAGGAGTCTGCCCTCA  
 CTCTACTGACAGATTGTTCTTATTGGAGAAAACCTGATAGGGTTGTAGATGCATCAAGATCATCCTT  
 GACCTTATATCTGAGTCTCCCATCAAAGGACGTGCACAACCTTATGATCCCAACTTTTATGATGAGACCT  
 ATGATTATGGTGGTTTTACAATGATGTTTGATGACCGCCGAGGACGACCTGTGGGATTTCCCATGAGGGG  
 AAGAGGTGGTTTTGACAGAATGCCTCCTGGTCGGGGTGGGCGTCCCATGCCTCCTTCTAGAAGAGATTAT  
 GATGATATGAGCCCTCGTCGAGGACCTCCACCACCACCACCTGGTCGAGGTGGCCGGGTGGCAGCAGAG  
 CCCGGAATCTGCCTCTTCTCCTCCACCACCACCAGAGGGGGAGATCTAATGGCTTATGACAGAAGAGG  
 AAGGCTGGAGACCGCTATGATGGCATGGTTGGTTTCAGTGTGATGAACTTGGATTCTGCAATTGAC  
 ACATGGAGCCCATCAGAATGGCAATGGCTTATGAACCACAGGGTGGTTCTGGATATGACTATTCTTATG  
 CAGGGGCGCGTGGCTCATATGGTGATCTTGGCGGACCTATTACTACACAAGTAACTTTCCCAAAGA  
 TTTGGCTGGATCTATTATTGGCAAAGGTGGTCAGCGGATTAACAATAATTGTCATGAATCTGGAGCATCA  
 ATCAAAATTGATGAACCTTTAGAAGGATCTGAAGATCGGATCATTACCATTACAGGAACACAGGACCAGA  
 TACAGAACGCACAGTATTGCTGCAGAACAGTGTGAAGCAGTATGCAGATGTTGAAGGATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230044 protein sequence  
 Red=Cloning site Green=Tags(s)

METEQPEETFPNTEINGEFGKRPAEDMEEEQAFKRSRNTDEMVELRILLQSKNAGAVIGKGGKNIKALRT  
 DYNASVSPDSSGPERILSISADIETIGEILKKIIPBLEEGLQLPSPTATSQLPLESDAVECLNYQHYKG  
 SDFDCELRLLIHQSLAGGIIGVKGAKIKELRENTQTTIKLFQECCPHSTDRVVLIGGKPDVVCEKIIIL  
 DLISESPIKGRAQPYDPNFYDETYDYGFTMMFDDRRGRPVGFPMRGRGGFDRMPPGRGRRPMPSSRRDY  
 DDMSPRRGPPPPPPGRGGRGGSRRNLPLPPPPPPRGGDLMAYDRRGRPGDRYDGMVGFSADETWD SAID  
 TWSPSEWQMAYEPQGGSGYDYSYAGGRGSYDLGGPIITTQVTIPKDLAGSIIGKGGQRIKQIRHESGAS  
 IKIDEPLGESDRIITITGTQDQIQNAQYLLQNSVKQYADVEGF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001301343

**ORF Size:** 1395 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\\_001301343.1](#), [NP\\_001288272.1](#)

**RefSeq Size:** 2839 bp

**RefSeq ORF:** 1395 bp

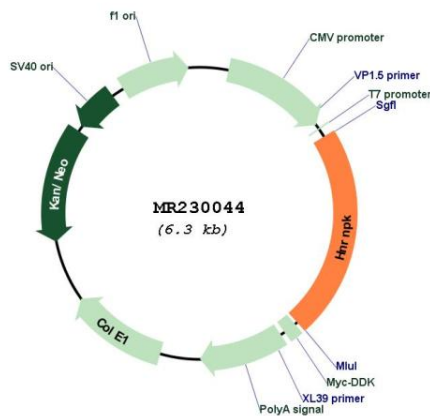
**Locus ID:** 15387

**UniProt ID:** [P61979](#)

**Cytogenetics:** 13 B1  
**MW:** 51 kDa

**Gene Summary:** The protein encoded by this gene is a component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex, and is a poly-cytosine binding protein (PCBP). It is found in multiple subcellular compartments including the nucleus, cytoplasm and mitochondria. This gene product is thought to interact with RNA, DNA, and protein, and is involved in multiple cellular processes, including transcription, chromatin remodeling, DNA damage response, signal transduction, mRNA splicing, export, and translation. Multiple transcript variants and protein isoforms exist, with some isoforms containing a unique C-terminus. There are four pseudogenes of this gene, found on chromosomes 2, 3, 7 and 13. [provided by RefSeq, Aug 2014]

**Product images:**



Circular map for MR230044