

Product datasheet for MR22251

Hnrnpd (NM_001077266) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpd (NM_001077266) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hnrnpd
Synonyms:	Auf1; Hnrpd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR22251 representing NM_001077266 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGAGGAGCAGTTCGGAGGGGACGGGGCGGCGCGGCAACGGCGCGGTAGGCGGCTCGGCGG
GCGAGCAGGAGGGAGCCATGGTGGCGGCGGCGCAGGGGCCGGCGGCGGCGGGAAGCGGGAGCGG
CGGCGGCGGCTCTGCGGCCGGAGGCACCGAAGGAGGCAGCGCCGAGGCAGAGGGAGCCAAGATCGACGCC
AGTAAGAACGAGGAGGATGAAGGAAAAATGTTTATAGGAGGCCTTAGCTGGGACACCACAAAGAAAGATC
TGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAGTTAGATCCTATCACAGGGCG
ATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAGTCGGAGAGTGTAGATAAGGTCATGGATCAGAAAGAA
CATAAATTGAATGGGAAAGTCATTGATCCTAAAAGGGCCAAAGCCATGAAAAAAAAGAGCCTGTCAAAA
AAATTTTGTGGTGGCCTTTCTCCAGACACACCTGAAGAAAAATAAGAGAGTACTTTGGTGGTTTTGG
TGAGGTTGAATCCATAGAGCTCCCTATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGTTTTATTACC
TTAAGGAAGAGGAGCCAGTGAAGAAGATAATGAAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTG
AAATAAAGTAGCCATGTCAAAGGAACAGTATCAGCAGCAGCAGTGGGATCTAGAGGAGGTTTTGC
AGGCAGAGCTCGGGAAGAGGTGGAGGCCAGTCAAACTGGAACAGGATATAGTAACTATTGGAAT
CAAGGCTATGGCAACTATGGATATAACAGCCAAGGTTACGGAGGTTATGGAGGATATGACTACACTGGTT
ACAACAACACTATGGATATGGTATTATAGCAATCAGCAGAGTGGTTATGGAAAGTATCCAGGCGAGG
TGGACATCAAAATAGCTACAAACCATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222251 representing NM_001077266
 Red=Cloning site Green=Tags(s)

MSEEQFGGDGAAAAATAAVGGSAGEQEGAMVAAAAQGPAAAAGSGSGGGGSAAGGTEGGSAAEAGAKIDA
 SKNEEDEGKMF IIGL SWDTTKDLKDYF SKFGEVVDCTLKDPI TGRSRGFVLFKESESVDKVMDQKE
 HKLNGKVIDPKRAKAMKTKPEVKKIFVGLSPDTPEEKIREYFGGFGEVESIELPMDNKNKRRGFCFIT
 FKEEEPVKKIMEKKYHNVGLSKCEIKVAMSKEQYQQQQWGSRGGFAGRARGGGGPSQNWQGYSNYWN
 QYGNYSQYGGYGGYDYTGYNYYGYDYSNQQSGYGVKVSRRGGHQNSYKPY

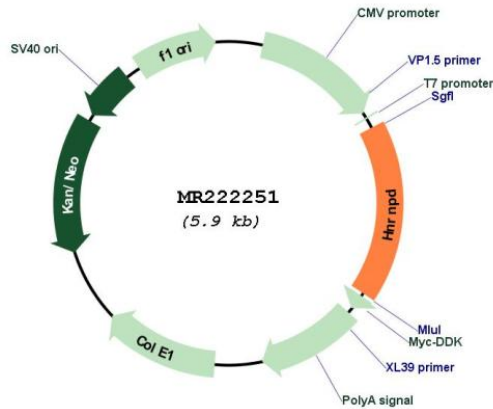
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001077266

ORF Size: 1008 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001077266.2](#)

RefSeq Size: 6753 bp

RefSeq ORF: 1011 bp

Locus ID: 11991

UniProt ID: [Q60668](#)

Cytogenetics: 5 E4

MW: 36.7 kDa

Gene Summary:

Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3' UTR of many proto-oncogenes and cytokine mRNAs. Also binds to double- and single-stranded DNA sequences in a specific manner and functions as a transcription factor. Each of the RNA-binding domains specifically can bind solely to a single-stranded non-monotonous 5'-UUAG-3' sequence and also weaker to the single-stranded 5'-TTAGGG-3' telomeric DNA repeat. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats. Binding of RRM1 to DNA inhibits the formation of DNA quadruplex structure which may play a role in telomere elongation. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the cytoplasmic deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. May play a role in the regulation of the rhythmic expression of circadian clock core genes. Directly binds to the 3' UTR of CRY1 mRNA and induces CRY1 rhythmic translation. May also be involved in the regulation of PER2 translation.[UniProtKB/Swiss-Prot Function]