

## Product datasheet for **MG222886**

### Hnrnpd (NM\_001077265) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hnrnpd (NM\_001077265) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Hnrnpd  
**Synonyms:** Auf1; Hnrpd  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222886 representing NM\_001077265  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGTCGGAGGAGCAGTTCGGAGGGGACGGGGCGGCGGCGGCAACGGCGGCGGTAGGCGGCTCGGCGG  
 GCGAGCAGGAGGGAGCCATGGTGGCGGCGGCGGCGAGGGGCCGGCGGCGGCGGGAAGCGGGAGCGG  
 CGGCGGCGGCTCTGCGGCCGAGGCACCGAAGGAGGCAGCGCCGAGGCAGAGGGAGCCAAGATCGACGCC  
 AGTAAGAACGAGGAGGATGAAGGCCATTCAACTCCTCCACGACACACTGAAGCAGCGGCGGCACAGC  
 GGAAGAATGAAAATGTTTATAGGAGGCCTTAGCTGGGACACCACAAAGAAAGATCTGAAGGACTACTT  
 TTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAGTTAGATCCTATCACAGGGCGATCAAGGGTTTT  
 GGCTTTGTGCTATTTAAAGAGTCGGAGAGTGTAGATAAGGTCATGGATCAGAAAGACATAAATTGAATG  
 GAAAAGTCATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAGCCTGTCAAAAAATTTTTGTTGG  
 TGGCCTTTCTCCAGACACACCTGAAGAAAAAATAAGAGAGTACTTTGGTGGTTTTGGTGAGGTTGAATCC  
 ATAGAGCTCCCTATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGTTTTATTACCTTTAAGGAAGAGG  
 AGCCAGTGAAGAAGATAATGAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTGAAATAAAGTAGC  
 CATGTCAAAGGAACAGTATCAGCAGCAGCAGCAGTGGGGATCTAGAGGAGGTTTTGCAGGCAGAGCTCGC  
 GGAAGAGGTGGAGCCCCAGTCAAACCTGGAACCAGGGATATAGTAACTATTGGAATCAAGGCTATGGCA  
 ACTATGGATATAACAGCCAAGTTACGGAGGTTATGGAGGATATGACTACTGTTACAACAACACTACTA  
 TGGATATGGTGATTATAGCAATCAGCAGAGTGGTTATGGGAAAGTATCCAGGCGAGGTGGACATCAAAAT  
 AGCTACAAACCATAAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222886 representing NM\_001077265  
 Red=Cloning site Green=Tags(s)

MSEEQFGGDGAAAAATAAVGGSAGEQEGAMVAAAAQGPAAAAGSGSGGGGSAAGGTEGGSAAEAGAKIDA  
 SKNEEDEGHSNSSPRHTEAAAAQREEWKMF IGGLSWDTTKKDLKDYFSKFGEVVDCTLKLDPIITGRSRGF  
 GFVLFKESESVDKVMQKEHKLNGKVIDPKRAKAMKTKEPVKKIFVGGSPDTPEEKIREYFGGFGEVES  
 IELPMDNKTNKRGRGFCITFKEEEPVKKIMEKKYHNVGLSKCEIKVAMSKEQYQQQQWGSRRGFAGRAR  
 GRGGGPSQNNQGYSNYWNQGYGNYGYSQGYGGYGGYDYGYNYYGYDYSNQQSGYKVSRRGGHQ  
 SYKPY

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001077265

**ORF Size:** 1065 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\\_001077265.2](#)

**RefSeq Size:** 6810 bp

**RefSeq ORF:** 1068 bp

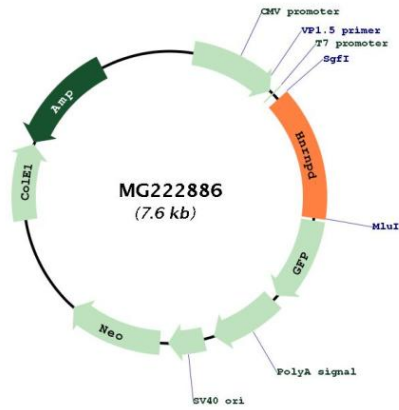
**Locus ID:** 11991

**UniProt ID:** [Q60668](#)

**Cytogenetics:** 5 E4

**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]

Product images:



Circular map for MG222886