

## Product datasheet for **MG222251**

### Hnrnpd (NM\_001077266) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpd (NM_001077266) 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:	>MG222251 representing NM_001077266 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGAGGAGCAGTTCGGAGGGGACGGGGCGGCGCGGCAACGGCGGCGGTAGGCGGCTCGGCGG  
GCGAGCAGGAGGGAGCCATGGTGGCGGCGGCGGCAGGGGCCGGCGGCGGCGGGAAGCGGGAGCGG  
CGGCGGCGGCTCTGCGGCCGAGGCACCGAAGGAGGCAGCGCCGAGGCAGAGGGAGCCAAGATCGACGCC  
AGTAAGAACGAGGAGGATGAAGGAAAAATGTTTATAGGAGCCTTAGCTGGGACACCACAAGAAAGATC  
TGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAGTTAGATCCTATCACAGGGCG  
ATCAAGGGTTTTGGCTTTGTGCTATTTAAAGAGTCGGAGAGTGTAGATAAGGTCATGGATCAGAAAGAA  
CATAAATTGAATGGGAAAGTCATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAGCCTGTCAAAA  
AAATTTTTGTTGGTGGCCTTTCTCCAGACACACCTGAAGAAAAATAAGAGAGTACTTTGGTGGTTTTGG  
TGAGGTTGAATCCATAGAGCTCCCTATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGTTTTATTACC  
TTAAGGAAGAGGAGCCAGTGAAGAAGATAATGGAAAAGAAATACCACAATGTTGGTCTTAGTAAATGTG  
AAATAAAGTAGCCATGTCAAAGGAACAGTATCAGCAGCAGCAGTGGGGATCTAGAGGAGGGTTTGC  
AGGCAGAGCTCGCGGAAGAGGTGGAGGCCCCAGTCAAACTGGAACCAGGGATATAGTAACTATTGGAAT  
CAAGGCTATGGCAACTATGGATATAACAGCCAAGGTTACGGAGGTTATGGAGGATATGACTACACTGGTT  
ACAACAACACTACTATGGATATGGTATTATAGCAATCAGCAGAGTGTTATGGGAAAGTATCCAGGCGGAG  
TGGACATCAAAATAGCTACAAACCATAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG222251 representing NM\_001077266  
 Red=Cloning site Green=Tags(s)

MSEEQFGDGAATAAVGGSAGEQEGAMVAAAAQGPAAAAGSGSGGGGSAAGGTEGGSAAEAGAKIDA  
 SKNEEDEGKMF IIGL SWDTTKDLKDYF SKFGEVVDCTLKLDPITGRSRGFVLFKESESVDKVMDQKE  
 HKLNGKVIDPKRAKAMKTKPEVKKIFVGLSPDTPEEKIREYFGGFGEVESIELPMDNKNKRRGFCFIT  
 FKEEEPVKKIMEKKYHNVL SKCEIKVAMSKEQYQQQQWGSRGGFAGRARGGGPSONWNQGYSNYWN  
 QYGYNSQYGGYGGYDYTYNNYYGYDYSNQSGYGVKVSRRGGHQNSYKPY

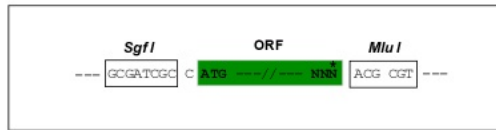
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2028\\_a09.zip](https://cdn.origene.com/chromatograms/ja2028_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001077266

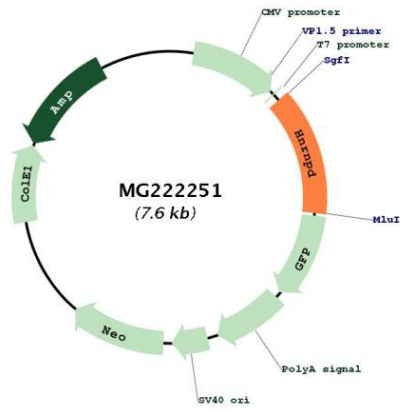
**ORF Size:** 1008 bp

**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](mailto: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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001077266.2</a>
<b>RefSeq Size:</b>	6753 bp
<b>RefSeq ORF:</b>	1011 bp
<b>Locus ID:</b>	11991
<b>UniProt ID:</b>	<a href="#">Q60668</a>
<b>Cytogenetics:</b>	5 E4
<b>Gene Summary:</b>	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 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 MG222251