

Product datasheet for **RG220809**

HNRNPD (NM_001003810) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HNRNPD (NM_001003810) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HNRNPD
Synonyms: AUF1; AUF1A; hnRNP0; HNRPD; P37
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220809 representing NM_001003810
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCGGAGGAGCAGTTCGGCGGGGACGGGGCGGCGGACGCGCAACGGCGGCGGTAGGCGGCTCGGCGG
 GCGAGCAGGAGGGAGCCATGGTGGCGGCGACACAGGGGGCAGCGGCGGCGGGAAGCGGAGCCGGGAC
 CGGGGGCGGAACCGCGTCTGGAGGCACCGAAGGGGGCAGCGCGAGTCGGAGGGGCGAAGATTGACGCC
 AGTAAGAACGAGGAGGATGAAGGAAAAATGTTTATAGGAGCCTTAGCTGGGACACTACAAGAAAGATC
 TGAAGGACTACTTTTCCAAATTTGGTGAAGTTGTAGACTGCACTCTGAAGTTAGATCCTATCACAGGGCG
 ATCAAGGGGTTTTGGCTTTGTGCTATTTAAAGAATCGGAGAGTGTAGATAAGGTCATGGATCAAAAAGAA
 CATAAATTGAATGGGAAGGTGATTGATCCTAAAAGGGCCAAAGCCATGAAAACAAAAGAGCCGGTAAAA
 AAATTTTTGTTGGTGGCCTTTCTCCAGATACACCTGAAGAGAAAAAAGGGAGTACTTTGGTGGTTTTGG
 TGAGGTGGAATCCATAGAGCTCCCCATGGACAACAAGACCAATAAGAGGCGTGGGTTCTGCTTTATTACC
 TTTAAGGAAGAAGAACCAGTGAAGAAGATAATGAAAAAGAAATACCACAAATGTTGGTCTTAGTAAATGTG
 AAATAAAGTAGCCATGTGAAGGAACAATATCAGCAACAGCAACAGTGGGGATCTAGAGGAGGATTTGC
 AGGAAGAGCTCGTGAAGAGGTGGTGACCAGCAGAGTGGTTATGGGAAGGTATCCAGGCGAGGTGGTCAT
 CAAAATAGCTACAAACCATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG220809 representing NM_001003810
 Red=Cloning site Green=Tags(s)

MSEEQFGDGAATAAVGGSAGEQEGAMVAATQGAAAAGSGAGTGGGTASGGTEGSSAESEGAKIDA
 SKNEEDEGKMF IIGL SWDTTKKDLKDYF SKFGEVVDCTLKDPI TGRSRGFVLFKESESVDKVMDQKE
 HKLNGKVIDPKRAKAMKTKPEVKKIFVGLSPDTPEEKIREYFGGFGEVESIELPMDNKNKRRGFCFIT
 FKEEEPVKKIMEKKYHNVGLSKCEIKVAMSKEQYQQQQWWSRGGFAGRARGGGDQQSGYGKVSRRGGH
 QNSYKPY

TRTRPLE - GFP Tag - V

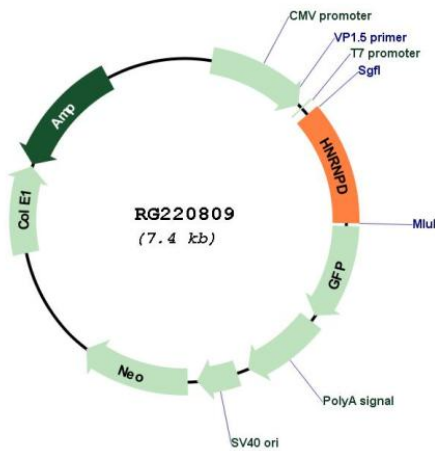
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001003810

ORF Size: 861 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:	<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:	NM_001003810.1 , NP_001003810.1
RefSeq Size:	2053 bp
RefSeq ORF:	864 bp
Locus ID:	3184
UniProt ID:	Q14103
Cytogenetics:	4q21.22
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are nucleic acid 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 has two repeats of quasi-RRM domains that bind to RNAs. It localizes to both the nucleus and the cytoplasm. This protein is implicated in the regulation of mRNA stability. Alternative splicing of this gene results in four transcript variants. [provided by RefSeq, Jul 2008]