

## Product datasheet for **RC204064**

### HNRPDL (HNRNPDL) (NM\_031372) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HNRPDL (HNRNPDL) (NM_031372) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNRPDL
Synonyms:	HNRNP; HNRPDL; JKTBP; JKTBP2; IaAUF1; LGMD1G; LGMDD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204064 representing NM_031372 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGTCGCGCCAGGCTTTCCCATGTGCCGCCCATTTGTTCCCTCCGCTCCCGCTACTTTAGCCT  
CCCGCAGCCTCTCCATTGGCGGCCGCGGCCGCGGCAGCTAGCCCCGCTCCTCCCTCGCTCGCTCC  
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TGGCCAACAGAGCACTTATGGCAAGGCATCTCGAGGGGTGGCAATCACCAAAACAATTACCAGCCATAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204064 representing NM\_031372  
Red=Cloning site Green=Tags(s)

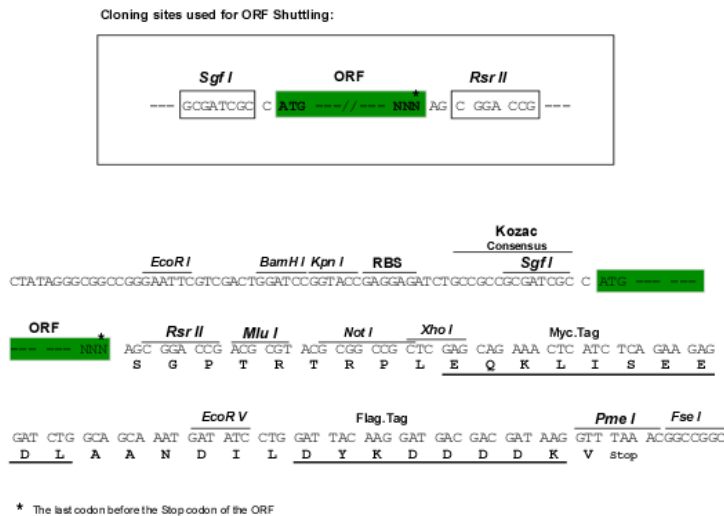
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MEVPPRLSHVPPPLFPSAPATLASRSLSHWRPPRPPQLAPLLPSLAPSSARQGARRAQRHVTAQQPSRLA
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SKNQDDGKMF IIGLSWDTSKKDLTEYLSRFGEVVDCTIKTDPVTGRSRGFGFVLFKDAASVDKVLLEKE
HKLDGKLIIDPKRAKALKGKEPKKVFVGGSPDTSEEQIKEYFGAFGEIENIELPMDTKTNERRGFCFIT
YTDEEPVKLLESRYHQIGSGKCEIKVAQPKVEYRQQQQQKGGGAAAGRGGTRGRGRGQGNWNQGF
NNYYDQGYGNYSAYGGDQNYSGYGGYDYGYNNGYGYGQGYADYSGQQSTYKGASRGGGNHQNYYQPY
```

SGPTRTRRLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4553\\_h06.zip](https://cdn.origene.com/chromatograms/mg4553_h06.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_031372

**ORF Size:** 1260 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_031372.3](#)

**RefSeq Size:** 3510 bp

**RefSeq ORF:** 1263 bp

**Locus ID:** 9987

**UniProt ID:** [O14979](#)

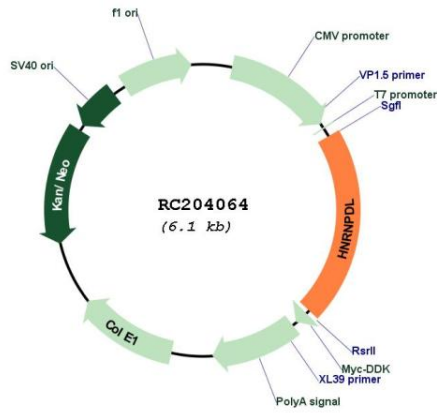
**Cytogenetics:** 4q21.22

**Domains:** RRM

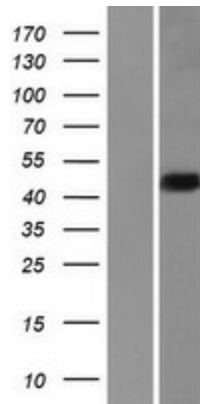
**MW:** 46.3 kDa

**Gene Summary:** This gene belongs to the subfamily of ubiquitously expressed heterogeneous nuclear ribonucleoproteins (hnRNPs). The hnRNPs are RNA 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 RRM domains that bind to RNAs. Three alternatively spliced transcript variants have been described for this gene. One of the variants is probably not translated because the transcript is a candidate for nonsense-mediated mRNA decay. The protein isoforms encoded by this gene are similar to its family member HNRPD. [provided by RefSeq, May 2011]

Product images:



Circular map for RC204064



Western blot validation of overexpression lysate (Cat# [LY410550]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204064 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).