

Product datasheet for **RC221204**

HNRPH2 (HNRNPH2) (NM_019597) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNRPH2 (HNRNPH2) (NM_019597) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNRPH2
Synonyms:	FTP3; hnRNPH'; HNRPH'; HNRPH2; MRXSB; NRPH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221204 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGCTGAGCACGGAAGGCAGGGAGGGGTTCTGTGGAAGGTCAGGGGCTACCTGGTCTGCTCAG
 CCGATGAAGTGATGCGCTTCTTCTCTGATTGCAAGATCCAAAATGACACATCAGGTATTCGTTTCATCTA
 CACCAGAGAAGGCAGACCAAGTGGTGAAGCATTGTTGAACTTGAATCTGAAGAGGAAGTAAATTGGCT
 TTGAAGAAGGACAGAAAACCATGGGACACAGATACGTTGAAGTATTCAAGTCTAACAGTGTGAAATGG
 ATTGGGTGTTGAAGCATAACAGTCCGAATAGCCCTGATACTGCCAACGATGGCTTCGTCGGCTTAGAGG
 ACTCCCATTTGGCTGTAGCAAGGAAGAGATTGTTCAAGTCTTTTCAGGGTTGAAATTGTGCCAAATGGG
 ATGACTGCCAGTGGACTTTTCAGGGCGAAGCACAGGGGAAGCCTTTGTGCAGTTTGTTCACAGGAGA
 TAGCTGAGAAGGCCTTAAAGAAACACAAGGAAAGAATAGGGCACAGGTACATTGAGATCTTCAAGAGTAG
 CCGAGCTGAAGTTCGAACCCACTATGATCCCCCTCGAAAGCTCATGGCTATGCAGCGCCAGGTCCCTAT
 GATAGGCCGGGGCTGGCAGAGGGTATAATAGCATTGGCAGAGGAGCTGGGTTTGAAGGATGAGGCGTG
 GTGCCATGTTGGAGGGTATGGAGGCTATGATGACTATGGTGGCTATAATGATGGATATGGCTTTGGGTC
 TGATAGATTTGGAAGAGACCTCAATTACTGTTTTTCAGGAATGTCTGATCATAGATACGGAGATGGTGGG
 TCCAGTTTCCAGAGCACCACAGGGCACTGTGTACACATGAGGGGGTTACCTTACAGAGCCACTGAGAATG
 ATATTTATAATTTCTTCTCACCTCTTAATCCCATGAGAGTACATATTGAAATTGGACCCGATGGCAGAGT
 TACCGGTGAGGCAGATGTTGAATTTGCTACTCATGAAGATGCTGTGGCAGCTATGGCAAAAGACAAAAGCT
 AATATGCAACACAGATATGTGGAGCTCTTCTAAATCTACTGCAGGAACAAGTGGGGTGTCTACGATC
 ACAGCTATGTAAGTCTTTTGAATTTACAGCAGGGCAAGTGGTGGCCTTATGGTAGCCAAATGAT
 GGGAGGGATGGCTTATCCAACCAAGTCTAGTTATGGAGGTCCTGCTAGCCAGCAGCTGAGTGGTGGTTAT
 GGAGGTGGTTATGGTGGTCAAGAGCAGTATGAGTGGATATGACCAAGTCTGCAGGAAAACCTCCAGTGACT
 ATCAGTCAAACCTTGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221204 protein sequence
 Red=Cloning site Green=Tags(s)

MMLSTEGREGFVVKVRGLPWSCSADEVMRFFSDCKIQNGTSGIRFIYTREGRPSGEAFVELESEEEVKLA
 LKKDRETMGHRYVEVFKSNSVEMDWLKHGPNPDTANDGFVRLRGLPFGCSKEEIVQFFSGLIIVPNG
 MTLPVDFQGRSTGEAFVQFASQIEAEKALKKKKERIGHRYIEIFKSSRAEVRTHYDPPRKLMMAMQRP
 DRPGAGRGYNSIGRGAGFERMRRGAYGGYGGYDDYGGYNDGYGFGSDRFGRDLNYCFSGMSDHRYG
 DGGSSFQSTTGHCVHMRGLPYRATENDIYNFFSPLNPMRVHIEIGPDGRVTGEADVEFATHEDAVAAMAK
 DKANMQHRYVELFLNSTAGTSGGAYDHSYVELFLNSTAGASGGAYGSQMMGMGLSNQSSYGGPASQQLSG
 GYGGYQSSMSGYDQVLQENSSDYQSNLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6468_a07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_019597

ORF Size: 1347 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_019597.5](#)

RefSeq Size: 2392 bp

RefSeq ORF: 1350 bp

Locus ID: 3188

UniProt ID: [P55795](#)

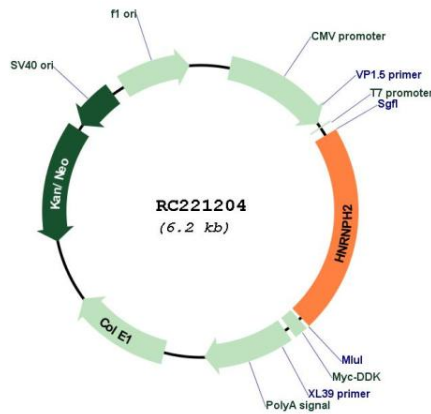
Cytogenetics: Xq22.1

Domains: RRM

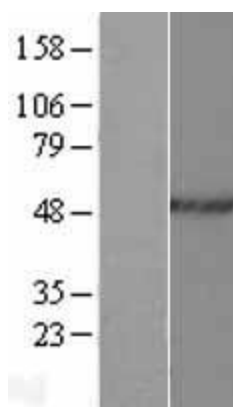
MW: 49.3 kDa

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 three repeats of quasi-RRM domains that binds to RNAs. It is very similar to the family member HNRPH1. This gene is thought to be involved in Fabray disease and X-linked agammaglobulinemia phenotype. Alternative splicing results in multiple transcript variants encoding the same protein. Read-through transcription between this locus and the ribosomal protein L36a gene has been observed. [provided by RefSeq, Jan 2011]

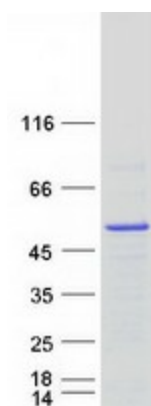
Product images:



Circular map for RC221204



Western blot validation of overexpression lysate (Cat# [LY412724]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221204 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPH2 protein (Cat# [TP321204]). The protein was produced from HEK293T cells transfected with HNRNPH2 cDNA clone (Cat# RC221204) using MegaTran 2.0 (Cat# [TT210002]).