

Product datasheet for **RG221204**

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:	TurboGFP
Symbol:	HNRPH2
Synonyms:	FTP3; hnRNPH'; HNRPH'; HNRPH2; MRXSB; NRPH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221204 representing NM_019597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATGCTGAGCACGGAAGGCAGGGAGGGGTTCTGGTGAAGGTCAGGGGCTACCTGGTCTGCTCAG
 CCGATGAAGTGATGCGCTTCTTCTCTGATTGCAAGATCCAAAATGGCACATCAGGTATTCGTTTCATCTA
 CACCAGAGAAGGCAGACCAAGTGGTGAAGCATTGTTGAACCTGAATCTGAAGAGGAAGTAAATGGCT
 TTGAAGAAGGACAGAAAACCATGGGACACAGATACGTTGAAGTATTCAAGTCTAACAGTGTGAAATGG
 ATTGGGTGTTGAAGCATAACAGTCCGAATAGCCCTGATACTGCCAACGATGGCTTCGTCGGCTTAGAGG
 ACTCCCATTTGGCTGTAGCAAGGAAGAGATTGTTCAAGTCTTTTCAGGGTTGAAATTTGCCAAATGGG
 ATGACTGCCAGTGGACTTTTCAGGGCGAAGCACAGGGGAAGCCTTTGTGCAGTTTGTTCACAGGAGA
 TAGCTGAGAAGGCCTTAAAGAAACACAAGGAAAGAATAGGGCACAGGTACATTGAGATCTTCAAGAGTAG
 CCGAGCTGAAGTTCGAACCCACTATGATCCCCCTCGAAAGCTCATGGCTATGCAGCGCCAGGTCCCTAT
 GATAGGCCGGGGCTGGCAGAGGGTATAATAGCATTGGCAGAGGAGCTGGGTTTGAAGGATGAGGCGTG
 GTGCCATGTTGGAGGGTATGGAGGCTATGATGACTATGGTGGCTATAATGATGGATATGGCTTTGGGTC
 TGATAGATTTGGAAGAGACCTCAATTACTGTTTTTCAGGAATGTCTGATCATAGATACGGAGATGGTGGG
 TCCAGTTTCCAGAGCACCACAGGGCACTGTGTACACATGAGGGGGTTACCTTACAGAGCCACTGAGAATG
 ATATTTATAATTTCTTCTCACCTCTTAATCCCATGAGAGTACATATTGAAATTTGGACCCGATGGCAGAGT
 TACCGGTGAGGCAGATGTTGAATTTGCTACTCATGAAGATGCTGTGGCAGCTATGGCAAAGACAAAAGCT
 AATATGCAACACAGATATGTGGAGCTCTTCTAAATTTACTGCAGGAACAAGTGGGGGTGCTTACGATC
 ACAGCTATGTAGAATTTTTTTGAATTTACAGCAGGGCAAGTGGTGGCCTTATGGTAGCCAAATGAT
 GGGAGGGATGGGCTTATCCAACCAAGTCTAGTTATGGAGGTCCTGCTAGCCAGCAGCTGAGTGGTGGTTAT
 GGAGGTGGTTATGGTGGTCAAGAGCAGTATGAGTGGATATGACCAAGTTCTGCAGGAAAACCTCCAGTGACT
 ATCAGTCAAACCTTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221204 representing NM_019597
 Red=Cloning site Green=Tags(s)

MMLSTEGREGFVVKVRLPWSCSADEVMRFFSDCKIQNGTSGIRFIYTREGRPSGEAFVELESEEEVKLA
 LKKDRETMGHRYVEVFKSNSVEMDWLKHGPNPDTANDGFVRLRGLPFGCSKEEIVQFFSGLIIVPNG
 MTLPVDFQGRSTGEAFVQFASQIEAEKALKKHKERIGHRYIEIFKSSRAEVRTHYDPPRKLMMAMQRP
 DRPGAGRGYNSIGRGAGFERMRRGAYGGYGGYDDYGGYNDGYGFGSDRFGRDLNYCFSGMSDHRYG
 SSFQSTTGHCVHMRGLPYRATENDIYNFFSPLNPMRVHIEIGPDGRVTGEADVEFATHEDAVAAMAKDKA
 NMQHRYVELFLNSTAGTSGGAYDHSYVELFLNSTAGASGGAYGSQMMGGMGLSNQSSYGGPASPQLSGGY
 GGGYGGQSSMSGYDQVLQENSSDYQSNLA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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.

RefSeq: [NM_019597.5](#)

RefSeq Size: 2327 bp

RefSeq ORF: 1350 bp

Locus ID: 3188

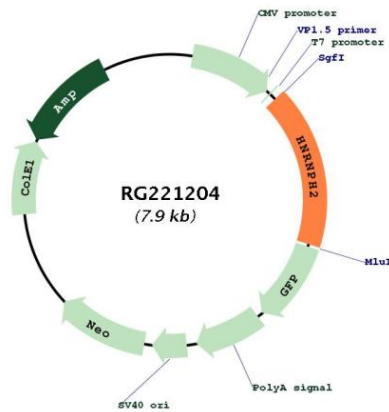
UniProt ID: [P55795](#)

Cytogenetics: Xq22.1

Domains: RRM

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 RG221204