

Product datasheet for RC208027

HNRPH3 (HNRNPH3) (NM_021644) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HNRPH3 (HNRNPH3) (NM_021644) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HNRPH3
Synonyms:	2H9; HNRPH3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208027 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTGGGTTATGAAACATAATGGTCCAAATGACGCTAGTGATGGGACAGTACGACTTCGTGGACTAC
CATTTGGTTGCAGCAAAGAGGAAATAGTTCAGTCTTTCAAGGTTGGAAATCGTGCCAAATGGGATAAC
ATTGACGATGGACTACCAGGGGAGAAGCACAGGGGAGGCCTTCGTGCAGTTTGCTTCAAAGGAGATAGCA
GAAAATGCTCTGGGAAACACAAGGAAAGAATAGGGCACAGGTATATTGAGATCTTCAGAAGTAGCAGGA
GTGAAATCAAAGGATTTTATGATCCACCAAGAAGATTGCTGGGACAGCGACCGGGACCATATGATAGACC
AATAGGAGGAAGAGGGGTTATTATGGAGCTGGGCGTGAAGTTATGGAGTTTTGATGACTATGGTGGC
TATAATAATTACGGCTATGGGAATGATGGCTTTGATGACAGAATGAGAGATGGAAGAGGTATGGGAGGAC
ATGGCTATGGTGGAGCTGGTATGCAAGTTCAGGTTTTTCATGGTGGTCATTTTCGTACATATGAGAGGGTT
GCCTTTTCGTGCAACTGAAAATGACATTGCTAATTTCTTCTCACCCTAAATCCAATACGAGTTCATATT
GATATTGGAGCTGATGGCAGAGCCACAGGAGAAGCAGATGTAGAGTTTGTGACACATGAAGATGCAGTAG
CTGCCATGTCTAAAGATAAAAAAATCATGCAACATCGATATATTGAACTTCTTGAATTCTACTCCTGG
AGGCGGCTCTGGCATGGGAGTTCTGGAATGGGAGGCTACGGAAGAGATGGAATGGATAATCAGGGAGGC
TATGGATCAGTTGGAAGAATGGGAATGGGAACAATTACAGTGGAGGATATGGTACTCCTGATGGTTGG
GTGGTTATGGCCGTGGTGGTGGAGGCAGTGGAGTTACTATGGCAAGGCCGCATGAGTGGAGGTGGATG
CGTGGGATGTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208027 protein sequence
Red=Cloning site Green=Tags(s)

MDWVMKHNGPNDASDGTVRLRGLPFGCSKEEIVQFFQGLEIVPNGITLTMDYQGRSTGEAFVQFASKEIA
 ENALGKHKERIGHRYIEIFRSSRSEIKGFYDPPRLLGQRP GPYDRPIGGRGGYYGAGRGSYGGFDDYGG
 YNNYGYGNDGFDDMRDRGRMGHGYGGAGDASSGFHGGHFVHMRGLPFRATENDIANFFSPLNPIRVHI
 DIGADGRATGEADVEFVTHEDAVAAMSKDKNMQHRYIELFLNSTPGGGSGMGGSGGGYGRDGMNQGG
 YGSVGRMGMNYSGGYGTPDGLGGYGRGGGSGGGYGGQGMSSGGWGRMY

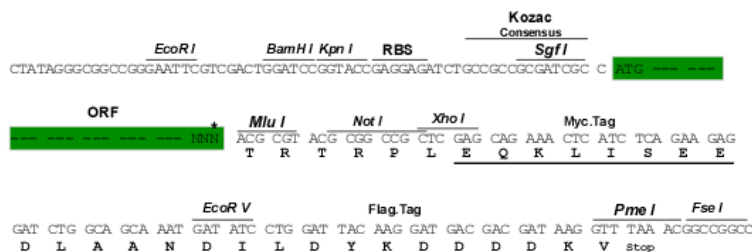
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6089_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_021644

ORF Size: 993 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_021644.3](#), [NP_067676.2](#)

RefSeq Size: 2382 bp

RefSeq ORF: 996 bp

Locus ID: 3189

UniProt ID: [P31942](#)

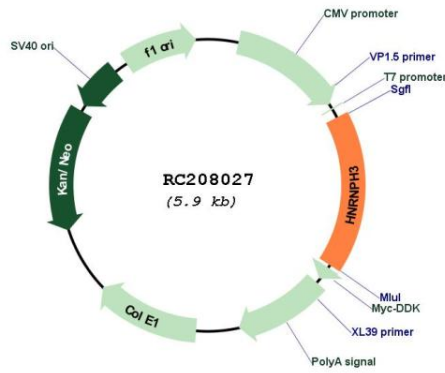
Cytogenetics: 10q21.3

Domains: RRM

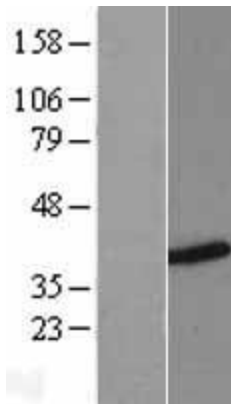
MW: 35.2 kDa

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 repeats of quasi-RRM domains that bind to RNAs. It is localized in nuclear bodies of the nucleus. This protein is involved in the splicing process and it also participates in early heat shock-induced splicing arrest by transiently leaving the hnRNP complexes. Several alternatively spliced transcript variants have been noted for this gene, however, not all are fully characterized. [provided by RefSeq, Jul 2008]

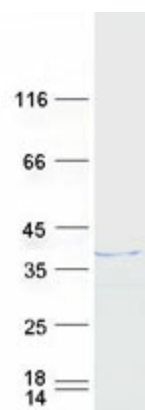
Product images:



Circular map for RC208027



Western blot validation of overexpression lysate (Cat# [LY411933]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208027 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HNRNPH3 protein (Cat# [TP308027]). The protein was produced from HEK293T cells transfected with HNRNPH3 cDNA clone (Cat# RC208027) using MegaTran 2.0 (Cat# [TT210002]).