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Product datasheet for RC219240

hnRNP L (HNRNPL) (NM_001533) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	hnRNP L (HNRNPL) (NM_001533) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	hnRNP L
Synonyms:	hnRNP-L; HNRPL; P/OKcl.14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC219240 representing NM_001533
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGCGGAGGCTGCTGCCCCGGGCGGAGAAGCGGCGTCGGCGGCTGGAGCAGAGGCAGCAGCCGGACG
AGCAGCGGAGGCGGTCGGGAGCGATGGTGAAGATGGCGGCGGCGGGCGGCGGAGGCGGCGGTGGCCGCTA
CTACGGCGGCGGCAGTGAGGGCGGCCGGGCCCCTAAGCGGCTCAAGACTGACAACGCCGGCGACCAGCAC
GGAGGCGGCGGCGGTGGCGGTGGAGGAGCCGGGGCGGCGGGCGGCGGCGGCGGTGGGGAGAACTACGATG
ACCCGCACAAAACCCCTGCCTCCCCAGTTGTCCACATCAGGGGCCTGATTGACGGTGTGGTGGAAGCAGA
CCTTGTGGAGGCCTTGCAGGAGTTTGGACCCATCAGCTATGTGGTGGTAATGCCTAAAAAGAGACAAGCA
CTGGTGGAGTTTGAAGATGTGTTGGGGGCTTGCAACGCAGTGAACTACGCAGCCGACAACCAAATATACA
TTGCTGGTCACCCAGCTTTTGTCAACTACTCTACCAGCCAGAAGATCTCCCGCCCTGGGGACTCGGATGA
CTCCCGGAGCGTGAACAGTGTGCTTCTCTTTACCATCCTGAACCCCATTTATTCGATCACCACGGATGTT
CTTTACACTATCTGTAATCCTTGTGGCCCTGTCCAGAGAATTGTCATTTTCAGGAAGAATGGAGTTCAGG
CGATGGTGGAATTTGACTCAGTTCAAAGTGCCCAGCGGGCCAAGGCCTCTCTCAATGGGGCTGATATCTA
TTCTGGCTGTTGCACTCTGAAGATCGAATACGCAAAGCCTACACGCTTGAATGTGTTCAAGAATGATCAG
GATACTTGGGACTACACAAACCCCAATCTCAGTGGACAAGGTGACCCTGGCAGCAACCCCAACAAACGCC
AGAGGCAGCCCCCTCTCCTGGGAGATCACCCCGCAGAATATGGAGGGCCCCACGGTGGGTACCACAGCCA
TTACCATGATGAGGGCTACGGGCCCCCCCCACCTCACTACGAAGGGAGAAGGATGGGTCCACCAGTGGGG
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AGTATGGCCCTCACGCCGACAGCCCTGTGCTCATGGTCTATGGCTTGGATCAATCTAAGATGAACTGTGA
CCGAGTCTTCAATGTCTTCTGCTTATATGGCAATGTGGAGAAGGTGAAATTCATGAAAAGCAAGCCGGGG
GCCGCCATGGTGGAGATGGCTGATGGCTACGCTGTAGACCGGGCCATTACCCACCTCAACAACAACTTCA
TGTTTGGGCAGAAGCTGAATGTCTGTGTCTCCAAGCAGCCAGCCATCATGCCTGGTCAGTCATACGGGTT
GGAAGACGGGTCTTGCAGTTACAAAGACTTCAGTGAATCCCGGAACAATCGGTTCTCCACCCCAGAGCAG
GCAGCCAAGAACCGCATCCAGCACCCCAGCAACGTGCTGCACTTCTTCAACGCCCCGCTGGAGGTGACCG
AGGAGAACTTCTTTGAGATCTGCGATGAGCTGGGAGTGAAGCGGCCATCTTCTGTGAAAGTATTCTCAGG
CAAAAGTGAGCGCAGCTCCTCTGGACTGCTGGAGTGGGAATCCAAGAGCGATGCCCTGGAGACTCTGGGC
TTCCTGAACCATTACCAGATGAAAAACCCAAATGGTCCATACCCTTACACTCTGAAGTTGTGTTTCTCCA
CTGCTCAGCACGCCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC219240 representing NM_001533
Red=Cloning site Green=Tags(s)

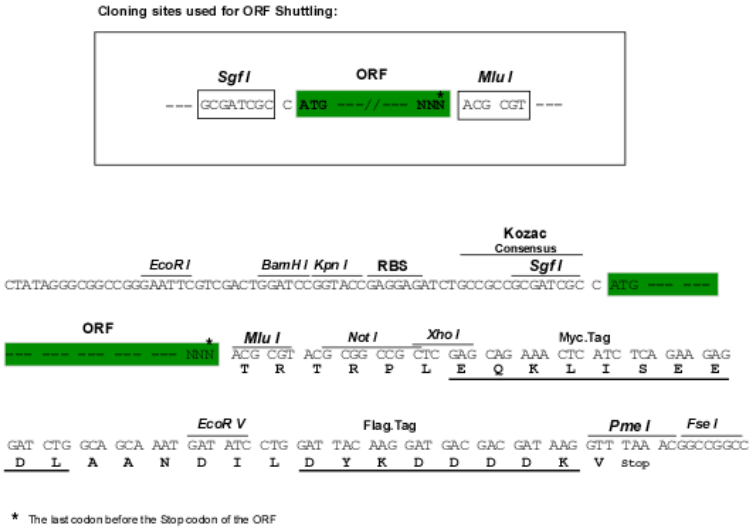
MSRRLLPRAEKRRRRLEQRQQPDEQRRRSGAMVKMAAAGGGGGGGRYYGGGSEGGRAPKRLKTDNAGDQH
GGGGGGGGGAGAAGGGGGGENYDDPHKTPASPVVHIRGLIDGVVEADLVEALQEFGPISYVVVMPKKRQA
LVEFEDVLGACNAVNYAADNQIYIAGHPAFVNYSTSQKISRPGDSDDSRSVNSVLLFTILNPIYSITTDV
LYTICNPCGPVQRIVIFRKNGVQAMVEFDSVQSAQRAKASLNGADIYSGCCTLKIEYAKPTRLNVFKNDQ
DTWDYTNPNLSGQGDPGSNPNKRQRQPPLLGDHPAEYGGPHGGYHSHYHDEGYGPPPPHYEGRRMGPPVG
GHRRGPSRYGPQYGHPPPPPPPPEYGPHADSPVLMVYGLDQSKMNCDRVFNVFCLYGNVEKVKFMKSKPG
AAMVEMADGYAVDRAITHLNNNFMFGQKLNVCVSKQPAIMPGQSYGLEDGSCSYKDFSESRNNRFSTPEQ
AAKNRIQHPSNVLHFFNAPLEVTEENFFEICDELGVKRPSSVKVFSGKSERSSSGLLEWESKSDALETLG
FLNHYQMKNPNGPYPYTLKLCFSTAQHAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6118_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001533

ORF Size: 1767 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

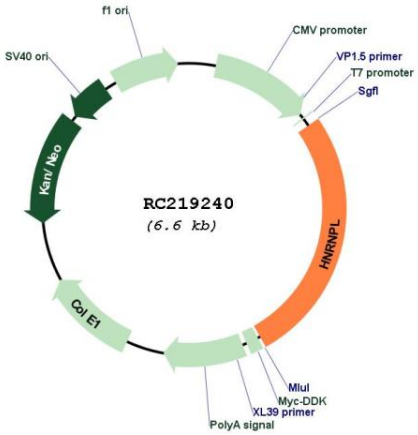
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

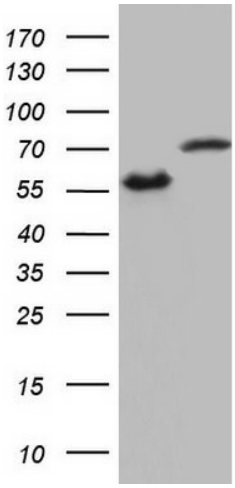
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001533.2, NP_001524.2
RefSeq Size:	2129 bp
RefSeq ORF:	1770 bp
Locus ID:	3191
UniProt ID:	P14866
Cytogenetics:	19q13.2
Domains:	RRM
MW:	64 kDa
Gene Summary:	Heterogeneous nuclear RNAs (hnRNAs) which include mRNA precursors and mature mRNAs are associated with specific proteins to form heterogenous ribonucleoprotein (hnRNP) complexes. Heterogeneous nuclear ribonucleoprotein L is among the proteins that are stably associated with hnRNP complexes and along with other hnRNP proteins is likely to play a major role in the formation, packaging, processing, and function of mRNA. Heterogeneous nuclear ribonucleoprotein L is present in the nucleoplasm as part of the HNRP complex. HNRP proteins have also been identified outside of the nucleoplasm. Exchange of hnRNP for mRNA-binding proteins accompanies transport of mRNA from the nucleus to the cytoplasm. Since HNRP proteins have been shown to shuttle between the nucleus and the cytoplasm, it is possible that they also have cytoplasmic functions. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

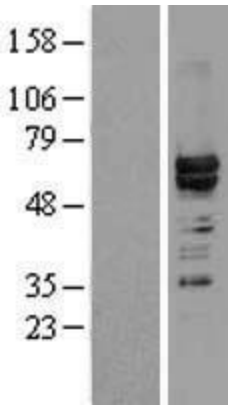
Product images:



Circular map for RC219240



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HNRNPL (Cat# RC219240, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HNRNPL(Cat# [TA805417]). Positive lysates [LY400589] (100ug) and [LC400589] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400589]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219240 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).