

Product datasheet for MR220319

Hnrnpc (NM_001170981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpc (NM_001170981) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hnrnpc
Synonyms:	AL022939; D14Wsu171e; hnrnp-C; hnRNP1; hnRNP2; Hnrpc; Hnrpc1; Hnrpc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR220319 representing NM_001170981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTAGCAATGTTACCAACAAGACAGATCCTCGGTCCATGAATCCCCTGTATTCATTGGGAATCTCA
ACACTCTGGTGGTCAAGAAGTCTGATGTGGAGGCCATCTTTCAAAGTATGGCAAATTTGGGGCTGCTC
TGTGCATAAAGGCTTTGCCTTTGTCCAGTATGTTAATGAAAGAAATGCCCGAGCTGCTGTAGCTGGCGAG
GATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAA
AAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGTTCCTCATTTGACTTGGACTATGACTTTCAACG
GGATTATTATGACAGGATGTACAGTTACCCAGCGCGGGTTCCTCCTCCTCCTATTGCTCGAGCTGTG
GTGCCCTTCCAAACGTCAGCGTGTTCAGGGAACACCTCACGAAGGGGCAAAGTGGATTCAATTCGAAGA
GTGGACAAAGGGGATCTTCTCCAAGTCTGAAAATTGAAAGGTGATGACCTTCAGGCCATTAAGAAAGGA
GCTGACTCAGATAAAACAAAAGTGGATTCTCTCTGAAAAGCCTGAAAAAATTGAAAAAGAACAAGC
AAGCAAGCAGACTTGTCTTCTCATCCCAGTAGAGATGAAGAATGAAAAGTCTGAAGAAGAGCAGAGCA
GCGCCTCTGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGCAGGTGCAGATGACTCTGCTGA
GGAGGGTGACCTGCTGGATGATGACGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGAAGGATGAT
GAAAAAGAGCCTGAGGAAGGAGAAGACGACAGAGACAGCGCCAATGGGGAGGATGACTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220319 representing NM_001170981
 Red=Cloning site Green=Tags(s)

MASNVTNKTDPRSMNSRVFIGNLNLTLVVKKSDVEAIFSKYGKIVGCSVHKGFVQYVNERNARA AVAGE
 DGRMIAGQVLDINLAAEPKVNVRGKAGVKRSAAEMYGSSFDLDYDFQRDYDRMYSYPARVPPPPPIARAV
 VPSKRQRVSGNTRRGKSGFNKSGQRGSSSKSGKLGDDLQAIIKELTQIKQKVDLLESLEKIEKEQS
 KQADLSFSSPVEMKNEKSEEEQSSASVKKDETIVKMESEAGADDSAEEDLLDDDDNEDRGDDQLLELKDD
 EKEPEEGEDDRDSANGEDDS

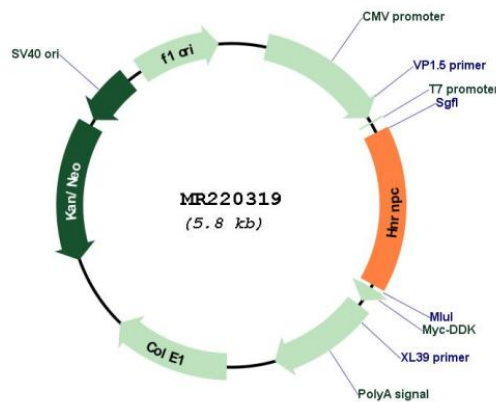
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001170981

ORF Size: 900 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:	<ol style="list-style-type: none">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_001170981.2
RefSeq Size:	2805 bp
RefSeq ORF:	903 bp
Locus ID:	15381
UniProt ID:	Q9Z204
Cytogenetics:	14 26.79 cM
MW:	33.5 kDa
Gene Summary:	Binds pre-mRNA and nucleates the assembly of 40S hnRNP particles. Interacts with poly-U tracts in the 3' UTR or 5'-UTR of mRNA and modulates the stability and the level of translation of bound mRNA molecules. Single HNRNPC tetramers bind 230-240 nucleotides. Trimers of HNRNPC tetramers bind 700 nucleotides. May play a role in the early steps of spliceosome assembly and pre-mRNA splicing. N6-methyladenosine (m6A) has been shown to alter the local structure in mRNAs and long non-coding RNAs (lncRNAs) via a mechanism named 'm(6)A-switch', facilitating binding of HNRNPC, leading to regulation of mRNA splicing. [UniProtKB/Swiss-Prot Function]