

Product datasheet for **MG220319**

Hnrnpc (NM_001170981) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpc (NM_001170981) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Hnrnpc
Synonyms:	AL022939; D14Wsu171e; hnrnp-C; hnRNP1; hnRNP2; Hnrpc; Hnrpc1; Hnrpc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220319 representing NM_001170981 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTAGCAATGTTACCAACAAGACAGATCCTCGGTCCATGAATCCCCTGTATTCATTGGGAATCTCA
ACACTCTGGTGGTCAAGAAGTCTGATGTGGAGGCCATCTTTCAAAGTATGGCAAATTGTGGGCTGCTC
TGTGCATAAAGGCTTTGCCTTTGTCCAGTATGTTAATGAAAGAAATGCCCGAGCTGCTGTAGCTGGCGAG
GATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAA
AAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGTTCCTCATTGACTTGGACTATGACTTTCAACG
GGATTATTATGACAGGATGTACAGTTACCCAGCGCGGGTTCCTCCTCCTCCTATTGCTCGAGCTGTG
GTGCCCTTCCAAACGTCAGCGTGTTCAGGGAACACCTCACGAAGGGGCAAAGTGGATTCAATTCGAAGA
GTGGACAAAGGGGATCTTCTTCCAAGTCTGAAAATTGAAAGGTGATGACCTTCAGGCCATTAATAAGGA
GCTGACTCAGATAAAACAAAAGTGGATTCTTCTTCTGAAAGCCTGGAAAAATTGAAAAAGAACAAAGC
AAGCAAGCAGACTTGTCTTCTCATCCCCAGTAGAGATGAAGAATGAAAAGTCTGAAGAAGAGCAGAGCA
GCGCCTCTGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGCAGGTGCAGATGACTCTGCTGA
GGAGGGTGACCTGCTGGATGATGACGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGAAGGATGAT
GAAAAGAGCCTGAGGAAGGAGAAGACGACAGAGACAGCCCAATGGGGAGGATGACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG220319 representing NM_001170981
 Red=Cloning site Green=Tags(s)

MASNVTNKTDPRSMNSRVFIGNLNLTLVVKKSDVEAIFSKYVKIVGCSVHKGFVQYVNERNARAAVAGE
 DGRMIAGQVLDINLAAEPKVNVRGKAGVKRSAAEMYGSSFDLDYDFQRDYDRMYSYPARVPPPPPIARAV
 VPSKRQRVSGNTSRRGKSGFNKSGQRGSSSKSGKLGDDLQAIKKELTQIKQKVDLSLESLEKIEKES
 KQADLSFSSPVEMKNEKSEEEQSSASVKKDETNVKMESEAGADDSAEEDLLDDDDNEDRGDDQLLEKDD
 EKEPEEGEDDRDSANGEDDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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:

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

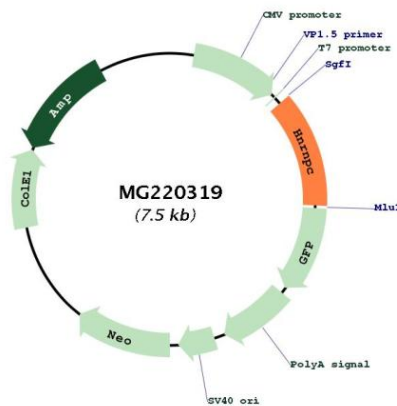
Locus ID: 15381

UniProt ID: [Q9Z204](#)

Cytogenetics: 14 26.79 cM

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]

Product images:



Circular map for MG220319