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Product datasheet for MC218178

Hnrnpc (NM_001170982) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpc (NM_001170982) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hnrnpc
Synonyms:	AL022939; D14Wsu171e; hnrnp-C; hnRNPC1; hnRNPC2; Hnrpc; Hnrpc1; Hnrpc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC218178 representing NM_001170982 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTAGCAATGTTACCAACAAGACAGATCCTCGGTCCATGAATTCCCGTGTATTCATTGGGAATCTCA ACACTCTGGTGGTCAAGAAGTCTGATGTGGAGGCCATCTTTTCAAAGTATGGCAAAATTGTGGGCTGCTC TGTGCATAAAGGCTTTGCCTTTGTCCAGTATGTTAATGAAAGAAATGCCCGAGCTGCTGTAGCTGGCGAG GATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAA AAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGTTCCTCATTTGACTTGGACTATGACTTTCAACG GGATTATTATGACAGGATGTACAGTTACCCAGCGCGGGTTCCTCCTCCTCCTCCTATTGCTCGAGCTGTG GTGCCTTCCAAACGTCAGCGTGTTTCAGGGAACACCTCACGAAGGGGCAAAAGTGGATTCAATTCGAAGA GTGGACAAAGGGGATCTTCTTCCAAGTCTGGAAAATTGAAAGGTGATGACCTTCAGGCCATTAAAAAGGA GCTGACTCAGATAAAACAAAAAGTGGATTCTCTTCTGGAAAGCCTGGAAAAAATTGAAAAAGAACAAAGC AAGCAAGCAGACTTGTCCTTCTCATCCCCAGTAGAGATGAAGAATGAAAAGTCTGAAGAAGAGCAGAGCA GCGCCTCTGTGAAGAAAGATGAGACTAATGTGAAGATGGAGTCTGAGGCAGGTGCAGATGACTCTGCTGA GGAGGGTGACCTGCTGGATGATGACGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGAAGGATGAT GAAAAAGAGCCTGAGGAAGGAGAAGACGACAGAGACAGCGCCAATGGGGAGGATGACTCTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001170982
Insert Size:	903 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001170982.1, NP_001164453.1
RefSeq Size:	2779 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] Transcript Variant: This variant (3) lacks an alternate exon in the 5' UTR and uses a different splice site in the coding region, compared to variant 1. The resulting protein (isoform 2) is shorter when it is compared to isoform 1. Variants 2, 3 and 13 encode the same isoform (2).

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