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Product datasheet for MC217708

Hnrnpc (NM_001170984) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hnrnpc (NM_001170984) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hnrnpc
Synonyms:	AL022939; D14Wsu171e; hnrnp-C; hnRNPC1; hnRNPC2; Hnrpc; Hnrpc1; Hnrpc2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC217708 representing NM_001170984 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCTAGCAATGTTACCAACAAGACAGATCCTCGGTCCATGAATTCCCGTGTATTCATTGGGAATCTCA ACACTCTGGTGGTCAAGAAGTCTGATGTGGAGGCCATCTTTTCAAAGTATGGCAAAATTGTGGGCTGCTC TGTGCATAAAGGCTTTGCCTTTGTCCAGTATGTTAATGAAAGAAATGCCCGAGCTGCTGTAGCTGGCGAG GATGGCAGAATGATTGCTGGCCAGGTTTTAGATATTAACCTGGCTGCAGAGCCAAAAGTGAACCGAGGAA AAGCAGGTGTGAAACGATCTGCAGCGGAGATGTACGGTTCCTCATTTGACTTGGACTATGACTTTCAACG GGATTATTATGACAGGATGTACAGTTACCCAGCGCGGGTTCCTCCTCCTCCTCCTATTGCTCGAGCTGTG GTGCCTTCCAAACGTCAGCGTGTTTCAGGGAACACCTCACGAAGGGGCAAAAGTGGATTCAATTCGAAGA GTGGACAAAGGGGATCTTCTTCCAAGTCTGGAAAATTGAAAGGTGATGACCTTCAGGCCATTAAAAAGGA GCTGACTCAGATAAAACAAAAAGTGGATTCTCTTCTGGAAAGCCTGGAAAAAATTGAAAAAGAACAAAGC AAGCAAGCAGAGATGAAGAATGAAAAGTCTGAAGAAGAGCAGAGCAGCGCCTCTGTGAAGAAAGATGAGA CTAATGTGAAGATGGAGTCTGAGGCAGGTGCAGATGACTCTGCTGAGGAGGGTGACCTGCTGGATGATGA CGATAATGAAGATCGGGGGGATGACCAGCTGGAGTTGAAGGATGATGAAAAAGAGCCTGAGGAAGGAGAA GACGACAGAGACAGCGCCAATGGGGAGGATGACTCTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001170984
Insert Size:	879 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001170984.1, NP_001164455.1
RefSeq Size:	2781 bp
RefSeq ORF:	879 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 (5) uses two different splice sites in the coding region, compared to variant 1. The resulting protein (isoform 4) is shorter when it is compared to isoform 1. Variants 5, 17 and 18 encode the same isoform (4). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.