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Product datasheet for MC202882

Cpsf3 (NM_018813) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpsf3 (NM_018813) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cpsf3
Synonyms:	MGC118660
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC023297 sequence for NM_018813
CGGACGCGTGGGCAGTAGCTGTGCTTTGAATTTAGAGACTGCGGCGACGAGTTCGTGGTCCACGCTGCTC
CTGAGACTGCCAGGATGTCTGCGATTCCTGCAGAGGAGAGCGACCAGCTGCTGATCCGACCCCTTGGTGC
TGGGCAAGAAGTGGGAAGATCATGTATTATTCTGGAGTTCAAAGGAAGGAAAATCATGCTGGACTGTGGG
ATCCACCCTGGCCTGGAAGGAATGGATGCCCTTCCTTACATTGACCTTATCGACCCAGCTGAGATCGACC
TTCTGTTGATCAGTCATTTCCATTTGGATCACTGTGGAGCCCTGCCCTGGTTCCTTCAGAAGACAAGTTT
CAAAGGACGGACATTTATGACCCACGCCACAAAAGCTATTTATAGATGGCTTCTCTCAGACTATGTCAAA
GTCAGCAACATATCGGCAGATGACATGCTGTACACTGAGACAGACTTGGAAGAAAGCATGGACAAAATCG
AAACCATCAATTTTCATGAAGTTAAGGAAGTTGCAGGAATCAAGTTCTGGTGTTACCATGCCGGCCACGT
CCTGGGAGCAGCCATGTTTATGATAGAGATCGCCGGTGTGAAGCTTTTGTATACAGGTGATTTCTCAAGA
CAAGAAGACAGACATCTAATGGCTGCTGAGATTCCTAATATTAAGCCAGACATCCTGATCATTGAGTCTA
CGTATGGGACCCATATCCATGAGAAGCGTGAAGAGCGAGAAGCAAGATTCTGCAACACTGTGCACGACAT
TGTCAACAGAGGGGGCAGAGGGCTCATTCCTGTCTTTGCTCTCGGAAGAGCTCAGGAGCTGCTCCTGATT
CTAGATGAGTACTGGCAGAACCACCCGGAGCTGCATGACATACCCATTTACTACGCATCGTCTCTGGCCA
AGAAGTGCATGGCCGTGTACCAGACCTACGTGAATGCCATGAACGACAAGATCCGGAAGCAGATCAACAT
CAACAACCCCTTTGTTTTCAAGCACATCAGCAACCTCAAGAGCATGGATCACTTTGATGACATTGGCCCC
AGTGTTGTGATGGCCTCACCAGGCATGATTCAAAACGGCTTATCCAGAGAGCTGTTTGAAAGCTGGTGTA
CAGATAAGAGGAATGGCGTCATCATCGCGGGGTACTGTGTCGAAGGGACACTTGCCAAGCACATCATGTC
TGAACCTGAAGAAATCACGACCATGTCTGGACAGAAGTTGCCACTGAAAATGTCGGTTGATTACATTTCT
TTCTCTGCTCACACAGATTACCAGCAAACCAGTGAATTTATTCGTGCTCTGAAGCCACCTCACGTGATTT
TAGTCCATGGGGAACAGAATGAAATGGCCAGGCTGAAAGCAGCGCTGATCCGAGAATATGAAGATAATGA
TGAAGTTCACATCGAGGTTCACAATCCTCGGAACACAGAGGCCGTGACCTTAAACTTCAGGGGAGAGAAG
CTCGCCAAGGTCATGGGCTTTTTGGCAGACAAGAAACCAGAACAGGGCCAGCGGGTCTCTGGAATTCTTG
TTAAAAGAAACTTTAATTACCATATACTCTCTCCCTGTGACCTCTCCAATTACACTGACCTGGCCATGAG
CACTGTGAAACAGACCCAGGCCATCCCGTACACCGGGCCCTTTTACCTGCTCTACTACCAGCTCCAGAAA
TTGACGGGTGATGTAGAAGAATTAGAAATTCAAGAAAAGCCTGCTCTGAAGGTGTTCAAAAGCATCACTG
TGGTGCAGGAGCCGGGCATGGTGGTTCTGGAGTGGCTGGCGAACCCCTCTAACGACATGTATGCAGACAC
AGTGACCACCGTGATATTGGAAGTTCAGTCAAATCCAAAGATAAGGAAAGGTGCAGTACAGAAGGTCTCT
AAGAAGCTAGAGATGCACGTTTACAGCAAGAGGCTGGAGGTCATGCTCCAGGACATATTTGGAGAAGACT
GTGTCAGTGTGAAAGATGACTCCGTCCTCAGTGTCACAGTGGACGGGAAAACAGCAAATATTAATCTGGA
GACTCGGGCTGTAGAATGTGAAGAAGGAAGTGAAGATGATGAATCCCTCCGAGAAATGGTGGAACTGGCC
GCCCAGAGACTGTACGAGGCTCTGACGCCGGTGCACTGACAGCCTTGCCTCCCAGACTCCCAGACTTTTT
TACACTCAGCCAAGAGTTAACTTCTGTTCTTCAAATAAAATAACCTTAGTTTCTAAAAAAAAAAAAAAAA AAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_018813

Insert Size: 2055 bp

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:	BC023297, AAH23297
RefSeq Size:	2253 bp
RefSeq ORF:	2055 bp
Locus ID:	54451
UniProt ID:	Q9QXK7
Cytogenetics:	12 A1.3
Gene Summary:	Component of the cleavage and polyadenylation specificity factor (CPSF) complex that play a key role in pre-mRNA 3'-end formation, recognizing the AAUAAA signal sequence and interacting with poly(A) polymerase and other factors to bring about cleavage and poly(A) addition. Has endonuclease activity, and functions as mRNA 3'-end-processing endonuclease. Also involved in the histone 3'-end pre-mRNA processing. U7 snRNP-dependent protein that induces both the 3' endoribonucleolytic cleavage of histone pre-mRNAs and acts as a 5' to 3' exonuclease for degrading the subsequent downstream cleavage product (DCP) of mature histone mRNAs. Cleavage occurs after the 5'-ACCCA-3' sequence in the histone pre-mRNA leaving a 3'hydroxyl group on the upstream fragment containing the stem loop (SL) and 5' phosphate on the downstream cleavage product (DCP) starting with CU nucleotides. The U7-dependent 5' to 3' exonuclease activity is processive and degrades the DCP RNA substrate even after complete removal of the U7-binding site. Binds to the downstream cleavage product (DCP) of histone pre-mRNAs and the cleaved DCP RNA substrate in a U7 snRNP dependent manner.[UniProtKB/Swiss-Prot Function]