

## Product datasheet for **RN212878**

### **Cpsf7 (NM\_001014245) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cpsf7 (NM_001014245) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cpsf7
Synonyms:	RGD1305441
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN212878 representing NM\_001014245  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCAGAAGGAGTGGATTTGATTGATATACGCTGATGAAGAGTTCAATCAGGACTCGGAGTTCAACA  
 ACACAGATCAGATTGACCTATATGATGATGTGCTGACGGCGCCCTCACAGCCCTCGGATGACAGAAGCAG  
 TAGCACAGAACCACCCCTCCTGTCCGCCAGGAGCCAGCTCCCAAACCAACAACAAGACCCTGCAATT  
 CTGTACACATACAGTGGCCTGCGGAGTCCGGCAGCAGCTGTCTATGTAGGCAGTTTCTCCTGGTGGACCA  
 CAGACCAGCAGCTGATCCAGTTATTGCTCTATAGGAGTCTATGATGTGGTGGAGTTGAAATTTGCAGA  
 GAACCGTGCAAATGGCCAGTCTAAAGGGTATGCTGAGGTGGTGGTAGCCTCTGAAATTTCTGCCACAAA  
 TTGCTGGAACCTTACCAGGAAAAGTTCTTAATGGAGAAAAGTAGATGTGAGGCCAGCCACTCGGCAGA  
 ACTTATACAATTTGAGGCTCAGGCTCGGAAACGAATACCTCCACGGGCCACTCCCGAGATTCTAGTGA  
 TTCTGCTGATGGACGGCAACCCCTCTGAGAATCTTGTACCCTCATCTGCTCGTGTGGATAAGCCCCC  
 AGCGTGTTCGCTACTTTAACCGTCTCCTTCAGCCCTTCCCCTAATGGGTCTGCCCCACCCCAATTC  
 CACCCCAACACCTCTCTCCTCAAGCTTTGGTGTCCCTCCTCCTCCTCCTGGTATCCACTACCAGCATCT  
 CATGCCCCCTCCTCGATTACCTCCTCATCTGGCTGTACCTCCCCCTGGGGCCATCCCACCAGCCCTT  
 CACCTCAATCCAGCCTTCTTCCCCCACCAATGCTACAGTGGGGCTCCACCAGATACTTACATGAAGG  
 CCTCTACACCCTATAACCACCATGGCAGCCGAGATTGAGCCCTTACCGTCTACAGTGAAGTGAAGCTGA  
 ATTTGAAGAGATAATGAAGCGAAACAGAGCAATTTCCAGCAGTGCATTTCAAAGCAGTGTCTGGAGCT  
 AGTGCAGGGGATTACAGTGACGCCATTGAGACACTACTCACAGCCATTGCAGTTATCAAACAGTCCCGAG  
 TCGCCAATGATGAGCGTTGTCCGGTCTCATCTTCACTTAAGGACTGTCTTCATGGCATAGAGGCCAA  
 GTCTTACAGTGTGGGTGCCAGTGGAAAGCTTCTAGGAAAAGACATCGGTCAAGGGAGAGGTCACCCAGC  
 CGGTCCCAGAGAGTAGCAGAAGCACCGAGACTTGTTCATAATGAAGCCGACATGATGATTATTTCC  
 AAGAAAGGAACCGGGAGCATGAGAGACCCGGGATAGAGAACGGGACCGGCACC**CTGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001014245
- Insert Size:** 1389 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: [NM\\_001014245.2](#), [NP\\_001014267.1](#)

RefSeq Size: 3158 bp

RefSeq ORF: 1389 bp

Locus ID: 365407

UniProt ID: [Q5XI29](#)

Cytogenetics: 1q43

**Gene Summary:** Component of the cleavage factor Im (CFIm) complex that functions as an activator of the pre-mRNA 3'-end cleavage and polyadenylation processing required for the maturation of pre-mRNA into functional mRNAs. CFIm contributes to the recruitment of multiprotein complexes on specific sequences on the pre-mRNA 3'-end, so called cleavage and polyadenylation signals (pA signals). Most pre-mRNAs contain multiple pA signals, resulting in alternative cleavage and polyadenylation (APA) producing mRNAs with variable 3'-end formation. The CFIm complex acts as a key regulator of cleavage and polyadenylation site choice during APA through its binding to 5'-UGUA-3' elements localized in the 3'-untranslated region (UTR) for a huge number of pre-mRNAs. CPSF7 activates directly the mRNA 3'-processing machinery. Binds to pA signals in RNA substrates.[UniProtKB/Swiss-Prot Function]