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Product datasheet for MC202653

Cpsf6 (NM_001013391) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cpsf6 (NM_001013391) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cpsf6
Synonyms:	4733401N12Rik; AI256641; CFIM; CFIM68; HPBRII-4; HPBRII-7
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>BC068133 sequence for NM_001013391
GCGGGCCGACCTGCAGGAGGCGGCGGCGGCGGCCGAGGCCGAGGGAAGATGGCGGACGGTGTGGACC
ACATAGACATTTACGCGGATGTGGGTGAAGAGTTCAACCAGGAAGCAGAATATGGTGGACATGATCAGAT
AGATTTGTATGATGATGTCATCTCTCCATCTGCAAATAATGGCGATGCCCCAGAAGATCGCGACTACATG
GATACTCTTCCACCAACTGTTGGTGATGATGTGGGTAAAGGAGCCGCACCAAACGTTGTGTACACTTACA
CTGGGAAGAGAATCGCATTGTATATTGGAAATCTAACATGGTGGACAACAGATGAGGACCTAACTGAGGC
CGTTCATTCTTTGGGAGTAAATGATATTTTGGAGATAAAATTCTTTGAAAATCGGGCAAATGGACAATCA
AAGGGATTTGCCCTTGTTGGTGTTGGATCTGAAGCATCTTCCAAAAAGTTAATGGATCTTTTGCCTAAAA
GAGAACTTCATGGTCAGAGTCCTGTTGTAACTCCATGCAATAAGCAGTTCCTGAGTCAATTTGAAATGCA
ATCCAGGAAAACTACACAGTCAGGACAGATGTCTGGGGAAGGGAAAGCCGGTCCTCCAGGAGGCGGTTCA
CGCGCAGCGTTTCCTCAAGGTGGTAGAGGACGGGGCCGGTTTCCAGGGGCTGTTCCTGGTGGGGACAGAT
TTCCTGGGCCAGCAGGACCAGGAGGGCCACCTCCACCTTTTCCAGCTGGACAAACTCCACCACGTCCACC
TTTAGGCCCACCTGGCCCACCTGGTCCACCAGGTCCTCCACCTCCTGGTCAGGTTCTGCCACCTCCTCTA
GCAGGACCTCCTAACCGAGGAGACCGCCCTCCACCACCAGTTCTTTTTCCTGGACAACCTTTTGGGCAGC
CTCCGCTGGGTCCACTTCCTCCTGGGCCTCCACCTCCAGTTCCAGGCTACGGCCCCCCTCCAGGTCCACC
GCCTCCACAGCAGGGACCACCTCCACCTCCAGGCCCCTTTCCACCTCGCCCACCAGGTCCACTAGGGCCT
CCCCTCACACTTGCTCCTCCTCCACATCTTCCGGGACCACCTCCAGGTGCCCCGCCACCAGCTCCACATG
TGAATCCTGCTTTTTTTCCTCCACCAACTAATAGTGGCATGCCAACATCAGATAGTCGAGGTCCACCACC
AACAGACCCATATGGCCGACCTCCCCCATATGATAGGGGTGACTACGGTCCCCCTGGGAGGGAAATGGAT
ACTGCAAGAACACCTCTGAGTGAAGCTGAGTTTGAAGAAATCATGAATAGAAATCGGGCAATCTCAAGCA
GTGCTATTTCAAGAGCTGTGTCTGACGCTAGTGCTGGTGATTATGGGAGTGCTATTGAAACATTGGTAAC
AGCAATTTCTTTAATTAAACAATCCAAAGTCTCTGCAGATGATCGTTGCAAAGTTCTTATTAGCTCTCTG
CAGGATTGCCTTCATGGAATCGAGTCCAAGTCCTATGGGTCTGGATCCAGACGTGAACGATCAAGAGAAC
GGGACCATAGTAGATCACGGGAAAAGAGTCGTCGCCATAAATCTCGGAGTAGAGATCGCCACGATGACTA
TTACAGAGAGAGAAGCAGAGAACGAGAGAGACACCGGGATCGGGACCGCGACCGTGACCGAGAGCGTGAC
CGAGAGCGAGAATACCGTCATCGTTAGAAGCTGAAGGAAGAGGAACACCTTCCAAGACAAAAGAGTCTTC
TCGGGGGAAAAGTGACGCTTGTCCAGCAGTTTGCTTCTTGTGATTGAACTGAACCTGTAAGGCTTCATGG
ATAAACTGAACAGGAATAGATCTGAATAAAGCAAATCTGCATAAATGGTAACCAGTAGCTCTACTTTTAT
TTTTTATGTTGCTTAACTGTTTTATTTGAAGGAAACCTGTGTGATTTAAAAAGTTAATAGCTTTTGCAAC
TTTATTACTGGTTATATATATTTGGCCATTATAATGTGCAAGCAATTGGAAAAAAGTCAAGTAAATGCTT
GTTTTTATAGTAGTTTGTTCTTGTTAAAATGTTCCTATGATAATGTCTGTAAACAGCACCGATTTGATTA
CACTAGATGTAGTGTTGTAATAAACTGTTTATGGGGCTGATGTGTAAAGCTGTTCACGTTATTTGATGTT
TACACCTCAGGGAAAGGCTTGTGTTCAGCAATATCTAAAGATAATGTTACTATGACAACATTTTTACTGT
CCTTTAAAAAGCATTGCAATAGCGTGTTTGGATATGCATCAATCTAATCTTGCGTTCAGTGAATTAAACA
TGACTAATTAAGTGTCTATTGCCCTTGATTTTGATATTAGAATAGGTGACTACATGGGTATTTAATATTT
CTATATTCTGCTTTTCTAGCTGTTTTTACCTAGTTAGCTTGTGATTTTGCTGAATGGTATGTAAACGTGT
AAAAACTGAAATTTGACAGAGCAATCCAGTCAATGTGTTAGGGGTCAAAAAAATTGAAGGCTGTAACATT
TTTGGTAAAAACTCATGTATTTGCTACAGTAGTGCAGCTTAATTACAACCCAGATATACTGAAATAATAA
ATTGTGAACTGCTAGCATTTAAGATAGATTTTGATAATTCTGGTTTCATGCAGTAATTTACTGTTTGATG
CTGATGGTGCCATAGGCAGTGTAATTATGGCTATACAGCAAGATGCGTAAAGAAAGCTCTAGTATTGTAC
TTGATTCAGATTTCTGAAGGGTGTGATGTTTATTAACATTGGGCTGTATTGTTCAGTGTGAATAATGAAA
ATTTATAATTACACTGTCTTCATGGCTCAAGGAATTGTGTGTGTATTCCTGTAACCTTGTTGATCTATGC
TTGATTAGAGTTAATCAGCTGATTTTTTTTTCTTTTTTTTTCCTTTCTTTCATTTTTTTTTTTAAAAGAT
CCAGCCTTAATAAAAGGTTGTATTAAAAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA AA

Restriction Sites: AscI-NotI

ACCN: NM_001013391

Insert Size: 1656 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:	BC068133, AAH68133
RefSeq Size:	3012 bp
RefSeq ORF:	1656 bp
Locus ID:	432508
UniProt ID:	Q6NVF9
Cytogenetics:	10 D2
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. CPSF6 enhances NUDT21/CPSF5 binding to 5'-UGUA-3' elements localized upstream of pA signals and promotes RNA looping, and hence activates directly the mRNA 3'-processing machinery. Plays a role in mRNA export. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.