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Product datasheet for RC202127

CPSF7 (NM_024811) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CPSF7 (NM_024811) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CPSF7
Synonyms:	CFIm59
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202127 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGAAGGAGTGGACTTGATTGATATATATGCTGACGAGGAGTTCAACCAGGACCCAGAGTTCAACA
ATACAGATCAGATTGACCTGTATGATGATGTGCTGACAGCCACCTCACAGCCCTCAGATGACAGAAGCAG
CAGCACTGAACCACCTCCTCCTGTTCGCCAGGAGCCATCTCCCAAGCCCAACAACAAGACCCCTGCAATT
CTGTATACCTACAGTGGCCTGCGTAATAGACGAGCTGCCGTTTATGTGGGCAGCTTCTCCTGGTGGACCA
CAGACCAGCAGCTGATCCAGGTTATTCGCTCTATAGGAGTCTATGATGTGGTGGAGTTGAAATTTGCAGA
GAATCGAGCAAATGGCCAGTCCAAAGGGTATGCTGAGGTGGTGGTAGCCTCTGAAAACTCTGTCCACAAA
TTGTTGGAACTCCTACCAGGGAAAGTTCTTAATGGAGAAAAAGTGGACGTGAGGCCGGCCACCCGGCAGA
ACCTGTCACAGTTTGAGGCACAGGCTCGGAAACGTGAGTGTGTCCGAGTCCCAAGAGGGGGAATACCTCC
ACGGGCCCATTCCCGAGATTCTAGTGATTCTGCTGATGGACGGGCCACACCCTCTGAGAACCTTGTACCC
TCATCTGCTCGTGTGGATAAGCCCCCCAGTGTGCTGCCCTACTTCAATCGTCCTCCTTCGGCCCTTCCCC
TGATGGGTCTGCCCCCACCACCAATTCCACCCCCACCACCTCTCTCCTCAAGCTTTGGGGTCCCTCCTCC
TCCTCCTGGTATCCACTACCAGCATCTCATGCCCCCACCTCCTCGATTACCTCCTCATCTTGCTGTACCT
CCCCCTGGGGCCATCCCACCTGCCCTTCACCTCAATCCAGCCTTCTTCCCCCCACCAAACGCTACAGTGG
GGCCTCCACCAGATACTTACATGAAGGCCTCTGCCCCCTATAACCACCATGGCAGCCGAGATTCGGGCCC
TCCACCCTCTACAGTGAGTGAAGCCGAATTTGAAGATATCATGAAGCGAAACAGAGCAATTTCCAGCAGT
GCCATTTCCAAAGCAGTATCTGGAGCCAGTGCAGGGGATTACAGTGACGCAATTGAGACGCTGCTCACAG
CCATTGCGGTTATCAAACAGTCCCGGGTTGCCAATGATGAGCGTTGCCGTGTCCTCATCTCCTCTCTTAA
GGACTGTCTTCATGGCATTGAAGCCAAGTCCTACAGTGTGGGTGCCAGTGGGAGCTCTTCCAGGAAAAGA
CATCGCTCCCGGGAAAGGTCACCTAGCCGGTCCCGGGAGAGCAGCAGGAGGCACCGGGATCTGCTTCATA
ATGAAGATCGGCATGATGATTATTTCCAAGAAAGGAACCGGGAGCATGAGAGACACCGGGATAGAGAACG
GGACCGGCACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202127 protein sequence
Red=Cloning site Green=Tags(s)

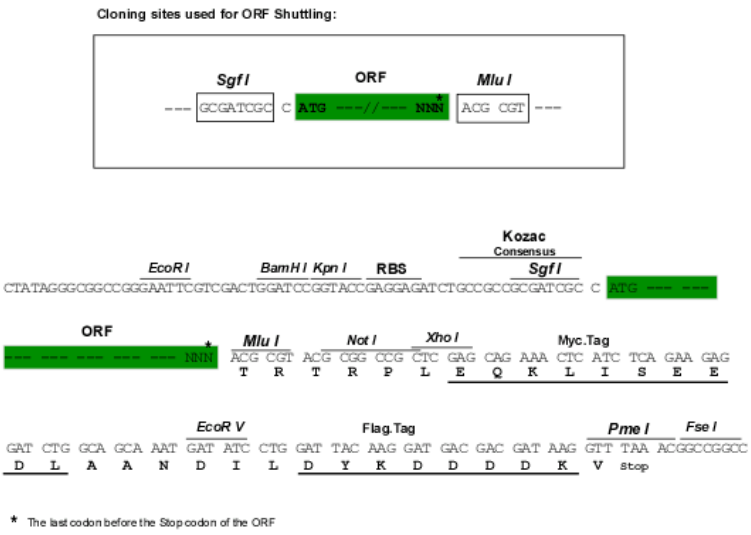
MSEGVDLIDIYADEEFNQDPEFNNTDQIDLYDDVLTATSQPSDDRSSSTEPPPPVRQEPSPKPNNKTPAI
LYTYSGLRNRRAAVYVGSFSWWTTDQQLIQVIRSIGVYDVVELKFAENRANGQSKGYAEVVVASENSVHK
LLELLPGKVLNGEKVDVRPATRQNLSQFEAQARKRECVRVPRGGIPPRAHSRDSSDSADGRATPSENLVP
SSARVDKPPSVLPYFNRPPSALPLMGLPPPPIPPPPPLSSSFGVPPPPPGIHYQHLMPPPPRLPPHLAVP
PPGAIPPALHLNPAFFPPPNATVGPPPDTYMKASAPYNHHGSRDSGPPPSTVSEAEFEDIMKRNRAISSS
AISKAVSGASAGDYSDAIETLLTAIAVIKQSRVANDERCRVLISSLKDCLHGIEAKSYSVGASGSSSRKR
HRSRERSPSRSRESSRRHRDLLHNEDRHDDYFQERNREHERHRDRERDRHH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6324_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024811

ORF Size: 1413 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_024811.2, NP_079087.2

RefSeq Size: 3764 bp

RefSeq ORF: 1545 bp

Locus ID: 79869

UniProt ID: Q8N684

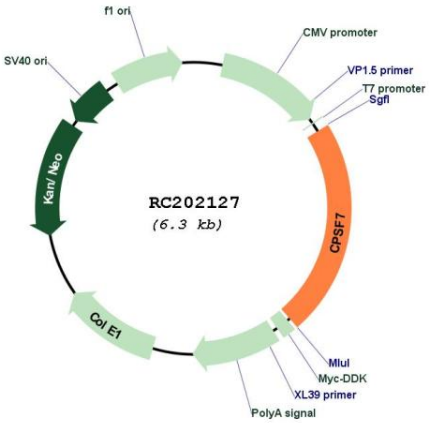
Cytogenetics: 11q12.2

Domains: RRM

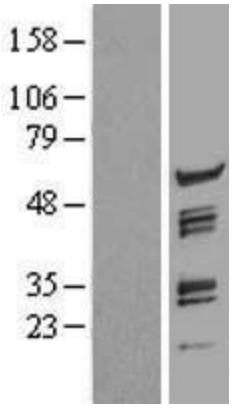
MW: 52.1 kDa

Gene Summary: Cleavage factor Im (CFIm) is one of six factors necessary for correct cleavage and polyadenylation of pre-mRNAs. CFIm is composed of three different subunits of 25, 59, and 68 kDa, and it functions as a heterotetramer, with a dimer of the 25 kDa subunit binding to two of the 59 or 68 kDa subunits. The protein encoded by this gene represents the 59 kDa subunit, which can interact with the splicing factor U2 snRNP Auxiliary Factor (U2AF) 65 to link the splicing and polyadenylation complexes. [provided by RefSeq, Oct 2016]

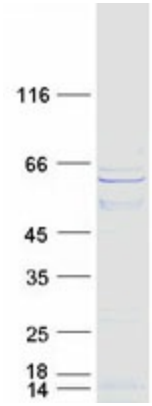
Product images:



Circular map for RC202127



Western blot validation of overexpression lysate (Cat# [LY427787]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227409] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CPSF7 protein (Cat# [TP302127]). The protein was produced from HEK293T cells transfected with CPSF7 cDNA clone (Cat# RC202127) using MegaTran 2.0 (Cat# [TT210002]).