

Product datasheet for RC205711

YJU2 (NM_018074) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	YJU2 (NM_018074) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	YJU2
Synonyms:	CCDC94
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205711 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAGCGAAAAGTATTAACAAATACTACCCGCCGGACTTTGACCCATCAAAGATCCCCAACTCA
AGCTCCCCAAAGACCGGCAGTACGTGGTGCGGCTGATGGCCCCCTTCAACATGAGGTGTAAGACGTGCGG
AGAATACATCTACAAGGGGAAGAAATTCATGCTCGGAAGGAGACGGTGCAGAACGAGGTCTACCTGGGC
CTGCCATCTTCCGCTTTTACATCAAGTGCACGCGCTGCCTGGCAGAGATCACCTTCAAGACAGACCCTG
AAAACACAGACTACACCATGGAGCATGGAGCCACGCGAATTTCCAGGCTGAGAAGCTCCTGGAGGAGGA
GGAGAAGAGGGTGCAGAAGGAGCGGGAGGACGAGGAGCTGAACAACCCCATGAAGGTGCTGGAGAACCGG
ACCAAGGACTCCAAGCTGGAGATGGAGGTGCTGGAGAACCTCCAGGAGCTGAAAGACCTGAACAGCGGC
AGGCGCACGTGGACTTCGAGGCTATGCTGAGGCAGCACCGCTGTGCGAGGAGGAGCGGCGGAGGCAGCA
GCAGGAGGAGGACGAGCAGGAGACCGCGGCCCTGTTGGAGGAAGCCAGAAAGCGAAGACTGCTGGAGGAC
TCCGACTCAGAGGATGAGGCTGCTCCCTCGCCCCGTCAGCCAGCCCTTCGGCCCAACCCACCGCCATCC
TGGATGAGGCCCAAGCCCAAGAGGAAGGTGGAGGTCTGGGAGCAGAGCGTTGGCAGCCTGGGCAGCCG
GCCCCGCTGTCGAGGCTGGTGTGTTGAAGAAGCAAAGGCCGACCCGGACTGCAGCAACGGGCAGCCT
CAGGCGGCCCCCAACCCAGGAGCCCCGAGAACAGGAAGGAGGCCAACCCCTACACCCCTGACGCTGGCG
GTCCTCCCTGAGCCAACCTGGTGCATACCTGGACAGTGCAGCAGCAACGGCAGCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205711 protein sequence
Red=Cloning site Green=Tags(s)

MSEKVLNKYPPDFDPSKIPKLKLPKDRQYVVRMAPFNMCRCKTCGEIYKGGKFNARKETVQNEVYLG
 LPIFRFYIKCTRCLAEITFKTDPENTDYTMHGATRNFQAEKLEEEKRVQKEREDEELNNPMKVLNLR
 TKDSLKLEMLVLENLQELKDLNQRQAHVDFEAMLRQHRLSEEERRRQQQEEDQETAALLEEARRRLLLED
 SDSEDEAAPSPLQPALRPNPTAILDEAPKPKRKVEVWEQSVGSLGSRPPLSRLVVVKKAKADPDCSNGQP
 QAAPTGPAPQNRKEANPTPLTPGASSLSQLGAYLDSDDSNNGSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6574_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018074

ORF Size: 969 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_018074.6](#)

RefSeq Size: 1441 bp

RefSeq ORF: 972 bp

Locus ID: 55702

UniProt ID: [Q9BW85](#)

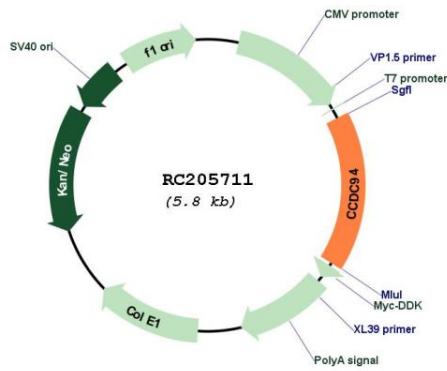
Cytogenetics: 19p13.3

Domains: DUF572

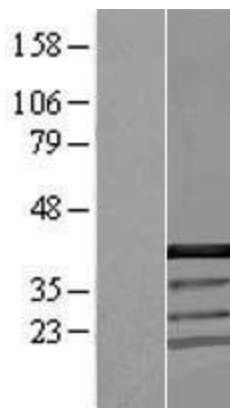
MW: 37.1 kDa

Gene Summary: Part of the spliceosome which catalyzes two sequential transesterification reactions, first the excision of the non-coding intron from pre-mRNA and then the ligation of the coding exons to form the mature mRNA (PubMed:29301961). Plays a role in stabilizing the structure of the spliceosome catalytic core and docking of the branch helix into the active site, producing 5'-exon and lariat intron-3'-intermediates (By similarity). May protect cells from TP53-dependent apoptosis upon dsDNA break damage through association with PRP19-CD5L complex (PubMed:22952453).[UniProtKB/Swiss-Prot Function]

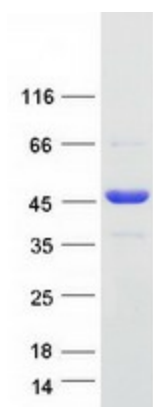
Product images:



Circular map for RC205711



Western blot validation of overexpression lysate (Cat# [LY413333]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205711 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified YJU2 protein (Cat# [TP305711]). The protein was produced from HEK293T cells transfected with YJU2 cDNA clone (Cat# RC205711) using MegaTran 2.0 (Cat# [TT210002]).