

Product datasheet for **RC231096**

C16orf57 (USB1) (NM_001195302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C16orf57 (USB1) (NM_001195302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C16orf57
Synonyms:	C16orf57; hUsb1; HVSL1; Mpn1; PN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231096 representing NM_001195302 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGCGGGCCCTGGTGGGCTACAGCAGCAGCGGCTCCGAGGATGAGTCCGAGGACGGGATGCGGA
CCAGGCCGGGGATGGGAGCCACCGTCGTGGCCAGAGCCCCCTCCAGGCAGAGATTTCCAGTACCTGA
CAGTGTGCTGAACATGTTCCCGGCACCGAGGAGGGCCCTGAAGATGACAGCACAAAACAGGGGGACGG
GTGCGCACCTTCCCCACGAGCGAGGCAACTGGGCCACCCACGTCTATGTACCATATGAAGCCAAGGAGG
AGTTCCTGGATCTGCTTGATGTGTGTGCTGCCCCATGCCAGACATATGTCCCCGGCTGGTAAGGATGAA
GGTGTTCACCTCAGCCTGTCCCAGAGTGTGGTTCTGCGCCACCACTGGATCCTCCCTTCGTGCAGGCT
CTGAAAGCCCGTATGACCTCCTCCACAGGACCTTTATTGGGCTTGAGGTCACTTCAGGGCATGCCAGT
TCCTGGACCTGGTTTCAGAGGTGGACAGAGTCATGGAGGAATCAACCTCACCACCTTTCTACCAGGATCC
TTCTTTCCACCTCAGCCTGGCCTGGTGTGTGGGTGATGCACGCTCCAGCTGGAGGGCAGTGCCTGCAG
GAACTACAGGCAATCGTGGATGGGTTTGAAGATGCTGAGGTGCTGCTGCGCGTGACACTGAGCAAGTCC
GCTGCAAGTCTGGGAACAAGTTCTTCTCGATGCCTTTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231096 representing NM_001195302
Red=Cloning site Green=Tags(s)

MSAAPLVGYSSSGSEDESEDGMRTRPGDGSRRGQSPLPRQRFPVPSVLNMFPGTEEGPEDDSTKHGGR
 VRTFPHERGNWATHVYVPYEAKEEFLDLLDVLPHAQTYVPRLVKMKVFHLSLSQSVVLRHHWILPFVQA
 LKARMTSFHRTF IGLEVTSGHAQFLDLVSEVDRVMEEFNL TTFYQDP SFHLSLAWCVGDARLQLEGQCLQ
 ELQAIVDGFEDA EVLLRVHTEQVRCKSGNKFFSMPLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1470_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001195302

ORF Size: 741 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.

RefSeq: [NM_001195302.2](#)

RefSeq ORF: 744 bp

Locus ID: 79650

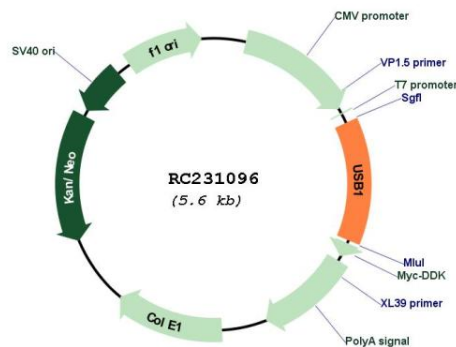
UniProt ID: [Q9BQ65](#)

Cytogenetics: 16q21

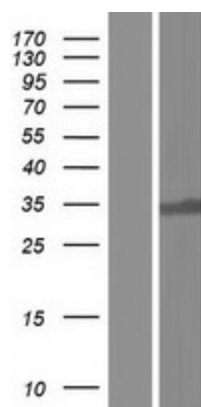
MW: 28.5 kDa

Gene Summary: This gene encodes a protein with several conserved domains, however, its exact function is not known. Mutations in this gene are associated with poikiloderma with neutropenia (PN), which shows phenotypic overlap with Rothmund-Thomson syndrome (RTS) caused by mutations in the RECQL4 gene. It is believed that this gene product interacts with RECQL4 protein via SMAD4 proteins, explaining the partial clinical overlap between PN and RTS. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Mar 2011]

Product images:



Circular map for RC231096



Western blot validation of overexpression lysate (Cat# [LY434095]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231096 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).