

Product datasheet for **RC202591**

C16orf57 (USB1) (NM_024598) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C16orf57 (USB1) (NM_024598) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USB1
Synonyms:	C16orf57; hUsb1; HVSL1; Mpn1; PN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC202591 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCGCGGCCCCCTGGTGGGCTACAGCAGCAGCGGCTCCGAGGATGAGTCCGAGGACGGGATGCGGA
CCAGGCCGGGGATGGGAGCCACCGTCGTGGCCAGAGCCCCCTCCAGGCAGAGATTTCCAGTACCTGA
CAGTGTGCTGAACATGTTCCCGGCACCGAGGAGGGCCCTGAAGATGACAGCACAAAACACGGGGACGG
GTGCGCACCTTCCCCACGAGCGAGGCAACTGGGCCACCCACGTCTATGTACCATATGAAGCCAAGGAGG
AGTTCCTGGATCTGCTTGATGTGTTGCTGCCCCATGCCCAGACATATGTCCCCGGCTGGTAAGGATGAA
GGTGTTCACCTCAGCCTGTCCAGAGTGTGGTTCTGCGCCACCACTGGATCCTCCCCTTCGTGCAGGCT
CTGAAAGCCCGTATGACCTCCTCCACAGATTCTTTACTGCCAACCAAGGTAAGATTTACCCAATC
AAGAGAAAACCAGGACCTTTATTGGGCTTGAGGTCACTTCAGGGCATGCCAGTTCCTGGACCTGGTTTC
AGAGGTGGACAGAGTCATGGAGGAATCAACCTCACCCTTTCTACCAGGATCCTTCTTCCACCTCAGC
CTGGCCTGGTGTGTGGGTGATGCACGTCTCCAGCTGGAGGGCAGTGCCTGCAGGAACACAGGCAATCG
TGGATGGGTTTGAAGATGCTGAGGTGCTGCTGCGCGTGACACTGAGCAAGTCCGCTGCAAGTCTGGAA
CAAGTTCTCTCGATGCCTTTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202591 protein sequence
 Red=Cloning site Green=Tags(s)

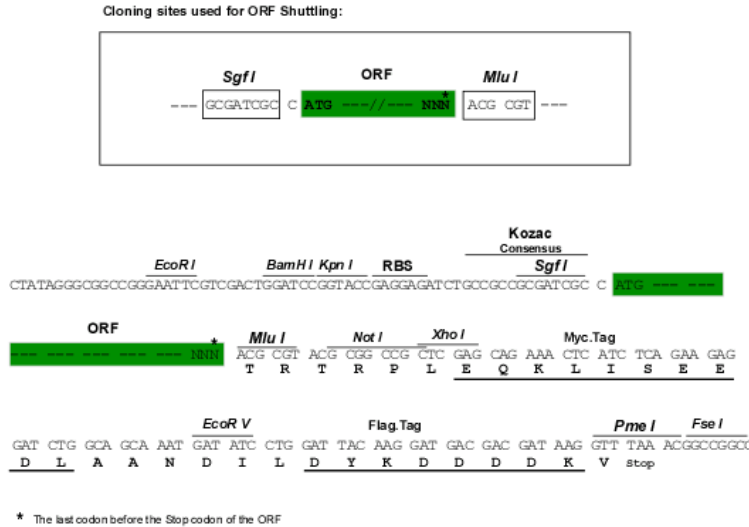
MSAAPLVGYSSSGSEDESEDGMRTRPGDGSRRGQSPLPRQRFVPDVLNMFPGTEEGPEDDSTKHGGR
 VRTFFPHERGNWATHVYVPYEAKEEFLDLLDVLPHAQTYVPRLVRMKVFHLSLSQSVVLRHHWILPFVQA
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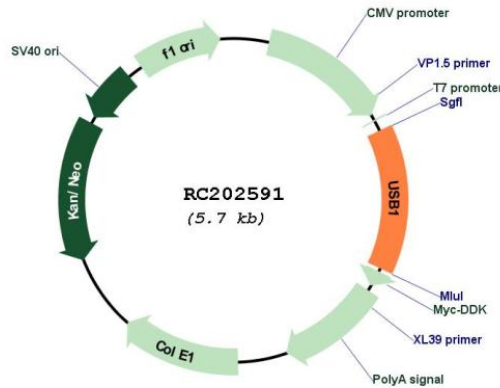
Chromatograms: https://cdn.origene.com/chromatograms/mk6391_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



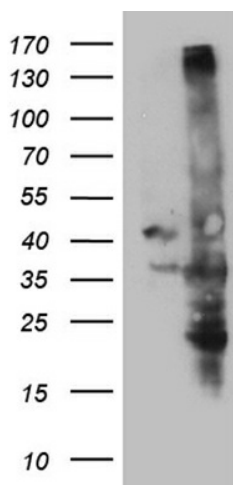
Plasmid Map:



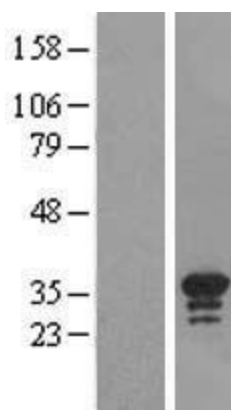
ACCN: NM_024598

ORF Size:	795 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.
RefSeq:	NM_024598.4
RefSeq Size:	2287 bp
RefSeq ORF:	798 bp
Locus ID:	79650
UniProt ID:	Q9BQ65 , A0A024R6V6
MW:	30.3 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]

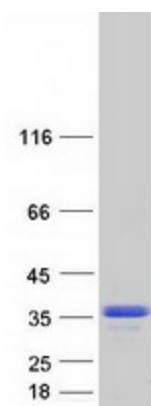
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY C16orf57 (Cat# RC202591, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-C16orf57 (Cat# [TA811328])(1:2000). Positive lysates [LY411214] (100ug) and [LC411214] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411214]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202591 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified USB1 protein (Cat# [TP302591]). The protein was produced from HEK293T cells transfected with USB1 cDNA clone (Cat# RC202591) using MegaTran 2.0 (Cat# [TT210002]).