

Product datasheet for MR203537

Usb1 (NM_133954) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Usb1 (NM_133954) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Usb1
Synonyms:	AA960436
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203537 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCTCGGCGCCCTGGTGGGCTACAGCAGCAGCGGTTGAGAGGATGAAGCGGAGGCTGTCGCCGCGG
GGCGGAGCAAACCGGTACTGGCTTCCACCGTTGTGGCCAGAACCCCGTCCAGTGAGAAGCTCCAGT
GCCTGACAGTGTGCTAAGTATGTTCCCCAGCACAGAGGAAGGGCCTGAGGACGACAGTCAAAGCATGGC
GGTCGAATCCGAACCTTCCCCATGAGCGGGCAACTGGGCCACCCACATCTACATACCGTATGAGGCGA
AGGAGGACTTCCGGGATCTGCTTGACGCATTGCTGCCCGAGCTCAGATGTTGTACCGAGACTGGTACT
GATGGAGGAGTTCACGTCAGCCTGTCCAGAGCGTGGTCTCCGTCACCACTGGATCCTCCCCTTTGTG
CAGGTGCTCAAGGACCGCATGGCCTCTTCCAAAGGTTCTTCTTACTGCCAACAGGGTAAAGATTTACA
CCAATCAAGAGAAAACCAGGACCTTCAATGGGCTGGAGGTGAGTTCAGGGCATGCCAGTTCCTGGACCT
GGTTTCAGAGGTGGACAGAGCCATGAAGGAATTTGACCTTACTACTTTCTACCAGGACCCCTCATTTTCA
ATCAGCCTGGCCTGGTGTGTGGGTGATGCTAGTCTCCAGCTGGAGGGACAGTGCCTGCAGAACTACAGG
AAATCGTGGATGAGTTTGAAGACTCTGAGATGCTGTTACGTGTGCTGGCCAACCAAGTCCGCTGCAAGTC
CGGAACAATTCTTCTCCATGCCTTTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203537 protein sequence
 Red=Cloning site Green=Tags(s)

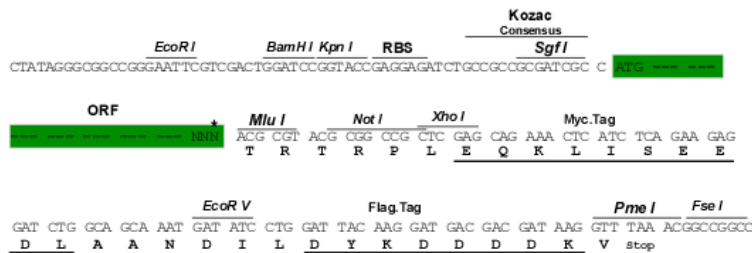
MSSAPLVGYSSSGSEDEAEAVAAGRSKPGTGFHRCQNPVPSEKLPVPDVL SMFPSTEEGPEDDSAKHG
 GRIRTFPHERGNWATHIYIPYEAKEDFRDLLDALLPRAQMFVPRLLVLMEEFHVLSLSQSVLRRHHWILPFV
 QVLKDRMASFQRFFFTANRVKIYTNQEKTRTFIGLEVSSGHAQFLDLVSEVDRAMKEFDL TTFYQDPSFH
 ISLAWCVGDASLQLEGQCLQELQEIVDEFEDSEMLLRVLANQVRCKSGNKFFSMP LK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_133954

ORF Size: 804 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_133954.1](#), [NP_598715.1](#)

RefSeq Size: 1764 bp

RefSeq ORF: 804 bp

Locus ID: 101985

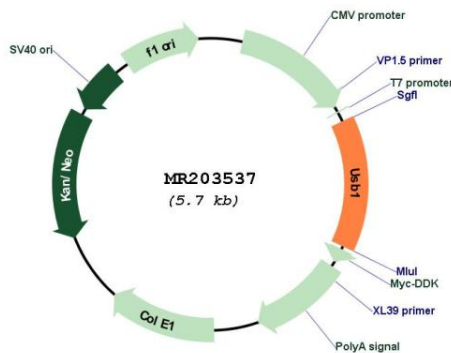
UniProt ID: [Q91W78](#)

Cytogenetics: 8 C5

MW: 30.3 kDa

Gene Summary: Phosphodiesterase responsible for the U6 snRNA 3' end processing. Acts as an exoribonuclease (RNase) responsible for trimming the poly(U) tract of the last nucleotides in the pre-U6 snRNA molecule, leading to the formation of mature U6 snRNA 3' end-terminated with a 2',3'-cyclic phosphate.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203537