

Product datasheet for **RR206437**

Usb1 (NM_001014013) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Usb1 (NM_001014013) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Usb1
Synonyms: RGD1305215
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206437 representing NM_001014013
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACCGCGGCCCTGGTGGGCTACAGCAGCAGCGGTTCCGAGGATGAAGCGGAGGCCGTCGCCGCGG
GGCGCAGCAAACCGGGTCTGGACTCCACCGTTGTGGCCAGAACCCACTCCGAGTCAGAGGTTCCAGT
GCCCGACAGTGTGCTAAACATGTTCCCCAGCACAGAGGAAGGACCTGAGGATGACAGTGAAGGCATGGG
GGTCGCATCCGAACCTTTCCCCAGAGCGGGCAACTGGGCCACCCACATCTACATACCATATGAGGCGA
ATGAGGAGTTCAGGATCTGCTTGACGTGTTGCTGCCCGAGCTCAGATGTTCCGCGCCTCGACTGGTGCA
GATGGAGGAGTTCACCTCAGCCTGTCTCAGAGCGTGGTCTCCGTCACCACTGGATCCTCCCTTTGTG
CAGGTGCTCAAAGACCGCATGGCCTCTTTCAAAGGTTCTTTACTGCCAACAGGTAAGATTTATA
CCAATCAAGAGAAAACAGGACCTTCATTGGGCTCGAGGTCAGCTCAGGGCATGCCAGTTCCTGGACAT
GGTTTCAGAGGTGGACAGAGTCATGAAGGAATTTGACCTCACTACTTTCTACCAGGACCTTCATTTTCAT
GTCAGTCTGGCCTGGTGTGTGGGTGATGCCCGTCTACAGTTGGAGGACAGTGTGACAGGAACTACAGG
AAATTGTGGATGAGTTTGAAGACTCAGAGATGCTGTTACGTGTGCTGGCTGAACAAGTCCGCTGCAAGTC
CGGGAACAAATTCTTCGATGCCTTTGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206437 representing NM_001014013
 Red=Cloning site Green=Tags(s)

MNAAPLVGYSSSGSEDEAEAVAAGRSKPGSGLHRCQNPLPSQRFVPVDSVLNMFSTEEGPEDD SARHG
 GRIRTFPHERGNWATHIYIPYEANEEFQDLLDVLLPRAQMFAPRLVQMEEFHL SL SQSVL RHHWILPFV
 QVLKDRMASFQRFFFTANRVKIYTNQEKTRTFIGLEVSSGHAQFLDMVSEVDRVMKEFDL TTFYQDPSFH
 VSLAWCVGDARLQLEGQCQELQEIVDEFEDSEMLLRVLAEQVRCKSGNKFFSMPLK

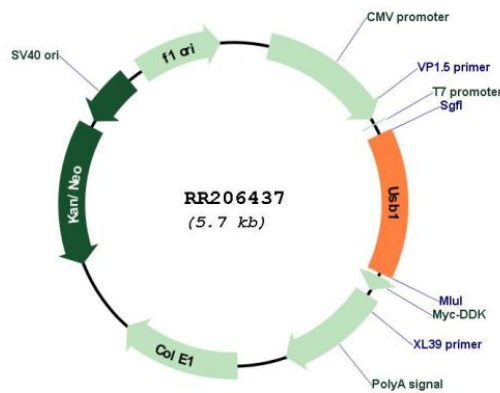
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014013
ORF Size: 801 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:	<ol style="list-style-type: none">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_001014013.1 , NP_001014035.1
RefSeq Size:	1697 bp
RefSeq ORF:	804 bp
Locus ID:	307643
UniProt ID:	Q5I0I5
Cytogenetics:	19p13
MW:	30.5 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]