

Product datasheet for **RR206255**

Ubxn4 (NM_001012025) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubxn4 (NM_001012025) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ubxn4
Synonyms:	Ubxd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR206255 representing NM_001012025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGTGGTTCCAGGGCGCCATCCCGGGCCATCGCGTCTGCTAAGAGGAGCGGCGCGTCTTCGTGG
 TGTTCTGGCAGGGACGATGAGCAATCTACACAGATGGCTGCAAGTTGGGAAGATGAGAAAAGTGGGGA
 AGCATCATCAGACAACTTTGTTGCTATTAATAATGATACTAAAAGCGAAGCCTGTCTACAGTTTTACAA
 ATTTATCTGTAGTGTGTGTTCCGTCCAGTTTCTTTATAGGAGACAGTGGAAATCCCTTTGGAAGTAATAG
 CAGGGAGTGTTCGAGATGAACTTGTACAAGAATTCACAAAGTCCAACAGATGCACTCATTGAAAGG
 TGAAACATCAGTGACAAATGACAAACAGTCAGAAAAGTCCGTATCTACCCCATCTGCCTCATTGAACT
 GACATATGTGAAAGTGCCGAGTCCAGAAATACAGAGCTTTGTGAGACCAACTACTTCTGACCCAAAGT
 CAGATACTGCAGCAGGAGGAAATGCCGAGTCTGACAGCCTCTCTCAGGAGCCTCCTGGATGTTCAA
 CCAGAGACCAGCAGAGGACCTCACCGTCAGAGTGGAAAGATTAACAAAAAGCTTGAAGAAAGGAGAGAA
 GAGAAGAGGAAGGAAGAGGCCAGAGAGAGATTAGAAGGAAATGAAAGGAGAAAAACTGGAAAGGAAA
 TGTTGGATTATAAAAGAAAAACAAGAAGAAGAAATTAACAAAAAGAAATGTTAGAAGAAAAGCAGAGAAAA
 GGCAGAAGATAGAGCAGCTCGGGAGCGCATCAAGCAGCAGATTGCACTGGATCGTGCAGAAAAGAGCTGCT
 CGTTTTGCAAAGACAAAGGAAGCAGAGGCTGCCAAAGTCTGCTGCCTTGTGGCCAAACAGGCAGAAAGCAG
 AAGTCAAGAGGGAGTCTCCACACGGGACAGAAGCACCATTGCAAGAATTCAGTTCGGCTGCCTGATGG
 TTCTTCTTTACAACCAGTTTCTTCTGATGCTCCTTTAGAAGAAGCAAGGCAGTTTGTGCACAGACT
 GTTGGCAACACATATGGTAATTTTTCACTAGCAACTATGTTTCCAGAAGAGAGTTCACCAGAGAGACT
 ATAAGAGGAAGCTGCTGGATCTGGAGCTGGCCCCAGCGCCTCTGTGGTGTCTGCTGCCAGCAGGAGGCC
 AGCCACATCCATTGTCCCTCTTCTAGTGGAGACATTTGGACATTACTGGGAACGGTGTCTTATCCATTC
 CTGGCCATATGGAGACTAATTAGCAATTTTTTATTAGTAATCCTCCTCTGCACAGACTTCAGCAAGAG
 CCACGTCCACAGAGCCTTCAAACCGGCGTCATCCAGCAAGTCAGAGAAAAGGGAACCTGTCCGAAAAAG
 AGTGTGGAAAAACGAGGAGAAGACTTTAAAAGGAGGGGAAAAATATACCGACTGCGGACTCAAGATGAC
 GGCGAAGATGAGAACAACACTTGGAAATGGGAATCCACGCAGCAGATG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206255 representing NM_001012025
 Red=Cloning site Green=Tags(s)

MLWFQGAIPAAIASAKRSGAVFVVFVAGDDEQSTQMAASWEDEKVVREASSDNFVAIKIDTKSEACLQFSQ
 IYPVVCVPSSFFIGDSGIPLEVIAGSVSADELVTRIHKVQMHSKGETSVTNDKQSESSVSTPSASFEP
 DICESAESRNTELCETPTTSDPKSDTAAGGECAGHDSLQEPGCSNQRPAEDLTVRVERLTKKLEERRE
 EKRKEEAQREIKKEIERRKTGKEMLDYKRKQEEELTKRMLEERSREKAEDRAARERIKQIALDRAERAA
 RFAKTKEAEAAKAAALLAKQAEAEVKRESSTRDRSTIARIQFRLPDGSSFTNQFSPDAPLEEARQFAAQT
 VGNTYGNFSLATMFPREFTRDYKRLLDLELAPSASVLLPAGRPATSIVPSSSGDIWTLTGTVLYPF
 LAIWRLISNLFVSNPPPAQTSARATSTEPSNSASSKSEKREPVRKRVLEKRGEDFKKEGKIYRLRTQDD
 GEDENNTWNGNSTQQM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

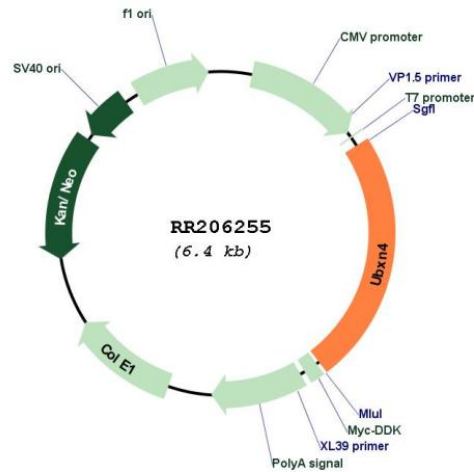
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001012025

ORF Size: 1518 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_001012025.1](#), [NP_001012025.1](#)

RefSeq Size: 2321 bp

RefSeq ORF: 1521 bp

Locus ID: 304766

UniProt ID: [Q5HZY0](#)

Cytogenetics: 13q13

MW: 56.4 kDa

Gene Summary: Involved in endoplasmic reticulum-associated protein degradation (ERAD). Acts as a platform to recruit both UBQLN1 and VCP to the ER during ERAD.[UniProtKB/Swiss-Prot Function]