

Product datasheet for **MG208140**

Ubxn4 (NM_026390) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubxn4 (NM_026390) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ubxn4
Synonyms:	1300013G12Rik; mKIAA0242; Ubxd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208140 representing NM_026390
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGTGGTTCAGGGCGCCATCCCGGGCCATCGCGTCTGCTAAGAGGAGCGGCGCGTCTTCGTGG
 TGTTCTGGCAGGGGATGATGAGCAATCTATACAATGGCTGCAAGTTGGGAAGATGAAAAAGTGACACA
 AGCATCATCAAACAACCTTTGTTGCTATTAATAATTGATACTAAAAGTGAAGCCTGTCTGCAGTTTTACAA
 ATTTATCTGTAGTATGTGTTCCATCCAGTTTCTTTATAGGAGACAGTGAATCCCTTTGGAAGTAATAG
 CGGGGAGTGTTCGAGATGAGCTTGTACAAGAATTCATAAAGTCCAACAGATGCACTCGTCAAAGG
 TGAAGCATCAGTGACAAATGACAACCAGTCAGAAAGTTCAGTATCTACCCCATCTGCCTCATTTGAACT
 GATGTATGTGAAAATCCCGAGTCCAAAAATACAGAGCTTTGTGAGACACCAGCTACCTCTGACATAAAGT
 CAGATACTGCAACAGGAGGAGAATGCACAGGTCATGACAGCCACTCTCAGGAGCCTCATGGATGTTCAA
 CCAGAGACCAGCCGAGGACCTCACCGTCAGAGTAGAAAGACTAACAAAAAACTTGAAGAAAGGAGAGAA
 GAGAAGCGGAAGGAAGAAGCACAGAGAGAGATTAGAAGGAAATTTGAAAGGAGAAAAACTGGAAAGGAAA
 TGTTGGATTATAAAGAAAAACAAGAAGAAGAAATAACAAAAAGAATGTTAGAAGAAAGAAGCAGAGAGAA
 GGCAGAAGATAGAGCGGCTCGAGAGCGCATCAAGCAGCAGATTGCCCTGGATCGTGCAGAAAGAGCTGCT
 CGTTTTGCAAAGACAAAGGAAGCAGAAGCTGCCAAAGTCTGCTGCCTTGTGACCAAAACAGGCAGGAACGG
 AAGTCAAGAGAGAGTCTACAGCACGAGACAGAAGCACCATTGCAAGAATTCAGTTCGGCTGCCTGATGG
 TTCTTCTTTACAACCAGTTTCTTCTGATGCTCCTCTAGAAGAAGCGAGGCAGTTTGTGCACAGACC
 GTGGGCAACACCTATGGCAATTTTTTATTAGCCACCATGTTTCCAGAAGAGAGTTCACCAGAGAAGACT
 ATAAGAGGAGGCTGCTGGATCTGGAGCTCGCCCCAGCGCCTCTGTGGTGTGCTGCCAGCAGGAGGCC
 AGCCACATCCATTGTCCACTCTTCTAGTGGAGACATTTGGACATTACTGGGGACGGTGTCTTATCCATTC
 CTGGCCATATGGAGATTAATTAGCAATTTTTTATTAGCAATCCTCCTCTGCACAGACTTCAGCAAGAG
 CCACATCCACAGAGCCTTCAAACCTCTGCATCATCCAGCAATCAGAGAAAAGGGAACAGTCCGAAAAAG
 AATGCTGGAAAAACGAGGGGAAGACTTTAAAAAAGAAGGAAAAATATACAGACTGAGGACTCAAGATGAC
 GGTGAAGACGAGAACAACACTTGGAAATGGAAACTCCACGCAGCAGATG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208140 representing NM_026390
 Red=Cloning site Green=Tags(s)

MLWFQGAIPAAIASAKRSGAVFVVFVAGDDEQSIQMAASWEDEKVTQASSNMFVAIKIDTKSEACLQFSQ
 IYPVVCPSSFFIGDSGIPLEVIAGSVSADELVTRIHKVQMHSSKGEASVTNDNQSESSVSTPSASFEP
 DVCENPESKNTELCEPATSDIKSDTATGGECTGHDSHSQEPHGCSNQRPAEDLTVRVERLTKKLEERRE
 EKRKEEAQREIKKEIERRKTGKEMLDYKRKQEEELTKRMLEERSREKAEDRAARERIKQIALDRAERAA
 RFAKTKEAEAACAALLTKQAGTEVKRESTARDRSTIARIQFRLPDGSSFTNQFPSPADPLEEARQFAAQT
 VGNTYGNFSLATMFPREFRTREYKRRLLDLELAPSASVLLPAGRPATSI VHSSSGDIWTLGLTVL YPF
 LAIWRLISNFLFSNPPPAQTSARATSTEPSNSASSKSEKREPVRKRMLEKRGEDFKKEGKIYRLRTQDD
 GEDENNTWNGNSTQQM

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI
BamHI *KpnI*
RBS
Kozac
Consensus
SgfI
AscI

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGGCCAGATCT

HindIII
NheI *RsrII*
MluI
NotI
XhoI
GFP Tag

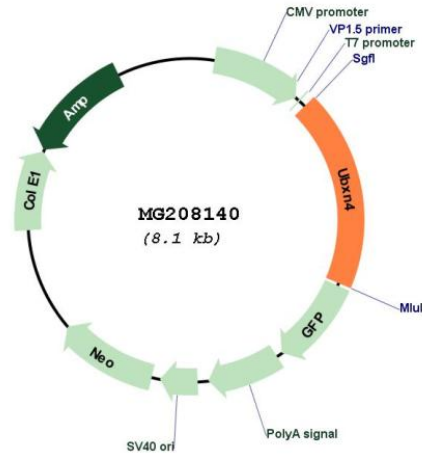
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E
M E S D - - -

PmeI
FseI

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:


ACCN: NM_026390

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_026390.1](#)

RefSeq Size: 4093 bp

RefSeq ORF: 1521 bp

Locus ID: 67812

UniProt ID: [Q8VCH8](#)

Cytogenetics: 1 E3

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]