

Product datasheet for MR211646

Ubr2 (BC031403) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubr2 (BC031403) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ubr2
Synonyms:	MGC36320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211646 representing BC031403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGATAGAACATCCTCTTAGATGTCTTGCTTATGTGCTCAAGTGCATGCTGGGATGTGGAGAAGAA
ATGGCTTCTCTAGTAAATCAGATCTATTACTACCATAATGTGAAATGCAGGCGAGAGATGTTGACAA
GGACATAGTGATGCTTCAGACAGGTGTCCATGATGGACCCAAACCACTTCTGATGATCATGCTCAGC
CGCTTTGAACTCTATCAGCTCTTCAGCACGCTGACTATGGGAAGAGATTCAGTTCTGAGTTACCCATA
AGGACGTCGTTTCAGCAGAACAACACTCTGATCGAAGAGATGCTCTACCTCATCATGCTTGTGGGAGA
AAGATTCAACCTGGGGTTGGACAGGTGGCTGCCACAGATGAAATCAAGAGGGAGATTATCCATCAGTTG
AGCATCAAGCCTATGGCTCACAGTGAGCTGGTGAAGTCTCTGCCTGAAGATGAGAACAAGGAGACCGGCA
TGGAGAGCGTCATCGAGTCCGTTGCACATTTCAAGAAACCTGGGCTCACAGGGCGAGGCATGATAGCT
GAAGCCAGAGTGTGCCAAAGAGTTCAACCTGTATTTTTATCATTCTCCAGGGCAGAGCAGTCCAAGGCA
GAGGAAGCTCAGCGGAAATTGAAAAGAGAAAATAAAGAAGATACAGCACTCCCTCCTCCGGCTTGGCCAC
CGTTCTGCCCTTTGTTTCGCGAGTCTGGTAAACATCTTGACAGTGTGACGTCATGCTGTACATCATGGGAAC
GATCCTGCAGTGGGCTGTAGAGCATCACGGTCTGCCTGGTCAGAGTCCATGCTACAGAGGGTGTGCAT
TTGATCGGGATGGCTCTCCAGGAAGAGAAGCACCCTTGGAGAAGCCGTTGGAAGGGCAGCTGCAGACCT
TCACCTTCACACAGAAGATTTCAAAGCCTGGTGTGCACCACATAACTCCCCGAGCATCCTAGCTATGCT
GGAGACCTTGCAAGCGCCCCCTCCCTGGAAGCCACAAGGACATGATCAGGTGGTTGCTAAAGATGTTT
AATGCAATTAAGAAGATAAGAGAGTGTTCATCCAGCAGCCCTGTGGCCGAGGCGGAGGGAACATAATGG
AGGAGAGCTCAAGAGACAAGGACAAGCAGAGAGGAAAAGAAAAGCCGAGATCGCCAGACTGCGCCGGGA
GAAGATCATGGCCAGATGTCTGAGATGCAGCGGCACTTCATTGACGAAAACAAGAGCTCTTCCAGCAG
ACCCTAGAGCTGGACACCTCTGCCTCTGCCACTTTGACAGCAGCCCTCCCGTTTCAGACGCAGCTCTTA
CAGCACTGGGCCCAGCACAGACACAGGTCCCTGAACCGAGACAGTTTGTACCTGTATATTATGTCAAGA
GGAGCAAGAGGTGACTGTGGGAAGCAGGGCGATGGTCTTGGCAGGTTTGTTCAGAGGTCAACGGTCTGT



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TCAAAGACAGGACGAAAACCATCGCGGACCCAGAAAAATATGATCCATTATTCATGCACCCCGATCTGT
 CTTGTGGGACACACACTGGCAGCTGTGGGCACGTTATGCATGCCATTGTTGGCAAAGGTATTTTGATTC
 CGTTCAAGCCAAGGAGCAGCGAAGGCAGCAGCGGCTGCGCTTGCACACTAGCTACGATGTAGAGAATGGC
 GAGTTCCTCTGCCCGCTCTGTGAGTGCCTGAGCAACACGGTGATCCCCCTGCTGCTTCTCCCAGGAGCA
 TCCTCAGCAGGAGGTTAAATTTTCAGACCAACCAGATCTGGCACAGTGGACGAGAGCAGTAACACAGCA
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 TGCATCCTTGGTGCCTAGTGACAGCTATGAAGACCTCCCGTGCATACTAGACATCGACATGTTTCACTTG
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 ATTCACCTTTTCAAGAAAACAGTGACATCATGAACCTCCTGATTGAAAGTTGGTGCCAGAACAGTGAAG
 TTAACCGTATCTAAATGGCGAGAGAGGAGCGATAAGCTACCCAGAGGAGCTAACAAACTGATAGACCT
 TCCAGAGGATTACAGCAGCCTCATTAAACCAAGCATCCAATTTCTCGTGCCCAAAATCAGGTGGCGACAAG
 AGCAGAGCTCCTACTCTGTGCCTCGTGTGGGAGTCTCCTCTGCTCTCAGAGTTACTGTCGCAAGCTG
 AGCTGGAGGGTGAGGACGTCGGAGCCTGCACAGCACACACTACTCCTGCGGCTCCGGGGCCGCACTTT
 CCTGAGAGTGCGGGAATGTCAGGTGCTATTTTTAGCTGGCAAAAACCAAAGGATGTTTTTATCTCCTCT
 TACCTTGACGACTATGGAGAGACCGACAGGGACTCAGACGAGGAAATCCTTTACATTTATGCCAAGAGC
 GGTTTCGAAAGATCCAGAAGCTCTGGCAGCAGCATAGTATCACAGAGGAGATCGGACACGCGCAGGAGGC
 TAACCAGACCCTGGTCGGAATTGACTGGCAGCATTTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211646 representing BC031403
 Red=Cloning site Green=Tags(s)

MLIEHPLRCLVLCAQVHAGMWRNNGFSLVNQIYYHNVKCRREMFDKDIVMLQTVSMMDPNHFLMIMLS
 RFELYQLFSTPDYGKRFSSVTHKDVVQNNLIEEMLYLIIMLVGERFNPGVQVAATDEIKREIIHQ
 SIKPMAHSELVKSLPEDENKETGMESVIESVAHFKKPGLTGRGMYELKPECAKEFNLYFYHFSRAEQSKA
 EEAQRKLRKREKEDTALPPPALPPFCPLFASLVNQLQCDVMLYIMGTILQWAVEHHGSAWSESMLQRVLH
 LIGMALQEEKHLENAVEGHVQTFFTQKISKPGDAPHNSPILAMLETQNPASLEAHKDMIRWLLKMF
 NAIKKIRECSSSPVAEAEGTIMEESSRDKDAERKRKAEIARLRREKIMAMQSEMQRHFIDENKELFQQ
 TLELDTSASATLDSSPPVSDAAL TALGPAQTQVPEPRQFVTCILCQEEQEVTVGSRAMVLAFAVQRSTVL
 SKDRKTIADPEKYDPLFMHPDLSCGHTGSCGHVMAHACWQRYFDSVQAKEQRRQRLRLHTSYDVENG
 EFLCPLCECLSNVTIPLLLPPRSILSRRLNFSQPDLAQWTRAVTQQIKVVQMLRRKHNAADTSSSEDE
 AMNIIPPEGFRPDFYPRNPYSYSIKEMLTTFGTAAYKVLKVPNEGDPVPILCWGTCAVTIQSIERI
 LSDEEKPVFGPLPCRLDDCLRSLTRFAAHWTVALLPVVQGHFCKLFASLVPSDSYEDLPCILDIDMFHL
 LVGLVLAFPALQCQDFSGSSLATGDLHIFHLVTMAHIVQILLTSCTEENGMQDENPTGEEELAILSLHKT
 LHQYTGSAALKEAPSGWHLWRSVRAAIMPFLKCSALFFHYLNGVPAPPDLQVSGTSHFEHL CNYLSLPTNL
 IHLFQENSIMNSLIESWCQNSEVKRYLNGERGAISYPRGANKLIDLPEDYSSLINQASNFSCPKSGGDK
 SRAPTLCVCGSLLCSQSYCCQAELEGEDVGACTAHTYSCGSGAGIFLRVRECQVFLFLAGTKGCFYSP
 YLDDYGETDQGLRRGNPLHLQCERFRKIQLWQQHSITEEIGHAQEANQTLVGIDWQHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC031403

ORF Size: 3327 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: [BC031403.1](#)

RefSeq Size: 3502 bp

RefSeq ORF: 3329 bp

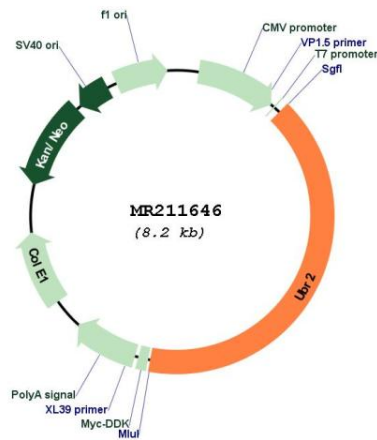
Locus ID: 224826

Cytogenetics: 17 C

MW: 125.3 kDa

Gene Summary: E3 ubiquitin-protein ligase which is a component of the N-end rule pathway. Recognizes and binds to proteins bearing specific N-terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation. Plays a critical role in chromatin inactivation and chromosome-wide transcriptional silencing during meiosis via ubiquitination of histone H2A. Binds leucine and is a negative regulator of the leucine-mTOR signaling pathway, thereby controlling cell growth (By similarity). Required for spermatogenesis, promotes, with Tex19.1, SPO11-dependent recombination foci to accumulate and drive robust homologous chromosome synapsis (PubMed:28708824). Polyubiquitinates LINE-1 retrotransposon encoded, LIRE1, which induces degradation, inhibiting LINE-1 retransposon mobilization (PubMed:28806172).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211646