

## Product datasheet for MC224903

### Ubr2 (NM\_146078) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ubr2 (NM_146078) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ubr2
Synonyms:	9930021A08Rik; AI462103; AW540746; E130209G04Rik; ENSMUSG00000043296; mKIAA0349
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224903 representing NM_146078 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGCGTCGGAGATGGAGCCCGAGGTGCAGGCCATCGACCGCAGTTTGTGGAATGTTCTGCCGAAGAGA  
TCGCAGGGAGATGGCTGCAAGCAACCGACCTCAACAGAGAAGTGTACCAGCATTTAGCCCACTGTGTGCC  
CAAATCTACTGCCGGGGCCCTAACCCCTTCCCTCAGAAGGAAGACACGCTGGCACAGCAGCATCTGCTG  
GGACCGATGGAGTGGTACATCTGCGCTGAAGACCTGCGCTGGGATTTCCAAAGCTCGAGCAGGCAACA  
AGCCTTCTCACCTCTGTGGCCGAGTGTTAAAGTGGGGGAACCTACATACTCCTGCAGAGACTGTGCAGT  
TGACCCCACTGTGTTTTATGCATGGAGTGCTTCTGGGAAGTATCCATAGAGACCATCGATATAGGATG  
ACCACATCGGGAGGAGGGGGCTTCTGTGACTGTGGTACACTGAGGCGTGGAAAGAGGGACCTTACTGCC  
AGAAGCACAAGCTCAGCAGCTCTGAAGTTGTGGAGGAGGAGGATCCTCTTGTGCATCTATCAGAAGATGT  
GATCGCCAGAACTTACAACATTTTTGCTATTATGTTTCGATATGCAGTAGATATACTGACCTGGGAAAAA  
GAAAGTGAATTGCCTGAAGACTTAGAAGTGGCAGAGAAGAGTGACACCTACTACTGCATGCTGTTAATG  
ATGAGGTTACACCTATGAGCAAGTCATTTATACCCCTCAGAAAGCTGTGAAGTACACAGAAGGAAGC  
CATTGGCTTTGCAACTACAGTTGATCGAGATGGCCGTAGGTCTGTCCGATATGGAGATTTCCAGTACTGT  
GATCAAGCAAAGACAGTCATTGTGAGGAACACCAGCAGACAGACCAAGCCGCTCAAAGTTCAAGTTATGC  
ACTCCTCCGTGGCTGCTCATCAGAAATTTGGTTTTGAAAGCTCTGTCTGGCTGGGAAGTGTATTGGATA  
CTCAGATGGCCTTCGCAGGATTTGTGTCAAGTTGGATTACAAGAAGGTCAGATGGCGAAAACCTTCT  
CTGGTCGACAGACTGATGCTTAATGATTCAAATATGAAAGGGGCTAGGAGTGTGTATCACCAGTTGT  
TCATGAGCAGCCTGCTCATGGACCTCAAGTATAAGAAGCTGTTCCGCTTCGATTTGCTAAAAATTACCG  
GCAGTTGCAGAGGGATTTATGGAGGATGATCACGAGCGGCAGTGTCCGGTACTGCTGTCTGTCCAG  
TTCTTACCAGCAGCAGCTGGCGCAATGCTCCTCACAGAAGAGAACCTGATGACCGTTATCATTAAAGG  
CTTTATGGACATTTGAAACACAGAGATGCCAGGGCAGATTCCAGTTTGAACGCTACACTGCCCTCCA  
AGCCTTCAAGTTCAGGAGAGTCCAGAGCCTCATCTTAGATCTCAAGTATGTATTGATTAGCAAACCAACG  
GAGTGGTCAGATGAGCTGAGGCAGAAGTCTTACAAGGTTTCGATGCCTTCTTGAATTACTGAAGTGCA



View online »

TGCAGGGAATGGACCCGATCACGCGTCAGGTGGGACAGCACATTGAGATGGAGCCAGAGTGGGAAGCAGC  
 CTTACACTGCAGATGAAGCTGACACACGTCATCTCAATGGTGCAGGACTGGTGTGCTCTGGACGAAAA  
 GTGTTAATTGAAGCTTACAAGAAATGCCTGGCTGTGCTGACACAGTGTATGGCGGATTTACTGATGGTG  
 AACAGCCAATCACACTCAGTATTTGTGGACACTCGGTGGAAACCATCAGATACTGTGTTTCCCAAGAAAA  
 AGTTAGCATTACCTCCCAATTTCTCGTTGCTGCAGGTTTGCATGTATTGTTAAGCAAAAGTGAAGTG  
 GCATATAAAATTTCCAGAGCTCCTACCTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA  
 GATGCTATTACTACCATAATGTGAAATGCAGGCGAGAGATGTTCCACAAGGACATAGTGTGCTTCAGACA  
 GGTGTCTCCATGATGGACCCAAACCACTTCTGATGATCATGCTCAGCCGCTTTGAACTCTATCAGCTCT  
 TCAGCACGCTGACTATGGGAAGAGATTGAGTCTGAGGTTACCCATAAGGACGTCGTTACAGCAGAACAA  
 CACTCTGATCGAAGAGATGCTCTACCTCATCATGCTTGTGGGAGAAAGATTCAACCTGGGGTTGGA  
 CAGGTGGCTGCCACAGATGAAATCAAGAGGGAGATTATCCATCAGTTGAGCATCAAGCCTATGGCTCACA  
 GTGAGCTGGTGAAGTCTCTGCCTGAAGATGAGAACAAGGAGACCGGCATGGAGAGCGTCATCGAGTCCGT  
 TGCACATTTCAAGAACTGGGCTCACAGGGCAGGCATGTATGAGCTGAAGCCAGAGTGTGCCAAAGAG  
 TTCAACCTGTATTTTTATCATTCTCCAGGGCAGAGCAGTCCAAGGCAGAGGAAGCTCAGCGAAATTTGA  
 AAAGAGAAAAAAGAAAGATACAGCACTCCCTCCTCCGCTTTGCCACCGTTCTGCCCTTTGTTCCGCGAG  
 TCTGGTTAACATCTTGCAGTGTGACGTCATGCTGTACATCATGGGAACGATCCTGCAGTGGGCTGTAGAG  
 CATCACGGGTCTGCTGGTCCAGTCCATGCTACAGAGGGTGTGCAATTTGATCGGGATGGCTCTCCAGG  
 AAGAGAAGCACCCTGGAGAACGCCGTGGAAGGGCAGTGCAGACCTTACCTTACACAGAAGATTTT  
 AAAGCCTGGTGTGACACACATAACTCCCCGAGCATCTAGCTATGCTGGAGACCTTGCAGAACGCCCT  
 TCCCTGGAAGCCCAAGGACATGATCAGGTGGTGTAAAGATGTTTAAAGATTAAGAGATAAGAG  
 AGTGTTCATCCAGCAGCCCTGTGGCCGAGGCGGAGGGAACCATAAAGGAGAGAGCTCAAGAGACAAGGA  
 CAAAGCAGAGAGGAAAAGAAAAGCCGAGATGCCAGACTGCCCGGAGAGATCATGGCCACATGTCT  
 GAGATGCAGCGCACTTCAATGACGAAAACAAGAGACTTCCAGCAGACCTAGAGCTGGACACTCTG  
 CCTCTGCCACTCTTGACAGCAGCCCTCCCGTTTTCAGACGAGCTTACAGCACTGGGCCAGCAGACAG  
 ACAGGTCCCTGAACCGAGACAGTTTGTACCTGTATATTATGTCAAGAGGAGCAAGAGGTGACTGTGGGA  
 AGCAGGGCGATGGTCTTGGCAGCGTTTGTTCAGAGGTCAACGGTCTGTCAAAGACAGGACGAAAACCA  
 TCGCGGACCCAGAAAAATGATCCATTATTATGCACCCGATCTGTCTTGTGGGACACACACTGGCAG  
 CTGTGGCAGCTTATGCATGCCATTGTTGGCAAAGGTATTTGATTCCGTTCAAGCCAAGGAGCAGCGA  
 AGGCAGCAGCGGCTGCGCTTGCACACTAGTACGATGTAGAGAATGGCGAGTTCTCTGCCCGCTCTGTG  
 AGTGCCTGAGCAACACGGTGTATCCCTGCTGCTTCTCCAGGAGCATCCTCAGCAGGAGGTTAAATTT  
 TTCAGACCAACCAGATCTGGCAGAGTGGACGAGAGCAGTAACACAGCAGATAAAGGTGGTCCAGATGCTG  
 AGGAGAAAAGCACAATGCTGCTGACACGCTTCTTCAGAGGACACAGAAGCCATGAATATAATACCGATCC  
 CCGAAGGCTTCAGGCCTGATTTTTATCCTAGGAACCCATATTCTGATAGCATAAAAGAAATGTTAACGAC  
 ATTTGGAACGGCTGCTTACAAGGTGGGACTGAAGGTTTCACTTAAAGGAGTACCCCGTGTGCCCATC  
 CTGTGCTGGGGACCTGTGCATACACCATCCAGAGCATAGAAAGAATTTTGAAGTATGAGGAGAAGCCTG  
 TTTTGGACCTCTGCCTGTAGACTGGACGACTGTCTCAGGTCGTTAACACGGTTTGCAGCAGCATTG  
 GACAGTGGCGTTACTTCTGTGGTACAAGGACACTTCTGTAACCTCTTTCATCCTTGGTGCCTAGTGAC  
 AGCTATGAAGACCTCCCGTGCATACTAGACATGACATGTTTCACTTGTGGTGGGCTGGTGCCTGCTG  
 TCCCAGCTCTGCAGTGTGAGGATTTTTAGGAAGCAGCCTGGCCACTGGGGACCTGCACATCTTCCACTT  
 GGTACCATGGCACACATCGTACAGATCTTACTTACCTCATGTACAGAAGAGAATGGCATGGATCAAGAG  
 AATCCCACTGGGAAGAAGAAGTGGCCATTCTCTTTTGCACAAAACACTTACCAGTATACTGGAAGTG  
 CCTTGAAGAAGCCCCCTCCGGCTGGCACCTGTGGAGGAGCGTCCGGGCCCATCATGCCTTCTCCTCAA  
 GTGCTCTGCTTTGTTTTTCCACTATTTAAATGGAGTCCCGGCCCTCCAGACCTTCAAGTTTCTGGAACA  
 AGCCATTTTGAACACTTATGTAACCTTCCCTACCAACCAACCTCATTACCTTTTTCAAGAAAACA  
 GTGACATCATGAACTCCCTGATTGAAAGTTGGTCCAGAACAGTGAAGTTAAACGGTATCTAAATGGCGA  
 GAGAGGAGCGATAAGCTACCCAGAGGAGCTAACAACTGATAGACCTTCCAGAGGATTACAGCAGCCTC  
 ATTAACCAAGCATCCAATTTCTCGTGCCCAAATCAGGTGGCGACAAGAGCAGAGCTCCTACTCTGTGCC  
 TCGTGTGTGGGAGTCTCCTCTGCTCTCAGAGTTACTGCTGCCAAGCTGAGCTGGAGGGTGGAGACGTCGG  
 AGCCTGCACAGCACACCTACTCCTGCGGCTCCGGGGCCGGCATCTTCTGAGAGTGGCGGAATGTCAG  
 GTGCTATTTTTAGCTGGCAAAACCAAAGGATGTTTTATTCTCCTCCTTACCTTGACGACTATGGAGAGA  
 CCGACCAGGGACTCAGACGAGGAAATCCTTTACATTTATGCCAAGAGCGGTTTCGAAAGATCCAGAAGCT

CTGGCAGCAGCATAGTATCACAGAGGAGATCGGACACGCGCAGGAGGCTAACAGACCCTGGTCGGAATT  
GACTGGCAGCATTTA TAA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	SgfI-RsrII
<b>ACCN:</b>	NM_146078
<b>Insert Size:</b>	5268 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_146078.3, NP_666190.2</u>
<b>RefSeq Size:</b>	7696 bp
<b>RefSeq ORF:</b>	5268 bp
<b>Locus ID:</b>	224826
<b>UniProt ID:</b>	<u>Q6WKZ8</u>
<b>Cytogenetics:</b>	17 C
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>