

Product datasheet for MC226129

Ube2w (NM_001271016) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2w (NM_001271016) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ube2w
Synonyms:	6130401J04Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC226129 representing NM_001271016 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTGGGCCCCCGCGCGTGACGCGAGCACGGCGGCTCCGCCCTGCGTCTCGGGCTCGCTGGCCTT
 GGGGGGATGGTTTCATCATGGCGTCAATGCAGAAACGACTACAAAAGAACTGTTGGCTTTCAGAAATGA
 CCCACCTCCTGGAATGACTTTAAATGAAAAGAGTGTTCAAGATTCATCACGCAGTGATCGTAGACATG
 GAAGGTGCACAGGAACCTTATATGAAGGGGAAAAATTTCACTTTTGTAAATTTAGTAGTCGATACC
 CTTTGTACTCTCCTCAGAAGACTGGTCCCGCGCTCTCAGTGCAGTCAGTCTGTCTCAGCATTATCAGC
 ATGCTTTCCAGCTGCAAAGAAAAGAGACGACCACAGATAATTCCTTTTATGTGCGAACATGTAACAAGA
 ATCCAAAGAAAACAAAATGGTGGTATCATGGTGGATACAGTGCCCGTGGAGGCCAGAAGAGGGACTCTTA
 CCCACTGGAAGTGGAGTTTAAAGATAGTTGTGTGCTGTATGTGATTTCTATGGTCACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001271016
Insert Size:	552 bp
OTI Disclaimer:	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).


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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001271016.1</u> , <u>NP_001257945.1</u>
RefSeq Size:	1551 bp
RefSeq ORF:	552 bp
Locus ID:	66799
Cytogenetics:	1 A3
Gene Summary:	<p>Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. Specifically monoubiquitinates the N-terminus of various substrates, including ATXN3, MAPT/TAU, POLR2H/RPB8 and STUB1/CHIP, by recognizing backbone atoms of disordered N-termini (PubMed:21855799, PubMed:21229326). Involved in degradation of misfolded chaperone substrates by mediating monoubiquitination of STUB1/CHIP, leading to recruitment of ATXN3 to monoubiquitinated STUB1/CHIP, and restriction of the length of ubiquitin chain attached to STUB1/CHIP substrates by ATXN3 (PubMed:21855799). After UV irradiation, but not after mitomycin-C (MMC) treatment, acts as a specific E2 ubiquitin-conjugating enzyme for the Fanconi anemia complex by associating with E3 ubiquitin-protein ligase FANCL and catalyzing monoubiquitination of FANCD2, a key step in the DNA damage pathway (PubMed:21229326). In vitro catalyzes 'Lys-11'-linked polyubiquitination. UBE2W-catalyzed ubiquitination occurs also in the presence of inactive RING/U-box type E3s, i.e. lacking the active site cysteine residues to form thioester bonds with ubiquitin, or even in the absence of E3, albeit at a slower rate (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate splice site and has alternate 3' exon structure, and it thus differs in the 3' coding region and 3' UTR, compared to variant 1. The encoded isoform (2) has a distinct and longer C-terminus, compared to isoform 1.</p>