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Product datasheet for MC224173

Ube2o (NM_173755) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ube2o (NM_173755) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ube2o
Synonyms:	9630022H21; B230113M03Rik; E2-230K; mKIAA1734
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC224173 representing NM_173755
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGATCCCGCAGCGCCCGCACCCGCCCAGGCCCAGGCCGCCGCCGCCCCGACCCCGGCCGCAGCCC
CCGCCGCCGCCGCCCCGCCGCCCGCGCCCGCTACGGACTCGGCCTCAGGGCCGTCCTCCGACTCCGGCCC
CGAAGCAGGCTCACAGCGCCTGCTGTTCTCCCACGACCTGGTGTCCGGCCGTTACCGCGGCTCGGTGCAC
TTCGGGCTGGTACGCCTCATCCACGGCGAGGACTCGGACTCGGAGGGCGACGATGACGGCCGCGGCAGCT
CGGGCTGCTCCGAGGCCGGGGGCGCGGGCCACGAGGAGGGCCGGGCCAGCCCTCTGCGGCGCGGCTACGT
GCGCGTCCAGTGGTACCCGGAGGGCGTCAAGCAGCATGTGAAGGAGACCAAGCTGAAACTGGAGGACCGC
TCTGTGGTGCCCCGGGATGTGGTTCGACACATGCGCTCAACTGACAGCCAGTGTGGCACGGTGATAGATG
TCAACATTGACTGTGCCGTCAAGCTCATCGGCACCAACTGCATCATCTACCCTGTCAACAGCAAGGACCT
CCAGCACATCTGGCCCTTCATGTATGGAGACTATATCGCCTATGACTGCTGGCTGGGGAAGGTCTATGAC
TTGAAGAACCAGATCATCCTCAAGTTGTCTAATGGTGCCAGGTGCTCCATGAACACAGAAGATGGTGCCA
AACTCTACGATGTCTGCCCTCACGTCAGCGACTCGGGTCTCTTCTTTGATGACTCTTATGGCTTCTACCC
AGGCCAAGTCCTTATTGGCCCAGCCAAGATCTTCTCCAGTGTCCAGTGGCTCTCTGGGGTCAAGCCTGTA
CTCAGCACCAAGAGCAAGTTCCGTGTGGTGGTGGAGGAGGTGCAGGTTGTAGAACTGAAAGTCACGTGGA
TTACCAAGAGCTTCTGCCCCGGCGGCACGGACAGCGTTAGCCCCCCACCTTCCATCATCACTCAGGAAAA
CCTAGGCAGGGTGAAGCGTCTCGGATGCTTTGACCATGCTCAGCGGCAGCTTGGGGAACGCTGTCTGTAT
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AGATACCCAGTGTCCTAGGGACCATTCCATGGAAGACCCAGACAAGAAAGGGGAAGCCAGAGCCGGGAGT
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GGTCGGAGGAGCTTCAGGAGACATGCGAGCCACTGCCCCCCTTCCTCTTGAAGGAGGGTGGAGATGACGG
GCTGCACTCGGCAGAGCAGGACGCAGATGATGAGGCGGCTGACGATACAGATGACACCAGCTCTGTGACC
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TCCTCCGCCAGCTCTACTACCTCCTCCCAGAGTGGCAGTGGCACTGGTCGTAAAAAGAGCATTCCCTTGT
CCATCAAAAACTTGAAGCGAAAACACAAGAGGAAGAAGAATAAGGTCACCCGTGACTTCAAGCCTGGAGA
CAGGGTGGCAGTGGAGGTTGTGACCACGATGACCTCAGCTGATGTGATGTGGCAAGATGGCTCTGTGGAA
TGCAACATCCGCTCCAACGACCTTTTCCCTGTGCACCACCTGGACAACAATGAGTTCTGCCCTGGGGACT
TCGTGGTGGACAAGCGAGTCCAGAGCTGCCCAGACCCTGCTGTCTATGGTGTGGTGCAGTCTGGGGATCA
TGTTGGCCGTACCTGCATGGTGAAGTGGTTCAAGCTGCGACCAAGTGGGGATGACGTGGAGCTCATTGGA
GAAGAGGAGGACGTGAGCGTCTATGACATTGCTGACCACCCTGACTTTCGCTTCCGCACAACTGACATTG
TCATCCGCATTGGTAACACGGAGGATGGGGCTCTACCCAAGGAGGATGAGCCCTCAGTGGGCCAGGTGGC
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CACTTATACAACATCGAGTCTGAGATTGAGGAGTCTGACTACGACTCCGTGGAAGGCAGCTCCAGTGGGG
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CCCCAAGATAGAGGAGCTGGCCGCCATCTTGCCTGCCGAGCAGCCCACTGCCCCCGAGGAGGACAAGGGC
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CCTGAGAAGCCAACCCGAGAGAAGAAGTTTTTGGACGATATCAAGAAGCTACAGGAGAACCTCAAGAAGA
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GAAGCCTGAGGTGCAGTCCCCAGTGAAAGCCGAGTGGCCCAGTGAGACACCTGTGCTCTGTCAGCAGTGC
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CAAACCACTCTTTCAAGAAGATTGAGTTCCAGCCCCCGGAAGCCAAGAAGTTCTTCAGCACAGTGCGGAA
GGAGATGGCTCTGCTGGCCACCTCGCTGCCCGATGGCATCATGGTCAAGACTTTTGAGGACAGAATGGAC
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AGCTTCCCAACATCTACCCTGCGGTGCCCCCCCACTTTTGCTACCTCTCCCAGTGCAGTGGCCGCCTGAA
CCCCAACCTGTATGACAATGGGAAAGTGTGTGTCAGCCTCCTAGGTACCTGGATTGGAAAGGGGACAGAG
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CATACTACAATGAAGCTGGCTTTGACAGTGACCGGGGCCTGCAGGAAGGCTATGAGAACAGTCGCTGCTA
CAACGAGATGGCATTAATCCGTGTGGTGCAGTCCATGACCCAGTTGGTGCGACGACCTCCTGAGGTCTTC
GAACAGGAGATTCGGCAGCACTTCAGTGTGGGTGGCTGGCGGCTGGTGAACCGAATTGAGTCCTGGCTGG
AAACCCATGCCATGCAGGAGAGGGCCCAGGTGATGCCCAATGGGGCCCTTAAAGACAGCAGCTCTCTGGA
GCCCATGGCTGCAGCTGAACTCTCAGACTCCGGCCGTGAAGAGCCTGAAGATGTTGGGATGGCCCCTGGG
GAGGCGTCCCAGGGCTCAGACTCAGAGGGTGGAGCCCAGGGCCCTGCCTCAGCCAGCAGAGACCACACAG
AGCAGACTGAGACAGCCCCTGATGCATCCGCACCTCCCAGCGTTAGACCAAAGAGGAGGAGGAAGAGCTA
CCGCAGCTTCCTGCCTGAGAAGAGCGGTTACCCTGACATCGGCTTCCCCCTCTTCCCACTCTCCAAGGGT
TTCATCAAGAGCATCCGGGGGGTCCTGACACAGTTCCGTGCTGCCCTGCTGGAGGCGGGCATGCCCGAAA
GCACAGAGGACAAGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_173755

Insert Size: 3867 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).

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).

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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_173755.3, NP_776116.2
RefSeq Size:	5192 bp
RefSeq ORF:	3867 bp
Locus ID:	217342
UniProt ID:	Q6ZPJ3
Cytogenetics:	11 E2
Gene Summary:	E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins. Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity. Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis. Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location. Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASHC1, leading to promote endosomal F-actin assembly.[UniProtKB/Swiss-Prot Function]

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