

Product datasheet for MR211566

Ube2o (BC059193) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ube2o (BC059193) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ube2o
Synonyms: E2-230K, mKIAA1734, 9630022H21
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR211566 representing BC059193
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACACAGAAGATGGTGCCAACTCTACGATGTCTGCCCTCACGTGAGCGACTCGGGTCTCTTTT
 ATGACTCCTATGGCTTCTACCCAGGCCAAGTCCTTATTGGCCAGCCAAGATCTTCTCCAGTGTCCAGTG
 GCTCTCGGGGTCAAGCCTGTACTCAGCACCAAGAGCAAGTTCGGTGTGGTGGTGGAGGAGTGCAGGTT
 GTAGAAGTCAAAGTCACTGGATTACCAAGAGCTTCTGCCCGCGGCACGGACAGCGTTAGCCCCCAC
 CTTCCATCATCACTCAGGAAAACCTAGGCAGGGTGAAGCGTCTCGGATGCTTTGACCATGCTCAGCGGCA
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 GAAAAAACTGCGCCAGGGGGAGGGCTCTATGGCCAAGAAGGTGAAGCGTCTGTTGAAGAAGCAAGTTG
 TGAGAAATCATGCTCCTGCACCCAGATACCCAGTGTCTAGGGACCATTCCATGGAAGACCCAGACAAGAA
 AGGGGAAGCCAGAGCAGGGAGTGAATAGGGTCTGCTAGCCGGAGGAGCAACCTGATGGATCAGCCAGC
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 GTGGAAGGCAGCTCCAGTGGGGCTCTCGGATGAGTGGGAGGACGACAGCGACAGCTGGGAGACAGACA



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ACGGGCTCGTGGACGATGAGCACCCCAAGATAGAGGAGCTGGCCGCCATCCTGCCTGCCGAGCAGCCCAC
 TGCCCCGAGGAGGACAAGGGCGTGGTCATCAGTGAGGAGGCGGCCACGGCTGCCATCCAGGGCGCCGTG
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 AGATGTTGGGATGGCCCTGGGGAGGCGTCCCAGGGCTCAGACTCAGAGGGTGGAGCCCAGGGCCCTGCC
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 CAAAGAGGAGGAGAAGAGCTACCGCAGCTTCTGCCTGAGAAGAGCGGTTACCTGACATCGGCTTCCC
 CCTTTCCACTCTCAAGGGTTTCAAGAGCATCCGGGGGTCTGACACAGTTCGGTCTGCCCTG
 CTGGAGCGGGCATGCCGAAAGCACAGAGGACAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR211566 representing BC059193
 Red=Cloning site Green=Tags(s)

MNTEDGAKLYDVCPHVSDSGLFFDDSYGFYPGQVLIQPAKIFSSVQWLSGVKPVLSKSKFRVVEEVQV
 VELKVTWITKSFPGGTDSVSPPPSIITQENLGRVKRLGCFDHAQRQLGERCLYVFPKVEPAKIAWEC
 EKNCAQEGSMKVKRLLKKQVVRIMSCPTDQCPRDHSMEDPKKGEARAGSEIGSASPEEQPDGSAS
 PVEMQDEGSEELQETCEPLPPFLLKEGGDDGLHSAEQDADDEADDDTSSVTSSASSTSSQSGSGTG
 RKKSIPLSIKNLKRKHKRKKNKVRDFKPGDRVAEVVTTMTSADVMWQDGSVECNIRSNLFPVHHLN
 NEFCPGDFVVDKRVQSCPDAVYGVVQSGDHVGRTCMVKWFKL RPSGDDVELIGEEEDSVYDIADHPDF
 RFRTTDIVIRIGNTEDGALPKEDEPSVQVARVDVSSKVEVWADNSKTIILPQHLYNIESEIEESDYDS
 VEGSSSGASSDEWEDSDSWETDNGLVDDEHPKIEELAAILPAEQPTAPEEDKGVVISEEAATAIQGAV
 AMAAPVAGLMEKAGKDGPPKSFRELKEAIKILESLKNMTVEQLLTGSPTSPTVEPEKPTREKFLDDIKK
 LQENLKKTLDNVAIAEEEEKMEAVPDERKEEKPEVQSPVKAEWSETPVLCQQCGGRPGVFTSAKGEVF
 SVLEFAPSNSHFKKIEFQPPEAKKFFSTVRKEMALLATSLPDGIMVKTFEDRMDLFSALIKGPTRTPYED
 GLYLFDIQLPNIYPAVPPHFCYLSQCSGRLNPNLYDNGKVCVSLLTGWIGKGTERTWTSKSSLLQVLSIQ
 GLILVNEPPYNEAGFDSRDLQEGYENSRYNEMALIRVVQSMQLVRRPPEVFEQEIQRHFVSGGWRLV
 NRIESWLETHAMQERAQVMPNGAPKSSSLEPMAAAELSDSGREEPEDVGMAPGEASQGSDEGGAQGPA
 SASRDHTEQTETAPDASAPPSVRPKRRRKSYSRFLPEKSGYPDIGFPLFPLSKGFIKSIRGVLTFRAAL
 LEAGMPESTEDK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

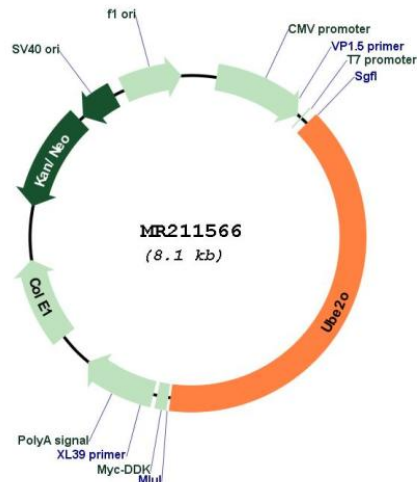
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC059193

ORF Size: 3186 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:	<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.
RefSeq:	BC059193.1
RefSeq Size:	4569 bp
RefSeq ORF:	3188 bp
Locus ID:	217342
Cytogenetics:	11 E2
MW:	167.5 kDa
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]