OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC204868

Ubiad1 (NM_027873) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ubiad1 (NM_027873) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ubiad1
Synonyms:	1200002M06Rik; AI426463; AW320947; Tere1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>BC071203
CGGCGCCGCCCGCCCGATAGGGGTTGCGGGCTGAGGCGCGTTATTGAGTTGTGGCACGGGGGAAGCGACC
CCAGACAGGCTTCGCTCAGGTGACAGGTGGGCGGGCAGCGCCGCTGGCCCCGTGGCGGTGCATGGCCTGG
TTGCTGTCTTCAGTTTTCCCCGCCTCCCAAACCCTGACCCGGGGCGGAACCAGAGAAAGGTCAGGCCAGG
CTGTCCCGCCTGTCTCCGTCCTGGGGGGGTCCCCTTGAGTGGCTCACTTTTAGAATTGACTTTAGCCACG
TGTAGCTTCCATGGCTGCGGTACAGGCCCCGGGGGAGAAGATTAATATCCTGGCAGGAGAGACAGCCAAG
GTCGGGGACCCGCAGAAGAACGAATGGCCCGAGCAGGACAGGTTTCCTGAACGATCCTGGAGGCACAAGT
GCGCCTCCTACGTGTTGGCCCTGAGGCCCTGGAGCTTCAGTGCCTCACTCACCCCTGTGGCCCTGGGCAG
TGCCTTGGCCTACAGGTCTCAGGGTGTCCTGGATCCCAGGCTGTTGTTGGGTTGTGCAGTGGCTGTCCTG
GCTGTGCACGGGGCCGGCAATTTGGTCAACACATACTATGACTTTTCCAAGGGCATTGACCACAAAAAGA
GTGATGACAGAACTTTGGTGGACAGAATTCTGGAGCCCCAGGATGTTGTTCGATTTGGAGTCTTCCTCTA
CACCTTGGGCTGCGTCTGTGCTGCTTGCCTCTACTACTTGTCCGCTCTGAAATTGGAACACTTGGCTCTC
ATCTACTTCGGAGGCCTGTCTGGCTCCTTTCTCTACACAGGAGGAATTGGATTCAAGTATGTGGCCCTGG
GAGACCTCGTCATCCTCATCACTTTCGGCCCGCTGGCTGTGATGTTTGCCTACGCTGTCCAGGTGGGATC
CCTGGCCATCTTCCCTCTAATCTACGCCATCCCTCTGGCCCTCAGCACGGAGGCCATTCTCCATTCCAAC
AACACCAGGGACATGGAATCTGACCGAGAGGCTGGCATCGTCACGCTGGCCATCCTCATTGGGCCCACCT
TCTCCTATGTCCTCTATAACACACTGCTCTTTGTGCCCTACCTAATCTTTACCATCCTGGCCACGCACTG
CAGCATCAGCCTGGCACTGCCCCTGCTCACCATCCCCATGGCCTTCTCCCTTGAGAGGCAGTTCCGCAGC
CAGGCCTTCAACAAGCTGCCCCAGAGGACAGCCAAGCTCAACCTCCTGCTGGGGCTTTTCTATGTCTTTG
GCATCATCCTGGCACCAGCAGGCAGCCTGCCCAGACTCTGAGGAGACCAGCAACTCCCACCACAGCACAG
CCCCTCCTCAGGCAGTGCAGAAGCCAGAGACTGAGAAGGGGTGCCACTGGCCAGGGTGGGTGCACAGCAT
AGGCTGCAAACTCCTGAACTTGTGTGTTGGGATTATCTTCCTAAAGATAACCTGCTCGTGATTTGTGTTC
CATGTTACAGGGAAACCCTGAAGCCACTCTAGTGTCGTTCCTGTGTTATTTATAATCTCCACTAGAGGGT
GTCATCAGGCCACTTTAGGATGGAAAGTCCATCTCCCCCCTTGTCCTAGACAGAATGCCCTGACAGTTTG
TGAAGGAGCTGTGTCCCAAAAGAGTCATAGTAACTAGGCATGGTACTGACCCGTTACCTTGGCACGTAGG
AAATTGTACTAATTGGTGCCAGGCCCCATTTATACAGAGCGCTTGTCCCCTGAATGTGCTGCCTGCTAGA
GAAGGGCCCTCATTAGCAGGGAGTGCTCCTGGCTTTTTGTGTAGTTGGTGGTTCAGATGTTTCTGTCCTT
TATGTCTCCCTTCGATCCTCGCCACTGTGGAGGAAAGTGTCAGATCACCCTGTAGCAAGACAGTTAAGCC
TGGGGCGGCTGAGAAAAGCACTCTGCTTTCAGTAAAACATGGCATGGTGGCTGAGGGAGCTGCTTCCCTC
TGTAGACTCCACTAGGAAGGCAGTGATTCTGGGACCTGAAGTGGCAGTGGGATGGGCGTTTAAAGCCCAA
AGGGCTTTGTCCCCTCCCAGCTGCCTCCCCTGGTATTCCTCTTGCCTACCCAGGATCTCTGTCCCTCCGT
CTATTTCCAGTGCCAGACTGTGGGCAACAGCAACACATGAGTCAAGGACACTTACCCCTCTCCACAGAGC
CACAAGATGGGCAAAGCAGGGACCTTCTGAATGTATGAGCCAGTGGACAGCAGTCCTGGCCACACTCAGC
TGGAATGTGAGGCCCTGCCAGAGAAAGAACTATGAGCACGGGTCCTTCATCTCTCTGTGCTCTGATGCCT
TGTTCAGAATGTGGCTTCAGTGAGGTCACACCCAAAGGACCAGAGGTGTCTCGCTGTCTCCTGTACCCTC
TCTGAGTATAACATCTTGCATGGAGATGATCATACCATCTCCAGTGTGCTTTACTCTGATCAGCTGCCCT
GAAGGGGGCTGCAGGCTCTTAGCCTGCAGAAAACCACCTTGAGTTAGCACTGGGTCACTTCCTTAGGAAA
ACATATTTAAATATTGCCCAGAGTTCCTCTGTAGTCAGGGTGGTTTGTCTACCAGAGTCCCAGAGCTTGA
ATCAGGGTCCAGAATCCTAGGAACAGGATGTTCTTTCCTGTTCTCCCCAGCGTGCTGGGTTTGTACGTCT
GGTGCTTTTGAGTGTCCTGCCTGTGACCCTAGCTTGGGGCTGATAGTTGTCACCCAGAGCCTGGAGGACC
AATGACTCTCACTGTTCATAAGGTGGGCCTGACACGTGGCTACCCTCATCAGAACTGTGTCAGCTGCTAC
ACCGAGCTCTGGTGCAGATTTTAAATGCCTATTTTTATATACCATCCCCAGAGGCCATATTTGGTGCCAC
ATTTTGTATACAGACCACCATAATTTGTATTATGTCTCCTGATTCAATGAAGGTTTCCTGTAGATTTGCT
AATTAAAATAAGAGAAAACGTAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_027873

Insert Size: 1011 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).
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:	BC071203, AAH71203
RefSeq Size:	2976 bp
RefSeq ORF:	1011 bp
Locus ID:	71707
UniProt ID:	Q9DC60
Cytogenetics:	4 E2
Gene Summary:	Prenyltransferase that mediates the formation of menaquinone-4 (MK-4) and coenzyme Q10. MK-4 is a vitamin K2 isoform required for endothelial cell development. Mediates the conversion of phylloquinone (PK) into MK-4, probably by cleaving the side chain of phylloquinone (PK) to release 2-methyl-1,4-naphthoquinone (menadione; K3) and then prenylating it with geranylgeranyl pyrophosphate (GGPP) to form MK-4. Also plays a role in cardiovascular development independently of MK-4 biosynthesis, by acting as a coenzyme Q10 biosynthetic enzyme: coenzyme Q10, also named ubiquinone, plays an important antioxidant role in the cardiovascular system. Mediates biosynthesis of coenzyme Q10 in the Golgi membrane, leading to protect cardiovascular tissues from NOS3/eNOS-dependent oxidative stress (By similarity).[UniProtKB/Swiss-Prot Function]