

Product datasheet for **MC201482**

Coq8a (NM_023341) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Coq8a (NM_023341) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Coq8a
Synonyms:	4632432J16Rik; Adck3; AI462003; Cabc1; mKIAA0451
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC030937 sequence for NM_023341
 GGTAAACAGAAGCGGAGAGTGTGCGGAGCGCTCGCAGCGGGGCGAGCGCGGAGGCGTTGCGTTGCGGA
 CCGAGGAGCTACCTTCTGCAGCCCGCTCTGAAGGATGGCTGCTATGTTGGGGATGCCATCATGGTGGC
 CAAAGGCCTTGCCAAGCTGACCCAAGCAGCGGTGGAAACCCACTTGCAGAACCTGGGCCTTGGTGGGGAG
 CTCTCTGGCGCCAGGGCCCTGCAGTCTACAGCTGTGGAGCAGTTCAGCATGGTCTTCGGGAAGGTGC
 AGGGTCAGGATAAGCATGAAGATTCATATGCCACTGAGAACTTTGAAGATCTGGAAGCCGAAGTTCAGTT
 CTCAACACCACAGCAGCTGGAACCTCCTGGACTTCTCTGCGGCCTTCCCTGGACCAGTCACTGTCT
 CCATCCCACAGTCAGGGACCGGCCCTGCCTATGCTTCCAGTGGGCCTTTCAGGGAAGCTGGGCTCCCTG
 GACAGGCCACCTCTCTATGGGCAGAGTCAATGGAAGGCTCTTTGTAGATCACAGAGACTTGTCTTGGC
 CAACGGCATCCAGCGAAGATCCTTCCACCAGGACCAGTCTCCGTGGGAGGCCTCACGGTGAAAGACATT
 GAAAAGGCCCGCAGGCCAAGGCTCGCCCTGAGAGCAAGCCACACAAGCAGATGCTCAGTGAAGCGGCTC
 GGGAGCGGAAGGTGCCAGTTACCCGGATTGGGCGGTTGGCCAACCTTGGAGGTCTGGCTGTAGGTCTGGG
 AATTGGGCGTGGCTGAAGTTGCCAAGAAGAGTCTGCGTCTGAGAACTCCACAGGAAAAAAGCCGTG
 CTGGATTCTAGCCCTTCTGTGACAGGCAAAATGCAGAGCGCATTGTGAGTACACTGTGCAAGGTGCGTG
 GGGCCGCACTGAAGCTGGCCAGATGCTGAGCATCCAGGATGATGCCTTCAACCCCTCACCTGGCCAA
 GATCTTTGAGCGGTGAGGCAGAGTGTGACTTCAAGCCACTGAAACAGATGACGAAAACCCCTCAACAGC
 GACCTGGGCCCCACTGGAGGGACAAGCTGGAGTACTTTGAAGAGCGGCCCTTTCAGCAGGCCTCCATAG
 GGCAGGTGCACCTGGCCCGCATGAAGGGTGGCCGTGAGGTGGCCATGAAGATCCAGTACCCTGGTGTGGC
 CCAGAGCATTACAGTGACGTCAACAACCTCATGGCTGTGCTGAACATGAGTAAACATGCTCCAGAAGGC
 CTGTTCCCTGAGCACCTGATTGATGTGCTGAGACGGGAGCTTACCCTTGAAGTGTGACTACCAGCGGGAGG
 CTGCCTATGCCAAGAAGTTCAGGAACTGCTGAAGGACCATCCCTTCTTATGTGCCTGAGATTGTGGA
 TGAGTTGTGAGTCCCATGTGCTGACCACAGAGCTCATATCAGGCTTCCCTTGGACCAGGCAGAAGGG
 CTGAGCCAGGAAGTGAGGAATGAGATCTGCTACAACATTTGGTGTGCTGAGAGAGCTGTTTGTGAGT
 TCCATGTATGCAGACTGACCCCACTGGTCCAATTTCTTTTATGACCCTCAGCAGCACAAGGTGGCTCT
 CCTGGACTTCGGCGCAACTAGAGAATATGACAGATCCTTTACTGACCTCTACATTAGGTCATCCGGGCC
 GCTGCTGACCAGGACAGGGAGGAGTGTAAAGAAATCCATAGAGATGAAGTTCCTTACCGGTTATGAGG
 TCAAGGCCATGGAGGATGCTCACCTGGATGCTATTCTCATCCTGGGGAGGCCTTTCCTCCGAAGAGCC
 CTTGACTTCGGTACCCAGAGCACTACTGAGAAGATCCACAACCTGATCCCGTCATGCTGAAGCACCGC
 CTCATCCCACCCAGAGGAGACCTACTCTGACCCGAAGATGGGTGGCTCTTCTCATCTGCTCTA
 AGCTGAAGGCCCGCTTCCCTGTAAAGCCATGTTGAGGAAGCGTACAGTAACTACTGCAGGATGAAGTC
 TGGGCTGCAGTAGGTGAGGTGTGGTCCAGGCTAACTAGGGGCCATGCCCTCCTTACAGGCTCAGTCAAGCA
 GAGGGAGGACGTTGAAAGGGAGCCACGGCTCTATGAATAGGAAGAGAGGTTGCGTAGACCCTCCTATT
 GCTTCTGTACTGTCCAGCAAAAAGGCAGGCTTCTTTGCCATCTCCTCCCTGCTGTGGATGTACACCA
 GGAACAGGAGCAATGCAGTACTAACTCAACACAGCCACCTTTGGGGTCTAGTTGGCCATGGGAATGAAT
 TGTGTGTTTCTGGGTGAGCTTATGTCCCTGCCCTTGGCACCCACGCTGTGGCTGGAGCTAGAAGCTC
 AGGACAGCAGGGTAGCCACCCTAGCTCAGTCTCAGCATGGACAACAGACCCTTTTAAAAGCAGGGCTGAC
 ATTGGATGAGCAGAGGGCTCCAGCATGCCCCAGGAGAGGGAGCTATACCCACCCAGGGGAGCGACA
 CAGGCTCTTTGTTGTATGTCTTGTAAATTACACATTCATACCTTTGCGTTCATAAAGAAGTGCCTTGGG
 GACTGCCAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_023341
- Insert Size:** 1938 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: [BC030937](#), [AAH30937](#)

RefSeq Size: 2612 bp

RefSeq ORF: 1938 bp

Locus ID: 67426

UniProt ID: [Q60936](#)

Cytogenetics: 1 H4

Gene Summary: Atypical kinase involved in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration (PubMed:27499294). Its substrate specificity is unclear: does not show any protein kinase activity (PubMed:27499294). Probably acts as a small molecule kinase, possibly a lipid kinase that phosphorylates a prenyl lipid in the ubiquinone biosynthesis pathway, as suggested by its ability to bind coenzyme Q lipid intermediates (By similarity). Shows an unusual selectivity for binding ADP over ATP (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript. Both variants 1 and 2 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.