

Product datasheet for MC224279

Cobl (NM_172496) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cobl (NM_172496) Mouse Untagged Clone
Tag: Tag Free
Symbol: Cobl
Synonyms: 4732460E13; C530045F18Rik; mKIAA0633
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224279 representing NM_172496
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGCGCCGCTGCACTGGCGGCCAAGCCCCCACAGGAAGGAAGATGAAGGCCGTGCTCCGCCAC
 CTCTGGAAGCCTGCTGCCAGAATGTCCACAGCGAACAGAACTGCCCATGATGCCACCTGGGATC
 CCAGCAAAGCCTGGTCTACATGAAGGAGGCACTGCAGAACAGCACCTTGGACATCACCGTGGTTCTGCC
 AGTGGACTGGAGAAGCAGAGTGTGGTTAGTGGGAGCCACGCAATGATGGACCTACTGGTTGAACTCTGCC
 TTCAGAACCACCTGAATCCTTCTCACCAGTCTAGAGATCTGGTCTTCTGAGACCAACAGCCTTTGAG
 TTTAAGCCAAATACGTTGATTGGGTCCTTGAATGTGCATACTGTACTTCTGAAAGAAAAAGTCCCTGAA
 GAAAGAGTTAAACCTGGCCTAACCAAGGCTCCTGAGAAATCTGTACGACTGGTAGTGAACACCTGAGAA
 CGCAGAAGGCTGTCGTGCGGGTGAAGCCCTGAGGTGCCACTACAGAATATTCTGCCAGTCATCTGTGCGAA
 GTGTGAGGTCAACCCAGAACACGTGATTCTGCTCAGAGACAATGTTGCCGGGAGGAGCTGGAGCTGTCC
 AAGTCCCTGAATGAACTAGGGATCAAGGAGCTGTATGCGTGGGACAACAGAAGAGAAATGTTTAAAAAT
 CATCACTTGGCAATGATGAGACAGACAAAGAGAAGAAAAAGTTTTCTGGGATTTTTCAAAGCTAATAAAG
 GAGCAACAGTAAGGCTGAGCATCTTGGGCTGTCAGGTGACAGATAGTATGAGGACCCGGCGAAGTCAGCA
 TCTGGAGGGGACTTGAACGGCTGCGTAACAACACCCAACCTCACCATCCTTGCATTCTCGTCCCTAACAC
 TGGGTCCCTCCCTCTCCCTGGGCAACATCTCTGGAGTGTCTATGAAGTCAGACATGAAGAAGCGCAGAGC
 CCCTCCTCCTCAAGTCCAAGCTGCTGGGTCAAGACAAGGTATCAGAAAAGGCCCTCCCTCAGCTCACAG
 GCTGATCTCCAGAAGAAGAAGAGGCGGGCCAGCTCCTCCTCCACCACAGCAGCCACCACCAAGTCTG
 TGGTCCCCAACCGCAAGGAAGATAAGGAAGAGAACAGGAAGACAGTGGGTGTTGGACGTCAGGTGCC
 ACAAAGCCTCCAGAGGCACAGCTCGGGGCCACCCAGTTAGTGTCCCCCGCCCCACCCTACCCT
 CCTCCTGACACAGATGTGACAGAGCCTGTACCTTTCTGGGAAAGGCGTGGTCCGAGACCTCAGAGC
 TGAGACCCAACTGAGTCTGCCTCTGGGCTGGCAGCCACTGCAGCATGGGTGGAGTCTCTCAGGTGCC
 AGCGGAGAGTGAGGAGACAGCATCTGAGGACACAACCGAGGACTCGGGGTGTCATGAGCTCTCCCTCAGAT
 GCCATCTCCCTGGACTACAACAAGACAGCATGAGATCCAAGGACAAATGGTCCACAGACCAGGAAGACG



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GCAGTGACCAGGACCTGGCTGGAAGTCCAGAAGTGGGTCCCCAAAAGAGCCCATCATGGGGAAAAGTGG
 TTCAGGAAGCTCAATTCTAAGGACTGAGAAAGCCACCATGCCTACCAATGATGATGAAGACCTATTTCATC
 ACTGGCCACTTACATCAGACCCTGGCAGAACTTGATGAAGACCTGGAAGGAATGGAAGAAAATTATGAAA
 CAGATACTAGCTCTTAACCAACTCTGTCAATGGTGTATCCAACCACAGTCTGCAAGAAGCCATAATCCC
 TGATAGTGGCGTGGATGACATCCCAGTCACTTTTATCGGGGAAGTTTCTGATGAGCCTTTGACTCAGGG
 CTGTTCTCCAGTAGATGTAACAATGCCACTACTTTAACACGGGGAGCATTGCTAGCCAAAGATCTCATC
 TGTCCTCCATCTCAGACTGAGCATAGCCAGCCATTCGTAAGGACAAGTAGAAAAGAGCCTGATCCCTCCCC
 TCCTTCCAAGATAACAGGAAGAGAAAATCAGCCAACCTTAGCCAACACATCTGAAAATGAGAATCCAGTT
 GAAACAGACCCCCACAGTTACATCACTTGTTTCAAAGCTTTTAATAGATGACCCAAAAGCAAAGGATAAAG
 GCAAAGTGCATGGTTCTAGTCACAGTGAGAAGACACAGGCAGGTCATGGAATAAACTCACTGCGAGTGAA
 TCCAAGAGATGGTAAGGATGAGAGCTCCAATTCAGCACCCCCACCATGGTCTCATCATGGCCAGGCCTTA
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 GTTATGACAGGGATGTGCCCTCCACTGGTGCATTAAGATTGATGAACTAGGAATCTGGTGAAGTCC
 TCATGAAACGGAAGCAGGACCATATCCCACCATCAGCTGTTGTCGAAACAGACTCCACCTATTGGA
 AAAGTCAAAGAGTTCTGGAGGCGCAACTCAATGGAAAAGTACCTTAATGGCCGGCTGAGTGCATATCA
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 CTTACAGTGACCACTCCCCAGCAGCAGCTGCCTCACAGGAATATGGGGCACACCTGGAGGAAGAGAGA
 AGCCGGCCACAGTCAAGCAGTCTTGTGTTCTGTGAAAGTGCAGCATCTAATCCCACAGACATCACATTCC
 TCAAGCCTCAAAGAAGAACATCCAGCCAGTATGTGGCCTCTGCTATTGCCAAGAAGATGGGGCCTCCAAA
 AGTCCATGCTGATGTGGTGAAGCCACATAAGGCAACCACTGAACAGTGTGATGAAGAAGCAAAGCTGGCT
 AGATCTCTCCACCAGGAAAGATGATGCACTCCCAACCTCACTCAGAGGCAAGGCAGCATGAACATG
 GGACAAACCAGAGCTCTGTCTGCCTCCAGCAACCCTGGTGTGCAATTGCCAGCAGGAGGCCATCCCAA
 AGTAGAGGTCAACAGCACATATGGGAAGTCACTGACTCAAGACTATCCTGCTGCTGCCACAGAACTCC
 TATTTCCCTCCAGCAGATCTTCCATAGGGATCGTGTGTTCTGTGGGACAGAGCTGTGGTTCAATGAAA
 AGCAAACATAAGTAACCAAAAGGCAAATCAACATCTAACTTCTCGCAGGCACTGGACAAGGCGCATCC
 ACCCCCTGCTCTTGGCAGAGGCCGCTGACTCTGGGAGGATACTGATGAATGGCTCTGCACGAACCCCA
 GGAAATTGTGAGCCCCCCTCTCCAAAAGAATCCACCCTGACTAGCTATATTATCTTACAGACAGAGG
 AAAAGCCAGTTCGTTATCTACAGATGGTCAAGACGCAGATGATACTCTACCGTCCAGCATTTTTGGGCC
 AAAGAAAAGTTCAGCCTGTCAATCAAAGGCCACTCCAAAAGATGTATCCCTGCACAGTGCCTGATG
 GAAGCTATCCACTCATCAGGAGGAGAGAAAAGCTCCGGAAGACTGCAGAACAGACGTGAGAAGGAAGGC
 CAAAGAAACCATCTACGTGGAGGAGAGAGTGAAGCAGTCTGCCCTTCTGGCAGCATTCCGGGTACAG
 TGGGACTCTCAGCCTCAGGAAGGTGATCCCTTGCCTCTGAGGAGCTCCAGAGCTCCGCAATGCTGCA
 CTCTGGGGCTCCAGGTTTGATAAACCTCAGCAAGAAGACCTTGGCCTTCCACCCCACTGCCCTGCCAC
 CACCACCCGCTCCAGCCCCCAGGCTCCTTACGCTCCGTAACAGTTTCTAGGTTCCAGCACCAGCCCA
 CAGCAACTCAGTGAATGCTAGACAAGCCTTGTGGATGCCATCCGCTCGGGCACAGGAGCTGCAAGACTA
 AGAAAGGTTCCCTTGCTCGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_172496
- Insert Size:** 4014 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: [NM_172496.3](#), [NP_766084.3](#)

RefSeq Size: 5633 bp

RefSeq ORF: 4014 bp

Locus ID: 12808

UniProt ID: [Q5NBX1](#)

Cytogenetics: 11 7.3 cM

Gene Summary: Plays an important role in the reorganization of the actin cytoskeleton. Binds to and sequesters actin monomers (G actin). Nucleates actin polymerization by assembling three actin monomers in cross-filament orientation and thereby promotes growth of actin filaments at the barbed end. Can also mediate actin depolymerization at barbed ends and severing of actin filaments. Promotes formation of cell ruffles. Regulates neuron morphogenesis and increases branching of axons and dendrites. Regulates dendrite branching in Purkinje cells.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).