

Product datasheet for MC229562

Cobl (NM_001282994) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cobl (NM_001282994) 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: >MC229562 representing NM_001282994
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACTGTGACGACAAAGAAAGGAAGATGAAGGCCCGTCTCCGCCACCTCCTGGAAAGCCTGCTGCC
 AGAATGTCCACAGCGAACAGAACTGCCCATGATGCCACCCTGGGATCCCAGCAAAGCCTGGTCTACAT
 GAAGGAGGCACTGCAGAACAGCACCTTGGACATCACCGTGGTTCTGCCAGTGGACTGGAGAAGCAGAGT
 GTGGTTAGTGGGAGCCAGCAATGATGGACCTACTGGTTGAACTCTGCCTTCAGAACACCTGAATCCTT
 CTCACCACGTCTAGAGATCTGGTCTTCTGAGACCCAACAGCCTTTGAGTTTTAAGCCAAATACGTTGAT
 TGGGTCCTTGAATGTGCATACTGTACTTCTGAAAGAAAAAGTCCCTGAAGAAAGAGTTAAACCTGGCCTA
 ACCAAGGCTCCTGAGAAATCTGTACGACTGGTAGTGAACACCTGAGAACGCAGAAAGGCTGTCGTGCGGG
 TGAGCCCTGAGGTGCCACTACAGAATATTCTGCCAGTCATCTGTGCGAAGTGTGAGGTCAACCCAGAACA
 CGTGATTCTGCTCAGAGACAATGTTGCCGGGAGGAGCTGGAGCTGTCCAAGTCCCTGAATGAAC TAGGG
 ATCAAGGAGCTGTATGCGTGGGACAACAGAAGAGAAATGTTAGAAAATCATCACTTGGCAATGATGAGA
 CAGACAAAGAGAAGAAAAAGTTTCTGGGATTTTTCAAAGCTAATAAAAGGAGCAACAGTAAGGCTGAGCA
 TCTTGGGCTGTCAGGTGCAGATAGTGTGAGACCCGCGCAAGTCAAGTCTGGAGGGGACTTGAACGGC
 TGCCTAACCAACCCCACTACCATCCTTGCATTCTCGGTCCCTAACACTGGGTCCCTCCCTCCTCCCTGG
 GCAACATCTCTGGAGTGTCTATGAAGTCAGACATGAAGAAGCGCAGAGCCCTCCTCCTCAAGTCCCAA
 GCTGCTGGGTCAAGACAAGGTATCAGAAAAGGCCCTCCCTCAGCTCACAGGCTGATCTCCAGAAGAAGAA
 AGGCGGGCCAGCTCCTCCTCCACCACAGCAGCCACCACCAAGTCTGTGGTCCCAACCGCAAGGAAG
 ATAAGGAAGAGAACAGGAAGAGCACAGTGGGTGTTGGACGTGAGGTGCCAAAAAGCCTCCAGAGGCAC
 AGCTCGGGGCCACCCAGTTAGTGTCCCCCGCCCCACCCTACCCTCCTCCTGACACAGATGTGACA
 GAGCCTGTACCTTTCTGGGAAGGCCTGGTCCGAGACCTCAGAGCTGAGACCCAACTGAGTCTGC
 CTCTGGGCTGTCAGCCACTGCAGCATGGGTGGAGTCTCTCAGGTGCCAGCGGAGAGTGAAGGAGACAGC
 ATCTGAGGACACAACCGAGGACTCGGGGTCATGAGCTCTCCCTCAGATGCCATCTCCCTGGACTCACA
 CAAGACAGCATGAGATCCAAGGACAAATGGTCCACAGACCAGGAAGACGGCAGTGACCAGGACCTGGCTG



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GAACTCCAGAACTGGGTCCCCAAAAGAGCCCATCATGGGGGAAAAGTGGTTCAGGAAGCTCAATTCTAAG
 GACTGAGAAAGCCACCATGCCTACCAATGATGATGAAGACCTATTCATCACTGGCCACTTACATCAGACC
 CTGGCAGAACTTGATGAAGACCTGGAAGGAATGGAAGAAAATTATGAAACAGATACTAGCTCTCTAACCA
 ACTCTGTCAATGGTGTATCCAACCACAGTCTGCAAGAAGCCATAATCCCTGATAGTGGCGTGGATGACAT
 CCCAGTCACTTTTATCGGGGAAGTTTCTGATGAGCCTTTTACTCAGGGCTGTTCTCCAGTAGATGTAAC
 AATGCCACTACTTTTAAACACGGGGAGCATTGCTAGCCAAAAGATCTCATCTGTCCCATCTCAGACTGAGC
 ATAGCCAGCCATTTCGTAAGGACAAGTAGAAAAGAGCCTGATCCCTCCCTCCTTCCCAAGATAACAGGAA
 GAGAAATCAGCCAACCTTAGCCAACACATCTGAAAATGAGAATCCAGTTGAAACAGACCCACAGTTACA
 TCACTTGTTCAAAGCTTTTAAATAGATGACCCAAAAGCAAAGGATAAAGGCAAAGTGCATGGTTCTAGTC
 ACAGTGAGAAGACACAGGCAGGTCATGGAATAAACTCACTGCGAGTGAATCCAAGAGATGGTAAGGATGA
 GAGCTCCAATTCAGCACCCACCACATGGTCTCATCATGGCCAGGCCTTAGGGGGAAGCTATGGACTCAAG
 TATGGCCTCACGACATATAAAATGTTCTCCCAATCAGAGATGAGGTGTTATGACAGGGATGTGTCCC
 TCTCCACTGGTGCCATTAAGATTGATGAACTAGGGAATCTGGTGAGTCTCACATGAACGGAAGCAGGAC
 CATATCCCACCATCAGCTGTTGTGAAAACAGACTCCACCTATTGGAAAAGTCAAAGAGTTCTGGAGG
 CGCAACTCAATGGAAGTACCTTAATGGGCCGGCTGAGTGCATATCAAAGGGCCCCCACCACCTA
 TCACTGCCACACCAGAAAACCACAGCAAGATAATGGGATGAAGGCAGCCTTACAGTGACCACTCCCCA
 GCAGCAGCCTGCCTCACAGGAATATGGGGCACACCTGGAGGAAGAGAGAAGCCGGCCACAGTCAGCAGTC
 TCTTGTCTGTGAAAGTGCCAGCATCTAATCCCACAGACATCACATTCTCAAGCCTCAAAGAAGAACAT
 CCAGCCAGTATGTGGCCTCTGCTATTGCCAAGAAGATGGGGCCTCCAAAAGTCCATGCTGATGTGGTGAG
 ACCACATAAAGGCAACCACTGAACAGTGCATGAAGAAGCAAAGCTGGCTAGATCTCTCCACCAGGAAA
 GATGATGCAGCTCCCAACCTACACTCAGAGGCAAGGCAGCATGAACATGGGACAAACCAGAGCTCTGTCT
 GCCTTCCAGCAACCCCTGGTGTGCAATTGCCAGCAGGAGGCCATCCCAAAGTAGAGGTCAACAGCACATA
 TGGGAAGTCATCGACTCAAGACTATCCTGCTGTCCACAGAACTCCTATTTCTCCAGGCAGATCT
 TCCCATAGGGATCGTGTTCGTGGGACAGAGCTGTGGTTTCAATGAAAAGCAAACCTACAAGTAACCAAA
 AGGCAAATTCAACATCTAATTCTCGCAGGCACTGGACAAGGCGCATCCACCCCTCTGCTCTTGCCAGA
 GGCCCGTGACTCTGGGAGGATACTGATGAATGGCTCTGCACGAACCCAGGAAATGTGAGCCCCCCCAC
 TCTCCAAAAGAATCCACCCTGACTAGCTATATTATCTTACAGACAGAGGAAAAGCCAGTTCTGTTATCTA
 CAGATGGTCAAGACGCAGATGATACTCTACCGTCCAGCATTTCCTGGCCAAAGAAAAGTTCAAGCCTGT
 CATTCAAAGGCCACTCCAAAAGATGTATCCCTGCACAGTGCCCTGATGGAAGCTATCCACTCATCAGGA
 GGGAGAGAAAAGCTCCGGAAGACTGCAGAACAGACGTGAGAAGGAAGGCCAAAGAAACCATCCTACGTGG
 AGGCAGAGAGTGAGCGATCTGCCCTTCTGGCAGCCATTGGGGTACAGTGGGACTCTCAGCCTCAGGAA
 GGTGTCATCCCTTGCTCTGAGGAGCTCCAGAGCTTCCGCAATGCTGCACTCGGGGCTCCAGTTTGGAT
 AAACCTCAGCAAGAAGACCTGGCCTTCCACCCACCTGCCCTGCCACCACCACCCGCTCCAGCCCCC
 AGGCTCCTCAGCCTCCGTAACAGTTTCTAGGTTGAGCACCAGCCACCCAGCAACTCAGTGAATGCTAG
 ACAAGCCTTGATGGATGCCATCCGCTCGGGCACAGGAGCTGCAAGACTAAGAAAGTTCCCTTGCTCGTG
 TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001282994
- Insert Size:** 3993 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<u>NM_001282994.1, NP_001269923.1</u>
RefSeq Size:	5464 bp
RefSeq ORF:	3993 bp
Locus ID:	12808
Cytogenetics:	11 7.3 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (3) has a shorter and distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>