

Product datasheet for MC229553

Cobl (NM_001282993) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cobl (NM_001282993) 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: >MC229553 representing NM_001282993
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACGCGCCGCTGCACTGGCGGCCAAGCCCCACAGGAAGGAAGATGAAGGCCGTGCTCCGCCAC
CTCCTGGAAGCCTGCTGCCAGAATGTCCACAGCGAACAGAACTGCCCATGATGCCACCTGGGATC
CCAGCAAAGCCTGGTCTACATGAAGGAGGCACTGCAGAACAGCACCTGGACATCACCGTGGTTCTGCC
AGTGGACTGGAGAAGCAGAGTGTGGTTAGTGGGAGCCACGCAATGATGGACCTACTGGTTAACTCTGCC
TTCAGAACCACCTGAATCCTTCTCACCAGTCTAGAGATCTGGTCTTCTGAGACCAACAGCCTTTGAG
TTTTAAGCCAAATACGTTGATTGGGTCCTTGAATGTGCATACTGTACTTCTGAAAGAAAAAGTCCCTGAA
GAAAGAGTTAAACCTGGCCTAACCAAGGCTCCTGAGAAATCTGTACGACTGGTAGTGAACACTGAGAA
CGCAGAAGGCTGTCGTGCGGGTGAGCCCTGAGGTGCCACTACAGAATATTCTGCCAGTCATCTGTGCGAA
GTGTGAGGTCAACCCAGAACACGTGATTCTGCTCAGAGACAATGTTGCCGGGAGGAGCTGGAGCTGTCC
AAGTCCCTGAATGAAC TAGGGATCAAGGAGCTGTATGCGTGGGACAACAGAAGAGAAATGTTTAGAAAA
CATCACTTGGCAATGATGAGACAGACAAGAGAAGAAAAAGTTTCTGGGATTTTTCAAAGCTAATAAAAAG
GAGCAACAGTAAGGGCTGCGTAACAACACCCAACCTCACCATCCTTGCACTTCTCGGTCCCTAACACTGGGT
CCCTCCCTCTCCCTGGGCAACATCTCTGGAGTGTCTATGAAGTCAGACATGAAGAAGCGCAGAGCCCTC
CTCCTCCAAGTCCAAGCTGCTGGGTCAAGACAAGGTATCAGAAAAGGCCTCCCTCAGCTCACAGGCTGA
TCTCCAGAAGAAGAAGAGGCGGGCGCCAGCTCCTCCTCCACCACAGCAGCCACCACCAAGTCTGTGGTC
CCCAACCGCAAGGAAGATAAGGAAGAGAACAGGAAGAGCACAGTGGGTGTTGGACGTGAGTCCACAAA
AGCCTCCCAGAGGCACAGCTCGGGGCCACCCAGTTAGTGCTCCCCCGCCCCACCCTACCCTCTCC
TGACACAGATGTGACAGGCCTGTACCTTTCTGGGGAAGGCGCTGGTCCGAGACCTCAGAGCTGAGA
CCCAAAGTGAAGTCTGCTCTGGGCTGGCAGCCACTGCAGCATGGGTGGAGTCTCTCAGGTGCCAGCGG
AGAGTGAGGAGACAGCATCTGAGGACACAACCGAGGACTCGGGGTCATGAGCTCTCCCTCAGATGCCAT
CTCCCTGGACTCAACAAGACAGCATGAGATCCAAGGACAAATGGTCCACAGACCAGGAAGACGGCAGT
GACCAGGACCTGGCTGGAACCTCAGAAGTGGTCCCCAAAAGAGCCCATCATGGGGGAAAAGTGGTTCAG



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GAAGCTCAATTCTAAGGACTGAGAAAGCCACCATGCCTACCAATGATGATGAAGACCTATTCATCACTGG
 CCCTTACATCAGACCCTGGCAGAACTTGATGAAGACCTGGAAGGAATGGAAGAAAATTATGAAACAGAT
 ACTAGCTCTCTAACCAACTCTGTCAATGGTGTATCCAACCACAGTCTGCAAGAAGCCATAATCCCTGATA
 GTGGCGTGGATGACATCCCAGTCACTTTTATCGGGGAAGTTTCTGATGAGCCTTTTGACTCAGGGCTGTT
 CTCCAGTAGATGTAACAATGCCACTACTTTTAAACCGGGGAGCATTGCTAGCCAAAGATCTCATCTGTCC
 CCATCTCAGACTGAGCATAGCCAGCCATTCGTAAGGACAAGTAGAAAAGAGCCTGATCCCTCCCTCCTT
 CCCAAGATAACAGGAAGAGAAAATCAGCCAACTTAGCCAACACATCTGAAAATGAGAATCCAGTTGAAAC
 AGACCCACAGTTACATCACTTGTTCAAAGCTTTTAAATAGATGACCCAAAAGCAAAGGATAAAGGCAAA
 GTGCATGGTTCTAGTCACAGTGAGAAGACACAGGCAGGTCATGGAATAAACTCACTGCGAGTGAATCCAA
 GAGATGGTAAGGATGAGAGCTCCAATTCAGCACCCACCACCATGGTCTCATCATGGCCAGGCTTAGGGGG
 AAGCTATGGACTCAAGTATGGCCTCAGACATATAAAATGTTTCTCCAAATCAGAGATGAGGTGTTAT
 GACAGGGATGTGCCCTCCACTGGTGCCATTAAGATTGATGAACTAGGGAATCTGGTGAAGTCTCACA
 TGAACGGAAGCAGGACCATATCCCACCATCAGCTGTTGTGAAACAGACACTCCACCTATTGAAAAAGT
 CAAAGAGTTCTGGAGGCGCAACTCAATGAAAAAGTACCTTAATGGGCCGGCTGAGTGACATCAAAGG
 GCCCCTCCACCCTACTGACCACAGAAAACACAGCAAGATAATGGGATGAAGGCAGCCTTCA
 CAGTGACCACTCCCAGCAGCAGCTGCCTCACAGGAATATGGGGCACACCTGGAGGAAGAGAGAAGCCG
 GCCACAGTCAGCAGTCTTGTCTGTGAAAGTGCCAGCATCTAATCCCACAGACATCACATTCCTCAAG
 CCTCAAAGAAGAACATCCAGCCAGTATGTGGCCTCTGCTATTGCCAAGAAGATGGGGCTCCAAAAGTCC
 ATGCTGATGTGGTGAGACCACATAAGGCAACCACTGAACAGTGTGATGAAGAAGCAAAGCTGGCTAGATC
 TCCTCCCACCAGGAAAGATGATGCGACTCCCAACCTACACTCAGAGGCAAGGCAGCATGAACATGGGACA
 AACAGAGCTCTGTCTGCCTCCCAGCAACCCTGGTGTGCAATTGCCAGCAGGAGGCCATCCCAAAGTAG
 AGGTCAACAGCACATATGGGAAGTCATCGACTCAAGACTATCCTGCTGCTGTCCACAGAACTCCTATTT
 CCTCCCAGGCAGATCTTCCATAGGGATCGTGTCTGTGGGACAGAGCTGTGTTTCAATGAAAAGCAA
 ACTACAAGTAACCAAAAAGGCAAATCAACATCTAACTTCTCGCAGGCACTGGACAAGGCGCATCCACCCC
 CTCTGCTCTTGGCAGAGGCCGCTGACTCTGGGAGGATACTGATGAATGGCTCTGCACGAACCCAGGAAA
 TTGTGAGCCCCCCTCTCCAAAAGAATCCACCCTGACTAGCTATATTATCTTACAGACAGAGGAAAAG
 CCCAGTTCGTTATCTACAGATGGTCAAGACGCAGATGATACTCTACCGTCCAGCATTTTTGGCCAAAGA
 AAAAGTTCAAGCCTGTCATTCAAAGGCCACTCCAAAAGATGTATCCCTGCACAGTGCCTGATGGAAGC
 TATCCACTCATCAGGAGGAGAGAAAAGCTCCGGAAGACTGCAGAACAGACGTCAGAAGGAAGGCCAAAG
 AAACCATCTACGTGGAGGCAGAGAGTGAAGGATCTGCCCTTCTGGCAGCATTCCGGGTACAGTGGGA
 CTCTCAGCCTCAGGAAGGTGTCATCCCTGCCCTGAGGAGCTCCAGAGCTTCCGCAATGCTGCACTCGG
 GGCTCCAGGTTTGGATAAACCTCAGCAAGAAGACCTTGGCCTTCCACCCACCTGCCCTGCCACCACCA
 CCCGCTCCAGCCCCCAGGCTCCTTCAGCCTCCGTAACAGTTTCTAGGTTGAGCACCAGCCACCCAGCA
 ACTCAGTGAATGCTAGACAAGCCTTGTGGATGCCATCCGCTCGGGCACAGGAGCTGCAAGACTAAGAAA
 GGTTCCTTGCTCGTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001282993
- Insert Size:** 3939 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_001282993.1</u> , <u>NP_001269922.1</u>
RefSeq Size:	5558 bp
RefSeq ORF:	3939 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 (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p>