

Product datasheet for **RN201562**

Cobl (NM_001107236) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cobl (NM_001107236) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Cobl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN201562 representing NM_001107236 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGGCCCGCGCTCCACCACCTCCTGGAAAGCCTGCTGCCAGAATGTCCACAGCGAACAGAACTGC
CTCATGACGCCACACTGGGTTCCAGCAAAGCCTGGTCCACTTGAAGGAGGCACTTCACAACAGTACCTT
GGACATCACTGTGGTTCTGCCAGTGGACTGGAGAAGCAGAGCGTGGTTAGTGGGAGCCGTGCGGTGATG
GACCTCCTGGTTGAACTCTGCCTTCAGAACACCTGAATCCTTCTCACCACGTCTTAGAGATCTGGTCTT
CGGAGACCAACAGCCTTTGAGTTTAAAGCCAAATACGTTGATTGGCTCCTTGAATGCACATACGGTATT
TCTGAAAGAAAAAGTCCCTGAAGAGAAAGGGAAGCCTGGCCTAACCAAGGCCCTGAGAAAATCCGTACGC
CTGGTAGTGAACCTGAGAACTCAGAAGGCTGTATGCGGGTGAAGCCTGAGGTGCCTCTGCAGAACAA
TTCTGCCTGTCTGTGCGAAGTGTGAGGTGAGCCAGATCACGTGGTGTCTCAGGGACAATATTGC
TGGGGAAGAGCTGGAGCTGTCCAAGTCCCTGAATGAAGTGAAGGATCAAGGAGCTATATGCGTGGGACAAC
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GGTTTTTCAAAGTTAATAAGAGGAGCAACAGTAAGGCTGAGCATCTTGGGCTGTGGGCGCAGATAGCGA
CGAGGATCCCTCGAAGTCAGCGTCTGGAGGGGACTTGAACGGCTGTGTAACAACACCAACTCACCATCC
TTGCATTCTCGGTCCCTGACACTGGGTCCCTCCCTCTCACTGGGCAACATCTCTGGAATGTCTATGAAGT
CAGACATGAAGAAGCGCAGAGCCCTCCTCCTCAAGTCCCGGGCTGCTGGGTCAAGACAAGGTATCAGA
AAAGGCCCTCCCTCAGCTCGCAGGCCGATCTTCAGAAGAAGAAGAGGCGGGCGCCAGCTCCTCCTCCACCA
CAGCCGCCACCAAGTCCCTGTGGTTCCTCAACCGCAAGGAAGATAAGGAAGAGAACAGGAAGAGCACAG
TGGGGATGGAAGAAAATTATGAACAGATACCAGCTCTCTAACCGCTCTGTAAATGGGGTATCCAACCA
CAGTCTGCAAGAAGCCATAATCCCTGATAGTGGTGTGGACGACATCCCTGTCACTTTTATCGGGGAAGTT
TCTGACGAGCCTTTCGACTCGGGGCTGTCTTCAGTGAAGTAACAATGCTGTGCTTTGAACCAAGGGG
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CAGAAAAGAGCCTGACCCCTCCCTTCTTCCCAAGATTACAGAAAGAGAAATCAGCCAATCTTAGCCAAC
ACATCTGAAAATGAGAATCCAGTTGGAATAGACCCAGAGTTACATCATTGTTTCAAAGCCTTCGACAG
ATGACCCAAAGCAAAGGATAAAGACAAGATGTGCGGTTCTGGTCCCAGTGAGAAGACACAGACCGGTCA



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CAGAGTAACTCCCTGCCAGTGAATCCCAGAGTTGGTGAGGATGAAAACCTCCAACCTCAGCCCTGCCCCCA
 TGGTCTCACCATGGCCAGGCCTCGGGGGAAGCTATGGACTCAAGTATGGCCTCACTACATATAAAATCG
 TTCCTCCCAAACAGAGATGAGGTGTTATGACAGGGATGTGTCCCTCTCCACTGGTGCCATTAAGATTGA
 TGAAGTAGGGAATCTGATGAGTCTCACATGAATGGAAGCAGGACCATATCCAAGCCATCAGCTGTTGCC
 GAAACAGAGGGCTCCACCTATTGGAAGTCAAAGAGTTCTGGAGGCGCAACTCGATGGAAAAGTACCTGA
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 GCGAGATGAGACGAAGGCAGGCTTTACGCTGACCACTCCGGAGCAGCAGCCTGCCTCAGGAATACGGG
 GCACCCCGGAGGAAGACAGAAGCCGGCCACATTAGCCGTCTCCTGTCTGTGAAAGTGCCAGCACCTA
 ATCCCACAGACATCACATTCTCAAGCCTCAGAGAAGAACATCCAGCCAGTATGTGGCTTCTGCTATTGC
 CAAGAAGATGGGACCTCCAAAAGTCCATGCTGATGTGGTGAGACCACATAAGAAGACTGCCGAACAAGGC
 CACGAGGAAGCAAAGCTCGCTAGACCACCTCCAGCCTGGAAAGACAGTGCAGTCCCCAACCTGTGTTTCA
 AGGCCGGCCAGTGTGAGCATGGCACAACAGGGCTCTGTCCGCCTTCCCAGCAACCTGGTGGGCAAGT
 GCCAGCGGACCATCCAAAGTAGAGGTCAACAGCACATATGGGAAGTCAGCGACTCACAACCTCTCTGCT
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 GTGAGCATTTTTGGGCCAAAGAAAAAATTCAAGCCTGTGTTCAAAGGCCACTTCCAAAAGATATATCC
 CTGCACAGTGCCTGATGGAAGCCATCCACACCTCAGGAGGGAGGGACAAGTCCGAAAGACTGCAGAAC
 AGGCCTCAGAAGGAAGGCCAAAGAAACCATCTACGTGGAGGCGGAGAGCGAGCGATCTGCCCTTCTGGC
 AGCCATCCGGGGCCACAGTGGGACTCTCAGCCTGAGGAAGGTGTCATCCCTGGCCTCTGAGGAGCTCCAG
 AGCTTCCGAGATGCTGCACTCATGGCTCCAGGTGTGGACAAGCCTCAGCAAGAAGACCGTGGCCTTCCAC
 CCCACCTGCCCTGCCACCACCATCCACTCCAGCATCCAGGTTCCCTCAGCCTCCATACCGGTTTCTAG
 GTTCAGCATCGGCACCCCTCAGCAACCCAGTAAATGCTAGGCAAGCCTTGATGGATGCTATCCGCTCGGGC
 ACAGGAGCTGCAAGACTCAGAAAGGTTCCCTTGCTCGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001107236
Insert Size:	3402 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:	<u>NM_001107236.1, NP_001100706.1</u>

RefSeq Size: 4777 bp

RefSeq ORF: 3402 bp

Locus ID: 305497

UniProt ID: [D3ZUI5](#)

Cytogenetics: 14q21

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 dendrite branching in Purkinje cells (By similarity). Regulates neuron morphogenesis and increases branching of axons and dendrites.[UniProtKB/Swiss-Prot Function]