

Product datasheet for MR231773

Cobl (NM_001282994) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cobl (NM_001282994) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cobl
Synonyms: 4732460E13; C530045F18Rik; mKIAA0633
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR231773 representing NM_001282994
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACTGTGACGACAAAGAAAGGAAGATGAAGGCCCGTCTCCGCCACCTCCTGGAAAGCCTGCTGCC
 AGAATGTCCACAGCGAACAGAACTGCCCATGATGCCACCTGGGATCCCAGCAAAGCCTGGTCTACAT
 GAAGGAGGCACTGCAGAACAGCACCTTGGACATCACCGTGGTTCTGCCAGTGGACTGGAGAAGCAGAGT
 GTGGTTAGTGGGAGCCACGCAATGATGGACCTACTGGTTGAACTCGCCTCAGAACACCTGAATCCTT
 CTCACCACGTCTAGAGATCTGGTCTTCTGAGACCCAACAGCCTTTGAGTTTTAAGCCAAATACGTTGAT
 TGGGTCCTTGAATGTGCATACTGTACTTCTGAAAGAAAAAGTCCCTGAAGAAAGAGTTAAACCTGGCCTA
 ACCAAGGCTCCTGAGAAATCTGTACGACTGGTAGTGAACCTACCTGAGAACGCAGAAAGGCTGTCTGCGGG
 TGAGCCCTGAGGTGCCACTACAGAATATCTGCCAGTCATCTGTGCGAAGTGTGAGGTCAACCCAGAACA
 CGTGATTCTGCTCAGAGACAATGTTGCCGGGAGGAGCTGGAGCTGTCCAAGTCCCTGAATGAACTAGGG
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 CAGACAAAGAGAAGAAAAAGTTTCTGGGATTTTTCAAAGCTAATAAAAGGAGCAACAGTAAGGCTGAGCA
 TCTTGGGCTGTCAGGTGCAGATAGTGTGAGGACCCGGCGAAGTCAGCATCTGGAGGGGACTTGAACGGC
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 GCAACATCTCTGGAGTGTCTATGAAGTCAGACATGAAGAAGCGCAGAGCCCTCCTCCTCAAGTCCCAA
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 ATCTGAGGACACAACCGAGGACTCGGGGTCATGAGCTCTCCCTCAGATGCCATCTCCTGGACTACAA



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CAAGACAGCATGAGATCCAAGGACAAATGGTCCACAGACCAGGAAGACGGCAGTGACCAGGACCTGGCTG
GAACTCCAGAAGCTGGGTCCCAAAAGAGCCCATCATGGGGGAAAAGTGGTTCAGGAAGCTCAATTCTAAG
GACTGAGAAAAGCCACCATGCCTACCAATGATGATGAAGACCTATTCATCACTGGCCACTTACATCAGACC
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ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231773 representing NM_001282994
 Red=Cloning site Green=Tags(s)

MDCDDKERKMKARAPPPGKPAQNVHSEQKLPHDATLGSQQSLVYMKEALQNSTLDITVVLPSGLEKQS
 VVSGSHAMMDLLVELCLQNLNPSHHVLEIWSSETQQLSFKPNTLIGSLNVHTVLLKEKVPEERVKPGI
 TKAPEKSVRLVNYLRTQKAVVRVSPEVPLQNILPVICAKCEVNPEHVILLRDNVAGEEELSKSLNELG
 IKELYAWDNRRREMFKSSLGNDKDEKKEKFLGFFKANKRSNSKAEHLGLSGADSDDEPAKSASGGDLNG
 CVTTTPNSPSLHSRSLTLGPSLSLGNISGVSMKSDMKRRAPPPSPKLLGQDKVSEKASLSSQADLQKKK
 RRAPAPPPQPPSPVVPNRKEDKEENRSTVGVGRQVPQKPPRGTARGPPQLVLP PPPPYPPD TDVT
 EPVTFPGEGAGSETSELRPKLSLPLPGSGHCSMGVSVQVPAESEETASEDTTEDSGVMSSPSDAISLDSQ
 QDSMRKDKWSTDQEDGSDQLAGTPELGPQKSPSWGKSGSGSSILRTEKATMPTNDEDLFITGHLHQT
 LAELDELEGMEENYETDSSLTNSVNGVSNHSLQEAIIPDSGVDDIPVTFIGEVSDEPFDSGLFSSRCN
 NATTFNTGSIASQRSHLSPSQTEHSQPFVRTSRKEPDSPPSQDNRKRNPQTLANTSEENPVETDPTVT
 SLVSKLLIDDPKAKDKGVHGSSEKTAQAGHINSRLVNPRDGDDESSNAPPWSSHGQALGGSYGLK
 YGLTTYKIVPPKSEMRCYDRDVSSTGAIKIDELGNLVSPhMNGSRTISPPSAVETDTPPIGKVEFWR
 RNSMEKYLNGPAECTIKRAPSTTITATPEKPQQDNGMKAFTVTTTPQQQPASQEYGAHLEEERSRPQSAV
 SCSVKVPASNPTDITFLKPQRRSSQYVASIAKKMGPPKVHADVVRPHKATTEQCHEEAKLARSPPTRK
 DDAAPNLHSEARQHEHGTNQSSVCLPSNPGVQLPAGGHPKVEVNSTYGKSSQDYPAAVHRNSYFLPGRS
 SHRDRVSVGQSCGFNEKQTTSNQKANSTSNFSQALDKAHPPLLLAEARDSGRILMNGSARTPGNCEPPH
 SPKESTLSYIILQTEEKPSLSDGQDADDLPSIFGPKKKFKPVIQRPLPKDVSLSALMEAIHSSG
 GREKLRKTAEQTSEGRPKPSYVEAESERSALLAAIRGHSGTSLRKVSSLASEELQSF RNAALGAPGLD
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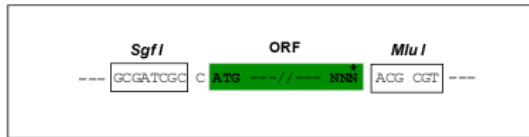
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



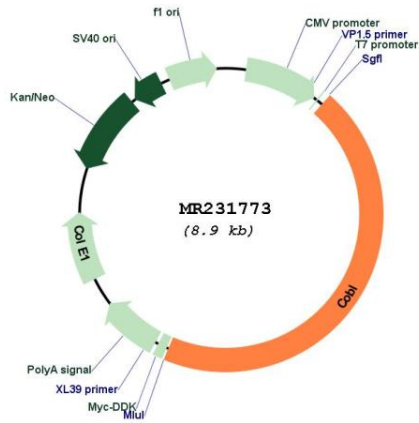
* The last codon before the Stop codon of the ORF

ACCN: NM_001282994

ORF Size: 3990 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_001282994.1 , NP_001269923.1
RefSeq Size:	5464 bp
RefSeq ORF:	3993 bp
Locus ID:	12808
Cytogenetics:	11 7.3 cM
MW:	143.8 kDa
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]

Product images:



Circular map for MR231773