

## Product datasheet for **MC219410**

### **Cables1 (NM\_001146287) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cables1 (NM_001146287) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cables1
Synonyms:	Cables; ik3-1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219410 representing NM\_001146287  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGCGCGCACCGCCACCGCGGGCACGGCCGCTGCAGCAGCAGCAGCAGCAGTCCGGCGGCAGCA  
 CGGACGCCGCGGCCACACGCGGGTGCAGCCGCCCGCCTCCTCCGGCCACCGCGCCGGAACCTCT  
 TCGTAAGCCGCGCATGGACCCGCGCGCCAGGCTGCCCTGTCTTCCACCAACATTTCTCTGGAC  
 GGACGGCTCCGCTGCAGGACCAGAGTGGGGCGCGGAGGAGGGCGCGGGACCAAGCCCGGAGCAA  
 GGGCTCGGCTCAGCCTGTGGCCGTGCTGCAACGCTTCTCGGCACCGGGCACCGCGCCGCGCCGTG  
 GACCGCCGCTCGGGTTCAGCCCTGCCCGCTGCCGCGTCTCTGGTCCCCGGGTGTTGGGAGAGCCA  
 TCTCAGCCGCCCGTTCAGCTCCAGCTGTACCCGGTGTCTCAGCTGCAGTTGCCTGACGGGCCGGAGGCG  
 CCGGACAGGAGAGCTGGAGGAGACGATGCCTTACCAACGTGCAGGTGCCATCGGCCAGCTTTTGGG  
 CTCGGGACCCCCGGGAGTACGAGCGGCAGTCGGGGCCGCTCAACTCGTTCAGTCCAGGAACTCTGCC  
 ATCGCCTTCTCCAGGCAGAACTCGCAGAACTACTGCGCCTTGGAGCAGTACGGCCAGGGCGGCAGACCA  
 GCGCCTTGAGAGAGCTGCAGAGGTCCAGACGTGCGCTCATCTCCAGAGATCATCTTTGGAGACCCTGGA  
 AGATATTGAAGAGAATGCCCTCTCCGGAGATGTGCAACTCTCAGGTTCTCCAGACCAAGAATTTT  
 AAGAAAATTCATTTTATCAAGAATATGCGACAGCACGATACCAAGAATGGCAGAAATGTCCTTATCAGTG  
 GCAGAAGATCCTTCTGTAGTATATTTCCGTGCTGCCGTATCGAGACAGTACCAAGTCCGGGACCTGAA  
 GTTGGATGGAGGGAGGCAGTCAGCAGGGGCCATGAGCCTGAAGGAGATCATTGCCCTGAAGGTGTGAA  
 CTGGGTGCCGATGGGAAGACAGTGTCTTATACCCAGTTTCTACTCCCAAAATGCCTTTGGGAACCGTA  
 GAAATACCATAGACTCCACCGCTCTTCTCCAGTTTTCGGAGCCTGAGCCACCGAAGCCTCTCCATGGG  
 CCGGGCTGGCAGCACCCAGGGGAGCCTTGATGCAGGAAGTGACCTGGGAGACTTTATGGACTATGACCCA  
 AACCTCTGGATGACCCCAAGTGGCCTTGCAGCAAGCACAAGCGAGTTCTGACCTTCCCTTCATACATGA  
 CCACAGTGATTGACTACGTGAAGCCCTCAGATCTCAAGAAGGACATGAATGAAACCTTCAAGGAGAAGTT  
 TCCTCACATTAATAACTCAGCAAAATCAGGAGCCTGAAAAGAGAGATGCGGAAGCTTGCCAGGAG  
 GACTGTGGCTTTGAGGAGCCACGGTGGCCATGGCCTTTGTCTACTTTGAGAAGTGGCCCTCAGGGGA  
 AGCTGAACAAGCAGAACCAGGAGCTCTGTGCGGAGCCTGTGTGCTGCTAGCGGCAAGGTGGAAGTGA  
 CCTCAGAAAGCAGAGGTCAAGCACCTGATTGACAACTGGAAGAGAAGTTCCGACTGAACAGACGAGAA  
 CTGATTGCCTTTGAATCCAGTGTAGTGGCCTTGAGTTTGCACCTCACCTGCCAGAGCACGAAGTCA  
 TGCCCCACTATAGACGCCTGATCCAGAGCTC**TAG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001146287

**Insert Size:** 1785 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\\_001146287.1](#), [NP\\_001139759.1](#)

**RefSeq Size:** 3343 bp

**RefSeq ORF:** 1785 bp

**Locus ID:** 63955

**Cytogenetics:** 18 A1

**Gene Summary:** Cyclin-dependent kinase binding protein. Enhances cyclin-dependent kinase tyrosine phosphorylation by nonreceptor tyrosine kinases, such as that of CDK5 by activated ABL1, which leads to increased CDK5 activity and is critical for neuronal development, and that of CDK2 by WEE1, which leads to decreased CDK2 activity and growth inhibition. Positively affects neuronal outgrowth. Plays a role as a regulator for p53/p73-induced cell death (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.