

Product datasheet for **MC219082**

Cables1 (NM_022021) Mouse Untagged Clone

Product data:

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



Fully Sequenced ORF: >MC219082 representing NM_022021
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCGGGCGGCACCGCCACCGGGCACGGCCGCTGCAGCAGCAGCAGCAGCAGTCGGGCGGCAGCA
 CGGACGCCGCGGCCACAGCGGGTGCAGCCGCCGCCCTCTCCGGCCACCGCGCCGGAACCTCT
 TCGTAAGCCGCGCATGGACCCGCGCGCCGAGGCTGCCCTGTCTTCTCACCACATTTCTCTGGAC
 GGACGGCTCCGCTGCAGGACACGAGTGGGGCGGGCGAGGAGGGCGGGACCAAGCCCGGAGCAA
 GGGCTCGGCTCAGCCTGCTGGCCGTGGCTGCAACGCTTCTCGGCACCGGGCACCGCGCCGCGCCGTG
 GACCGCGGGTCCGGTTCCAGCCCTTGCCCGCTGCCGCGTCTTGGTCCCCGGGTGTTGGGAGAGCCA
 TCTCAGCCGCCCTTCACTCCAGCTGTACCGGTGCTCAGCTGCACTTGCCTGACGGGCGGGAGGCG
 CCGGACAGGAGGCTGGAGGAGGACGATGCCTTACCAACGTGCAGGTGCCATCGGCCAGCTTTTTGGG
 CTCCGGGACCCCGGGAGTACGAGCGGAGTGGGGCCGCTCAACTCGTTCACTCAGGGAATCTGCC
 ATCGCCTTCTCCAGGCAGAACTCGCAGAACTACTGCGCTTGGAGCAGTCAGGCCAGGGCGGCAGACCA
 GCGCCTTGGAGCAGCTGCAGAGGTCCAGACGTGCTCATCTCCAGAGATCATCTTTGGAGACCTGGA
 AGATATTGAAGAGAATGCCCTCTCCGGAGATGTGAACACTCTCAGTTCTCCAGACCAAGAATTTT
 AAGAAAATTCATTTATCAAGAATATGCGACAGCAGATACCAAGAATGGCAGGACCTGAAGTTGGATG
 GAGGGAGGCAGTCAGCAGGGGCCATGAGCCTGAAGGAGATCATTGGCCTTGAAGGTGTGGAAGTGGGTGC
 CGATGGGAAGACAGTGTCTTATACCAAGTTTCTACTACCCACAAATGCCTTTGGGAACCGTAGAAATACC
 ATAGACTCCACCGCTCTTCTCCAGTTTCGGAGCCTGAGCCACCGAAGCCTCTCATGGCCGGGCTG
 GCAGCACCAGGGAGCCTTGATGCAGGAAGTACCTGGGAGACTTATGGACTATGACCCAAACCTCT
 GGATGACCCCAAGTGGCCTTGGCGCAAGCACAAGCGAGTTCTGACCTTCCCTTCATACATGACCACAGT
 ATTGACTACGTGAAGCCCTCAGATCTCAAGAAGGACATGAATGAAACCTTCAAGGAGAAGTTTCTCACA
 TTAAATTAACACTCAGCAAAATCAGGAGCCTGAAAGAGAGATGCGGAAGCTTGGCCAGGAGGAGTGTG
 CTTTGAGGAGCCACGGTGGCCATGGCCTTTGTCTACTTTGAGAAGCTGGCCCTCAGGGGAAGCTGAAC
 AAGCAGAACCAGGAAGCTGTGCGGGAGCCTGTGTGCTGCTAGCGCCAAAGTCGGAAGTGACCTCAGAA
 AGCAGCAGGTCAAGCACCTGATTGACAACTGGAAGAGAAGTCCGACTGAACAGACGAGAAGTATTGC
 CTTTGAATCCAGTGTAGTGGCCTTGGAGTTGCACTTCACCTGCCAGAGCAGGAAGTCATGCCCCAC
 TATAGACGCTGATCCAGAGCTCTAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_022021

Insert Size: 1707 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_022021.2, NP_071304.2</u>
RefSeq Size:	3265 bp
RefSeq ORF:	1707 bp
Locus ID:	63955
UniProt ID:	<u>Q9ESJ1</u>
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 (2) lacks an in-frame exon in the central coding region, compared to variant 1. This difference results in a shorter protein (isoform 2), 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.