

Product datasheet for **MC225070**

Mtcl1 (NM_172963) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mtcl1 (NM_172963) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mtcl1
Synonyms: 1110012J17Rik; Ccdc165; D130071O13; Kiaa0802; mKIAA0802; Soga2; t8219b25
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC225070 representing NM_172963
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGACGCTGAACGGCCCCGGGGCGGGCGGCCCGCCCGACACCAAGCCGAGCCAGCCGGCCAGCATC
ACCGCCACCACCTGCACCCGCTGGCCGAGAGAGGGCGGTGCACCGCGCACCCCTCGCCGCCAGACC
CTTCCTCAAGGACCTGCACACGGCCCGCCACGGCCACCCCTCTGCGGGCCGTGCCCGACTCCCGCG
GCTCCTCGCTCGCTAGCCTTGCCGGAAAGGCGCCGCGCTCGCCCGGGCCCCGGCCGCGCCGGTCCGC
TCTCCCGACGCAGCGGTGTAGTCCCCGGCGCGAAGGACAAGCCGCGCCGGGGCGCCGGAGCCAGGTCCGC
GGGCGGCGCTAAGGCCGTCCCGGGGACCAGGAGGGCGGCGCGCGGGGGCCGGCGGAGCCACTGTCCCGG
GTTGGGAGGCCGACTGGGGCCGAGCCACCCGCTGCCGTGCGAAGGGTCGAAAACCAAGCGCGGCCCGG
GGACGCCCTCCAGCTCGCGCCGTGTCGCCCGGCTCGCGCCTCCCGGGTCCCGCCGTGACCCTCTGT
GACCTCGGTGGCTGGCTGTCGTATCAACCACACGGACAGCAGCTCGGATCTCTCCGACTGCGCCTCCGAA
CCCTTGCTGATGAGCAGCGCTACTCCCCGCCAGCAGCGACGCTGAGTCGGGCACCCGGTCCAGTG
ACCGGGAACCCATACGCGGAGCACCCACTCCGAGCTCCGGATCCCGGGGCCCGCCGGGACAGCCCGGA
GCCCCCTATCCTGCTCGCGGGCGCCCCGTGCGCCAGTGCCTGTCTCGGGGGCCGAAGCAGCCAGCGGGG
GCCTCCACAGGGTCCCGGGACCCGGTCTCAGGAGGATGTTGGGGGCCGAGCGCACCGGAGCGGACGA
TTCTGGGACCTCCAAGGAGCCTAGCCTGGGCGAACAGCCCCGGCTCTTGGTGGTGGCTGAGGAAGAGGA
GTTGCTGAGGGAGATGGAGGAACTGCGCTCGGAGAACGACTACCTCAAGGACGAGCTGGATGAGTCCGT
GCAGAGATGGAGGAGATGAGGGATAGCTATCTGGAGGAGGACGGTACCAGCTGCAGGAGCTCCGGAGAG
AGCTGGACCGTGTAAACAAGAACTGCAGAACTCCTGCAGTACCGACTCAGGAAAGCCGAGCAGAAGAGCCT
GAAAGTGGCGGAAACAGGGCAGGTGGACGGGGAGCTCATCAGAAGCCTGGAGCAGGACTTGAAGGTAGCC
AAAGATGTGTCTGTCAGATTACACCACGAACTCGAGACCGTGGAGGAGAAGCGCGCTAAGGCTGAAGACG
ACAACGAAACGCTCCGGCAGCAGATGATCGAGGTGGAGGTATCCAGACAGGCCCTCCAGAATGAGGTGGA
GAGACTGAGGGAGAGTTCTCTGAAGAGAAGAGGAGTCCGGAAATGTACAAAGAGAAGAAACTTGTAAAC
CAGGATGACAGTGCAGATTTGAAGTGTGAGCTTTCAGTTTGTCAAAGAGGAAGCTTCCCTGATGCGCAAAA



AGATGGCCAAGTTGGGGCGGGAGAAGGACGAGTTGGAGCAGGAACTGCAGAAGTATAAGTCCCTCTATGG
 TGATGTGGACAGTCCCCTCCCAACAGGGGAGGCTGGTGGTCCCCCAGCACCAGGGAGGCAGAGCTGAAA
 CTGCGGCTGAAGTTGGTGGAGGAGGAAGCCAGCATCTTGGGCAGGAAGATCGTGGAGCTGGAGGTGGAAA
 ACCGTGGCCTCAAAGCAGAGATGGAAGACATACGGGTTACAGATGAACCGGAGGGAAACAGGCAGGGACCA
 CGTGCCAAAGCACTCTACCTCACCTTCGGAGACTCAATGGAGTCTCCACGGAGCTCCGCCGGCACCTG
 CAGTTTGTGGAAGAAGAGGCTGAGTGTGAGGAGATCCATCTCTGAGATTGAAGATCACAAACGGGCAGT
 TGACCCACGAGCTGAGCAAGTTCAAGTTTGAGCCTCACCAGGAGTCAGGGTGGCTTGGGGACGGTGTGTC
 TAAGGGCCCCCGCCAGCGTTCCCTGCAGGAGGAGCTGAAGTCAGCCAGGCTACAGATCGATGAGCTG
 AGCGGGAAGTACTGAAGCTGCAGTGTGAGAACCGGCTGCTTCTGTCCAATGCCAACGGGTGACCTCG
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 GAGCGATGGGGAGGAGGGCCGCTTCCCGACCAAAGCGAGAAGGCCCTGTTGGTGGGAGAGCGACTCG
 GAGGACATGTTTGAAGACCTCGGGCTTCGGAAGCGAAAGCCGTGGAGGCTAGTGAGCCATGCCCGG
 CAGAGCTGCTAAGGTCCGGGAGGATACCGAGTGCCTGGTGACCATAAAGCTGGAGGCTCAGCGGCTTGA
 GCGGACTGTGGAGCGCTCATCTCTGATACAGATGGTTTTCATCCAGACTCAGGACTGCGGGGCAATGGA
 TTGGCCTCACCTGGAGTCCAAGCGGAGGAGGTGAGGGCAACAGCCCAGTGAGCCCACCTTGTGGAGA
 CCATCAATGTGAGGATGAAGGCTTTCAGGAAAGAGCTGCAGGCCTTCTGGAGCAGATGTCCCGGATTTG
 GGATGGTCTCTCGCCCTATCCCACCTCACAGAGTCATCCAGTTCCTCTCCACTGTGACTTCTGTGTCC
 CGGGACTCCCCATCGGGACCCTGGGAAAGGAGTTGGGCCAGACTTGCAGTCCAAACTGAGAGAGCAGC
 TGGAAATGGCAGCTCAATCAGGATCGAGGGGACGAGCGAGAGGGCTGCGTCTCCGAGCCACTCGGGAGCT
 GCACCGGCGCGCGGATGGGGATTCGGGAGCCACCATGGGCTGGGAGGCCAGAGCTGTTTCAACCTAGAG
 ATGGAGGAGGACCACCTTACGCCCTGCGGTGGAAGGAACTGGAGATGCACAGCTGGCCCTGCAGAACA
 CCCTTACAAGCGGACGTGGAGCGACGAGAAGAATCTGCTGCAGCAGGAGCTCAGTCCCTGAAGCAGAA
 CATCTTCTCTTACGTCAAGTCAAGTGGCTGCTGAAACACTGGCGCCAAGGGAGCAGATGGGAGGAG
 GGAGGAGAGGATCTGGAGGAGAGCGAACATCCAGAGAATGTGCCTGGGCTTGTGAGCTTGAGTCCAGG
 GGGTTCACCAGACAGATGGGATAGACCAGGAGGATGCTGACCAAGGCTGTAGCCTTCCCATGGGAGAGCA
 TGCCCCACACTCCCTGGTACAGATCAGCGAACACGGATCACGGCTACAGAGTTCAGACGGGGACCACTT
 AACAAACAGTGGTGGAAAACAGCAGCTTTCAGGGCCCTCAAGGCTCTGCTGGAGGACTTCCGTTGCG
 AGCTGCGGAAGACGAGCATGCGCGCTGCGGCTGCAGCAGCAGTACGCCAGCGACAAGGCTGCGTGGGA
 TGTGGAGTGGGCTGTGCTCAAGTGCCGCTGGAACAGCTGGAAGAGAAGACTGAGAAAAGCTTGGGCGAG
 CTGGACTCTCTGCTGAGGGCAAAGGGCCTTGAAGAAGGAGAGAGGTCACCAGAAACTGCTGGCTG
 ACAGCCACAGCCTGGTGTGACCTGCGCTGGCAGATCCATCACCGAGAGAAGAACTGGAACCGGGAGAA
 GGTGGAGCTGCTGGAGCTGCTGGACAGCGAGCGCAGGAGTGGGGCGACAGAAGGAGGAGCTCCTGTGG
 CGGGTGGAGCAGTTACAGAAAGAGAAAAGTCCCCGGAGAAGCGGAGTTTCTCTGCAGCCGAAGGGAAG
 ACGACACAGCCCTTACCCGACCAAGGAAGCCTTCACTCCTCCAGACCTGTGTCCATGTGGCCCTGTGA
 AGACGCCGACTCCATCCCATTGAAAGACCGGCCCTTCCAAACTGAAGGAGTCCGACAGGTGCTCGGCC
 AGTGAGAACCTGTACTTGGACGCTTGTCCCTGGATGATGATCCAGGGGATCCGCCACCCCTCAGGAACT
 GCCTTGCCGAGGAAGAAGAAAGTCGCAAGGGCAATCTTCCAGAGGGCTGTGTCTGTGCTCTGTATGTCGA
 GTTCCAGCGTCTGATGGACGCTCTCTCCGTTCTGCCTGAGAAGGGGCTACCTTCCGCCGGCAGCAAGGAG
 GATGTCACTCCACCCTTGTCTCCCGACGACTTGAATACATTGAAGAATTCATAGCAACGACTGGGATT
 ACGCATCCCCAGGGCTGAGGCCGATCGGCTCCAGACCCTGGGCAGACAGGACCAGATGGGGAGGGT
 GGGCATGAAGCCACCACAGAGCCTTGTCCGGATCCCTCCTGGTATCTGACCACAAGTGTACAGTACG
 ACAGACACCATGACCAGTCCGGAGCACTGCCAGAAGCAGCCACTGCGGACCCATGTCTCACTGAGCAGT
 CTGGTGTGACAGTGTGCACAGCCGCTGCCATTGCGCGGTTGACAGTATAGCATCAGGCGGCGAGGG
 CAGGAGCCGAGCGGACCCGAGGGCCCTTCTATGAGCAGAGCAAGAGGGAACCTGGCAGATGCCAAG
 GGGGTCATCCAGAACCTGTGCTCAACAGGTGGCCTTGCACGCCACCCAGACATCCCCGGGACTGTGTGG
 AGGGTCTCTTCCGCCCTCGACAGACCTATCTGCCCTCCCTGGGATTTGCCTCCCTCTGAACAGCCT
 AGATATGTCTAAGAACATGAGTGTGACATGAAGGAGGTGGCTTTTCTGTGAGGATGCCATCTGCGCC
 GGTCTGCGGAGCCACAGTCAAGGATATGGCCTGCCAGACCAATGGGTCCAGGACAGCAGGACCGCAGA
 CCATCCAGACAATCAGCGTGGGCTGCAGACCGAGGCCCTACGTGCCAGCGGCTACCAGCAGCCCCCA
 CAAGTGTCTACGCCAAAAGCCGGAGGTGGCACCACACCCGTGTCTTCTCCTTCCCGCAGCCTTAGGAGT
 AGACAGGTGGCCCTGCCATTGAGAAGGTGACGGCAAGTTTGAACGCACCTGCTGCTCCCCAAAGTACG
 GTTCTCCAAACTCAGAGAAAGCCCTCTCAAAGCTGACCAGCCAAATAGCAGGACCTACCAGGCAT

ACCCAGAAAGGGTTCAGCGAGTCAGCCTGGGCCCGCTCCACCACCACGAGGGAGAGCCCTGTGCACACC
 ACCATCAATGATGGCCTCTCCAGCCTCTTCAATATCATCGACCACAGTCCCATCGGGGTGCGGGCTGGGA
 GCCGATCTCGGTGAGCAGAACCTCGACAGGAGCTGGGTCCAGGCCAGGAAACGGGCACCAGTTCCAGAGG
 GAGGTCGCCCAGCCCGCTAGGGGTAGGCTCCGAGACGTTTCAGGGAGGAGGGAGGAGAGCAGCCAGTG
 AGACAGGACTTATCTGCGCCCCCTGGCTACACGCTCACTGAGAATGTGGCCCGGATCCTCAACAAAAAGT
 TGTTGGAGCATGCCTTAAAGGAGGAGAGGAAGCAAGCCAGCCATGGCTCCTCAGGTCTCACCAGCGACAG
 CCACACTGGAGAACCAGTGCCAGCCGAGCCAGGATCCATGGAGGAAGTGCCTTGTCTGCGCTCGCGCCC
 TCCTTAGAGCCCTGCTTTCCAGGCCAGAGAGACCAGCAAACCGCCGCTTCCATCCCGTTGGGCCCCAC
 CTCCCCCACTGCCTCACAGTCACAGTACCCGGACACCCGATGTCCATGGAGGAACACGGTGAGGAGGA
 CCCACCAGAGGAGAAGCCACACCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_172963
Insert Size:	5838 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:	<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_172963.4 , NP_766551.3
RefSeq Size:	7238 bp
RefSeq ORF:	5838 bp
Locus ID:	68617
UniProt ID:	Q3UHU5
Cytogenetics:	17 E1.1

Gene Summary:

Microtubule-associated factor involved in the late phase of epithelial polarization and microtubule dynamics regulation. Plays a role in the development and maintenance of non-centrosomal microtubule bundles at the lateral membrane in polarized epithelial cells.

[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an exon in the 3' region, which results in a downstream translation termination codon, compared to variant 1. The resulting isoform (2) is longer and has a distinct C-terminus, compared to isoform 1.