

Product datasheet for **MC225010**

Mtcl1 (NM_001114098) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mtcl1 (NM_001114098) 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: >MC225010 representing NM_001114098
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGACGCTGAACGGCCCCGGGGCGGGCGGCCCGCCGACACCAAGCCGAGCCAGCCGGCCAGCATC
 ACCGCCACCACCTGCACCCGCTGGCCGAGAGGAGGGCGGTGCACCGCGCACCCCTCGCCGCCAGACC
 CTTCTCAAGGACCTGCACACGGCCCGCCACGGCCACCCCTCTGCGGGCCGTGCCCGACTCCCGCG
 GCTCCTCGCTCGCTAGCCTTGCCGGAAAGGCGCCGCGCTCGCCCGGGCCCCGGCCGCGCCGGTCCGC
 TCTCCCGACGCAGCGGTGTAGTCCCCGGCGCAAGGACAAGCCGCGCCGGGGCGCCGGAGCCAGGTCCGC
 GGGCGGCGCTAAGGCCGTCCCGGGGACCAGGAGGGCGGCGCGCGGGGGCCGGCGGAGCCACTGTCCCGG
 GTTGGGAGGCCGACTGGGGCCGAGCCACCCTGCCGTGCGCAAGGGTCGCAAAACCAAGCGCGGCCCGG
 GGACGCCCTCCAGCTCGCGCCGTGTCGCCCGGCTCGCGCCTCCCGGGTCCCGCCGTGACCCTCTGT
 GACCTCGGTGGCTGGCTGTCGTATCAACCACACGGACAGCAGCTCGGATCTCTCCGACTGCGCCTCCGAA
 CCCTTGCTGATGAGCAGCGCTACTCCCCGCCAGCAGCAGCGTGCAGTGGGCACCGGCTCCAGTG
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 GCCCCCTATCCTGCTCGCGGCGCCCTGTGCGCCAGTGCCTGTCTCGGGGCGCAAGCAGCCAGCGGGG
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 GTTGCTGAGGGAGATGGAGGAACTGCGCTCGGAGAACGACTACCTCAAGGACGAGCTGGATGAGTCCGT
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 GAAAGTGGCGGAAACAGGGCAGGTGGACGGGAGCTCATCAGAAGCCTGGAGCAGGACTTGAAGGTAGCC
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 ACAACGAAACGCTCCGGCAGCAGATGATCGAGGTGGAGGTATCCAGACAGGCCCTCCAGAATGAGGTGGA
 GAGACTGAGGGAGAGTTCTCTGAAGAGAAGAGGAGTCCGGAAATGTACAAAGAGAAGAACTTGTAAAC
 CAGGATGACAGTGCAGATTTGAAGTGTGAGCTTTCAGTTTGTCAAAGAGGAAGCTTCCCTGATGCGCAAAA



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AGATGGCCAAGTTGGGGCGGGAGAAGGACGAGTTGGAGCAGGAACTGCAGAAGTATAAGTCCCTCTATGG
 TGATGTGGACAGTCCCCTCCCAACAGGGGAGGCTGGTGGTCCCCCAGCACCAGGGAGGCAGAGCTGAAA
 CTGCGGCTGAAGTTGGTGGAGGAGGAAGCCAGCATCTTGGGCAGGAAGATCGTGGAGCTGGAGGTGAAA
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 CGTGCCAAAGCACTCTACCTCACCTTCGGAGACTCAATGGAGTCTCCACGGAGCTCCGCCGCACCTG
 CAGTTTGTGGAAGAAGAGGCTGAGTGTGAGGAGATCCATCTCTGAGATTGAAGTACAAACCGGCAGT
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 TAAGGGCCCCCGCCAGCGTTCCCTGCAGGAGGAGCTGAAGTCAGCCAGGCTACAGATCGATGAGCTG
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 CGGGACTCCCCATCGGGACCCTGGGAAAGGAGTTGGGCCAGACTTGCAGTCCAACTGAGAGAGCAGC
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 GCACCGGCGCGCGGATGGGGATTCGGGAGCCACCATGGGCTGGGAGGCCAGAGCTGTTTCAACCTAGAG
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 CCCTTCAAGCGGACGTGGAGCGACGAGAAGAATCTGCTGCAGCAGGAGCTCAGTCCCTGAAGCAGAA
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 GGAGGAGAGGATCTGGAGGAGAGCGAACATCCAGAGAATGTGCCTGGGCTTGTGAGCTTGAGTCCAGG
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 AGTGAGAACCTGTACTTGGACGCTTGTCCCTGGATGATGATCCAGGGGATCCGCCACCCCTCAGGAACT
 GCCTTGCCGAGGAAGAAGAAAGTCGCAAGGGCAATCTTCCAGAGGGCTGTGTCTGTGCTCTGTATGTCGA
 GTTCCAGCGTCTGATGGACGCTCTCCGTTCTGCCTGAGAAGGGGCTACCTTCCGCCGGCAGCAAGGAG
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 ACGCATCCCCAGGGCTGAGGCCGATCGGCTCCAGACCCTGGGCAGACAGGACCAGATGGGGAGGGT
 GGGCATGAAGCCACCACAGAGCCTTGTCCGGATCCCTCCTGGTATCTGACCACAAGTGTACAGTACG
 ACAGACACCATGACCAGTCCGGAGCACTGCCAGAAGCAGCCACTGCGGACCCATGTCTCACTGAGCAGT
 CTGGTGTGACAGTGTGCACAGCCGCTGCCATTGCGCGGTTGACAGTATAGCATCAGGCGGCGAGGG
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 GGGGTCATCCAGAACCTGTGCTCAACAGGTGGCCTTGCACGCCACCCAGACATCCCCGGGACTGTGTGG
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 CAAGTGTCTACGCCAAAAGCCGGAGGTGGCACCACCCGTTCTTCTCCTTCCCGCAGCCTTAGGAGT
 AGACAGGTGGCCCTGCCATTGAGAAGGTGCAGGCCAAGTTTGAACGCACCTGCTGCTCCCCAAAGTACG
 GTTCTCCAAACTCAGAGAAAGCCCTCTCAAAGCTGACCAGCCAAATAGCAGGACCTACCAGGCAT

ACCCCAGAAAGGGTTCAGCGAGTCAGCCTGGGCCCGCTCCACCACCACGAGGGAGAGCCCTGTGCACACC
 ACCATCAATGATGGCCTCTCCAGCCTCTCAATATCATCGACCACAGTCCCATCGGGGTGCGGGCTGGGA
 GCCGATCTCGGTGAGCAGAACCTCGACAGGAGCTGGGTCCAGGCCAGGAAACGGGCACCAGTTCCAGAGG
 GAGGTCGCCCAGCCCGCTAGGGGTAGGCTCCGAGACGTTTCAGGGAGGAGGGAGGAGAGACGCCAGTG
 AGACAGGACTTATCTGCGCCCCCTGGCTACACGCTCACTGAGAATGTGGCCCGGATCCTCAACAAAAAGT
 TGTTGGAGCATGCCTTAAAGGAGGAGAGGAAGCAAGCCAGCCATGGCTCCTCAGGTCTCACCAGCGACAG
 CCACACTGGAGAACCAGTGCCAGCCGAGCCAGGATCCATGGAGAACCAAAGTGTCTTACTAACTGCCCCC
 TGGGGACTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001114098
- Insert Size:** 5682 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_001114098.1](#), [NP_001107570.1](#)
- RefSeq Size:** 7297 bp
- RefSeq ORF:** 5682 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 (1) represents the longer transcript but encodes the shorter isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.