

Product datasheet for **MC202048**

Ccdc155 (NM_201374) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc155 (NM_201374) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ccdc155
Synonyms:	Gm1434; KASH5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC050196 sequence for NM_201374
GGGCGAGCCAGACCCAAAAGAAAGAACTTGGTTCAAAGACTGACAAGAAGAAAAGGATGAACAGGGAGTC
CTTCGGTTGAACTCTCTCCTGCTTGGCCCTATTTTGTCAAGCAGAAGGAAAGGATTTTTGTACCGCAGAA
GAAAGTGGCCGATAATATCGCGCCATCACCGCTAGCCCCACTAGTGCGCATGCACCTCGATCCTCAGGTCC
AGCCGATCCTCCCGAAGCTCTACGCATGCGCCAGCTCAAGGGTCTTCGTAAGGAGAGACCCAGGGCCG
ATCCACTCGGAGTGGCCTTGGGAGCTATCTGGACATCCTTTCTTTCCCAACCCCTCCTCACAGTGGAGG
GAAGCTGAGAGCTTCGACAGCAGCTGTAGAGGAGCATCAGGAGTGGTCCATGGACCTGCCGGAGGCCAG
GCTGGTGGTCCAACCTGCACAGATGTACCTCTGGGAACAGCCCGAGGAAGCGAGTTCAAGGCCACTGCTCA
GCCTAGAGGAACAGATTCTTAACTCCACATTTGAAGCCTGTGACCCTCACAAGACAGGCACTGTGACTGT
GGCCACCTCCTGGCCTACCTGGAGGCTGTGACAGGACAGGGACCTCAGGATGTGCGCCTCCAAACTG
GCCCGAGCTTGGACCCTTATGGAGAGGGTGTGAAGCCACTGTGGAAGTGGACACCTTTCTGGTGGTCA
TGCGGGACTGGATTGCTGCCTGTCAGCTGCAGGGGGGATTAGAGCGGGCAGAGGAGACCGCCTACGAGGG
AGCCCTGGCTTCCACACCTGCCATCTGTGTGCCAGAAGCTGAGGAGTCAAGCACTTAGAGAGCTTT
GGAGGAGAAGACCCAGGCCGAGGGGCTGCCACAGCTGAGCTGCTGAGCAACCTGGAGGACCTAGAGC
TAAGCAACCGGCTCTTGTGGTGAAGAATGCCAAGCTACAACGCAGTGTGGAGACTGCGGAGGAGGGCTC
TGACCGCTAGGGGAGGAGATCACAGCCCTGCGCAAGCAGCTGCGAAGTACCCAGAGGCCCTGCAGGTG
GCCAAGGCTTTGGATGAGGAGCTAGAGGACCTGAAGACTCTGGCCAAGAGCCTAGAGGAGCAGAATCGCA
GTCTGATGGCCAGGCCCGCACACAGAGAAGGAGCAGCAGCACCTGGCGGCTGAGGTAGAGACGCTACC
GGAGGAGAATGAGAAGCTGTAGCTGAGAGAGATGGAGTAAAAGCGGAGTGAAGGAGTTGGCCACAGAG
AAGGACGCTTTGAAGCGGCAGCTCTGTGAGTGCGAACGACTCATTGGCAGCGTGAAGCAGTCTCTCAG
AGCGTACCCGCCATGCAGAGAGTCTGGCCCGACCTTGGAGGAGTACAGAAGTACCACCCAGGAAGTAA
GCAAGAGATCTCAAACCTGGAGGAGCAGCTGAGTCAAGCCAGGAAGGCCAGAGGAGCTGCTGGAAGGG
GCTGAGGCAGGAAGAGTAGGCTGGATCATGGCCCTGCCCCATCACTAGACTTGGAGATCCAAGTATCC
GACAGGAGCAGGATGTAGCCAGTGTGGCCTCTCCAGTCCCTGTATGGAGTGGCGAGTGGGAAGAGGT
GGAGCCTGAGCCTGAGCCTGAGCCTGAGCCTGAGCCTGAGCCTGAGCCGAGGAGTTGAGTTTCCCTCT
GAGGACCCTGCTAGGCAACAGACAGACTTGACAGAGAGCCAGTGCCTGCTCTAGAAGGAAGCAGAGCTC
CATGCTTGCAGTGTCCAGAAGCCAAGAAGAGGAGGAAGAAGAAGAGGAGAGTGGGTCCTGGCTGACCC
TTCCAGCCCTCTGGAACTATCACATAAACTTGCCCCAGGAAGCTCTCGTGAGAGTTGCCACATTGTA
CCAGAGATGCACCAAGCCCTCATGCCTGTGGTGTAGAGACCTGGTGCAGTTGAGAGGTCACGGACCCAGC
ACTGTCTGCATCCCAGCACTCCCAGGGATCAGAATCAGCCAGCACCCACTGGTCCCACACCCGCTCTT
GGGCTGTGCTGCTGCTGCTCCTCATCCTGTGTTAGCCAGTCCCGCCACCCACTGGCCTCAC
CTGACGCTCTACTACCTACAGCCGCCACCAAGTGTGAGGCACCCTTCCACCACTATACCTCCTCCGTCAG
CATGGGACCCACATCCCTAAGTTGTGTTATGCGACCATGAAAAAAAAAAAAAAAAA

- Restriction Sites:** RsrII-NotI
- ACCN:** NM_201374
- Insert Size:** 1737 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: [BC050196](#), [AAH50196](#)

RefSeq Size: 2225 bp

RefSeq ORF: 1737 bp

Locus ID: 384619

UniProt ID: [Q80VJ8](#)

Cytogenetics: 7 B3

Gene Summary: As a component of the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Required for telomere attachment to nuclear envelope in the prophase of meiosis and for rapid telomere prophase movements implicating a SUN1/2:KASH5 LINC complex in which SUN1 and SUN2 seem to act at least partial redundantly. Required for homologue pairing during meiotic prophase in spermatocytes and probably oocytes. Essential for male and female gametogenesis. Recruits cytoplasmic dynein to telomere attachment sites at the nuclear envelope in spermatocytes. In oocytes is involved in meiotic resumption and spindle formation.[UniProtKB/Swiss-Prot Function]