

Product datasheet for **RG231199**

Multicilin (MCIDAS) (NM_001190787) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Multicilin (MCIDAS) (NM_001190787) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Multicilin
Synonyms:	CILD42; IDAS; MCI; MCIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG231199 representing NM_001190787 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCAGGCGTGCGGGGCGGCGCGGCCGCGCTCGGGCCTTCGACAGCATCTGCCCAACAGAATGCTGG
CACTGCCGGGCGGGCGCTGCTCTGCAAGCCGGGAAGCCGGAGAGGAAGTTCGCTCCTCCGCGGAAGTT
CTTCCCCGGATGCACAGGCGGGAGCCCGGTGTCGGGTACGAGGATCCCCCGACGCCGAGCCACAGCG
CTGCCAGCCCTCACCACCATAGACCTGCAGGACCTCGTGACTGCTCTTCGCTACTCGGGTCCGACGCGC
CGCCTGGTGGTGACCTGGCCGCCTCGCAGAACCATTCCACCAAACGGAAGCAGACTTCAATCTGCAAGA
TTTCAGAGACACGGTGGATGATCTCATTTTCAGACTCATCCTCTATGATGTCGCCTACCCTGGCCAGCGGA
GACTTCCCCTTCTCTCCTTGCGACATATCACCATTCCGGGCCCTGCCTCTCCCCGCCACTGGACCCACGGG
CCCTGCAGTCACCACCGCTGCGCCCTCCAGACGTGCCCCCGCCTGAGCAATACTGGAAGGAGGTGGCGGA
CCAGAACCAGAGAGCGTTGGGAGACGCGCTTGTGAGAATAATCAACTGCACGTGACATTGACCCAGAAA
CAGGAGGAGATCGCTCGCTCAAGGAGCGGAACGTGCAGCTGAAGGAACTCGCCAGCCGAACCCGGCACC
TGGCCTCGGTGCTGGATAAGCTGATGATCACACAGTCCCGGATTGTGGGGCGGCGGCCGAGCCCTTCT
GCTCAAGGCGAAGGCCAAAAGGAGCCTGGAGGAGTTGGTCAGCGCTCGGGGCGAGATTGCGCGGAAGTG
GACGCCATCCTGAGGGAGATTTCCGAGCGCTGCGATGAAGCCCTTCAGAGCCGCGATCCCAAGCGGCCCC
GACTGCTGCCAGAGCCCCGAATACTGACACCAGGCCCGGGAACCTGCATGGCGCCTTCCGGGGGCTGCG
CACAGACTGCAGCCGAGCGCGTTGAACCTGAGCCACAGTGAGCTGGAGGAGGGCGGCTCCTTCAGCACC
CGCATCCGAGCCACAGCACCATCCGCACCCTCGCCTTCCCCAGGGCAATGCCTTCACCATCAGAACAG
CCAACGGGGTTACAAGTTCCGCTGGGTCCCCAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231199 representing NM_001190787
 Red=Cloning site Green=Tags(s)

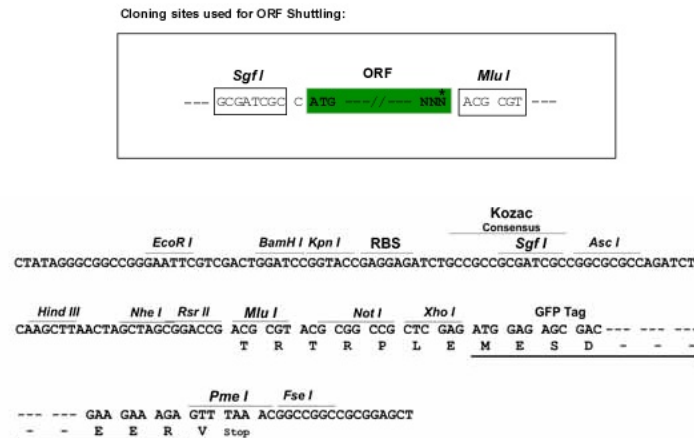
MQACGGGAAGRRAFDSICPNRMLALPGRALLCKPGKPERKFAPPRKFFPGCTGGSPVSVYEDPPDAEPTA
 LPALTTIDLQDLADCSSLLGSDAPPGDLAASQNHSHQTEADFNLDQDFRDTVDDLISDSSSMMSPTLASG
 DFPFSPCDISPFGPCLSPPLDPRALQSPPLRPPDVPPPEQYWKVADQNQRALGDALVENNLHVTLTQK
 QEEIASLKERNVQLKELASRTRHLASVLDKLMITQSRDCGAAAEFLLKAKAKRSLEELVSAAGQDCAEV
 DAILREISERCDEALQSRDPKRPRLLPEPANTDTRPGNLHGAFRGLRTDCSRNALNLSHSELEEGGSFST
 RIRSHSTIRTLAFPPQNAFTIRTANGGYKFRWVPS

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001190787

ORF Size: 1155 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001190787.3](#)

RefSeq Size: 2104 bp

RefSeq ORF: 1158 bp

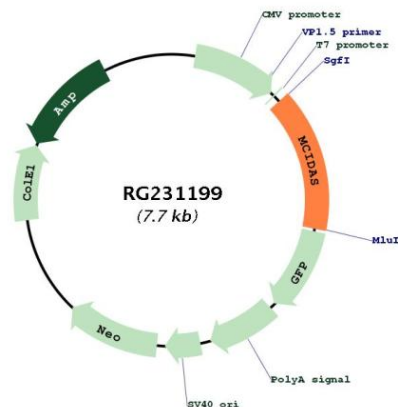
Locus ID: 345643

UniProt ID: [D6RGH6](#)

Cytogenetics: 5q11.2

Gene Summary: This gene encodes a member of the geminin family of proteins. The encoded nuclear protein is required for the generation of multiciliated cells in respiratory epithelium. Mutations in this gene cause a rare mucociliary clearance disorder associated with recurring respiratory infections in human patients, known as reduced generation of multiple motile cilia (RGMC). [provided by RefSeq, Sep 2016]

Product images:



Circular map for RG231199