

## Product datasheet for **MG217454**

### 2310035C23Rik (NM\_173187) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	2310035C23Rik (NM_173187) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	2310035C23Rik
Synonyms:	6430401N10; Kiaa1468; mKIAA1468; Relch
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217454 representing NM_173187 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGATGGCGCCCGGAGGTGGTGGCAGTGGTAGCGGAGTAAATCCTTTCCTCAGTGATTCGGATG  
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AAGACCAAGTTTTTGAACAAAATGGGCCAGTTGACAACATCAGGTGCCATGCTGGCCAATGTGTTTCAGA  
GAAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG217454 representing NM\_173187  
 Red=Cloning site Green=Tags(s)

MAAMAPGGGGSGSGVNPFLSDSDEDDDEVAATEDRRAGLRLGAGVGLDPGSAGSLSPQDPMALGSSARPG  
 LAVEMSAAPALGGSETPARLSIDAIAAQLLRDQYLLTALELHTELESGRELPRLRDYFSNPGNFERQ  
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 LRKAKETIQALRANLTKAAEHEVPLQERKNYKSSPEIQEPIKPLEKRALNFLVNEFLKNNYKLTSTIFTS  
 DENDDQDFELWDDVGLNIPKPPDLLQLYRDFGNHQVTGKDLVDVASGVDEDELEALTPILGNVPPTLDTP  
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 RCTAARMFELLVKGVNETLVAQRVVPALITLSSDPEISVRIATIPAFGTIMETVIQRELLERVKMQLASF  
 LEDPQYQDQSHLHTEVIRTFGRVGPNAEPRFRDEFVIPHHLKALVNNLQIVDSKKLDIATHLFEAYSAL  
 SCCFISEDLMVNHFLPGLRCLRTDMEHLSPEHEVILSSMIKECEQKVENKTVQEPGMSMSIAASLVSEDT  
 KTKFLNKMQLTTSGAMLANVFQRKK

TRTRPLE - GFP Tag - V

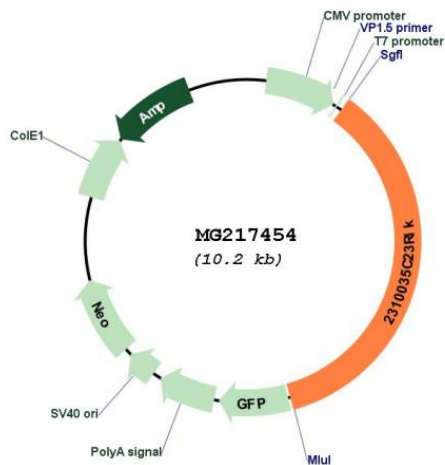
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



## Plasmid Map:



ACCN: NM\_173187

ORF Size: 3648 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\\_173187.3](#), [NP\\_775279.2](#)

RefSeq Size: 5424 bp

RefSeq ORF: 3651 bp

Locus ID: 227446

UniProt ID: [Q148V7](#)

Cytogenetics: 1

**Gene Summary:**

Regulates intracellular cholesterol distribution from recycling endosomes to the trans-Golgi network through interactions with RAB11 and OSBP. Functions in membrane tethering and promotes OSBP-mediated cholesterol transfer between RAB11-bound recycling endosomes and OSBP-bound Golgi-like membranes.[UniProtKB/Swiss-Prot Function]