

Product datasheet for **MG214311**

5430427O19Rik (NM_001163539) Mouse Tagged ORF Clone

Product data:

| | |
|----------------------------------|-------------------------|
| Product Type: | Expression Plasmids |
| Tag: | TurboGFP |
| Symbol: | 5430427O19Rik |
| Synonyms: | RP23-311G7.1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |

ORF Nucleotide Sequence: >MG214311 representing NM_001163539
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTATCAGAAGGATATCTCAGTGGACTTACCTACTGGAATGACATTCATTGGAATTGTGCATCTTATA
ATGAACCGGTGGCTGGGGACCAAGGCCAAAGAGACAAGTTCTGTTGCTGCTCTTTCATATTCCTCTGTGGA
TGAAACACAAGTTCAAAGTCTTTATGTGAGCTGCAAACTCTGGGAAGTTTATTTTCATCAGTGCATGCA
AGGGCGAGTCAGCACAGCAGAAGCCAGAGCAGAACAGTGTGCAGGCAACAGCAACCCTGTATTTGAAA
GTCCAACTTTAGCTGCAGTTGGTATATGCAGAGATGTGATCAGGGAGACCTACTTGGTCCACCTTCTTG
TAAAAGTATTTGCAAAAATTACAACGACTTACATATTGCAGGGGACAGGTGATGGCCATTAACCTCAGTA
ATGGCAAATTTCCCTCTGAGAGCAGCTTTGAAGATGGTCTTTGCTAAAGTCATCTGAGATTTCTTTGT
CCATGGAGGATTCCTTCCACTCAGCTCACTGAACTTCCCTCAAACCTATCCAGCGGTACTCATCCTA
CTGGAGGATAACCAGCATCAAAGAGAAAAGCAGCCTGCAAAATGCAGAAGCCTATTTCAAATGCAGTGCTC
AATGAGTACCTGGAGCAGAAGGTGGTGAATTGTATAAGCAATATATTATGGCACTGTGTTTCATGACA
GTTCTCCTACCCAGATTCTGGCATCAGAATTCATCATGACGAATGTAGATCAAATTAGTCTTCAAGTGTC
TAAAGAGAAGAACCTGGACACTTCAAAGTCAAGGACATAGTTATTAGCCACCTGTTGCAGTTGGTATCA
TCTGAGATCAGCACCCCTAGTCTTCATATTTCTCAGTATAGCAATATAACTCCA

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG214311 representing NM_001163539
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MLSEGYLSGLTYWNDIHWNCASYNEPVAGDQGKETSSVAALSYSSVDETQVQSLYVSKSSGKFISSVHA
 RASQHSRSQSRTVLQANSNPVFESPTLAAVIGICRDVIRETYLVPPSCKSICKNYNDLHIAGGQVMAINSV
 MANFPSESSFEDGPLLKSSEISLSMEDSTSTQLTEPLKPIQRYSYWRITSIKEKSSLQMQKPISSNAVL
 NEYLEQKVVELYKQYIMDVFHDSSTPQILASEFIMTNVDQISLQVSKEKNLDTSKVKDIVISHLQLVLS
 SEISTPSLHISQYSNITP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001163539

ORF Size: 894 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001163539.1](#), [NP_001157011.1](#)

RefSeq Size: 3835 bp

RefSeq ORF: 897 bp

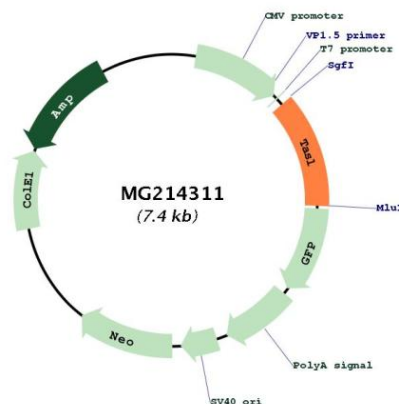
Locus ID: 71398

UniProt ID: [Q9D3J9](#)

Cytogenetics: X C1

Gene Summary: Plays a role in the regulation of endolysosomal pH in immune cells such as B-cells, dendritic cells and monocytes. May be involved in endolysosomal-dependent immune responses. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG214311