

## Product datasheet for **MG227071**

### **Gga3 (NM\_173048) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gga3 (NM_173048) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gga3
Synonyms:	C230037M19Rik; mKIAA0154
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG227071 representing NM\_173048  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCGGAGGCGGAAGGGGAGAGCTGGAGTCCTGGCTGAATAAAGCTACCAATCCTTCCAACGCCAGG  
 AAGACTGGGAATATATCATTGGTTTCTGTGATCAGATCAACAAAGAGCTTGAAGGGCCCCAGATTGCTGT  
 GCGACTCTGGCCACAAGATCCAGTCTCCACAGGAATGGGAGGCAAGTGCAGGCCCTCACGGTGCTGGAG  
 GCGTGTATGAAGAACTGTGGCAGGAGACTTCATAATGAAGTGGGGAAGTCCGGTTTTTGAATGAATTAA  
 TCAAAGTCGTCTCTCAAAGTACTTGGGAGACAGGGTGTCTGAAAAGGTGAAGACTAAGGTCATCGAGTT  
 GCTTTTTAGCTGGACACTGGCCTTGCCGGAAGAAGCAAAGATCAAAGATGCCTACCATATGTTGAAGAGA  
 CAAGGCATAGTGCAGTCGGACCCCCCATCCCCATGGATAGAACGCTGATCCCCTCTCCCCACCTCGGC  
 CCAAAAACCCCGTTTTTGTATGATGAGGAGAAATCCAAGCTTTAGCCAGGCTGCTGAAGAGCAAGAACC  
 AGATGACCTGCAAGAGGCCAACAGACTCATCAAGTCCATGGTGAAGGAAGATGAGGCTCGCATCCAGAAA  
 GTGACCAAGCGTCTACACACACTGGAGGAGGTTAACAACAATGTCAAGCTGCTCCACGAGATGCTGCTTC  
 ACTACAGCCAAGAGTACTCGTCAGACGCCGACAAGGAGCTCATGAAGGAGCTCTTTGATCGTTGTGAGAA  
 TAAGAGGCGGACGCTGTTTAAACTAGCCAGCGAGACAGAGGACAAATGACAACAGTTTGGGGGACATCCTG  
 CAGGCCAGTGACAACCTGTCCAGGGTCACTCAACTTTACAAAATATTATTGAAGGGCAGATCGTCAATG  
 GTGAGGTGACCACCTCAACCATGCCTGACTCTGAAGGAAACAGTCACTGTGGTAACCAAGGCGCCCTCAT  
 TGACCTTGCTGAGTTGGACGCCCCCAGCAACTCGTCTCCGGCATTGGCCCCACCCACCTCAGGCATCCCC  
 ATCCTCCCTCCACCCCCAAACCTCCGGGCTCCACGAAGCCGTTTCATCCAGCCAGGCTGAGGCTCCCC  
 CAGGGCTGACAGCACGAACAATGCCCTCCTTGCTGGATGAGGAGCTCCTCTGCTTAGGCCCTTACTGA  
 CCCCAGCCCCACTGCTCCCAAAGAGTCACCTGGAAGTAGTCAGTGGCACCTGTTCCAGAATGAACCACCA  
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 CTCCCCAGTTTCTACCTCAAGTATGTCCAAAGCTCCACTGCCTGCTGCCTTCCCAGCTCCTGTGGTCCC  
 AGCCAGTGACCAACCCACAGCACTGGCTCCTTCACTGTTCTTCTGGACCTGCCACAGCCTTGGCTCCA  
 AAGGCTGAGCCCAAAGTCCAGAATACCCAGCTCCAGCACCTCGCACCCGCTAGATGCCCTTGATCAGC  
 TTCTGGAAGAGGCCAAAGTAACCTCAGGCTTGGTGAACCTGTTTCTTGTCTCTCCTGGGCCACTGC  
 CTCCCCGCTGCTGCCTCTGCCACAGCCAGCTCCTGCTGCCCTTCTCCACTGGGCCCGGAAGCCCT  
 CTCTCCAGTCCCAAGGACGCCCTCAGAAAGGCCAGAGCTCCTTGGCCAGTGTCCATGTGCCCTGG  
 AATCGATCAAGCCTAGCAGTGCCTTCCCGTGACAGCCTATGATAAAAATGGCTTCCGCATCCTTTTCCA  
 CTTTGCTAAGGAGTGTCGCCAGGACGGCTGATGTGCTGGTGGTGGTGGTTTCCATGCTGAATACGGCT  
 CCGTTGCCAGTCAAGAGCATAGTGTGCAGGCTGCAGTGCCTCAAGTCAATGAAAGTGAAGTTGCAGCCAC  
 CCTCTGGGACAGAATTTCCCAATTTAGTCCTATCCAGCCACCTGCAGCCATCACCCAGGTCATGCTGCT  
 GGCCAATCCAATGAAGGAAAAGGTGCGGCTTCGATATAAACTGACCTTTGCTTTGGGGGAGCAGCTGAGC  
 ACAGAACTGGGTGAAGTGGACAGTTTCTCCTGTGGAGCAGTGGGGGAACCTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >MG227071 representing NM\_173048  
 Red=Cloning site Green=Tags(s)

```
MAEAEGESLESWLNKATNPSNRQEDWEYIIGFCDQINKELEGPQIAVRLLAHKIQSPQEWAVQALTVLE
ACMKNCGRRLHNEVGKFRFLNELIKVVSPKYLGDRVSEKVKTKVIELLFSWTLALPEEAKIKDAYHMLKR
QGIVQSDPPIPMDRTLIPSPPPRPKNPVFDDEEKSKLLARLLKSKNPDDLQEANRLIKSMVKEDEARIQK
VTKRLHTLEEVENNVKLLHEMLLHYSQEYSSADKELMKELFDRCENKRRTLFLKLASETEDNDNSLGDIL
QASDNL SRVINSYKTIIEGQIVNGEVTTSTMPDSEGNHSHCGNQGALIDLAE LDAPSNSPALAPPTSGIP
ILPPPPQTSGPPRSRSSSQAEAPPGSDSTNNALSLLDEELLCLGLTDPAPTAPKESPGSSQWHLFQNEPP
SDLDFFSRPPVPAASCPDGPQLPPPVSTSSMSQAPLPAAFPAPVVPASAPTHSTGSFMFSSGPAPALAP
KAEPKGPEYSSSTSHRLDALDQLLEEAKVTSGLVKPVSFCSPGPTASPLL PASAPARPLLPFSTGPGSP
LFQSQSGPQKGPESLASVHVPLESIKPSALPVTAYDKNGFRILFHFAKECPPGRPDVLVVVVSMNLTA
PLPVKSIVLQAAVPKSMVKLQPPSGTELSPFSPIQPPAAITQVMLLANPMKEKVRRLRYKLT FALGEQLS
TELGEVDQFPPVEQWGNL
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_173048

**ORF Size:** 2154 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\\_173048.3](#), [NP\\_766636.2](#)

**RefSeq Size:** 3671 bp

**RefSeq ORF:** 2157 bp

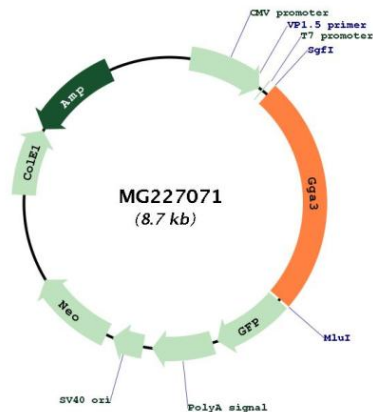
**Locus ID:** 260302

**UniProt ID:** [Q8BMI3](#)

**Cytogenetics:** 11 E2

**Gene Summary:** Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (DXXLL) motif (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG227071