

## Product datasheet for **RG232659**

### KIAA0652 (ATG13) (NM\_001205122) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | KIAA0652 (ATG13) (NM_001205122) Human Tagged ORF Clone                         |
| Tag:                      | TurboGFP                                                                       |
| Symbol:                   | KIAA0652                                                                       |
| Synonyms:                 | KIAA0652; PARATARG8                                                            |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                         |
| ORF Nucleotide Sequence:  | >RG232659 representing NM_001205122<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGTGTGTGGAGATTTCACTTAAGACTTCTGAGGGAGATTCCATGGAGCTGGAAATATGGTGTCTTGAAATGAATGAAAAGTGTGATAAGAAATCAAAGTTTCTACACGGTGTACAACAGACTGTCATTGCTGCTGAATGTCCTTCTTGTCTATACTAGGGTGACACGACCTATAGGCTCTCCAGGAAACAAGGGCATGAATATGCTATATTATACAGGATATATTTGGAGAAGTTCAGCTGAGTGGCTTAGGAGAAGGCTCCAGACAGTTCGTGTTGGGACAGTGGGCACCCCTGTGGGCACCATCACTCTTTCTGTGCTTACAGAATTAACCTGGCATTTCATGTCTACCAGGCAATTTGAGAGGACCCACCTATCATGGGGATTATTATTGATCACTTTGTGGACCGTCCCTATCCCAGCTCCTCTCCCATGCACCCCTGCAATTACAGAACTGCTGGTGAGGACACTGGAGTAATATACCGTCTGTAGAAGACTCTCAAGAAGTGTGTACCACCTCTTTTCCACCTCCCCACCATCCCAGCTGATGGTTCCTGGGAAGGAAGGTGGGGTACCCCTTGCTCCCAACCAGCCTGTCCATGGTACCCAGGCTGACCAGGAGAGACTGGCAACCTGCACCCCTTCTGACAGAACCACCTGTGCTGCCACACCTCCAGTAGTGAGGATACTGAAACCGTATCAACAGCAGTGAGGGACGGGCCTCCCTCACGATGTCTTGAGACCATCTTTGTCCGAAAGTGGGGGCTTTTGTCAACAAACCCATTAACAGGTGACCCTGACGAGTTTGGATATACCTTTGCCATGTTTGTCTCCCAAGAATTTGGAGCTGGAGGATACCGATCCAATGGTGAATCCTCCAGATTCCCAGAGACTGAATCTCCTCTCCAGGGCAGCCTGCACTCAGATGGCTCCAGCGGGGCAGCAGTGGCAATACCCATGATGACTTTGTATGATAGACTTTAAACCAGCTTTTCTAAAGATGACATTCTTCCGATGGACCTGGGGACCTTCTATCGGGAGTTTCAACCCACCTCAGCTGAGCAGCCTCTCCATAGATATTGGAGCACAGTCCATGGCTGAAGACTTGGACTCATTACCAGAGAAGCTGGCTGTGCATGAGAAGAATGTCCGCGAGTTTGATGCCTTTGTGGAACCTGCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG232659 representing NM\_001205122  
 Red=Cloning site Green=Tags(s)

MCVEISLKTSEGDMSLEIWCLEMNEKCDKEIKVSYTVYNRLSLLKSLLAITRVTPAYRLSRKQGHEYV  
 ILYRIYFGEVQLSGLGEGFQTVRVGTVPVGTITLSCAYRINLAFMSTRQFERTPPIMGIIDHFVDRP  
 YPSSSPMHPCNYRTAGEDTGVIYPSVEDSQEVCTTSFSTSPPSQLMVPKKEGGVPLAPNQPVHGTQADQE  
 RLATCTPSDRTHCAATPSSSEDTEVSNSSEGRASPHDVLETIFVRKVGAFVNKPINQVTLTSLDIPFAM  
 FAPKNLELEDTPMVNPPDSPETESPLQGSLSHSDGSSGGSSGNTHDDFVMDFKPAFSKDDILPMDLGT  
 YREFQNPPLQLSSLSIDIGAQSMAEDLDSLPEKLAVHEKNVREFDAFVETLQ

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001205122

**ORF Size:** 1203 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\\_001205122.1](#), [NP\\_001192051.1](#)

**RefSeq Size:** 5674 bp

**RefSeq ORF:** 1206 bp

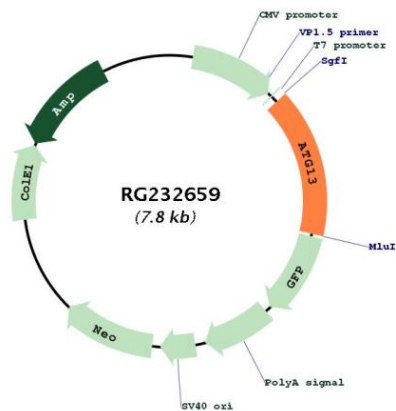
**Locus ID:** 9776

**UniProt ID:** [O75143](#)

**Cytogenetics:** 11p11.2

**Gene Summary:** The protein encoded by this gene is an autophagy factor and a target of the TOR kinase signaling pathway. The encoded protein is essential for autophagosome formation and mitophagy. [provided by RefSeq, Oct 2016]

## Product images:



Circular map for RG232659