

Product datasheet for **RG201825**

KIAA0652 (ATG13) (NM_014741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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: >RG201825 representing NM_014741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAACTGATCTCAATTCCCAGGACAGAAAGGACCTGGACAAGTTTATTAATTTTTTGCCTCAAGA
 CTGTCCAAGTGATTGTCCAGGCTCGGCTTGGTGAAGATTGCACTCGTTCATCATCTTCCAAACGGG
 TTCAGATTGGTTCAACTTAGCAATCAAGACATCCCAGAGGTTACACATGAAGCAAAGAAGGCACTGGCA
 GGACAGCTGCCTGCAGTCGGGAGGTCCATGTGTGTGGAGATTTCACTTAAGACTTCTGAGGGAGATTCCA
 TGGAGCTGGAAATATGGTGTCTTGAATGAATGAAAGTGTGATAAAGAAATCAAAGTTTCTACACGGT
 GTACAAACAGACTGTCAATTGCTGTGAAGTCCCTTCTTGTCTATAACTAGGGTGACACCAGCCTATAGGCTC
 TCCAGGAAACAAGGCGATGAATATGTCATATTATACAGGATATATTTGGAGAAGTTCAGCTGAGTGGCT
 TAGGAGAAGGCTTCCAGACAGTTCGTGTTGGGACAGTGGGCACCCCTGTGGGCACCATCACTCTTCTTG
 TGCTTACAGAAATTAAGTGGCATTGCTGTCTACAGGCAATTTGAGAGGACCCACCTATCATGGGGATT
 ATTATTGATCACTTGTGGACCGTCCCTATCCCAGCTCCTCTCCCATGCACCCCTGCAATTACAGAACTG
 CTGGTGAGGACACTGGAGTAATATACCCGTCTGTAGAAGACTCTCAAGAAGTGTGTACCACCTCTTTTTC
 CACCTCCCCACCATCCCAGCTGATGGTCTCTGGGAAGGAAGTGGGGTACCCCTTGTCTCCAACACAGCT
 GTCCATGGTACCCAGGCTGACCAGGAGAGACTGGCAACCTGCACCCCTTCTGACAGAACCCACTGTGCTG
 CCACACCCCTCCAGTAGTGAGGATACTGAAACCGTATCAACAGCAGTGAGGGACGGGCTCCCTCACGA
 TGTCTTGGAGACCATCTTTGTCCGAAAAGTGGGGGCTTTTGTCAACAAACCCATTAACCAGGTGACCCTG
 ACGAGTTTGGATATACCTTTGCCATGTTTGTCTCCAAGAATTTGGAGCTGGAGGATACCGATCCAATGG
 TGAATCTCCAGATTCCCAGAGACTGAATCTCCTCTCCAGGCGAGCCTGCACTCAGATGGCTCCAGCGG
 GGGCAGCAGTGGCAATACCCATGATGACTTTGTTATGATAGACTTTAAACCAGCTTTTCTAAAGATGAC
 ATTCTTCCGATGGACCTGGGGACCTTCTATCGGGAGTTTCAGAACCACCTCAGCTGAGCAGCCTCTCCA
 TAGATATTGGAGCACAGTCCATGGCTGAAGACTTGGACTCATTACCAGAGAAGCTGGCTGTGCATGAGAA
 GAATGTCCGCGAGTTTGATGCCTTTGTGGAACCTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG201825 representing NM_014741
 Red=Cloning site Green=Tags(s)

METDLNSQDRKDLDFIKFFALKTVQVIVQARLGEKICTRSSSSPTGSDWFNLAIKDIPVTHEAKKALA
 GQLPAVGRSMCVEISLKTSEGDSMELEIWCLEMNEKCDKEIKVSYTVYNRLSLLKSLLAITRVTPAYRL
 SRKQGHEYVILYRIYFGEVQLSGLGEGFTVVRVGTVPVGTITLSCAYRINLAFMSTRQFERTPPIMGI
 IIDHFVDRPYSPSSPMHPCNYRTAGEDTGVIPSVEDSQEVCTTSFSTSPPSQLMVPKKEGGVPLAPNQP
 VHGTQADQERLATCTPSDRTHCAATPSSSEDTETVSNSSSEGRASPHDVLETIFVRKVGAFVNKPINQVTL
 TSLDIPFAMFAPKNLEEDTDPMVNPPDSPETESPLQGSLSHSDGSSGSSGNTHDDFVMIDFKPAFSKDD
 ILPMDLGTIFYREFQNPQLSSLIDIGAQSMAEDLDSLPEKLAVHEKNVREFDAFVETLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014741

ORF Size: 1440 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_014741.4](#)

RefSeq Size: 4043 bp

RefSeq ORF: 1443 bp

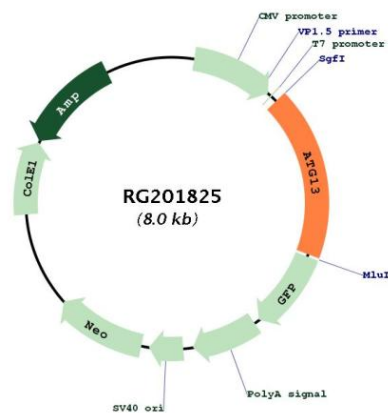
Locus ID: 9776

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 RG201825