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# Product datasheet for RC201825

## KIAA0652 (ATG13) (NM_014741) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | KIAA0652 (ATG13) (NM_014741) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | KIAA0652 |
| **Synonyms:** | KIAA0652; PARATARG8 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC201825 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAACTGATCTCAATTCCCAGGACAGAAAGGACCTGGACAAGTTTATTAAATTTTTTGCCCTCAAGA
CTGTCCAAGTGATTGTCCAGGCTCGGCTTGGTGAAAAGATTTGCACTCGTTCATCATCTTCTCCAACGGG
TTCAGATTGGTTCAACTTAGCAATCAAAGACATCCCAGAGGTTACACATGAAGCAAAGAAGGCACTGGCA
GGACAGCTGCCTGCAGTCGGGAGGTCCATGTGTGTGGAGATTTCACTTAAGACTTCTGAGGGAGATTCCA
TGGAGCTGGAAATATGGTGTCTTGAAATGAATGAAAAGTGTGATAAAGAAATCAAAGTTTCCTACACGGT
GTACAACAGACTGTCATTGCTGCTGAAGTCCCTTCTTGCTATAACTAGGGTGACACCAGCCTATAGGCTC
TCCAGGAAACAAGGGCATGAATATGTCATATTATACAGGATATATTTTGGAGAAGTTCAGCTGAGTGGCT
TAGGAGAAGGCTTCCAGACAGTTCGTGTTGGGACAGTGGGCACCCCTGTGGGCACCATCACTCTTTCTTG
TGCTTACAGAATTAACTTGGCATTCATGTCTACCAGGCAATTTGAGAGGACCCCACCTATCATGGGGATT
ATTATTGATCACTTTGTGGACCGTCCCTATCCCAGCTCCTCTCCCATGCACCCCTGCAATTACAGAACTG
CTGGTGAGGACACTGGAGTAATATACCCGTCTGTAGAAGACTCTCAAGAAGTGTGTACCACCTCTTTTTC
CACCTCCCCACCATCCCAGCTGATGGTTCCTGGGAAGGAAGGTGGGGTACCCCTTGCTCCCAACCAGCCT
GTCCATGGTACCCAGGCTGACCAGGAGAGACTGGCAACCTGCACCCCTTCTGACAGAACCCACTGTGCTG
CCACACCCTCCAGTAGTGAGGATACTGAAACCGTATCAAACAGCAGTGAGGGACGGGCCTCCCCTCACGA
TGTCTTGGAGACCATCTTTGTCCGAAAAGTGGGGGCTTTTGTCAACAAACCCATTAACCAGGTGACCCTG
ACGAGTTTGGATATACCCTTTGCCATGTTTGCTCCCAAGAATTTGGAGCTGGAGGATACCGATCCAATGG
TGAATCCTCCAGATTCCCCAGAGACTGAATCTCCTCTCCAGGGCAGCCTGCACTCAGATGGCTCCAGCGG
GGGCAGCAGTGGCAATACCCATGATGACTTTGTTATGATAGACTTTAAACCAGCTTTTTCTAAAGATGAC
ATTCTTCCGATGGACCTGGGGACCTTCTATCGGGAGTTTCAGAACCCACCTCAGCTGAGCAGCCTCTCCA
TAGATATTGGAGCACAGTCCATGGCTGAAGACTTGGACTCATTACCAGAGAAGCTGGCTGTGCATGAGAA
GAATGTCCGCGAGTTTGATGCCTTTGTGGAAACCCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC201825 protein sequence
Red=Cloning site Green=Tags(s)

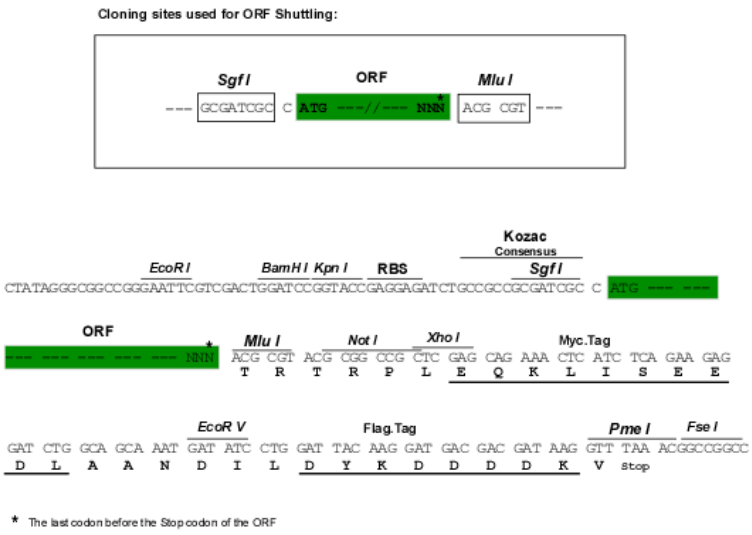
METDLNSQDRKDLDKFIKFFALKTVQVIVQARLGEKICTRSSSSPTGSDWFNLAIKDIPEVTHEAKKALA
GQLPAVGRSMCVEISLKTSEGDSMELEIWCLEMNEKCDKEIKVSYTVYNRLSLLLKSLLAITRVTPAYRL
SRKQGHEYVILYRIYFGEVQLSGLGEGFQTVRVGTVGTPVGTITLSCAYRINLAFMSTRQFERTPPIMGI
IIDHFVDRPYPSSSPMHPCNYRTAGEDTGVIYPSVEDSQEVCTTSFSTSPPSQLMVPGKEGGVPLAPNQP
VHGTQADQERLATCTPSDRTHCAATPSSSEDTETVSNSSEGRASPHDVLETIFVRKVGAFVNKPINQVTL
TSLDIPFAMFAPKNLELEDTDPMVNPPDSPETESPLQGSLHSDGSSGGSSGNTHDDFVMIDFKPAFSKDD
ILPMDLGTFYREFQNPPQLSSLSIDIGAQSMAEDLDSLPEKLAVHEKNVREFDAFVETLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6582_d11.zip

**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.

**RefSeq:** NM_014741.4

**RefSeq Size:** 5812 bp

**RefSeq ORF:** 1443 bp

**Locus ID:** 9776

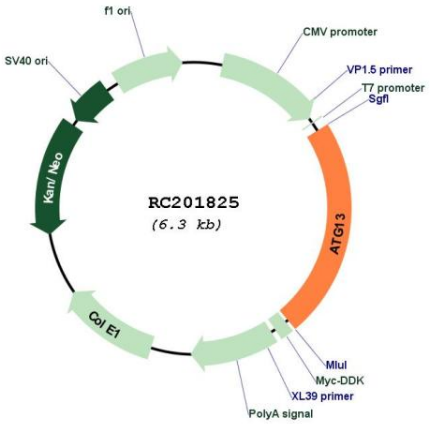
**UniProt ID:** O75143

**Cytogenetics:** 11p11.2

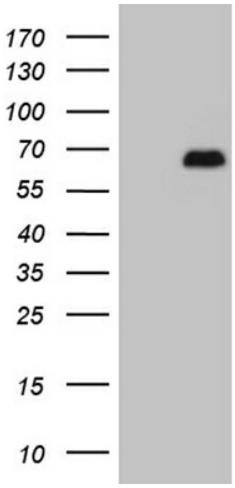
**MW:** 52.8 kDa

**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]

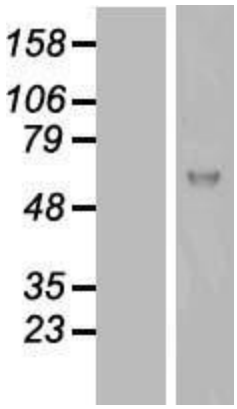
## Product images:




Circular map for RC201825




HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ATG13 (Cat# RC201825, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ATG13 (Cat# [TA810065])(1:2000). Positive lysates [LY415059] (100ug) and [LC415059] (20ug) can be purchased separately from OriGene.




Western blot validation of overexpression lysate (Cat# [LY415059]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201825 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).