OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC204062

ALG14 (NM_144988) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ALG14 (NM_144988) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ALG14
Synonyms:	CMS15; IDDEBF; MEPCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204062 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTGCGTTCTCGTTCTAGCTGCGGCCGCAGGAGCTGTGGCGGTTTTCCTAATCCTGCGAATATGGG
TAGTGCTTCGTTCCATGGACGTTACGCCCCGGGAGTCTCTCAGTATCTTGGTAGTGGCTGGGTCCGGTGG
GCATACCACTGAGATCCTGAGGCTGCTTGGGAGCTTGTCCAATGCCTACTCACCTAGACATTATGTCATT
GCTGACACTGATGAAATGAGTGCCAATAAAATAAATTCTTTTGAACTAGATCGAGCTGATAGAGACCCTA
GTAACATGTATACCAAATACTACATTCACCGAATTCCAAGAAGCCGGGAGGTTCAGCAGTCCTGGCCCTC
CACCGTTTTCACCACCTTGCACTCCATGTGGCTCTCCTTTCCCCTAATTCACAGGGTGAAGCCAGATTTG
GTGTTGTGTAACGGACCAGGAACATGTGTTCCTATCTGTGTATCTGCCCTTCTCCTTGGGATACTAGGAA
TAAAGAAAGTGATCATTGTCTACGTTGAAAGCATCTGCCGTGTAGAAACGTTATCCATGTCCGGAAAGAT
TCTGTTTCATCTCTCAGATTACTTCATTGTTCAGTGGCCGGCTCTGAAAGAAAAGTATCCCAAATCGGTG
TACCTTGGGCGAATTGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC204062 protein sequence
Red=Cloning site Green=Tags(s)

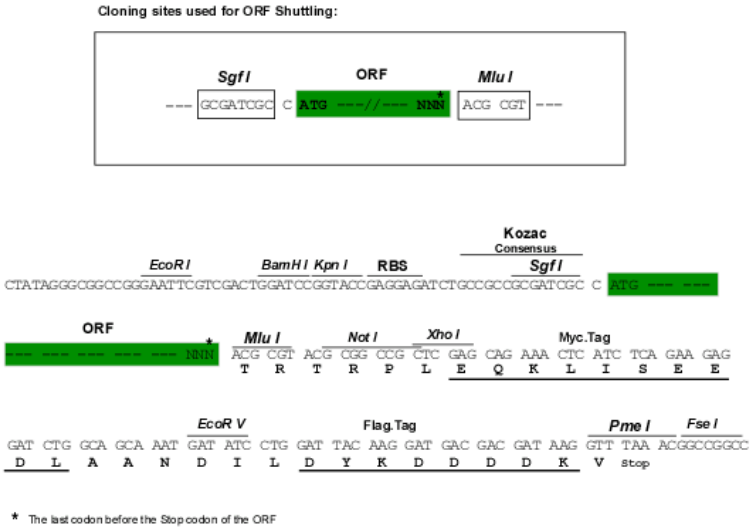
MVCVLVLAAAAGAVAVFLILRIWVVLRSMDVTPRESLSILVVAGSGGHTTEILRLLGSLSNAYSPRHYVI
ADTDEMSANKINSFELDRADRDPSNMYTKYYIHRIPRSREVQQSWPSTVFTTLHSMWLSFPLIHRVKPDL
VLCNGPGTCVPICVSALLLGILGIKKVIIVYVESICRVETLSMSGKILFHLSDYFIVQWPALKEKYPKSV
YLGRIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6422_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_144988

ORF Size: 648 bp

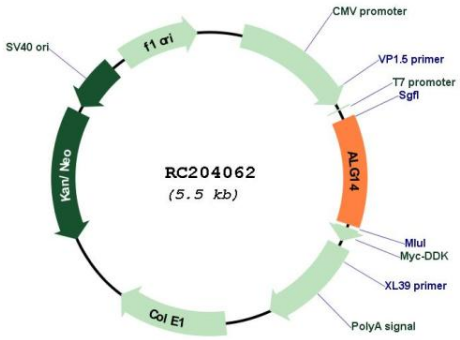
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

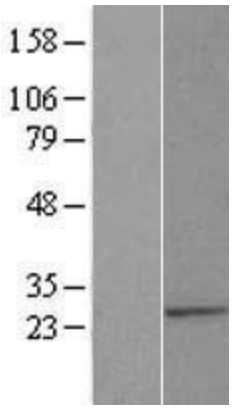
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_144988.4
RefSeq Size:	1057 bp
RefSeq ORF:	651 bp
Locus ID:	199857
UniProt ID:	Q96F25
Cytogenetics:	1p21.3
Protein Families:	Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
MW:	24.2 kDa
Gene Summary:	This gene is a member of the glycosyltransferase 1 family. The encoded protein and ALG13 are thought to be subunits of UDP-GlcNAc transferase, which catalyzes the first two committed steps in endoplasmic reticulum N-linked glycosylation. Mutations in this gene have been linked to congenital myasthenic syndrome (CMSWTA). Alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2015]

Product images:



Circular map for RC204062



Western blot validation of overexpression lysate (Cat# [LY408127]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204062 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).