

Product datasheet for **RR201139**

Alg14 (NM_001014176) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Alg14 (NM_001014176) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Alg14
Synonyms: RGD1312003
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201139 representing NM_001014176
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGCGTTCTGACTCTAGCTGCCTCGGCAGGAGGGCTAGCGGTCTTGCTAATAGTGCAGCTATGGG
CCGTGCTTCGGTCCCATCCTGTCACTCCCCGACAGTCTCTCGGACTCTTGATAGTAGCTGGATCCGGTGG
ACACACTGCTGAGATCCTGAGGCTGGTTGGAAGCTTGCCGGCGCCTACTCCCCAAGGCATTACGTCATT
GCTGAGTCTGATGAAATGAGTGCTAAGAAAATCCATTCTCTTGAACCTCGCTCGAGCCAGAACGACTCCA
CTACTGAGCACACCGAGTACTACCTTACC GAATTCGAGAAGCCGGGAGGTTCCGGCAGTCTGGCTCTC
CTCCGTGTTCACTACCTGTACTCCATATGGTTTTCTTCCCCTGGTTCACCGAATAAAGCCAGACTTG
GTGCTGTGTAATGGACCAGGAACATGTGTTCTATCTGTGTGTCTGCCCTGCTCCTGGGATCCTCGGGA
TAAAGAAAGTGATCATTGTCTACGTTGAGAGCATCTGCCGAGTGGAGACTTTGTCCTGTCTGGGAAGAT
TCTGTGGCACCTCTGATTACTTCAATTGTTCAAGTGGCCTACTCTTAAGGAGAAGTACCCCAAGTCTGTG
TACCTGGGGCAATTGTT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



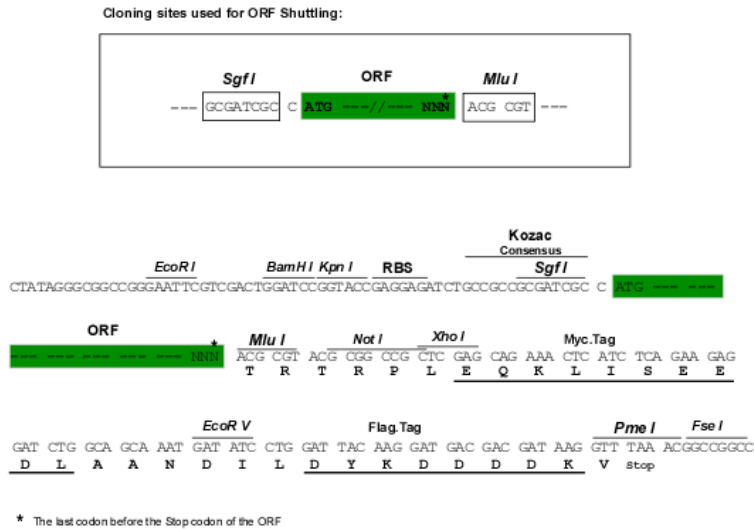
Protein Sequence: >RR201139 representing NM_001014176
 Red=Cloning site Green=Tags(s)

MVCVLTLAASAGGLAVLLIVRLWAVLRSHPVTPRQSLGLLIVAGSGGHTAEILRLVGSLSGAYSPRHVVI
 AESDEMSAKKIHSLELARAQNDSTTEHTEYYLHRIPRSREVRQSWLSSVFTLLYSIWFSPFLVHRIPDL
 VLCNPGTICVPICVSALLLILGIKKVIVVYVESICRVETLSLSGKILWHLSDYFIVQWPTLKEKYPKSV
 YLGRIV

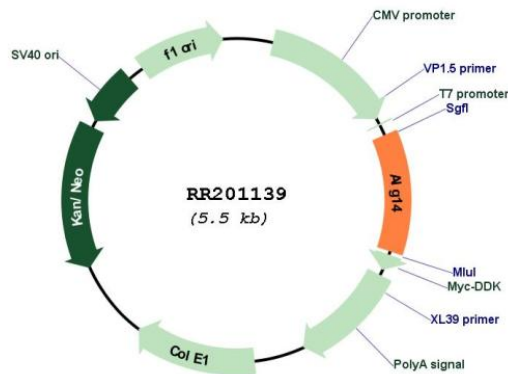
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001014176

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:	<ol style="list-style-type: none">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_001014176.2 , NP_001014198.1
RefSeq Size:	1527 bp
RefSeq ORF:	651 bp
Locus ID:	362031
UniProt ID:	Q6AY85
Cytogenetics:	2q41
MW:	24 kDa
Gene Summary:	Involved in protein N-glycosylation. Essential for the second step of the dolichol-linked oligosaccharide pathway. Anchors the catalytic subunit ALG13 to the ER (By similarity). [UniProtKB/Swiss-Prot Function]