

## Product datasheet for RC211703

### ALKAL2 (NM\_001002919) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ALKAL2 (NM\_001002919) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ALKAL2  
**Synonyms:** AUGA; FAM150B; PRO1097; RGP542  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC211703 representing NM\_001002919  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCGCGGACCCGGGACCCCTCCTCTGGGCTGCTGCTGGTCTGGGGCGGCGGGCGCGGCCGGG  
 GGGGCGCGGAGCCCCGGGAGCCGGCGGACGACAGGCGCTGCTGCGGCTGGTGGTGAACCTGCCAGGA  
 GCTGCGGAAGCACTCGGCGGAGCACAAGGGCTGCAGCTCCTCGGCGGGACTGCGCCCTGGGCCG  
 GCGGAGGCGGCGGGCTGGGCTTCGCCGAGCAGCGAGTGGAAATTGTTCTCGAGATCTGAGGATGA  
 AGGACAAGTTTCTAAACACCTTACAGGCCCTTTATTTTAGTCAAAGTGCAGCAAACACTTCCATAG  
 ACTTTATCACAACACCAGAGACTGCACCATTCCTGCATACTATAAAAGATGCGCCAGGCTTCTTACCCGG  
 CTGGCTGTCAGTCCAGTGTGCATGGAGGATAAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC211703 representing NM\_001002919  
 Red=Cloning site Green=Tags(s)

MRPGHPHLLGLLLVLGAAGRGRGGAEPREPADGQALLRLVVELVQELRKHHSAEHKGLQLLGRDCALGR  
 AEAAGLGPSPEQRVEIVPRDLRMKDKFLKHLTGPLYFSPKCSKHFRHLYHNTRDCTIPAYYKRCARLLTR  
 LAVSPVCMEDKQ

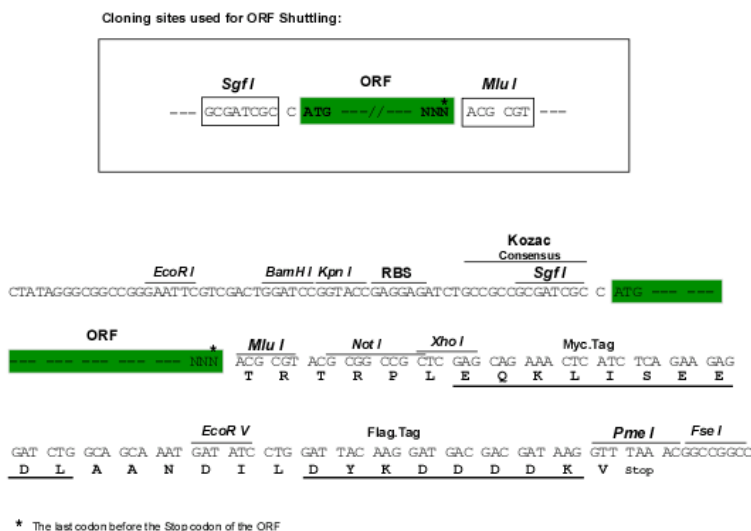
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8024\\_h06.zip](https://cdn.origene.com/chromatograms/mk8024_h06.zip)


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Restriction Sites: Sgfl-MluI

### Cloning Scheme:



ACCN: NM\_001002919

ORF Size: 456 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.

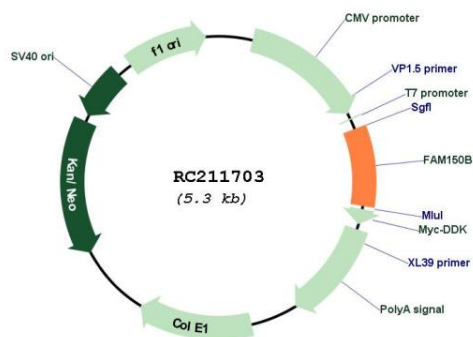
RefSeq: [NM\\_001002919.3](#)

RefSeq Size: 1403 bp

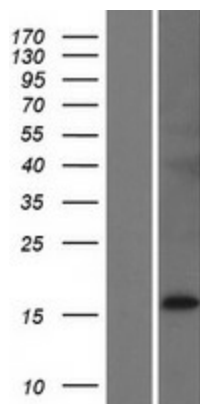
RefSeq ORF: 459 bp

**Locus ID:** 285016  
**UniProt ID:** [Q6UX46](#)  
**Cytogenetics:** 2p25.3  
**MW:** 16.7 kDa  
**Gene Summary:** Ligand for receptor tyrosine kinases LTK and ALK. Stimulation of ALK signaling may be involved in regulation of cell proliferation and transformation.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RC211703



Western blot validation of overexpression lysate (Cat# [LY424115]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).