

Product datasheet for **RG211703**

ALKAL2 (NM_001002919) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ALKAL2 (NM_001002919) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ALKAL2
Synonyms: AUGA; FAM150B; PRO1097; RGP542
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG211703 representing NM_001002919
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCGGACCCGGGCACCCCTCCTCCTGGGGCTGCTGCTGGTGGTGGGGGGCGGGCGCGCCGGG
 GGGGCGCGGAGCCCCGGGAGCCGGCGGACGGACAGGCGCTGCTGCGGCTGGTGGTGGAACTCGTCCAGGA
 GCTGCGGAAGCACCCTCGGCGGAGCACAAGGGCCTGCAGCTCCTCGGGCGGACTGCGCCCTGGGCCG
 GCGGAGGCGCGGGCTGGGCCTTCGCCGGAGCAGCGAGTGAAATTGTTCTCGAGATCTGAGGATGA
 AGGACAAGTTTCTAAAACACCTTACAGGCCCTTTATTTTAGTCAAAGTGCAGCAAACACTTCCATAG
 ACTTTATCACAACACCAGAGACTGCACCATTCCTGCATACTATAAAAGATGCGCCAGGCTTCTTACCCGG
 CTGGCTGTCAGTCCAGTGTGCATGGAGGATAAGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211703 representing NM_001002919
 Red=Cloning site Green=Tags(s)

MRPGHPHLLGLLLVLGAAGRGRGAEPREPADGQALLRLVVELVQELRKHSAEHKGLQLGRDCALGR
 AEAAGLGPSPEQRVEIVPRDLRMKDKFLKHLTGPLYFSPKCSKHFHRLYHNTRDCTIPAYYKRCARLLTR
 LAVSPVCMEDKQ

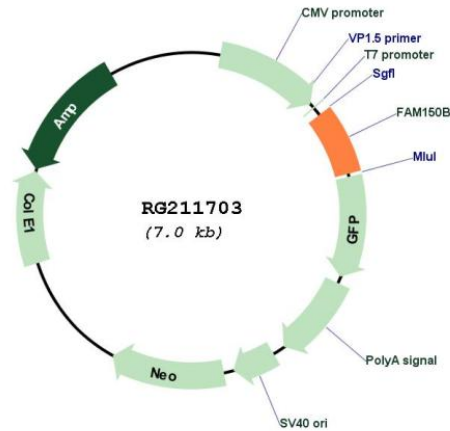
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:


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:	<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:	<u>NM_001002919.3</u>
RefSeq Size:	1403 bp
RefSeq ORF:	459 bp
Locus ID:	285016
UniProt ID:	<u>Q6UX46</u>
Cytogenetics:	2p25.3
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]