

Product datasheet for MR212455

Alkal2 (NM_001159743) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Alkal2 (NM_001159743) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Alkal2
Synonyms: 6230419C23Rik; Fam150b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR212455 representing NM_001159743
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCGCGTGTCCGGGCGCCGATGCTCCTTGCCTGCTGCTACTGCTGAGCACGGTGGGGACCGGGGAC
 GAGCGCAGTCCAGGGGCTGCAGACCGGCAAACGCTGCTGAGGTTGCTAGTTGAGCTGGTCCAGGAGCT
 GAAGAAATCCACATAGGAGACTCCAAGAGTTGCAGCTCCTTGGCGAGTCCGACTTTCCTGGGCCGC
 AGAGAGCCACGGATTATGGGGCAGACCAAGAGGAGCAGAGAGTGGAGATTGTTCTCGAGATCTAAGGA
 TGAAGGACAAGTTTCTGAAACATCTCACAGTCTCTTTATTTTCAGTCCGAAGTGCAGCAAGCACTTTCA
 CAGACTTTACCACAACACGAGAGACTGCACCATCCCCGATACTATAAAAGATGTGCCAGTTACTTACT
 CGGCTGGCGGTCAGTCCCATGTGCATGGAGAGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR212455 representing NM_001159743
 Red=Cloning site Green=Tags(s)

MRVSGRPMLLALLLLLSTVGDRGRAQSRGPADRQTLLRLLVQLKFFHIGDSKRLQLLGESDFALGR
 REATDYGADQEEQRVEIVPRDLRMKDKFLKHLTGPLYFSKPKSKHFHRLYHNTRDCTIPAYYKRCARLLT
 RLAVSPMCMER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

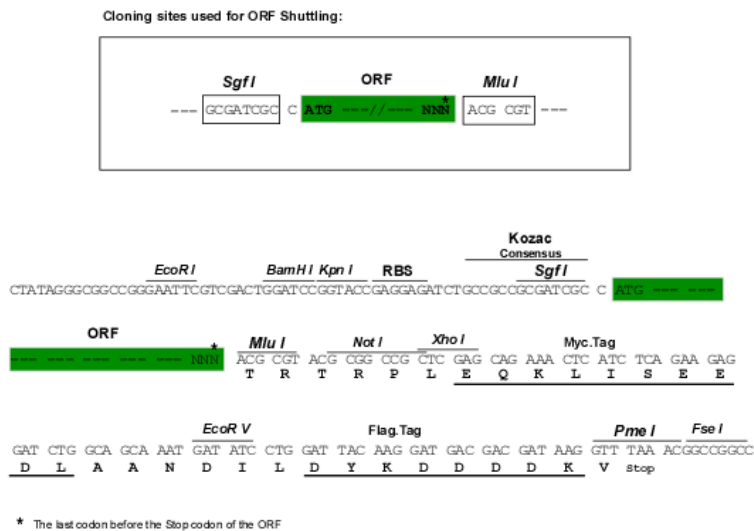
Chromatograms: https://cdn.origene.com/chromatograms/ja1580_h10.zip



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001159743

ORF Size: 453 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001159743.2](#)

RefSeq Size: 1507 bp

RefSeq ORF: 456 bp

Locus ID: 100294583

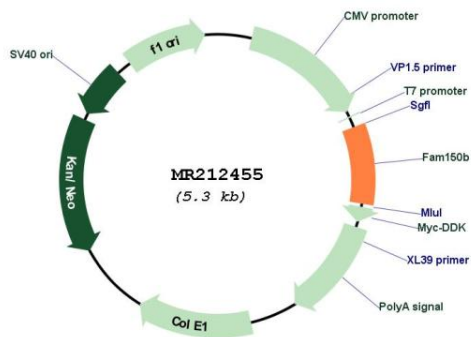
UniProt ID: [Q80UG6](#)

Cytogenetics: 12

MW: 17.9 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 MR212455