

Product datasheet for **RR213498**

Alg10 (NM_139101) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg10 (NM_139101) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alg10
Synonyms:	Alg10b; KCR1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR213498 representing NM_139101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCAGCTGGAGGGTTATTACTTCTCGGCCGCTTGAGCTGCACCTCCTGGTGTCTGCTGCTCT
 TCTCCGCCTTCAGCCGCGCTCTGCGTGAGCCTTACATGGACGAGATCTCCACCTGCCGAGGCGCAGCG
 CTA CTGCGAGGGCCGCTTCTCACTGTACAGTGGGATCCTATGATTACTACATTACCTGGCCTGTACCTG
 GTGTGGTTCGGAGTGGTCAAACCTGCCAGCTGGATCCTTGGCTGGTCTGAGCATGTCGTCTGCTCCATCG
 GAATGCTCAGATTTGTCAATCTTCTCTTCACTGTTGGCAACTTCTATTTGCTGTATTTGCTCTTCAGGAA
 GATACAGCCAGAAACAAGGCTTCTTCAAGTATCCAGAGAATCTTGTCAACATTAACCCTAGCAGTATTT
 CCAACCCTCTATTTTTTAACTTCTTTACTATACAGAAGCCGGCTCTGTATTCTTTACTCTTTTTGCTT
 ATTTGATGTGCTTTACGGCAACCATAGGACTTCGGCCTTGCTTGGGTTTTGTGGCTTCATGTTTCGTCA
 GACCAATATCATCTGGGCTGCCTTCTGTGCAGGACACATCATTGCACAGAAGTGCAGTGAAGCCTGGAAG
 ACTGAACTACAGAAGAAGAAGGAAGAGAGGCTTCCCCCGCTAAAGGACCCTCTCGGAACTCAGAAGAG
 TTCTTCAGTTTCTGCTGATGTACTCCATGTCCCTTAAGAACCTGAGTATGCTTTTCTTTTGACCTGGCC
 CTACATGCTTCTGCTGTTGGCATTCTTCTGTTTTGTGGTGGTAAATGGTGGGATTGTCGTGGGTGATCGG
 AGTAGTCATGAGGCTGCCTCCATTTTCTCAGTTGTTCTACTTCTTCTCTTTACTGCCTTTTTTCTT
 TTCTCACCTACTTTCTCCGACCAAAAGTCAAGACTTTTCTTAGCTTAGTTTGGAAACGTAGAGTTCAAGT
 CTCTGTGATTACTTTAGTCTCGGTATTTTTGGTTTGGAAATCACTTACGTCCATAAGTATTTACTGGCA
 GACAATAGGCATTACACGTTTTATGTGTGAAAAGAGTATTTAGAGACATGAAATTTGCAAGTATTTAT
 TAGTCCAGCCTACATGTTTGTGGTGGCTGTAGCTGACTTTTAAAATCAAAGTCAATTTTCTGGAA
 TTTAATGTTTTTTGTATGCTTGGTTGCTTCTACGGTTCCTCAGAACTACTAGAATTCGGTACTTCTCATT
 TTACCATACATTATTTATAGGCTCAACATGCCTCTGCCACCCATATCTAGACTTGTTTGTGAACTGGGT
 GCTATGCAGTTGTCAATTTCTAACTTTTTACATCTTTCTGAACAAGACTTTTTCAGTGGTTCGGATAGTCA
 TGACATCAAAGGTTTATGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213498 representing NM_139101
 Red=Cloning site Green=Tags(s)

MAQLEGYYFSAALSCTFLVSCLLFSAFSRALREPYMDEIFHLPQAQRYCEGRFSLSQWDPMITTLPLGLYL
 VSVGVPKASWILGWSEHVCSIGMLRFVNLFSVGNFYLLYLLFRKIQPRNKASSSIQRILSTLTLAVF
 PTLYFFNFLYYTEAGSVFFTLFAYLMCLYGNHRTSALLGFCGFMFRQTNIIWAAFCAAGHIIAQKCEAWK
 TELQKKEERLPPAKGPLSELRRVLQFLMYSMSLKNLSMLFLLTWPYMLLLLAFFVFFVNVNGGIVVGD
 SSHEACLHFPQLFYFFSFTAFFSFPHELLSPTKVKTFSLVWKRVRQFSVITLVSFVFLVWKFYVHKYLLA
 DNRHYTFYVWKRVFQRHEIVKYLLVPAYMFAWAVADSLKSKSIFWNLMFFVCLVASTVPQKLEFRYFI
 LPYIIYRLNMPLPPI SRLVCELGCYAVVNFLTFYIFLNKTFQWSDSHDIQRFMW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

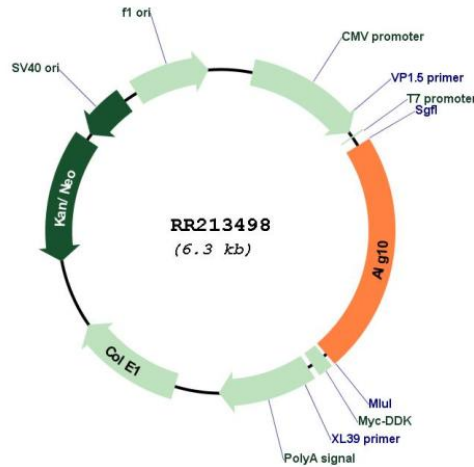
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_139101

ORF Size:

1422 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_139101.2](#), [NP_620801.1](#)

RefSeq Size: 2370 bp

RefSeq ORF: 1425 bp

Locus ID: 245960

UniProt ID: [O88788](#)

Cytogenetics: 7q35

MW: 55.6 kDa

Gene Summary: regulatory component of non-inactivating K⁺ channels [RGD, Feb 2006]