

Product datasheet for **RR202370**

Alpi (NM_022665) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alpi (NM_022665) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Alpi
Synonyms:	Alp1; S51097
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR202370 representing NM_022665
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGGAGACTGGGTGCTGCTGCTGCTTTTGGGTCTCAGGATACATCTGTCCTTTGGTGTATCCAG
 TGGAGGAGGAGAACCAGTCTTCTGGAATCAAAAGGCGAAGGAGGCCCTGGATGTTGCCAAAAGCTGCA
 GCCATTACAGACATCGGCCAAGAACCTCATCTTCTTCTGGGAGATGGGATGGGGTACCCACAGTGACA
 GCCACCAGGATACTAAAGGGACAACCTGGGTGGTATCTAGGACCTGAGACACCCCTGGCCATGGACCACT
 TCCATTACGGCTCTGTCCAAGACATAACAACGTGGACAGACAGGTCCCAGACAGTGCAGGCACAGCCAC
 CGCCTATCTGTGGGTCAAAGCCAACATAAGACCATCGGTGTGAGCGCGGCTGCTCGATTCAACCAG
 TGCAACAGCACATTTGGCAACGAGGTCTTCTCAGTGATGCACCGTCAAAGAAAGCAGGGAAAGTCTGTGG
 GCGTGGTACCAGCAGAGTGCAGCATGCCTCTCCAGCCGGCACCTACGCGCACAGGTTAACCGAGA
 CTGGTACTCGGATGCAGACATGCCTTCCCGCCCTGCAGGAGGCTGCAAGGACATCGCCACACAGCTC
 ATTTCAAACATGGACATTGATGTGATCCTTGGTGGAGGCCGAAAGTTCATGTTTCCCAAGGGGACACCAG
 ACCCTGAATACCCAGGTGACTCTGACCAGTCTGGAGTCAAGGCTGGATAGTCGGAACCTGGTGGAGGAGTG
 GCTGGCAAAATACCAGGGGACCCGGTATGTTTGGAAATCGAGAGCAGCTCATGCAGGCCTCTCAGGACCCA
 GCAGTGACTCGCCTCATGGGCCTCTTGGAGCCGGCAGAAATGAAATATGATGTCAACCGAAACGCCTCAG
 CAGACCCCTCCCTGGCAGAGATGACAGAGGTGGCCGTGCGCCTGCTGAGCAGGAATCCACAAGGCTTCTA
 CCTCTTTGTAAGGAGGTGCGTATTGACCAAGGCCACCATGCGGGCACGGCTTACCTGGCACTGACTGAG
 GCTGTCTGTTGACTCCGCCATCGAAAAGGCCAGCCAGCTTACCAATGAGAAGGACACGCTAACGCTCA
 TCACTGCGGACCACTCCCATGTCTTTGCTTTGGTGGCTATACACTTAGGGGACCTCCATCTTTGGTCT
 GGCCCCACTCAATGCCAGGATGGCAAACTCTACACCTCATTCTCTATGGCAACGGCCAGGTTATGTG
 CTTAATTCAGGCAACCGCCCAATGTCAGTGTGCGGAGAGTGGTGTCAACTACAAGCAGCAGGCGAG
 CAGTACCCTGTGCTGAGAGACCACGGTGGGAGGACGTGGCCATATTCGCGCGTGGCCACAGGCGCA
 CCTGGTGCAGGAGTGCAGGAACAGAACTACATCGCGCACGTATGGCCTTCGCGAGGCTGCCTGGAGCCC
 TACACCGACTGCGGTCTGGCGCCCTGCAGACGAGAACAGACCAACCACCCCGTCCAGAACAGTGCCA
 TCACTATGAACAATGCTCTTCTGTCCTGCAGTGTGGTGCAGCATGCTGCTGCTAGTCGGGACAGCCTT
 GTGGTGTCC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202370 representing NM_022665
 Red=Cloning site Green=Tags(s)

MQGDWVLLLLLGLRIHLSFGVIPVEEENPVFWNQAKEALDVAKKLQPIQTSAKNLIILFDGDMGVPTVT
 ATRILKGQLGGHLPETPLAMDHPFTALSKTYNVDRQVPDSAGTATAYLCGVKANYKTIQVSAARFNQ
 CNSTFGNEVFSVMHRAKKAGKSVGVVTTTRVQHASPAGTYAHTVNRDWYSDADMPSSALQEKGCKDIATQL
 ISNMDIDVILGGGRKFMFPKGTDPPEYPGSDQSGVRLDSRNLVEEWLAKYQGTRYVWNREQLMQASQDP
 AVTRLMGLFEPKEMKYDVRNASADPSLAEMTEVAVRLLSRNPQGFYLFVEGGRIDQGHAGTAYLALTE
 AVMFDSAIEKASQLTNEKDTLTLITADHSHVFAFGGYTLRGTSLIFGLAPLNAQDGKSYTSLYGNPGYV
 LNSGNRPVNTDAESGDVNYKQAAVPLSSETHGGEDVAIFARGPQAHLVHGVQEQNYIAHVMAFAGCLEP
 YTDCGLAPPADENRPTTPVQNSAITMNNVLLSLQLLVSMLLLVTALVVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_022665

ORF Size: 1620 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_022665.3](#), [NP_073156.3](#)
RefSeq Size: 2226 bp

RefSeq ORF: 1623 bp

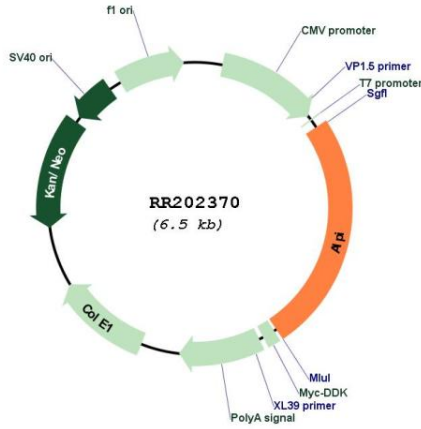
Locus ID: 24197

Cytogenetics: 9q35

MW: 58.4 kDa

Gene Summary: catalyzes the conversion of an orthophosphoric monoester to an alcohol phosphate [RGD, Feb 2006]

Product images:



Circular map for RR202370