

Product datasheet for **RG220076**

ALPK3 (NM_020778) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ALPK3 (NM_020778) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ALPK3
Synonyms: CMH27; MAK; MIDORI
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220076 representing NM_020778
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGGTGGCTTGGCTTGTCTATGTGCTGGGCCAACAGCCACTGGCGAGGCAAGGCGAGGGTCAGTCAC
 GGCTGGTGCCAGGAAGAGGGCTGGTTCTTTGGCTCCCTGGTCTCCCGCGGTCTAGCCCAAGCTGGCCAGC
 GGTTGACCTGGCTCCCCTGGCCCCGGCCAGGCCTCGTGGACCCCTCATATGCCACACGGGACATGAGCAG
 GCCGCCCGGAGCCGGTCCCAGGAGCTCCACGAAGGGGCTGTCTCCATGACCAGGACACCCGCTGCC
 CCTTCTCCCAGGCCTCCCGGCTCTCCAGACGCGGCTACTGCAGACACCAGGGCCCAAGGGAG
 CGGACTCGGAGCCGGCCCTGGGGCGGGCACATGGGCCCGCGCCCGCGGCTCCAAGCCGCGCTGC
 CCGGGTCGGGCCAGGCCAGGGGAGGGACAGCAGGTGACGACGGCCCGGCCACCGGCTATAAATAGGG
 GCGCGCTCAGCCGCGGGCGGGAGCGGGCGGGCGGGCAGGGGCCCGGGGCGGGGCTGGAGGACAGG
 CGAGGCAGCGGCGAGTGCGGGGCCGGCGGTCCGGGAGGGCGGTGCCATGGGGTCGCGGAGGGCCCCACC
 CGGGCTGGGGCGCGGTGGCGGTCCGGGGCGGGGGCGACGGTGAGGACGACGGCCCGTGTGGATCC
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 CGGGAGTACTGCAAAATCTTCGACAGAGAAGCCCGGGCCGCGCTGGCTTTGGGAGGTGCCTGAGATCA

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 GCCCTGGAGTCTTACTGTTCTCGGGAATGGGGCTGTGCTGAGGCTCCGACAGCATCTGGCAGCTCTGAG
 GCCATGCAGAAATGCCAGACCTTCCAACACTGGCTGTATCAGTGGACAAATGGCAGCTTCTTGTACAG
 ACTTGGCAGGGGTTGACTGGAAGATGACTGATGTGCAGATTGCTACCAAACCTCCGAGGATACCAGGGCT
 CAAGGAAAGCTGCTTCCCTGCCCTGTGGACCGGTTCCCTCCTCCCACCAGTGAATGCCTACTGTGAG
 CTGCTGGGGCTGACACCTCTCAAGGGCCCGGAGCGGCCACCCCAAGCCAAAGCCAAAGGCTCTAAGA
 GTCCATCTGCTGGCAGGAAAGGCTCCAGCTGAGTCCTCAGCCCCAGAAGAAAGGCTCCCTAGTCTCA
 GGCACCCGGAAGAGTGTCCAAGTTCGAAGGCCACCCCTCAGGCTCAGAGCCTCACCCTCAGTTG
 TTGGGACAGCCTCCCACCAAGAGGAGGCTCCAAGGCCAGGGCATGCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG220076 representing NM_020778
 Red=Cloning site Green=Tags(s)

MEVAWL VYVLGQQPLARQGEQSRSLVPGRGLVLWLPGLPRSSPSWPAVDLAPLAPARPRGPLICHTGHEQ
 AGREPGSSTKGPVLDHQDTRCAFLPRPPGQLTRRYCRHQGRQGSGLGAGPGAGTWAPPPGVSKPRC
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 RGWAGGRSGAGGDGEDDGPVWIPSPASRSYLLSVRPETSLSSNRLSHPSSGRSTFCIIAQLTEETQPL
 FETTLKRSVSESDVRFTCIVTGYPEPEVTWYKDDTELDRYCGLPKYEITHQGNRHTLQLYRCEEDAA
 IYQASQNSKGI VSCSGVLEVGTMTEYKIHQRWFAKLRKRAAAKLRREIEQSWKHEKAVPGEVDTLRKLS
 DRFQRKRRLSGAQAPGPSVPTREPEGGTLAAWQEGEETETAQHSLGLINSFASGEVTTNGEAPENGEDG
 EHGLLTYICDAMELGPQALKEESGAKKKKDEESKQGLRKPPELEKAAQSRSSSENCIPSSDEPDSCGTQ
 GPVGVQVQTQPRGRAARGPSSGTDSTRKPASAVGTPDKAQKAPGPGQEVYVSLKDMYLENTQAVRP
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 RGSWGPSSSLTVPAIVVEEDPGLASEGASEGEGEVSPGPGLLGASQESSMAGRLGEAGQAAPGQGP
 SAESIAQEPSQEEKFPGEALTGLPAATPEELALGARRKRF LPKVRAAGDGEATTPEERESPTVSPRGRK
 SLVPGSPGTPGRERRSPTQGRKASMLEVPRAEEELAAGDLGSPKAGGLDTEVALDEGKQETLAKPRKAK
 DLLKAPQVIRKIRVEQFPDASGSLKLCQFFNILSDSVL TWAKDQRPVGEVGRSAGDEGPAALAI VQASP
 VDCGVYRCTIHNEHGSASTDFCL SPEVLSGFI SREEGEGVEE IEMTPMVFAKGLADSGCWGDKLFGRLVS
 EELRGGGYGCLRKASQAKVIYGLEPIFESGRTCI IKVSLLVFGPSSSETSLVGRNYDVTIQGCKIQNMS
 REYCKIFAAEARAAPGFGEVPEI IPLYLIYRPANNIPYATLEEDLGKPLESYCSREWGAEAPTASGSSE
 AMQKQQTFFQHWLYQWTNGSFLVTDLAGVDWKMTDVQIATKLRGYQGLKESCFPALLDRFASSHQCNAyce
 LLGLTPLKGPEAAHPQAKAKGSKSPSAGRKGSQLSPQPQKGLPSPQGTRKSAPSSKATPQASEPVTTL
 LGQPPTQEEGSKAQGMR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	NM_020778.2 , NP_065829.2
RefSeq Size:	10914 bp
RefSeq ORF:	5118 bp
Locus ID:	57538
UniProt ID:	Q96L96
Cytogenetics:	15q25.3
Protein Families:	Druggable Genome, Protein Kinase
Gene Summary:	Involved in cardiomyocyte differentiation.[UniProtKB/Swiss-Prot Function]