

Product datasheet for **RG204408**

AK3 (NM_016282) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AK3 (NM_016282) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AK3
Synonyms:	AK3L1; AK6; AKL3L; AKL3L1; FIX
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204408 representing NM_016282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCGTCCGCGGGCTGCTGCGAGCGGTGATCATGGGGCCCCGGGCTCGGGCAAGGGCACCGTGT
CGTCGCGCATCACTACACACTTCGAGCTGAAGCACCTCTCCAGCGGGGACCTGCTCCGGGACAACATGCT
GCGGGGCACAGAAATTGGCGTGTAGCCAAGGCTTTCATTGACCAAGGGAAACTCATCCAGATGATGTC
ATGACTCGGCTGGCCCTTCATGAGCTGAAAAATCTCACCCAGTATAGCTGGCTGTTGGATGTTTTCCAA
GGACACTCCACAGGCAGAAGCCCTAGATAGAGCTTATCAGATCGACACAGTGATTAACCTGAATGTGCC
CTTTGAGGTCAATTAACAACGCCTTACTGCTCGCTGGATTATCCCGCCAGTGGCCGAGTCTATAACATT
GAATTC AACCTCCAAAACCTGTGGCATTGATGACCTGACTGGGGAGCCTCTCATTACGCGTGAGGATG
ATAAACACAGACGGTTATCAAGAGACTAAAGGCTTATGAAGACCAAAACAAGCCAGTCTGGAATATTA
CCAGAAAAAGGGGTGCTGGAAACATTCTCCGGAACAGAAACCAACAAGATTTGGCCCTATGTATATGCT
TTCCTACAAACTAAAGTTCCACAAAGAAGCCAGAAAGCTTCAGTTACTCCA

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG204408 representing NM_016282
 Red=Cloning site Green=Tags(s)

MGASARLLRAVIMGAPGSGKGTVSSRITTHFELKHLSSGDLLRDNMLRGTEIGVLAKAFIDQGKLI PDDV
 MTRLALHELKNTQYSWLLDGFRTL PQAELDRAYQIDTVINL NVPFEVIKQRLTARWIHPASGRVYNI
 EFNPPKTVGIDDLTGEPLIQREDDKPETVIKRLKAYEDQTKP VLEYQKKG VLETFSGTETNKIWPYVYA
 FLQTKVPQRSQKASVTP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016282

ORF Size: 681 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_016282.4](#)

RefSeq Size: 2642 bp

RefSeq ORF: 684 bp

Locus ID: 50808

UniProt ID: [Q9UIJ7](#)

Cytogenetics: 9p24.1

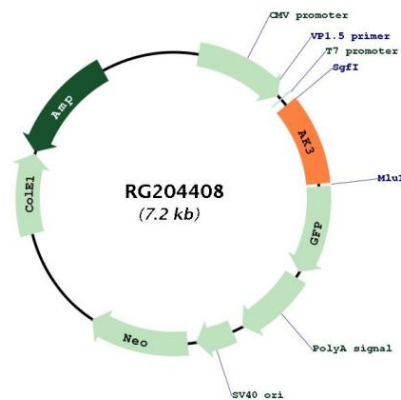
Domains: ADK, ADK_lid

Protein Families: Druggable Genome

Protein Pathways: Pyrimidine metabolism

Gene Summary: The protein encoded by this gene is a GTP:ATP phosphotransferase that is found in the mitochondrial matrix. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG204408