

Product datasheet for **RG214780**

AK6 (NM_001015891) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AK6 (NM_001015891) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AK6
Synonyms: AD-004; CGI-137; CINAP; CIP; hCINAP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG214780 representing NM_001015891
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGTCATCGAAAGCCAGGTACACCAGGGTTGGAAAAACCACACTAGGCAAAGAAGCTTGCCTCAAAT
CAGGACTGAAATACATTAATGTGGGTGATTTAGCTCGAGAAGAGCAATTGTATGATGGCTATGATGAAGA
GTATGACTGTCCATTTAGATGAAGACAGAGTAGTTGATGAGTTAGATAACCAAATGAGAGAAGGTGGA
GTTATTGTTGATTACCATGGTTGTGATTTCTCCCTGAACGCTGGTTTCATATAGTTTTTGTGCTGAGAA
CAGATACCAATGTATTGTACGAAAGACTTGAAACAAGGGTTATAATGAGAAGAACTAACAGACAATAT
TCAGTGTGAGATTTTCAAGTTCTTTATGAAGAAGCCACAGCATCTACAAGGAAGAAATCGTGCATCAG
CTGCCAGTAATAAACGAGAAGAGCTAGAAAATAATGTAGATCAGATCTTAAATGGATTGAGCAGTGGA
TCAAAGATCATAACTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG214780 representing NM_001015891
Red=Cloning site Green=Tags(s)

MCHRKPGTPGVGKTTLGKELASKSGLKYINVDLAREEQLYDGYDEEYDCPILEDDEDRVVDELDNQMREGG
VIVDYHGCDFFPERWFHIVFLRDTNVLRYERLETRGYNEKKLTDNIQCEIFQVL YEEATASYKEEIVHQ
LPSNKPEELENVDQILKWIEQWIKDHNS

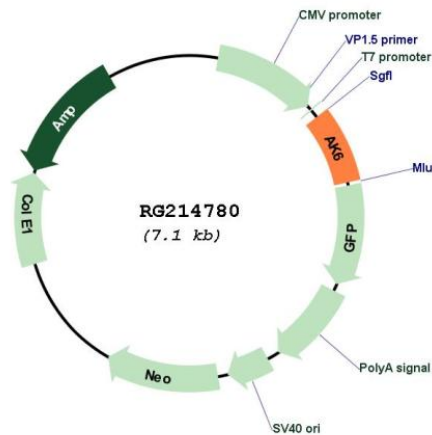
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001015891

ORF Size: 507 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:	<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:	<u>NM_001015891.2</u>
RefSeq Size:	1199 bp
RefSeq ORF:	510 bp
Locus ID:	102157402
UniProt ID:	<u>Q9Y3D8</u>
Cytogenetics:	5q13.2
Gene Summary:	This gene encodes a protein that belongs to the adenylate kinase family of enzymes. The protein has a nuclear localization and contains Walker A (P-loop) and Walker B motifs and a metal-coordinating residue. The protein may be involved in regulation of Cajal body formation. In human, AK6 and TAF9 (GeneID: 6880) are two distinct genes that share 5' exons. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]