

Product datasheet for **RR210065**

Akt1s1 (NM_001106259) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Akt1s1 (NM_001106259) Rat Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Akt1s1
 Synonyms: PRAS40
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >RR210065 representing NM_001106259
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGTCTGGGCGCCAGAGGAAGTGTGGGAAGCCGTTGTGGGTGCCGCCGAGCGCTTTCGGGCCCGCA
 CTGGCACGGAGTTGGTGTACTGACAGCAGCACCCGCCCGCCGCCAGGGCCCTGTGCCTATGC
 TGCCCATGGCCGAGGAGCCCTGGCAGAGGCCGCCCGCTGCCCTCCACGACATCGCCAGGCACACAGG
 GCTGCCACTGCCACCCGACCTCCTGGTCCCCACCAGCACACAGCCACCCAGCCCCGCTCCTAGCTCAC
 CACCTCGGCCAGCCTTGCCAGGGAGGAAGATGAGGAAGATGAAGACGAGCCACTGAAACAGAGACATC
 TGGAGAGCGGCTGGGCGGTAGCGATAATGGAGGTCTTTCATGATGGATGAGGATGCCACCCTCCAGGAC
 TTCCCCCTTCTGCGAGTCAGACCCGGAAGCACAGATGACGGCAGCCTGAGTGAGGAGACACCCGCCG
 GTCCCCAGCCTACCCAAACTCCCGGTACAGCCCTGCCTACCCAGCAGTATGCCAAGTCTCTGCCCGT
 GTCGGTGCCAGTGTGGGCCTTCAAGGAGAAGAGGACAGAAGCCCGATCGTCAGATGAGGAGAATGGCCCG
 CCCTCCTCGCCGACCTAGACCGAATAGCGGCTAGCATGCGCGCCTAGTGCTGCGGGAGGCTGAGGACA
 ATCAGGTCTTCGGGGACCTCCGCGCCCGGCTCAATACCAGCGACTTTCAGAAGCTGAAGCGAAAATA
 T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210065 representing NM_001106259
Red=Cloning site Green=Tags(s)

MASGRPEELWEAVVGAERFRARTGTELVLLTAAPPPPPRPGPCAYAAHGRGALAEAARRCLHDIAQHR
 AATATRPPGPPPAPQPPSPAPSSPPRPALAREEDEDEDEPTETETSGERLGGSDNGGLFMMDEDATLQD
 LPPFCESDPESTDDGSLSEETPAGPPAYPKLPATALPTQQYAKSLPVSVPVWAFKEKRTEARSSDEENGP
 PSSPDLDRIAASMRALVLREAEDNQVFGDLPRRLNTSDFQKLKRKY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja3342_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001106259

ORF Size: 771 bp

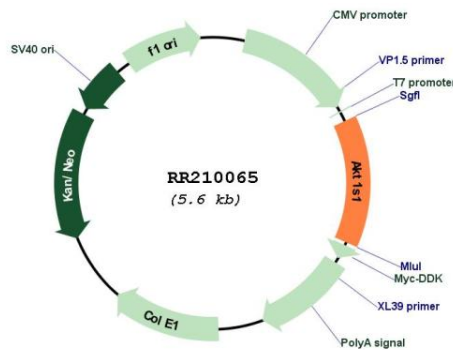
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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.

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_001106259.3, NP_001099729.2
- RefSeq Size:** 1599 bp
- RefSeq ORF:** 774 bp
- Locus ID:** 292887
- Cytogenetics:** 1q22
- MW:** 27.6 kDa

Product images:



Circular map for RR210065