

Product datasheet for **RR201042**

Akt1 (NM_033230) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akt1 (NM_033230) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akt1
Synonyms:	Akt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR201042 representing NM_033230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAACGACGTAGCCATTGTGAAGGAGGGCTGGCTGCACAACGAGGGGAATATATATAAACCTGGCGGC
 CACGCTACTTCCTCCTCAAGAATGATGGCACCTTTATTGGCTACAAGGAACGGCCTCAGGATGTGGAGCA
 GCGCGAGTCCCCACTCAACAACCTTCTCAGTGGCACAATGTCAGCTGATGAAGACAGAGCGGCCGAGGCC
 AACACCTTCATCATCCGCTGCCTGCAGTGGACCACGGTCATTGAGCGCACCTTCCATGTGAAACGCCTG
 AGGAGCGGGAAGAGTGGACCACCGCCATTCAGACTGTGGCTGATGGACTCAAACGGCAGGAGGAGGAGAC
 GATGGACTTCCGGTCAGGTTACCCAGTGACAACCTCAGGTGCTGAGGAGATGGAGGTGGCCCTGGCCAAG
 CCCAAGCACCGTGTGACCATGAACGAGTTTGTAGTACCTGAAGCTACTGGCAAGGGCACCTTTGGGAAGG
 TGATCCTGGTGAAGGAGAAGGCCACAGTCCGCTACTATGCCATGAAGATCCTCAAGAAGGAGGTCATCGT
 TGCCAAGGATGAGGTTGCCACACGCTTACTGAGAACCCTGCTCCTGCAGAACTCTAGGCATCCCTTCTCT
 ACAGCCCTCAAGTACTCATTCCAGACCCACGACCCTCTGCTTTGTTCATGGAGTACGCCAATGGAGGCG
 AGCTCTTCTTCCACCTGTCTCGTGAAGCGGTGTTTTAGAGGACCGGGCCCGCTTCTACGGTGGGAGAT
 TGTGTCCGCCCTGGACTACTTGCCTCCGAGAAGAACGTGGTGTACCGGGACCTCAAGTGGAGAACCTC
 ATGCTGGACAAGGACGGGCACATCAAGATAACGGACTTCGGGCTGTGCAAGGAGGGTATCAAGGACGGTG
 CCACATGAAGACGTTCTGCGGGACACCCGAGTACCTGGCCCCTGAGGTGCTGGAGGACAACGACTATGG
 CCGTGCAGTGGACTGGTGGGGCTGGGCGTGGTGTACGAGATGATGTGCGGCCGCTGCCCTTCTAC
 AACCAGGACCATGAGAAGCTGTTTCGAGCTCATCTAATGGAGGAGATCCGCTTCCACGCACACTCGGC
 CGGAGGCCAAGTCCCTGCTCTCGGGCTGCTCAAGAAGGACCTACACAGAGGCTCGGTGGGGCTCCGA
 GGACGCCAAGGAGATCATGCAGCACCGCTTCTTTGCCAACATCGTGTGGCAAGATGTGTATGAGAAGAAG
 CTGAGCCACCTTTCAAGCCCCAGTCCCTCTGAGACCGACACCGGATTTTTGATGAGGAGTTCACAG
 CTCAGATGATCACCATCACACCGCTGATCAAGATGACAGCATGGAGTGTGTGGACAGTGAACGGAGGCC
 GCACTTCCCCAGTTCTCTACTCAGCCAGTGGCACAGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201042 representing NM_033230
 Red=Cloning site Green=Tags(s)

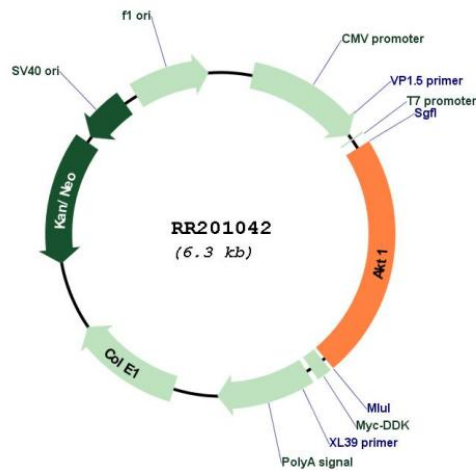
MNDVAIVKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPQDVEQRESPLNNSVAQCQLMKTERPRP
 NTFIIRCLQWTTVIERTFHVETPEEREWTTAIQTVADGLKRQEETMDFRSGSPSDNSGAEEMEVALAK
 PKHRVTMNEFEYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFL
 TALKYSFQTHDRLCFVMEYANGGELFFHL SRERVFSEDRARFYGAEIVSALDYLHSEKNVYRDLKLENL
 MLDKDGHIKITDFGLCKEIKDGATMKTF CGTPEYLAPEVLEDNDYGRAVDWWGLGVVYEMMCGRLPFY
 NQDHEKLFELILMEEIRFPRTLGP EAKSLLSGLLKKDPTQRLGGSEDAKEIMQHRFFANIVWQDVYEKK
 LSPPFPKQVTSETDTRYFDEEFTAQMITITPPDQDSDMECVDSERRPHFPQFSYASGTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:

ACCN:

NM_033230

ORF Size:

1440 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_033230.2](#), [NP_150233.1](#)

RefSeq Size: 1613 bp

RefSeq ORF: 1443 bp

Locus ID: 24185

UniProt ID: [P47196](#)

Cytogenetics: 6q32

MW: 55.7 kDa

Gene Summary: inhibits JUN kinase activation and mediates inhibition of apoptosis [RGD, Feb 2006]