

Product datasheet for **RR208375**

Akt3 (NM_031575) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akt3 (NM_031575) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akt3
Synonyms:	Pkbg
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR208375 representing NM_031575
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGATGTTACCATCGTTAAAGAAGACTGGGTTTCAGAAGAGGGGAGAATATATAAAAAATTGGAGGC
 CAAGATACTTCCTTTGAAGACAGACGGCTCATTCATAGGCTATAAAGAGAAACCTCAAGATGTGGACTT
 ACCTTATCCCCTCAACAACCTTCTCAGTGGCAAAATGTCAATTAATGAAAACAGAACGACCAAGCCAAAT
 ACATTTATTATCAGATGTCTTCAGTGGACCACTGTTATAGAGAGAACATTTTCATGTAGATACTCCAGAGG
 AAAGAGAAGAATGGACAGAAGCTATCCAAGCTGTAGCCGATCGACTGCAGAGGCAAGAAGAGGAGAGGAT
 GAATTGTAGTCCAACGTCACAGATTGATAATATTGGAGAGGAAGAGATGGATGCATCTACAACCCATCAT
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 GGATGAAGTGGCACATACTCTGACTGAGAGCAGAGTTCTAAAGAACACCAGACATCCATTCTAACATCC
 TTGAAATATTCCTTCCAGACAAAAGACCGTTTGTGTTTTGTGATGGAATATGTTAATGGGGGAGAGCTGT
 TTTTCCATTTGTGCGAGAGAGCGGGTCTCTGAGGACCCACACGTTTCTATGGTGCAGAAATTGTCTC
 TGCTTTGGACTATCTACATTCTGGAAAGATTGTGTACCGAGATCTCAAGTTGGAGAATTTGATGCTAGAT
 AAGGATGGCCATATAAAATTACGGATTTTGGACTTTGCAAAGAAGGGATCACAGATGCAGCTACCATGA
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 GGACTGGTGGGCGCTAGGTGTTGCATGTATGAAATGATGTGTGGGAGGTTGCCTTTCTACAACCCAGGAT
 CATGAGAAACTCTTTGAACTAATACTCATGGAAGACATCAAATCCCCCGAACACTCTCTTCAGATGCAA
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 CCTTTTAAAGCCTCAAGTAAACATCTGAGACAGACACCAGATATTTTCGATGAAGAATTTACAGCTCAGACTA
 TTACAATAACACCACCTGAAAAGTGTCCACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208375 representing NM_031575
 Red=Cloning site Green=Tags(s)

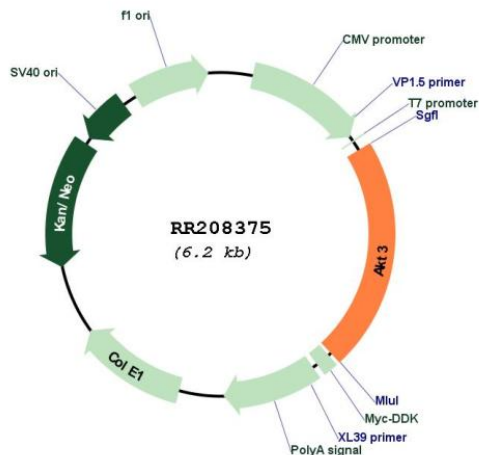
MSDVTIVKEDWVQKRGEYIKNWRPRYFLKTDGSGFIGYKEKPQDVLPYPLNNSVAKCQLMKTERPKPN
 TFIIRCLQWTTVIERTFHVDTPEREWEAEIQAVADRLQRQEEERMNCSPTSQIDNIGEEEMDASTTHH
 KRKTMNDFDYLKLLGKGTFGKVLVREKASGKYAMKILKKEVIAKDEVAHTL TESRVLKNTRHPFLTS
 LKYSFQTKDRLCFVMEYVNGGELFFHLSRERVFSEDRTRFYGAEIVSALDYLHSGKIVYRDLKLENMLD
 KDGHIKITDFGLCKEGITDAATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQD
 HEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLLGGPDDPKEIMRHSFFSGVNWQDVYDKKLV
 PFKPQVTSETDTRYFDEEFTAQITITIPPEKCPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_031575

ORF Size: 1362 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_031575.1](#), [NP_113763.1](#)

RefSeq Size: 1548 bp

RefSeq ORF: 1365 bp

Locus ID: 29414

UniProt ID: [Q63484](#)

Cytogenetics: 13q25

MW: 52.8 kDa

Gene Summary: kinase that associates with both protein kinase C subspecies and beta gamma subunits of G proteins [RGD, Feb 2006]