

Product datasheet for MC205969

Akt3 (BC066861) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akt3 (BC066861) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akt3
Synonyms:	AI851531; D930002M15Rik; Nmf350
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC066861

```
GCAAAGCACCATTCTCCAAGTTGGGGGCTCAGAGGGGACCATCATGAGCGATGTTACCATTGTGAAA
GAAGGTTGGGTTTCAAGAGAGGGAGAATATATAAAAACTGGAGGCCAAGATACTTCCTTTGAAGACAG
ATGGCTCATTATAGGCTATAAGGAGAAACCTCAAGATGTGGACTTACCTTATCCCTCAACAACCTTCTC
AGTGGCAAAATGTCAGTTAATGAAAACAGAACGACCAAAGCCAAATACATTTATTATCAGATGTCTTCAG
TGGACCACTGTTATAGAGAGAACATTTTATGTAGATACACCAGAGGAAAGAGAAGAGTGGACGGAAGCTA
TCCAAGCCGTAGCCGACCGATTGCAGAGGCAAGAGGAGAGGATGAATTGTAGCCAGCCTCACAGAT
TGATAATATAGGAGAAGAAGAGATGGATGCGTCTACAACCCATCATAAAAGAAAGACGATGAATGATTTT
GACTATTTGAAACTACTAGGTAAGGCCTTTTGGGAAAGTTATTTTGGTTCGAGAGAAGGCAAGTGAA
AATACTATGCTATGAAGATTCTGAAGAAAGAAGTCAATTATTGCAAAGGATGAAGTGGCACACACTTTAC
TGAAAGCAGAGTACTAAAGAACCAGACATCCATTTTTAACATCCTTGAATATTCCTTCCAGACAAAA
GACCGTTTGTGTTTTGTGATGGAATATGTTAATGGCGGAGAGCTGTTTTCCATTTGTCGAGAGACGGAG
TGTTCTCTGAGGACCGCACACGTTTCTATGGTGCAGAAATTGTCTCTGCTTTGGACTATCTACATTTCTGG
AAAGATTGTGTACCGTATCTCAAGTTGGAGAATTTGATGCTAGATAAGGATGGCCATATAAAAAATTACG
GATTTTGGGCTTTGCAAAGAAGGATCACAGATGCAGCTACCAATGAAGACATTCTGTGGCACACCAGAGT
ACCTGGCACAGAGGATTAGAAGATAATGACTATGGCCGAGCCGTGGACTGGTGGGGCTTAGGTGTTGT
CATGTATGAAATGATGTGTGGAAGGTTGCCTTTCTACAACCAGGATCATGAGAACTCTTTGAATTAATA
CTAATGGAAGACATTAATTTCCCCGAACACTCTCTTTCAGATGCAAAATCATTGCTTTTCAGGCTCTTGA
TAAAGGATCCAAATAAACGCCTTGGTGGAGGGCCAGATGATGCAAAAGAAATCATGAGGCATAGTTTTTT
TTCTGGAGTAAACTGGCAAGATGTATATGACAAAAGCTTGTACCTCCTTTTAAGCCTCAAGTAAACATCT
GAAACAGACACCCGATATTTTGTGAAGAATTTACAGCTCAGACTATTACAATAACACCCTGAAAAGT
ATGACGACGACGGCATGGACGGCATGGACAGCGAGCGGCCACACTTCCCTCAGTTCTCTACTCTGC
AAGCGGACGGGAATAAGTTCCCTTTCAGTCTGTTTCTACACTGTCTCTTAGACTTTGCCTGAGACTGATT
CCTGGACATCTCTACCAGTCTCGCTCTTACAGTTAGCAGGGGCACCTTCTGACATCCCTGACCAGCCAA
GGGTCTTACCCTCACCACCTTTCACTCACATGAAACCATATACAGACACTCCAGTTTTGTTTTGCA
TGAATTTGATCTCAGTCTAAGGCTCATGCTGTTGCTGCTACTGTCTTACTATTATAGCAACCTTCAGA
AGTAATTTCACAATCTTTGGGAGTCATGAGCCATTGTTCAATTTGTGCATCAAGTGCATCTTTTGGTTT
```



[View online »](#)

```

TTGGTTTTCCCTAGCAGTGAAGGCTAAATGAGATACACTGATTCTAGGTACATTGTTAACTTTCTAGGAG
ATAAATCAAGAACTAATTAGACTAAGAAGATTTAGTTTATATTTCTGAACAAGCAATTGTTGAAGGGTGG
TGGTGTGTGTATGTAAGAGTTTAGCAGTGTATGTCTGACCAGCACATGAAGTGTGTATCACTGACATTTG
GCTGGAAAATCTTAGGAAACATTGAGAGGACTGAAGGGCCAATGAGATACACATTTTTTTTTTTTTAAAT
CCTGCTGGCTATTGTGGAGGAAGCCAGTGCCACCCATGGATGCCAGGTTTCAAGGGCAAATGGACATT
GTTCAACCAAGTACTGACGGTGCAGAGTCCCCTAGAGAGTCTTAGGATCTACTTTGTACCAGAGATATT
TTCCCTGGGCTTGGCAACCTTTTTCCCTTCTTTATATTTATCACCTCTGATGGCTGAAGAATGTAGACA
GTATAATGATCCTGCTGTCGCCAAAATCTATACCCAAGGTGAACAGGTGTTGCTTACCAGTTTTGGA
GTTTTTACTTTACAGTTATAGGTAATAGCTTTTTCTCAGATGTTAAAACCTTGAATGTCCTTTATGGTT
TTGTTTATATTACAGTAGTATTTATTTTTAGTGGTAAGAATTGTGTTGCATGTAGCAAGCGCAGCTC
CAATTCACAGATCATTGCCTGCTTTTTCTTTGACCCATGTGCAAGGAATGTACACACCCATTAGAATCA
TGCATTTTTCTCCTATGTTAAAAACAATGGTAAGGCTCTGGGACTGTATCTGTTGGTTAGAATCTGGCT
AGAATCTCTGGGAGAAGAGATGCTGTGATTTAACCCCTGGAGCTGAAATGAGAGCATCCCCAACTACCC
AGTGCCAAGGGATGGATGTGAGAGGATAGTCTGGCAGAAAATGATGGAGAAAGCTGAGACCCAAATGATG
ATGAGAAATGAACTCTACTCGGCAAAATGAACACATCACAAGTATTCACACAGTAGGAAGTAAAGGATAA
GAAGCTGATGTGTTTATTCTTATCAAGGTACATTCATTACTGAATCAAGCCATCAGGGAAAAACAACAAA
CAAACACCTCTAGCTTTTATTTTTCTGTACATATTCATGTCTCCCAACCCAAACATTTCTCACTGAGAG
GGGACATGTATGCAAACCTCATTTTCTCCTTCATTAATGATGATCTTCAGATTAACCCTTTGGTGTAG
GAGCTGACACTTTCCAAAGCAGACTATGACGTCCAAGGATCAAAGCCTCTCTTGCAGCAAGCAAGAGCAA
CTGCTGCTCCAAGGCGTATCATGGAAGTGAAGACCACAGTGTGACACAGTGGTACTGCATTGTCTTTT
TCAGTAGGAAGTCATGTTCTCATGCAAGTGTCTTGGCCTCTAGGCTCAGACTTAGAGAAGCAGAGCCGCT
GCTGGCAGTGGCTGGCCGCTGGGACTGCTGGGGTGAAGGGCATTTCCTAAGGCAGCTAAGACAGACT
CAGACATAGATTTTTGTCCTAATTTTTTCATGTTTCTACCTGGGTGAGTTACCCTCAGTGGGAAGTAGGA
AGTTAAACAGGTGATTCTTACATCTGCTGCTTCTGTTTTCTACATAGAAGTATGTTGAATGTTGCAC
ATTGACAAGGAAGTAGATTAGATGGTAAGTCTTTTAAAGTTACCCTGCATCCATTCTGTAAGAAAGGAGG
AGGAGAGGAAGAAAAGCAAGCTGAGCCTGGCCGATGTTTCAAGCAATTTACTCCCTCAGAGGGAGCAGACA
CTGTACACTAAGCACACAGCTTCTTTTGTGTTTGTCTCTCCTTCAAGTCTTAAGGTAATTTTATGACCTT
GGCCAAGGATACTTTGTGAAGATTAATGAGGGGACATTGACAATGCCTCAGGCTGGCCACTCCTCACACT
GGCCCTTGGTCCCAGCCATTCAAGGGTTACTCATCCCATCCCTGACTACCTGAGTGTCACTACAGGTG
GGTTCTTGGCTTTGAGTCAAGAATTCTTCTTACACCCTCCACCAGATGTCAGTGAAAGGCAGAAGT
AGAACCGAGGTGTGGGAGGAGATTCTAAAAGCTTGTGTTGCCAGGCCTTAGCTTAGGGTTCTGGCAAT
TGAGACGGCTGAAACCTGACAGCATCATGTCCGGCAGCTCTGGCTTTGTGAGTCCAGCTCCTACCAAC
TCCACCTTGACCTTGTCTCCATGCAGGGCTGTCTGGGAGGAAACTGGCCACTTCTGCTCAGACTGCTG
CCAGCGCTCTCACAGCTTGTCTCTACACTAATGACATAGATTATCCAGTATTGTTCCATTTCCACAC
CTGACCTCCAGCTTCTCGGAGCTGACTTCTTGCAGGGGCCACATGCTTCTTTCCCTCACTAACTGCAGGG
TCTCCACCACACCTCAGTGTACACACTTTGCTGCTACCGTCTGTACTGTCTACATCACGGTTCCTTAGC
TTGCTCCTGGTAGTGATTACAGGCAAGCATGAAATGTAAGTATTTATTTAAATAAAAAGGAAACCTCT
GAATGGTTCATCGAGTCACTCCCTGTAGATTTGTAGTCTGTGACATATTTGACTTTCTAGTCTGTGTA
GATCCATAAAGATCTGGTCATCTGGTTAAGGTTTGAAGCAGACATAGCTATGAACCCGGATGGTATCA
TCACTGTACGGCTGGCCACACTACAGATGTTTATGTCCTTACGTTTATGACCCACAGGGTGTGAAGTAA
CTTCCAAGAACCTGATTTGTACTACTGTCCACTCTCAGCATCTCACACTCTGTATAGGGACACACATTA
CTTCTTGTACAGACAGCTTAAATAAAGCCCTATGTCAATCTGCAAAAAAAAAAAAAAAAAA

```

Restriction Sites:

RsrII-NotI

ACCN:

BC066861

Insert Size:

1440 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	BC066861 , AAH66861
RefSeq Size:	4751 bp
RefSeq ORF:	1440 bp
Locus ID:	23797
Cytogenetics:	1 H4
Gene Summary:	<p>AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. Required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.[UniProtKB/Swiss-Prot Function]</p>