

Product datasheet for **SC329833**

AKT3 (NM_001206729) Human Untagged Clone

Product data:

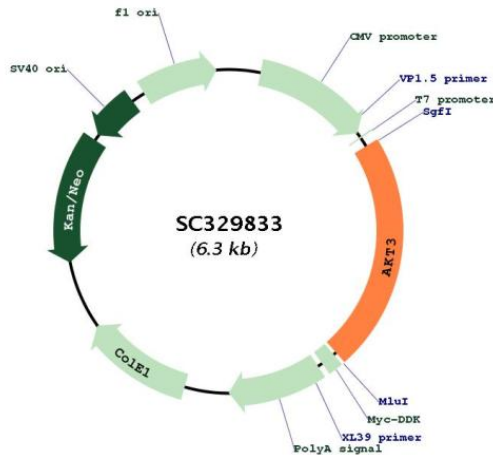
Product Type: Expression Plasmids
Product Name: AKT3 (NM_001206729) Human Untagged Clone
Tag: Tag Free
Symbol: AKT3
Synonyms: MPPH; MPPH2; PKB-GAMMA; PKBG; PRKBG; RAC-gamma; RAC-PK-gamma; STK-2
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC329833 representing NM_001206729.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGAGCGATGTTACCATTGTGAAAGAAGGTTGGGTTCCAGAAGAGGGGAGAATATATAAAAACTGGAGG
CCAAGATACTTCTTTGAAGACAGATGGCTCATTATAGGATATAAAGAGAAACCTCAAGATGTGGAT
TTACCTTATCCCCTCAACAACCTTTTCAGTGCCAAAATGCCAGTTAATGAAAACAGAACGACCAAAGCCA
AACACATTTATAATCAGATGTCTCCAGTGGACTACTGTTATAGAGAGAACATTTTCATGTAGATACTCCA
GAGGAAAGGGAAGAATGGACAGAAGCTATCCAGGCTGTAGCAGACAGACTGCAGAGGCAAGAAGAGGAG
AGAATGAATTGTAGTCCAACCTTCACAAATTGATAATATAGGAGAGGAAGAGATGGATGCCTCTACAACC
CATCATAAAGAAAGACAATGAATGATTTTGGACTATTTGAACTACTAGGTAAAGGCACTTTTGGGAAA
GTTATTTTGGTTTCGAGAGAAGGCAAGTGGAAAATACTATGCTATGAAGATTCTGAAGAAAGAAGTCATT
ATTGCAAAGGATGAAGTGGCACACACTCTAACTGAAAGCAGAGTATTAAGAACAAGTAGACATCCCTTT
TTAACATCCTTGAATAATTCCTCCAGACAAAAGACCGTTTGTGTTTTGTGATGGAATATGTTAATGGG
GGCGAGCTGTTTTCCATTTGTCGAGAGAGCGGGTGTCTCTGAGGACCGCACACGTTTCTATGGTGCA
GAAATTGTCTCTGCCTTGGACTATCTACATTCGGAAAGATTGTGTACCGTGATCTCAAGTTGGAGAAAT
CTAATGCTGGACAAAGATGGCCACATAAAAATTACAGATTTTGGACTTTGCAAAGAAGGGATCACAGAT
GCAGCCACCATGAAGACATTTCTGTGGCACTCCAGAATATCTGGCACCAGAGGTGTTAGAAGATAATGAC
TATGGCCGAGCAGTAGACTGGTGGGCCCTAGGGGTTGTCATGTATGAAATGATGTGTGGGAGGTTACCT
TTCTACAACCAGGACCATGAGAACTTTTTGAATTAATTAATGAAGACATTAATTTTCTCGAACA
CTCTCTTCAGATGCAAAATCATTGCTTTTCAGGGCTCTTGATAAAGGATCCAAATAAACGCCTTGGTGGA
GGACCAGATGATGCAAAAGAAATATGAGACACAGTTTCTCTCTGGAGTAACTGGCAAGATGTATAT
GATAAAAAGCTTGTACCTCCTTTTAAACCTCAAGTAACATCTGAGACAGATACTAGATATTTTGTGAA
GAATTTACAGCTCAGACTATTACAATAACACCACCTGAAAATGTCAGCAATCAGATTGTGGCATGCTG
GGTAACTGGAAAAATAA
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001206729

Insert Size: 1398 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:

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_001206729.1](#)

RefSeq Size: 1584 bp

RefSeq ORF: 1398 bp

Locus ID: 10000

UniProt ID: [Q9Y243](#)

Cytogenetics:	1q43-q44
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase
Protein Pathways:	Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Melanoma, mTOR signaling pathway, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Progesterone-mediated oocyte maturation, Prostate cancer, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Tight junction, Toll-like receptor signaling pathway, VEGF signaling pathway
MW:	54 kDa
Gene Summary:	<p>The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3) differs in the 3' UTR and 3' coding region, compared to variant 1. The resulting isoform (2) is shorter and has a distinct C-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform (2).</p>