

Product datasheet for SC110105

AKT3 (NM_005465) Human Untagged Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	AKT3 (NM_005465) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKT3
Synonyms:	MPPH; MPPH2; PKB-GAMMA; PKBG; PRKBG; RAC-gamma; RAC-PK-gamma; STK-2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_005465 edited ATGAGCGATGTTACCATTGTGAAAGAAGAGTTGGGTTCAGAAGAGGGGAGAATATATAAAAA AACTGGAGGCCAAGATACTTCCTTTTGAAGACAGATGGCTCATTCAT



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GRIGENE AKT3 (NM_005465) Human Untagged Clone – SC110105

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005465 unedited CTATAGGGCGGCCGCGAATTCGCACGAGGCCAAACCCTAAAGCTGATATCACAAAGTACC ATTTCTCCAGTTGGGGGGCTCAGAGGGGAGTCATCATGAGCGATGTTACCATTGTGAAAGA
	AGGTTGGGTTCAGAAGAGGGGAGAATATATAAAAAACTGGAGGCCAAGATACTTCCTTTT
	GAAGACAGATGGCTCATTCATAGGATATAAAGAGAAACCTCAAGATGTGGATTTACCTTA TCCCCTCAACAACTTTTCAGTGGCAAAATGCCAGTTAATGAAAACAGAACGACCAAAGCC
	AAACACATTTATAATCAGATGTCTCCAGTGGACTACTGTTATGAAAACAGACGACGAAGGC
	AGATACTCCAGAGGAAAGGGAAGAATGGACAGAAGCTATCCAGGCTGTAGCAGACAGA
	GCAGAGGCAAGAAGAGGAGAGAATGAATTGTAGTCCAACTTCACAAATTGATAATATAGG AGAGGAAGAGATGGATGCCTCTACAACCCATCATAAAAGAAAG
	CTATTTGAAACTACTAGGTAAAGGCACTTTTGGGAAAGTTATTTTGGTTCGAGAGAAGGC
	AAGTGGAAAATACTATGCTATGAAGATTCTGAAGAAAGAA
	ATCCTTGAAATATTCCTTCCAGACANAAGACCGTTTGTNGTTTGTGATGGAAATATGTAA
	TGGNGGGCGAGCTGNTTTTCCATTTGTCGAGAGAAGCGGTGGTCTCTNGAGACCGCACAC
Restriction Sites:	GTTTCTATGG NotI-NotI
ACCN:	NM_005465
Insert Size:	5000 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts
On Discidimer.	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 <u>custsupport@origene.com</u> 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. <u>More info</u>
Componentes	
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.
Reconstitution Method.	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:	<u>NM 005465.3, NP 005456.1</u>
RefSeq Size:	3588 bp
RefSeq ORF:	1440 bp

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Locus ID:	10000
UniProt ID:	<u>Q9Y243</u>
Cytogenetics:	1q43-q44
Domains:	pkinase, S_TK_X, TyrKc, PH, S_TKc
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
Gene Summary:	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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.

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