

Product datasheet for **RG200919**

PRAS40 (AKT1S1) (NM_032375) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRAS40 (AKT1S1) (NM_032375) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PRAS40
Synonyms:	Lobe; PRAS40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200919 representing NM_032375 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCGGGGCGCCCCGAGGAGCTGTGGGAGGCCGTGGTGGGGCCGCTGAGCGCTTCCGGGCCCGGA
CTGGCACGGAGCTGGTGTCTGCTGACCGCGGCCCGCCGCCACCACCCCGCCGGGCCCTGTGCCTATCC
TGCCCATGGTCGAGGAGCCCTGGCGGAGGCAGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGG
GCTGCCACTGCTGCTCGGCTCCTGCGCCCCACCAGCACACAGCCACCCAGTCCACACCCAGCCAC
CCCGGCCTACCTGGCCAGAGAGACAACGAGGAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGG
GGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTTGTGATGGATGAGGACGCCACCTCCAGGACCTT
CCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGCAGCCTGAGCGAGGAGACCCCGCCGGCC
CCCCACCTGCTCAGTGCCCCAGCCTCAGCCCTACCCACACAGCAGTACGCCAAGTCCCTGCCTGTGTC
TGTGCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTTCATCAGATGAGGAGAAATGGGCCGCC
TCTTCGCCCGACCTGGACCGCATCGCGGCAGCATGCGCGCGTGGTGTGCGAGAGGCCGAGGACACCC
AGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGGAAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200919 representing NM_032375
 Red=Cloning site Green=Tags(s)

MASGRPEELWEAVVGAERFRARTGTELVLLTAAPPPPPRPGPCAYPAHGRGALAEAARRCLHDIALAHR
 AATAARPPAPPAPQPPSPTSPPPRPTLAREDNEDDEPTETETETSGEQLGISDNGGLFVMDEDATLQDL
 PPFCESDPESTDDGSLSEETPAGPPTCSVPPASALPTQYAKSLPVSVVWGFKEKRTEARSSDEENGPP
 SSPDLDRIAASMRALVLREAEDTQVFGDLPRPRLNTSDFQKLKRY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_032375

ORF Size: 768 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_032375.2](#), [NP_115751.1](#)

RefSeq Size: 2344 bp

RefSeq ORF: 831 bp

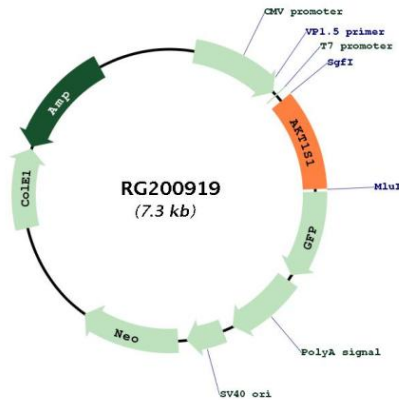
Locus ID: 84335

UniProt ID: [Q96B36](#)

Cytogenetics: 19q13.33

Gene Summary: AKT1S1 is a proline-rich substrate of AKT (MIM 164730) that binds 14-3-3 protein (see YWHAH, MIM 113508) when phosphorylated (Kovacina et al., 2003 [PubMed 12524439]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG200919