

Product datasheet for **RG211995**

PRAS40 (AKT1S1) (NM_001098632) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	PRAS40
Synonyms:	Lobe; PRAS40
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211995 representing NM_001098632
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGTCGGGGCGCCCCGAGGAGCTGTGGGAGGCCGTGGTGGGGCCGCTGAGCGCTTCCGGGCCCGGA
CTGGCACGGAGCTGGTGTCTGTGACCGCGGCCCGCCGCCACCCCGCCCGGCCCTGTGCCTATGC
TGCCCATGGTCGAGGAGCCCTGGCGGAGGCAGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGG
GCTGCCACTGCTGCTCGGCCTCTGCGCCCCACCAGCACACAGCCACCCAGTCCACACCCAGCCAC
CCCGGCCTACCCTGCCAGAGAGGACAACGAGGAGGACGAGGATGAGCCACAGAGACAGAGACCTCCGG
GGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTTGTGATGGATGAGGACGCCACCCTCCAGGACCTT
CCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGCAGCCTGAGCGAGGAGACCCCGCCGCC
CCCCACCTGCTCAGTGCCCCAGCCTCAGCCCTACCCACACAGCAGTACGCCAAGTCCCTGCTGTGTC
TGTGCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTATCAGATGAGGAGAATGGGCCGCC
TCTTCGCCCCGACCTGGACCGCATCGCGGCAGCATGCGCGCGCTGGTGTGCGAGAGGCCGAGGACCC
AGGTCTTCGGGGACCTGCCACGGCCGCGGCTTAACACCAGCGACTTCCAGAAGCTGAAGCGGAAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



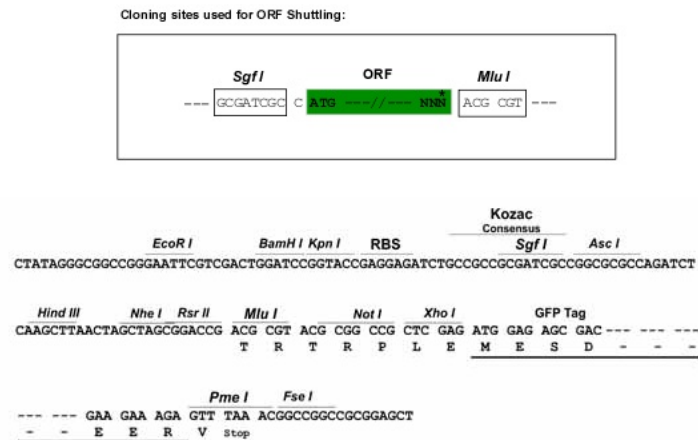
Protein Sequence: >RG211995 representing NM_001098632
 Red=Cloning site Green=Tags(s)

MASGRPEELWEAVVGAERFRARTGTELVLLTAAPPPPPRPGPCAYAAHGRGALAEAAARRCLHDI LAHR
 AATAARPPAPPPAPQPPSPTSPPPRTLAREDNEDDEPTETETSGEQLGISDNGGLFVMD EATLQDL
 PPFCESDPESTDGSLSEETPAGPPTCSVPPASALPTQQYAKSLPVSVPVWGFKEKRTEARSSDEENGPP
 SSPDLDRIAASMRALVLREAEDTQVFGDLPRPRLNTSDFQKLKRKY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001098632

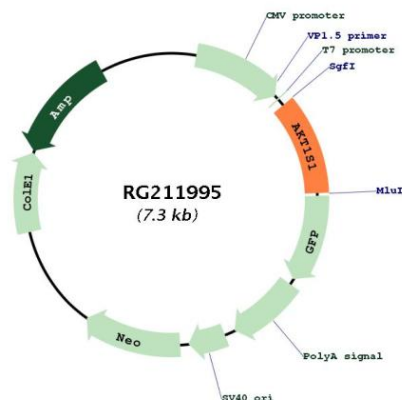
ORF Size: 768 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts 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 custsupport@origene.com 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. [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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001098632.2
RefSeq Size:	2033 bp
RefSeq ORF:	771 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 RG211995