

## Product datasheet for **RG212216**

### PRAS40 (AKT1S1) (NM\_001098633) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PRAS40 (AKT1S1) (NM_001098633) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AKT1S1
Synonyms:	Lobe; PRAS40
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG212216 representing NM_001098633 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCGGGGCGCCCCGAGGAGCTGTGGGAGGCCGTGGTGGGGCCGCTGAGCGCTTCCGGGCCGGA  
CTGGCACGGAGCTGGTGTCTGCTGACCGCGGCCCGCCGCCACCACCCCGCCGGGCCCTGTGCCTATGC  
TGCCCATGGTCGAGGAGCCCTGGCGGAGGCAGCGCCGTTGCCTCCACGACATCGCACTGGCCACAGG  
GCTGCCACTGCTGCTCGCCTCCTGCGCCCCACCAGCACACAGCCACCCAGTCCACACCCAGCCAC  
CCCGGCCTACCTGGCCAGAGAGACAACGAGGAGGACGAGGATGAGCCACAGACAGAGACCTCCGG  
GGAGCAGCTGGGCATTAGTGATAATGGAGGGCTCTTTGTGATGGATGAGGACGCCACCTCCAGGACCTT  
CCCCCTTCTGTGAGTCAGACCCGAGAGTACAGATGATGGCAGCCTGAGCGAGGAGACCCCGCCGGCC  
CCCCACCTGCTCAGTGCCCCAGCCTCAGCCCTACCCACACAGCAGTACGCCAAGTCCCTGCCTGTGTC  
TGTGCCCGTCTGGGGCTTCAAGGAGAAGAGGACAGAGGCGCGGTATCAGATGAGGAGAAATGGGCCGCC  
TCTTCGCCGACCTGGACCGCATCGCGGCAGCATGCGCGCGTGGTGTGCGAGAGGCCGAGGACACCC  
AGGTCTTCGGGGACCTGCCACGGCCGCGCTTAACACCAGCGACTCCAGAAGCTGAAGCGGAAATAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG212216 representing NM\_001098633  
Red=Cloning site Green=Tags(s)

MASGRPEELWEAVVGAERFRARTGTELVLLTAAPPPPPRPGPCAYAAHGRGALAEAARRCLHDIALAHR  
 AATAARPPAPPAPQPPSPTSPPPRPTLAREDNEDDEPTETETETSGEQLGSDNGLFVMDATLQDL  
 PPFCESDPESTDGSLSEETPAGPPTCSVPPASALPTQQYAKSLPVSVPVWGFKEKRTEARSSDEENGPP  
 SSPDLDRIAASMRALVLEAEDTQVFGDLPRPRLNTSDFQKLKRKY

TRTRPLE - GFP Tag - V

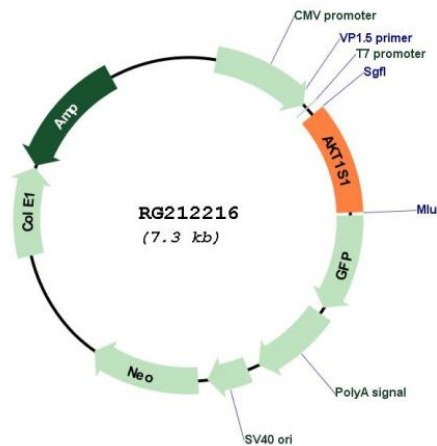
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001098633

**ORF Size:** 768 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001098633.4</a>
<b>RefSeq Size:</b>	1789 bp
<b>RefSeq ORF:</b>	771 bp
<b>Locus ID:</b>	84335
<b>UniProt ID:</b>	<a href="#">Q96B36</a>
<b>Cytogenetics:</b>	19q13.33
<b>Gene Summary:</b>	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]