

## Product datasheet for **RG222916**

### PICK1 (NM\_001039583) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PICK1 (NM_001039583) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PICK1
Synonyms:	PICK; PRKCABP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222916 representing NM_001039583 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTTTGCAGACTTGGATTATGACATCGAAGAGGATAAACTCGGAATCCCGACTGTGCCTGGGAAGGTGA  
CCCTGCAGAAGGATGCTCAGAACCTGATCGGGATCAGCATTGGAGGAGGGGCCAGTACTGTCCCTGCCT  
CTATATCGTCCAGGTATTTGACAACACCCAGCAGCCTTGGACGGCACAGTGGCAGCTGGCGATGAGATC  
ACCGGTGTCAATGGCAGGTCAATCAAAGGGAAAATAAGGTGGAGGTGGCGAAGATGATTCAGGAGGTGA  
AGGGGGAGGTGACCATCCACTACAACAAGCTGCAGGCGGACCCCAAGCAGGGCATGTCCCTGGACATTGT  
GTTGAAGAAAGTCAAGCACCGGCTGGTGGAGAATGAGTTCAGGGACCGCAGATGCTCTGGGCCTGAGC  
CGGGCCATCCTGTGCAATGATGGCTTGTCAAGAGGCTAGAGGAGCTGGAGCGGACCGCTGAGCTATACA  
AAGGGATGACGGAACACACCAAGAACCTCTACGGGCCTTTTATGAGCTGTGCGAGACTACCGGGCCTT  
TGGGGACGTGTTCTCCGTGATCGGGGTGCGGGAGCCCCAGCCAGCTGCGAGCGAGGCTTTTGTGAAGTTC  
GCCGATGCCACCGCAGCATCGAGAAGTTCGGCATTTCGGCTTCTGAAAACCATCAAGCCGATGCTGACGG  
ATCTGAACACGTACCTCAACAAAGCCATCCCGGACACTCGCCTCACCATCAAGAAGTACCTGGACGTGAA  
GTTTGAGTACCTGTCGTACTGCCTGAAGGTGAAGGAGATGGATGACGAGGAATACAGCTGCATTGCCCTA  
GGCGAGCCCTTTACCGGTGAGCACCGGCAACTATGAGTACCGCCTGATCCTGCCGTGCCCGCAGGAGG  
CGCGCGCCGCTTCTCCAGATGCGCAAGGATGTGCTGGAGAAGATGGAGCTGCTGGACCAGAAGCACGT  
CCAGGACATCGTGTCCAGCTGCAGCGCCTCGTGTCCACCATGTCCAAGTACTACAACGACTGCTACGCA  
GTGCTGCGGGATGCCGACGTCTTCCCATCGAGGTAGACCTGGCGCACACCACATTGGCCTATGGCCTCA  
ACCAGGAGGAGTTCACAGATGGGGAGGAGGAGGAGGAGGAAGACACGGCAGCTGGGGAGCCGTCCAG  
GGATACACGAGGGGCTGCTGGGCCCTTGGACAAGGGTGAAGCTGGTGTGACTCC

**ACGGT**ACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222916 representing NM\_001039583  
 Red=Cloning site Green=Tags(s)

MFADLDYDIEEDKLGIPVPGKVTLQKDAQNLIGISIGGGAQYCPCLYIVQVFDNTPAALDGTVAAGDEI  
 TGVNRSIKGKTKVEVAKMIQEYKGEVTIHYNKLDADPKQGMSLDIVLKKVKHRLVENMSSGTADALGLS  
 RAILCNDGLVKRLEELERTAELYKGMTEHTKNLLRAFYELSQTHRAFQDVFSVIGVREPQPAASEAFVKF  
 ADAHRSIEKFGIRLLKTIKPLTDLNTYLNKAIPDTRLTIKKYLDVKFEYL SYCLKVKEMDDEEYSICAL  
 GEPLYRVSTGNYEYRLILRCRQEARARFSQMRKDVLEKMELLDQKHVQDIFVQLQRLVSTMSKYND CYA  
 VLRDADVFPIEVDLAHTTLAYGLNQEEFTDGEEEEEEEEDTAAGEPSRDTRGAAGPLDKGGSWCDS

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001039583

**ORF Size:** 1245 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\\_001039583.1](#), [NP\\_001034672.1](#)

**RefSeq Size:** 2126 bp

**RefSeq ORF:** 1248 bp

**Locus ID:** 9463

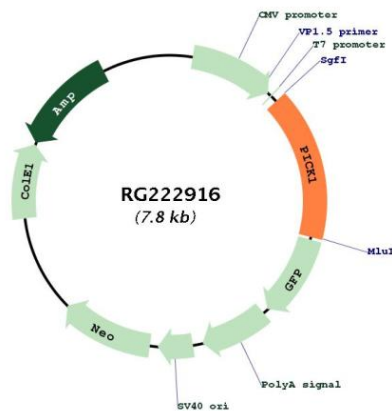
**UniProt ID:** [Q9NRD5](#)

**Cytogenetics:** 22q13.1

**Protein Families:** Druggable Genome

**Gene Summary:** The protein encoded by this gene contains a PDZ domain, through which it interacts with protein kinase C, alpha (PRKCA). This protein may function as an adaptor that binds to and organizes the subcellular localization of a variety of membrane proteins. It has been shown to interact with multiple glutamate receptor subtypes, monoamine plasma membrane transporters, as well as non-voltage gated sodium channels, and may target PRKCA to these membrane proteins and thus regulate their distribution and function. This protein has also been found to act as an anchoring protein that specifically targets PRKCA to mitochondria in a ligand-specific manner. Three transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

### Product images:



Circular map for RG222916