OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG203455

PICK1 (NM_001039584) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PICK1 (NM_001039584) 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:

>RG203455 representing NM_001039584
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTGCAGACTTGGATTATGACATCGAAGAGGATAAACTCGGAATCCCGACTGTGCCTGGGAAGGTGA
CCCTGCAGAAGGATGCTCAGAACCTGATCGGGATCAGCATTGGAGGAGGGGCCCAGTACTGTCCCTGCCT
CTATATCGTCCAGGTATTTGACAACACCCCAGCAGCCTTGGACGGCACAGTGGCAGCTGGCGATGAGATC
ACCGGTGTCAATGGCAGGTCAATCAAAGGGAAAACTAAGGTGGAGGTGGCGAAGATGATTCAGGAGGTGA
AGGGGGAGGTGACCATCCACTACAACAAGCTGCAGGCGGACCCCAAGCAGGGCATGTCCCTGGACATTGT
GTTGAAGAAAGTCAAGCACCGGCTGGTGGAGAACATGAGTTCAGGGACCGCAGATGCTCTGGGCCTGAGC
CGGGCCATCCTGTGCAATGATGGGCTTGTCAAGAGGCTAGAGGAGCTGGAGCGGACCGCTGAGCTATACA
AAGGGATGACGGAACACACCAAGAACCTCCTACGGGCCTTTTATGAGCTGTCGCAGACTCACCGGGCCTT
TGGGGACGTGTTCTCCGTGATCGGGGTGCGGGAGCCCCAGCCAGCTGCGAGCGAGGCTTTTGTGAAGTTC
GCCGATGCCCACCGCAGCATCGAGAAGTTCGGCATTCGGCTTCTGAAAACCATCAAGCCGATGCTGACGG
ATCTGAACACGTACCTCAACAAAGCCATCCCGGACACTCGCCTCACCATCAAGAAGTACCTGGACGTGAA
GTTTGAGTACCTGTCGTACTGCCTGAAGGTGAAGGAGATGGATGACGAGGAATACAGCTGCATTGCCCTA
GGCGAGCCCCTTTACCGGGTGAGCACCGGCAACTATGAGTACCGCCTGATCCTGCGCTGCCGCCAGGAGG
CGCGCGCCCGCTTCTCCCAGATGCGCAAGGATGTGCTGGAGAAGATGGAGCTGCTGGACCAGAAGCACGT
CCAGGACATCGTGTTCCAGCTGCAGCGCCTCGTGTCCACCATGTCCAAGTACTACAACGACTGCTACGCA
GTGCTGCGGGATGCCGACGTCTTCCCCATCGAGGTAGACCTGGCGCACACCACATTGGCCTATGGCCTCA
ACCAGGAGGAGTTCACAGATGGGGAGGAGGAGGAGGAGGAGGAAGACACGGCAGCTGGGGAGCCGTCCAG
GGATACACGAGGGGCTGCTGGGCCCTTGGACAAGGGTGGAAGCTGGTGTGACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

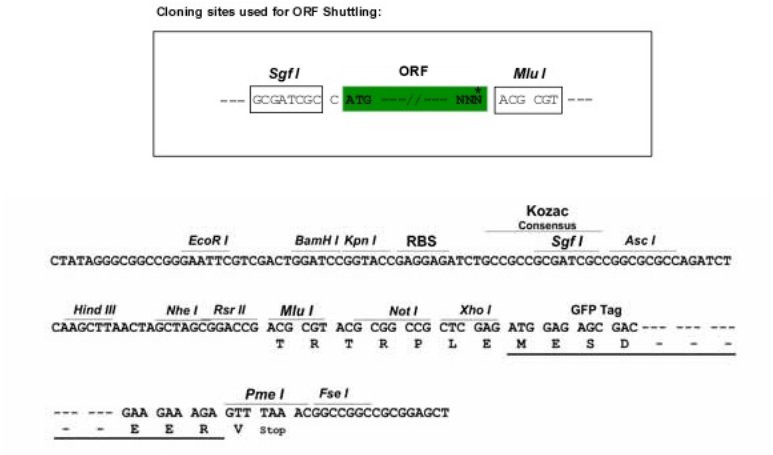
>RG203455 representing NM_001039584
Red=Cloning site Green=Tags(s)

MFADLDYDIEEDKLGIPTVPGKVTLQKDAQNLIGISIGGGAQYCPCLYIVQVFDNTPAALDGTVAAGDEI
TGVNGRSIKGKTKVEVAKMIQEVKGEVTIHYNKLQADPKQGMSLDIVLKKVKHRLVENMSSGTADALGLS
RAILCNDGLVKRLEELERTAELYKGMTEHTKNLLRAFYELSQTHRAFGDVFSVIGVREPQPAASEAFVKF
ADAHRSIEKFGIRLLKTIKPMLTDLNTYLNKAIPDTRLTIKKYLDVKFEYLSYCLKVKEMDDEEYSCIAL
GEPLYRVSTGNYEYRLILRCRQEARARFSQMRKDVLEKMELLDQKHVQDIVFQLQRLVSTMSKYYNDCYA
VLRDADVFPIEVDLAHTTLAYGLNQEEFTDGEEEEEEEDTAAGEPSRDTRGAAGPLDKGGSWCDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001039584

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_001039584.1, NP_001034673.1

RefSeq Size: 2073 bp

RefSeq ORF: 1248 bp

Locus ID: 9463

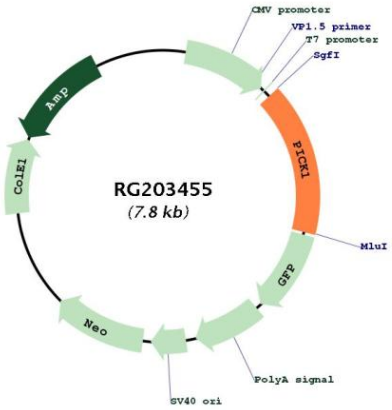
UniProt ID: Q9NRD5

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 RG203455