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 RG204474

Pannexin 1 (PANX1) (NM_015368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pannexin 1 (PANX1) (NM_015368) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pannexin 1
Synonyms:	MRS1; OOMD7; PX1; UNQ2529
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG204474 representing NM_015368
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCATCGCTCACCTGGCCACGGAGTACGTGTTCTCGGATTTCTTGCTGAAGGAGCCCACGGAGCCCA
AGTTCAAGGGGCTGCGACTGGAGCTGGCTGTGGACAAGATGGTCACGTGCATTGCGGTGGGGCTGCCCCT
GCTGCTCATCTCGCTGGCCTTCGCGCAGGAGATCTCGATTGGTACACAGATAAGCTGTTTCTCTCCAAGT
TCTTTCTCCTGGCGTCAGGCTGCCTTTGTGGATTCATATTGCTGGGCGGCTGTTCAGCAGAAGAACTCAC
TGCAGAGCGAGTCTGGAAACCTCCCACTGTGGCTGCATAAGTTTTTCCCCTACATCCTGCTGCTCTTTGC
GATCCTCCTGTACCTGCCCCCGCTGTTCTGGCGTTTCGCAGCTGCTCCTCATATTTGCTCAGACTTGAAG
TTTATCATGGAAGAACTTGACAAAGTTTACAACCGTGCAATTAAGGCTGCAAAGAGTGCGCGTGACCTTG
ACATGAGAGATGGAGCCTGCTCAGTTCCAGGTGTTACCGAGAACTTAGGGCAAAGTTTGTGGGAGGTATC
TGAAAGCCACTTCAAGTACCCAATTGTGGAGCAGTACTTGAAGACAAAGAAAAATTCTAATAATTTAATC
ATCAAGTACATTAGCTGCCGCCTGCTGACACTCATCATTATACTGTTAGCGTGTATCTACCTGGGCTATT
ACTTCAGCCTCTCCTCACTCTCAGACGAGTTTGTGTGCAGCATCAAATCAGGGATCCTGAGAAACGACAG
CACCGTGCCCGATCAGTTTCAGTGCAAACTCATTGCCGTGGGCATCTTCCAGTTGCTCAGTGTCATTAAC
CTTGTGGTTTATGTCCTGCTGGCTCCCGTGGTTGTCTACACGCTGTTTGTTCCATTCCGACAGAAGACAG
ATGTTCTCAAAGTGTACGAAATCCTCCCCACTTTTGATGTTCTGCATTTCAAATCTGAAGGGTACAACGA
TTTGAGCCTCTACAATCTCTTCTTGGAGGAAAATATAAGTGAGGTCAAGTCATACAAGTGTCTTAAGGTA
CTGGAGAATATTAAGAGCAGTGGTCAGGGGATCGACCCAATGCTACTCCTGACAAACCTTGGCATGATCA
AGATGGATGTTGTTGATGGCAAAACTCCCATGTCTGCAGAGATGAGAGAGGAGCAGGGGAACCAGACGGC
AGAGCTCCAAGGTATGAACATAGACAGTGAAACTAAAGCAAATAATGGAGAGAAGAATGCCCGACAGAGA
CTTCTGGATTCTTCTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

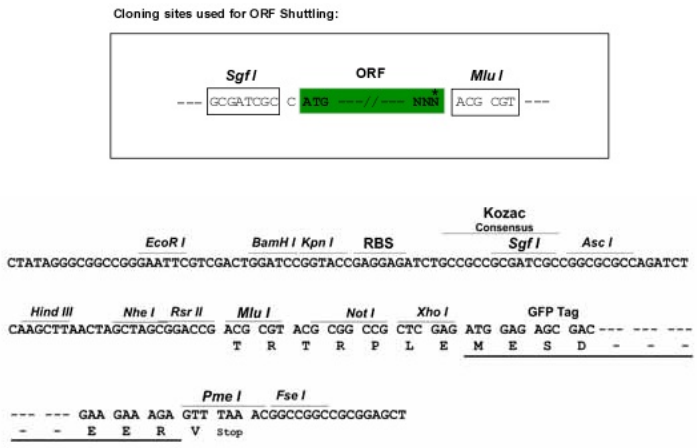
>RG204474 representing NM_015368
Red=Cloning site Green=Tags(s)

MAIAHLATEYVFSDFLLKEPTEPKFKGLRLELAVDKMVTCIAVGLPLLLISLAFAQEISIGTQISCFSPS
SFSWRQAAFVDSYCWAAVQQKNSLQSESGNLPLWLHKFFPYILLLFAILLYLPPLFWRFAAAPHICSDLK
FIMEELDKVYNRAIKAAKSARDLDMRDGACSVPGVTENLGQSLWEVSESHFKYPIVEQYLKTKKNSNNLI
IKYISCRLLTLIIILLACIYLGYYFSLSSLSDEFVCSIKSGILRNDSTVPDQFQCKLIAVGIFQLLSVIN
LVVYVLLAPVVVYTLFVPFRQKTDVLKVYEILPTFDVLHFKSEGYNDLSLYNLFLEENISEVKSYKCLKV
LENIKSSGQGIDPMLLLTNLGMIKMDVVDGKTPMSAEMREEQGNQTAELQGMNIDSETKANNGEKNARQR
LLDSSC

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015368

ORF Size: 1278 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).

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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_015368.3, NP_056183.2

RefSeq Size: 2782 bp

RefSeq ORF: 1281 bp

Locus ID: 24145

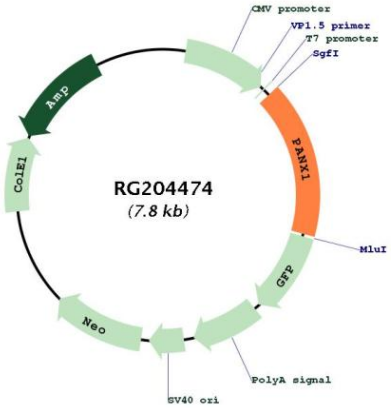
UniProt ID: Q96RD7

Cytogenetics: 11q21

Protein Families: Transmembrane

Gene Summary: The protein encoded by this gene belongs to the innexin family. Innexin family members are the structural components of gap junctions. This protein and pannexin 2 are abundantly expressed in central nerve system (CNS) and are coexpressed in various neuronal populations. Studies in Xenopus oocytes suggest that this protein alone and in combination with pannexin 2 may form cell type-specific gap junctions with distinct properties. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204474

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