

Product datasheet for **RC204474**

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

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Pannexin 1
Synonyms:	MRS1; OOMD7; PX1; UNQ2529
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204474 representing NM_015368 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATCGCTCACCTGGCCACGGAGTACGTGTTCTCGATTCTTGCTGAAGGAGCCACGGAGCCCA
AGTTCAAGGGGCTGCGACTGGAGCTGGCTGTGGACAAGATGGTCACGTGCATTGCGGTGGGGCTGCCCT
GCTGCTCATCTCGCTGGCCTTCGCGCAGGAGATCTCGATTGGTACACAGATAAGCTGTTCTCTCCAAGT
TCTTTCTCCTGGCGTCAGGCTGCCTTTGTGGATTCAATTGCTGGGCGGCTGTTACAGAGAAGAACTCAC
TGCAGAGCGAGTCTGAAACCTCCCACTGTGGCTGCATAAGTTTTCCCTACATCCTGCTGCTCTTTGC
GATCCTCCTGTACCTGCCCGCTGTTCTGGCGTTTCGCAGCTGCTCCTCATATTTGCTCAGACTTGAAG
TTTATCATGGAAGAACTTGACAAAGTTTACAACCGTGCAATTAAGGCTGCAAAGAGTGCGCGTGACCTTG
ACATGAGAGATGGAGCCTGCTCAGTTCCAGGTGTTACCGAGAAGTTAGGGCAAAGTTTGTGGGAGGTATC
TGAAAGCCACTTCAAGTACCAATTGTGGAGCAGTACTGAAGACAAAGAAAAATTCTAATAATTTAATC
ATCAAGTACATTAGCTGCCGCTGCTGACACTCATCATTATACTGTTAGCGTGTATCTACCTGGGCTATT
ACTTCAGCCTCTCCTCACTCTCAGACGAGTTTGTGTGAGCATCAAAATCAGGGATCCTGAGAAACGACAG
CACCGTGCCCGATCAGTTTCAGTGCAAACTCATTGCCGTGGGCATCTCCAGTTGCTCAGTGTCTTAAC
CTTGTGGTTTATGTCCTGCTGGTCCCCTGGTGTCTACACGCTGTTTGTCCATTCCGACAGAAGACAG
ATGTTCTCAAAGGTACGAAATCCTCCCACTTTTGATGTTCTGCATTTCAAATCTGAAGGTACAACGA
TTTGAGCCTCTACAATCTCTTCTTGAGGAAAAATAAGTGAGGTCAAGTCATACAAGTGTCTTAAGGTA
CTGGAGAATATTAAGAGCAGTGGTCAGGGGATCGACCAATGCTACTCCTGACAAACCTTGGCATGATCA
AGATGGATGTTGTTGATGGCAAACTCCCATGTCTGCAGAGATGAGAGAGGAGCAGGGGAACAGACGGC
AGAGCTCAAGGTATGAACATAGACAGTGAACTAAAGCAAATATGGAGAGAAGATGCCCGACAGAGA
CTTCTGGATTCTCTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA


[View online »](#)

Protein Sequence: >RC204474 representing NM_015368
 Red=Cloning site Green=Tags(s)

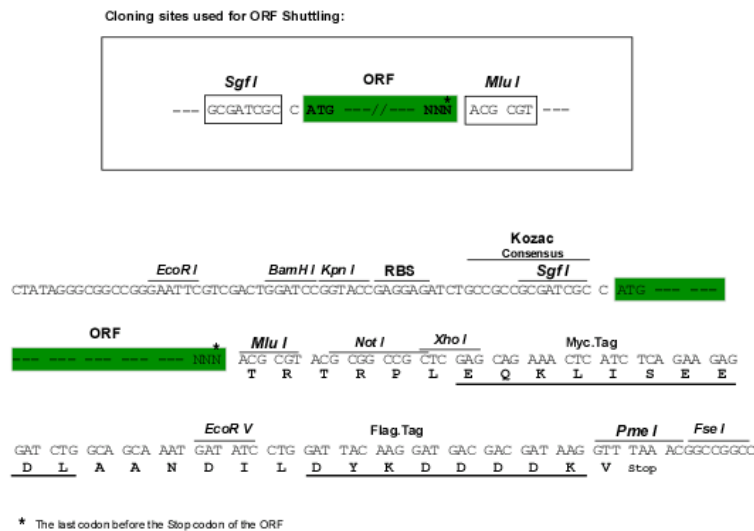
MAIAHLATEYVFSDFLLEKEPTEPKFKGLRLELAVDKMVTCTIAVGLPLLLISLAFQAQEISIGTQISCFSPS
 SFSWRQAQAFVDSYCAAVQQKNSLQSESGNLPLWLHKFFPYILLFALLYLPLFWRAAAPHICSDLK
 FIMEELDKVYNRAIKAASARDLDMRDGACSVPGVTENLGQSLWEVSESHFKYPIVEQYLKTKKNSNNLI
 IKYISCRLLTLIIILLACIYLGYYFSLSSLSDEFVCSIKSGILRNDSTVPDQFQCKLIAGVIFQLLSVIN
 LVVYVLLAPVVVYTLFVPPFRQKTDVLKYYEILPTFDVLHFKSEGYNDLSLYNLFLEENISEVKSYSKCLKV
 LENIKSSGQGIDPMLLLTNLGMKMDVVDGKTPMSAEMREEQGNQTAELQGMNIDSETKANNGEKNARQR
 LLDSSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2702_h05.zip

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).

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_015368.3](#), [NP_056183.2](#)

RefSeq Size: 2782 bp

RefSeq ORF: 1281 bp

Locus ID: 24145

UniProt ID: [Q96RD7](#)

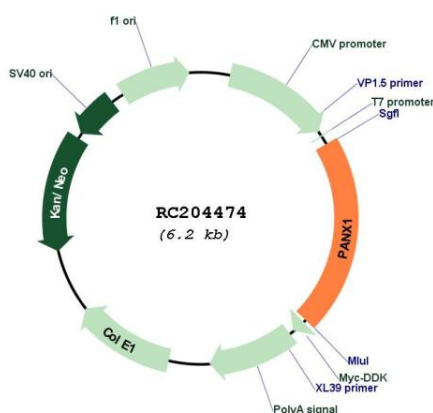
Cytogenetics: 11q21

Protein Families: Transmembrane

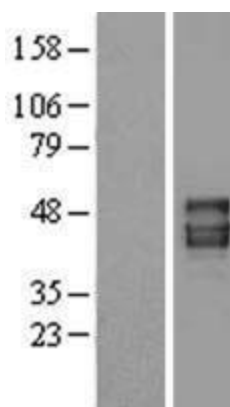
MW: 47.9 kDa

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 RC204474



Western blot validation of overexpression lysate (Cat# [LY402428]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204474 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).