

## Product datasheet for **RR216309**

### **Panx1 (NM\_001270549) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Panx1 (NM\_001270549) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Panx1  
**Synonyms:** px1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR216309 representing NM\_001270549  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCATCGCCACCTGGCCACGGAGTACGTGTTCTCGGACTTCTTGCTGAAGGAGCCACCGAGCCCA  
AGTTCAAGGGGCTGCGACTGGAGCTGGCAGTGGACAAGATGGTCACGTGCATTGCCGTGGGTCTGCCTCT  
GCTGCTCATCTCGCTGGCCTTCGCTCAGGAGATCTCCATCGGTACCCAGATAAGCTGCTTCTCCCAAGT  
TCCTTCTCCTGGCGCCAGGCCGCTTCGTGGACTTACTGCTGGGCCGCTGTACAGCAGAAAACTCCC  
TGCAAGTGTAGTCTGAAACCTCCCGCTGTGGCTGCACAAGTTCTTCCCCTACATCCTGCTACTGTTTGC  
CATACTCCTGTACCTGCCGCTCTGTTCTGGCGCTTTGCGGGCGGCTCCACACCTCTGCTCCGACCTGAAG  
TTTATCATGGAGGAGCTTGACAAAGTCTATAACCGCGCCATCAAGGCTGCCAAGAGTGTCTCGTATTGG  
ACCTGAGAGATGGACCTGGACCTCCAGGAGTACTGAGAATGTGGGGCAGAGTCTGTGGGAGATATCCGA  
AAGCCACTTCAAGTACCCGATCGTGGAGCAGTACTTGAAGACGAAGAAGAACTCCAGTACCTAATCATG  
AAATACATTAGCTGCCGCTGGTACCTTTGCGGTGGTACTGCTGGCTTGCATCTACTTGAGCTACTACT  
TCAGCCTCTCCTCGCTCTCCGACGAGTTTCTGTGTAGCATCAAGTCGGGGCTCCTGAGGAACGACAGCAC  
CATCCCCGATAGCTTCCAGTGAAGTCACTCGCGGTCCGATCTTCCAGCTGCTCAGCCTCATTAACTC  
CTAGTGTACGCCCTGCTGGTCCCGTGGTCACTACACGCTCTTCTGCCGTTCCGGCAGAAGACGGACG  
TCCTCAAGATTTGGACC

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR216309 representing NM\_001270549  
Red=Cloning site Green=Tags(s)

MAIAHLATEYVFSDFLLKEPTEPKFKGLRLELAVDKMVTCTIAVGLPLLLISLAFQAQEISIGTQISCFSPS  
 SFSWRQAQAFVDSYCWAAVQKNSLQSESGNLPWLHKFFPYILLFFAILLYLPALFWRFAAAPHLCSDLK  
 FIMEELDKVYNRAIKAASARDLDRDGPVGGVTENVGQSLWEISESHFKYPIVEQYLKTKKNSSHLM  
 KYISCRSLVTFAVLLACIYLSYFSLSSLSDEFLLCSIKSGVLRNDSTIPDSFQCKLIAVGIFQLLSLNL  
 LYYALLVPVVIYTLFVFPFRQKTDVLKIWT

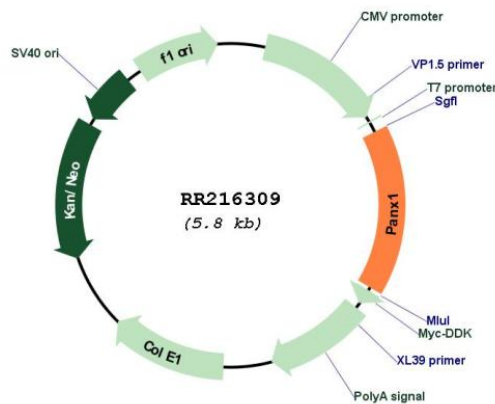
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001270549

**ORF Size:** 927 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_001270549.1</a> , <a href="#">NP_001257478.1</a>
<b>RefSeq Size:</b>	2173 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	315435
<b>Cytogenetics:</b>	8q12
<b>MW:</b>	35 kDa
<b>Gene Summary:</b>	The protein encoded by this gene is a plasma membrane protein that is a structural component of gap junctions. The encoded protein acts as a homodimer or as a heterodimer with other isoforms or proteins. Two additional variants have been found, and the isoforms expressed from them are found in the cytoplasm. It is thought that these two isoforms could attenuate the actions of the membrane-bound protein. [provided by RefSeq, Jul 2012]