

Product datasheet for **RR212770**

Piezo1 (NM_001077200) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Piezo1 (NM_001077200) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Piezo1
Synonyms: Fam38a; Mib
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212770 representing NM_001077200
 Red=Cloning site Blue=ORF Green=Tags(s)

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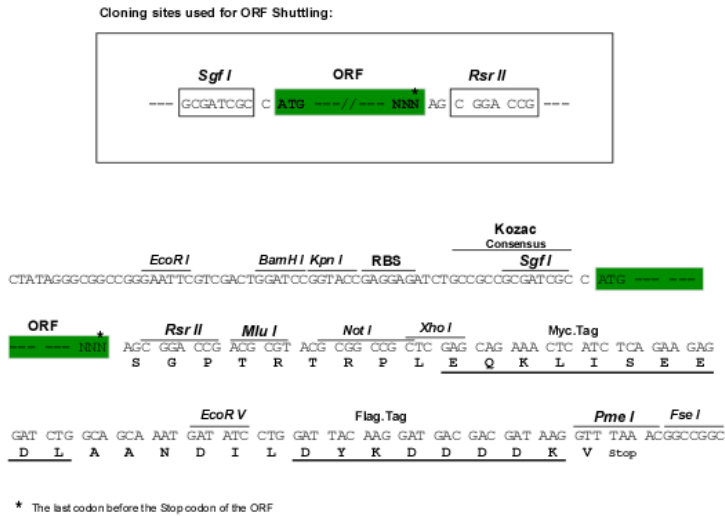
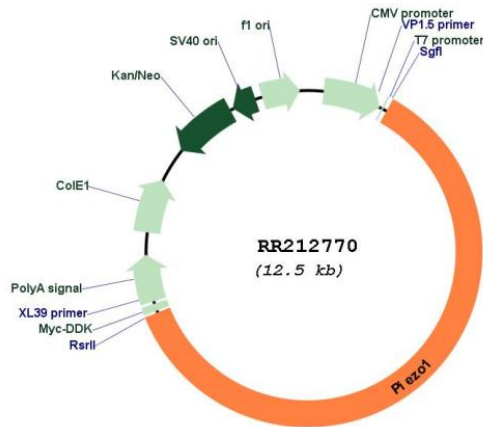
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Protein Sequence: >RR212770 representing NM_001077200
 Red=Cloning site Green=Tags(s)

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Restriction Sites: SgfI-RsrII

Cloning Scheme:

Plasmid Map:


ACCN: NM_001077200

ORF Size: 7605 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](#)

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|-------------------------------|--|
| 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: | <ol style="list-style-type: none">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: | <u>NM_001077200.2</u> , <u>NP_001070668.2</u> |
| RefSeq Size: | 8221 bp |
| RefSeq ORF: | 7608 bp |
| Locus ID: | 361430 |
| UniProt ID: | <u>Q0KL00</u> |
| Cytogenetics: | 19q12 |
| MW: | 290.3 kDa |
| Gene Summary: | Pore-forming subunit of a mechanosensitive non-specific cation channel. Generates currents characterized by a linear current-voltage relationship that are sensitive to ruthenium red and gadolinium. Plays a key role in epithelial cell adhesion by maintaining integrin activation through R-Ras recruitment to the ER, most probably in its activated state, and subsequent stimulation of calpain signaling. In the kidney, may contribute to the detection of intraluminal pressure changes and to urine flow sensing. Acts as shear-stress sensor that promotes endothelial cell organization and alignment in the direction of blood flow through calpain activation. Plays a key role in blood vessel formation and vascular structure in both development and adult physiology.[UniProtKB/Swiss-Prot Function] |