

## Product datasheet for **RC232173**

### **PAMM (FAM213A) (NM\_001243781) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PAMM (FAM213A) (NM\_001243781) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PRXL2A  
**Synonyms:** Adrx; C10orf58; FAM213A; PAMM  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232173 representing NM\_001243781  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGGATGTGGTCCATTGGTGCAGGAGCCCTGGGGGCTGCTGCCTTGGCATTGCTGCTTGCCAACACAG  
ACGTGTTTCTGTCCAAGCCCCAGAAAGCGGCCCTGGAGTACCTGGAGGATATAGACCTGAAAACACTGGA  
GAAGGAACCAAGGACTTTCAAAGCAAAGGAGCTATGGGAAAAAATGGAGCTGTGATTATGGCCGTGCGG  
AGGCCAGGCTGTTTCTCTGTCTGAGAGGAAGCTGCGGATCTGTCTCCCTGAAAAGCATGTTGGACCAGC  
TGGGCGTCCCCCTCTATGCAGTGGTAAAGGAGCACATCAGGACTGAAGTGAAGGATTTCCAGCCTTATTT  
CAAAGGAGAAATCTTCTGGATGAAAAGAAAAAGTTCTATGGTCCACAAAGGCGGAAGATGATGTTTATG  
GGATTTATCCGCTCTGGGAGTGTGGTACAACCTTCTCCGAGCCTGGAACGGAGGCTTCTCTGGAAACCTGG  
AAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCTGGTGGGATCAGGAAAGCAGGGCATTCTTCTTGAGCA  
CCGAGAAAAAGAATTTGGAGACAAAGTAAACCTACTTTCTGTTCTGGAAGCTGCTAAGATGATCAAACCA  
CAGACTTTGGCCTCAGAGAAAAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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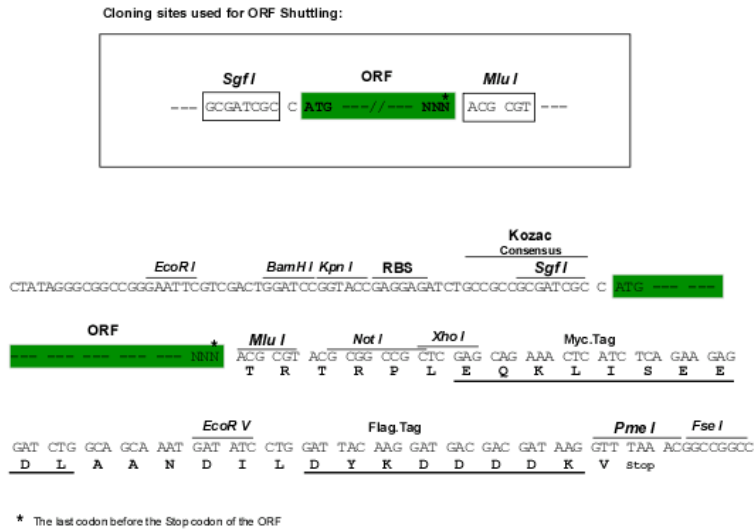
**Protein Sequence:** >RC232173 representing NM\_001243781  
Red=Cloning site Green=Tags(s)

MGMWSIGAGALGAAALALLLANTDVFLSKPQKALEYLEDIDLKTLEKEPRTFKAKELWEKNGAVIMAVR  
 RPGCFLCREEAADLSSLKSMLDQLGVPL YAVVKEHIRTEVKDFQPYFKGEIFLDEKFKFYGPQRKMMFM  
 GFIRLGVWYNFFRAWNGGFSGNLEGEGLGGV FVVGSGKQGILLEHREKEFGDKVNLLSVLEAAKMIKP  
 QTLASEKK

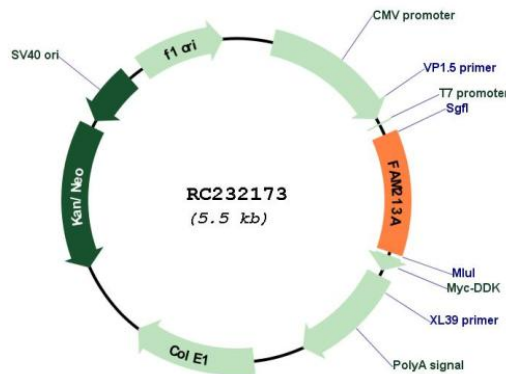
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001243781

**ORF Size:** 654 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_001243781.2</a>
<b>RefSeq Size:</b>	1756 bp
<b>RefSeq ORF:</b>	657 bp
<b>Locus ID:</b>	84293
<b>UniProt ID:</b>	<a href="#">Q9BRX8</a>
<b>Cytogenetics:</b>	10q23.1
<b>Protein Families:</b>	Secreted Protein, Transmembrane
<b>MW:</b>	24.9 kDa
<b>Gene Summary:</b>	Involved in redox regulation of the cell (PubMed:26438880, PubMed:19951071). Acts as an antioxidant (PubMed:19951071, PubMed:26438880). Inhibits TNFSF11-induced NFkB1 and JUN activation and osteoclast differentiation (PubMed:19951071). May affect bone resorption and help to maintain bone mass (PubMed:19951071). Acts as a negative regulator of macrophage-mediated inflammation by inhibiting macrophage production of inflammatory cytokines, probably through suppression of the MAPK signaling pathway (PubMed:26438880). [UniProtKB/Swiss-Prot Function]