

Product datasheet for RC201327

PAMM (FAM213A) (NM_032333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAMM (FAM213A) (NM_032333) 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:	>RC201327 representing NM_032333 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCTCCAGGACCCAAGTTTCTCACCATGGGGATGTGGTCCATTGGTGCAGGAGCCCTGGGG
CTGCTGCCTTGGCATTGCTGCTTGCCAACACAGACGTGTTTCTGTCCAAGCCCCAGAAAGCGGCCCTGGA
GTACCTGGAGGATATAGACCTGAAAACACTGGAGAAGGAACCAAGGACTTCAAAGCAAAGGAGCTATGG
GAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTTTCTCTGTGAGAGGAAGCTGCGG
ATCTGTCTCCCTGAAAAGCATGTTGGACCAGCTGGGCGTCCCCCTCTATGCAGTGGTAAAGGAGCACAT
CAGGACTGAAGTGAAGGATTTCCAGCCTTATTTCAAAGGAGAAATCTTCCTGGATGAAAAGAAAAGTTC
TATGGTCCACAAAGCGGAAGATGATGTTTATGGGATTTATCCGTCTGGGAGTGTGGTACAACCTTCTCC
GAGCCTGGAACGGAGGCTTCTCTGGAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCGTGGT
GGGATCAGGAAAGCAGGGCATTCTTCTGAGCACCGAGAAAAAGAATTTGGAGACAAAGTAAACCTACTT
TCTGTTCTGGAAGCTGCTAAGATGATCAAACCACAGACTTTGGCCTCAGAGAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201327 representing NM_032333
 Red=Cloning site Green=Tags(s)

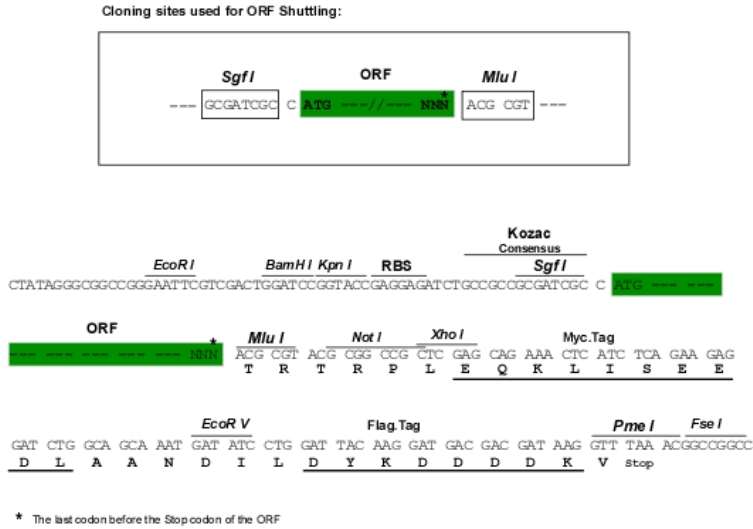
MSFLQDPSFFTGMWISIGAGALGAAALALLANTDVFLSKPQKALEYLEDIDLKTLEKEPRTFKAKELW
 EKNQAVIMAVRRPGCFLCREEAADLSSLKSMQLDQGVPL YAVVKEHIRTEVKDFQPYFKGEIFLDEKKKF
 YGPQRRKMMFMGFIRLGVWYNFFRAWNGGFSGNLEGEGLGGVFVVGSGKQGILLEHREKEFGDKVNLL
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

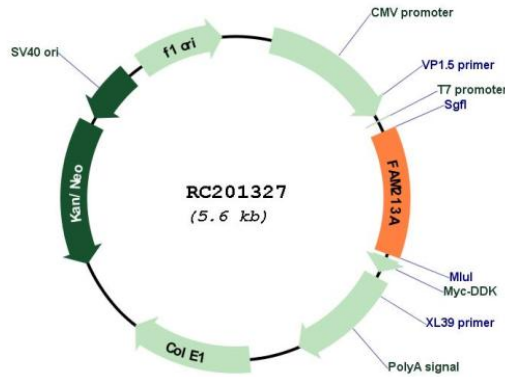
Chromatograms: https://cdn.origene.com/chromatograms/ja1447_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



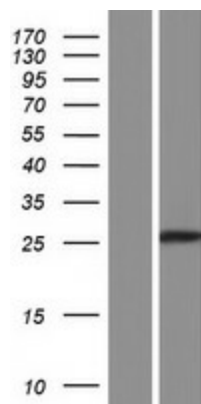
Plasmid Map:



ACCN: NM_032333

ORF Size: 687 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:	<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:	NM_032333.5
RefSeq Size:	1690 bp
RefSeq ORF:	690 bp
Locus ID:	84293
UniProt ID:	Q9BRX8
Cytogenetics:	10q23.1
Protein Families:	Secreted Protein, Transmembrane
MW:	25.6 kDa
Gene Summary:	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]

Product images:

Western blot validation of overexpression lysate (Cat# [LY410156]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201327 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).