

Product datasheet for **RG232210**

PAMM (FAM213A) (NM_001243780) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PAMM (FAM213A) (NM_001243780) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PRXL2A
Synonyms: Adrx; C10orf58; FAM213A; PAMM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG232210 representing NM_001243780
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTTCTCCAGGACCCAAGTTTCTTACCATGGGGATGTGGTCCATTGGTGCAGGAGCCCTGGGG
CTGCTGCCTTGGCATTGCTGCTTGCCAACACAGACGTGTTTCTGTCCAAGCCCCAGAAAGCGCCCTGGA
GTACCTGGAGGATATAGACCTGAAAACACTGGAGAAGGAACCAAGGACTTCAAAGCAAAGGAGCTATGG
GAAAAAATGGAGCTGTGATTATGGCCGTGCGGAGGCCAGGCTGTTTCTCTGTGAGAGGAAGCTGCGG
ATCTGTCTCCCTGAAAAGCATGTTGGACCAGCTGGGCGTCCCCCTCTATGCAGTGGTAAAGGAGCACAT
CAGGACTGAAGTGAAGGATTTCCAGCCTTATTTCAAAGGAGAAATCTTCCCTGGATGAAAAGAAAAAGTTC
TATGGTCCACAAAGCGGAAGATGATGTTTATGGGATTTATCCGTCTGGGAGTGTGGTACAACCTTCTCC
GAGCCTGGAACGGAGGCTTCTCTGGAAACCTGGAAGGAGAAGGCTTCATCCTTGGGGGAGTTTTCTGGT
GGGATCAGGAAAGCAGGGCATTCTTCTTGGACCCGAGAAAAAGAATTTGGAGACAAAGTAAACCTACTT
TCTGTTCTGGAAGCTGCTAAGATGATCAAACCACAGACTTTGGCCTCAGAGAAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232210 representing NM_001243780
Red=Cloning site Green=Tags(s)

MSFLQDPSFFTMGMWSIGAGALGAAALALLANTDVFLSKPQKALEYLEDIDLKLEKEPRTFKAKELW
 EKNGAVIMAVRRPGCFLCREEAADLSSLKSMQLDQLGVPL YAVVKEHIRTEVKDFQPYFKGEIFLDEKKKF
 YGPQRRKMMFMGFI RLGWVYNFFRAWNGGF SGNLEGEGLGGV FVVGSGKQGILLEHREKEFGDKVNLL
 SVLEAAKMIKPQTLASEKK

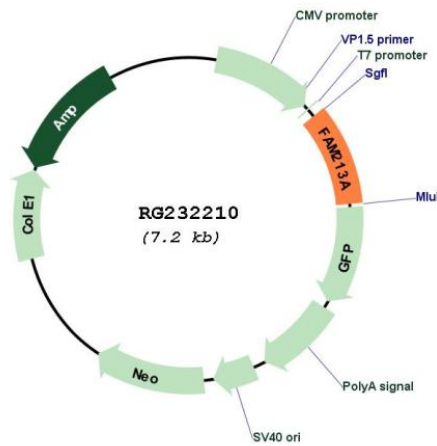
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243780

ORF Size: 687 bp

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|-------------------------------|--|
| 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_001243780.1 , NP_001230709.1 |
| RefSeq Size: | 2239 bp |
| RefSeq ORF: | 690 bp |
| Locus ID: | 84293 |
| UniProt ID: | Q9BRX8 |
| Cytogenetics: | 10q23.1 |
| Protein Families: | Secreted Protein, Transmembrane |
| 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] |