

Product datasheet for **RG212427**

Parvalbumin (PVALB) (NM_002854) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Parvalbumin (PVALB) (NM_002854) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Parvalbumin
Synonyms: D22S749
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG212427 representing NM_002854
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGTCGATGACAGACTTGCTGAACGCTGAGGACATCAAGAAGGCGGTGGGAGCCTTTAGCGCTACCGACT
 CCTTCGACCACAAAAAGTTCTTCAAATGGTCGGCCTGAAGAAAAAGAGTGC GGATGATGTGAAGAAGGT
 GTTTCACATGCTGGACAAGGACAAAAGTGGCTTCATCGAGGAGGATGAGCTGGGATTCATCCTAAAAGGC
 TTCTCCCCAGATGCCAGAGACCTGTCTGCTAAAGAAACCAAGATGCTGATGGCTGCTGGAGACAAAGATG
 GGGACGGCAAAATTGGGGTTGACGAATTCTCCACTCTGGTGGCTGAAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212427 representing NM_002854
Red=Cloning site Green=Tags(s)
 MSMTDLLNAEDIKKAVGAFSATDSFDHKKFFQMVGLKKKSADDVKKVFHMLDKDKSGFIEEDELGFILKG
 FSPDARDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:



ACCN: NM_002854

ORF Size: 330 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:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002854.3](#)

RefSeq Size: 586 bp

RefSeq ORF: 333 bp

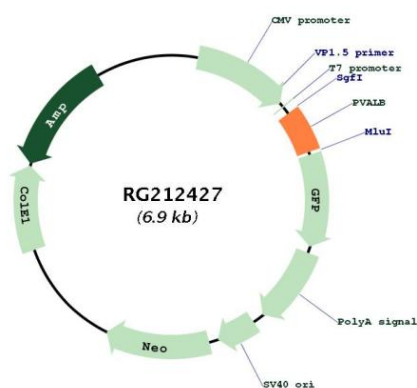
Locus ID: 5816

UniProt ID: [P20472](#)

Cytogenetics: 22q12.3

Gene Summary: The protein encoded by this gene is a high affinity calcium ion-binding protein that is structurally and functionally similar to calmodulin and troponin C. The encoded protein is thought to be involved in muscle relaxation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RG212427