Product datasheet for RC212427

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:	Myc-DDK
Symbol:	Parvalbumin
Synonyms:	D22S749
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212427 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCGATGACAGACTTGCTGAACGCTGAGGACATCAAGAAGGCGGTGGGAGCCTTTAGCGCTACCGACT CCTTCGACCACAAAAAGTTCTTCCAAATGGTCGGCCTGAAGAAAAAGAGTGCGGATGATGTGAAGAAGGT GTTTCACATGCTGGACAAGGACAAAAGTGGCTTCATCGAGGAGGATGAGCTGGGATTCATCCTAAAAGGC TTCTCCCCAGATGCCAGAGACCTGTCTGCTAAAGAAACCAAGATGCTGATGGCTGCTGGAGACAAAGATG GGGACGGCAAAATTGGGGTTGACGAATTCTCCACTCTGGTGGCTGAAAGC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC212427 protein sequence Red=Cloning site Green=Tags(s) MSMTDLLNAEDIKKAVGAFSATDSFDHKKFFQMVGLKKKSADDVKKVFHMLDKDKSGFIEEDELGFILKG FSPDARDLSAKETKMLMAAGDKDGDGKIGVDEFSTLVAES TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6473_a06.zip
Restriction Sites:	SgfI-MluI

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ORIGENE

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
MW:	12.1 kDa

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]
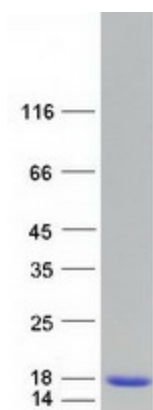
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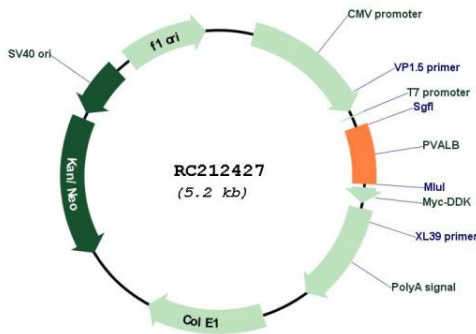
Circular map for RC212427
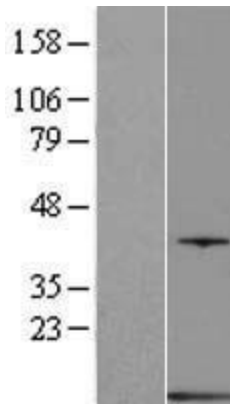
Western blot validation of overexpression lysate (Cat# [LY419082]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212427 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified PVALB protein (Cat# [TP312427]). The protein was produced from HEK293T cells transfected with PVALB cDNA clone (Cat# RC212427) using MegaTran 2.0 (Cat# [TT210002]).