

Product datasheet for **RG207112**

Paralemmin (PALM) (NM_002579) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Paralemmin
Synonyms:	PALM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207112 representing NM_002579
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGAGGTCCTGGCGGCAGAGACCACGTCCCAGCAGGAGCGGCTGCAGGCCATCGCAGAGAAGCGGAAGC
GGCAGGCGGAGATCGAGAACAAGCGCCGGCAGCTGGAGGACGAGCGGAGGCAGCTGCAGCACCTGAAGTC
CAAGGCACTGCGGGAGCGCTGGCTGCTGGAGGGACGCCGCTCCTCGGCTCAGAGGGGGATGAGGACCTG
AGGAGGCAGATGCAGGACGACGAGCAGAAGACCGCTGCTGGAGGACTCGGTGTCCAGGTTGGAGAAGG
AAATTGAGGTGCTGGAGCGTGGAGACTCCGCCCCAGCCACTGCCAAGGAGAACGCGCGGCCCGAGCCC
AGTCCGGGCCCCAGCCCCGAGTCCAGCCAAGGAGGAGCGCAAGACAGAGGTGGTGATGAATTCACAGCAG
ACGCCGGTGGGCACGCCAAAGACAAGCGAGTCTCCAACACGCCCTGAGGACGGTTGACGGCTCCCCCA
TGATGAAGGCAGCCATGTACTCGGTTGAGATCACTGTGGAGAAGGACAAGGTGACAGGGGAGACCAGGCT
GCTGTCCAGCACCACGCTGCTCCCTCGGCAGCCGCTCCCTCTGGGCATCAAAGTCTACGAGGACGAGACC
AAAGTGGTCCATGCTGTGGACGGCACCGCCGAGAACCGGATCCACCCCTGAGCTCCTCCGAGGTGGACG
AACTCATCCACAAAGCGGACGAGGTACGCTGAGCGAGGACAGGCTCCACGGCCGGGCGGCAGAGACCCG
GGGGGCTGTGGAGGGGCGAGCCCGACCGCCCTCCCGCGGGAGATCACCGGTGTGCAGGCACAGCCA
GGCAGGCCACGTCCGGCCCGCGGGATCCAGCCCGGCCAGGAGCCCCGGTCACAATGATCTTTCATGG
GTTACCAGAACGTGGAGGATGAGGCCGAGACCAAGAAGGTGCTGGGCTTCAAGATACCATCAGGCGGA
GCTGGTGGTCATGAAGACGCGGCTGAGCCCAAGGAGCCTGCACCACCAACGGCAGTGTGCCGAGCCT
CCCACGGAGCGCCTCCAGGAAGAGAATCAGGCGGGGCCGAGGCCACCACGACGCCCCAGGACC
TCGACATGAAGAAGCACCGTTGTAAATGCTGCTCCATCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA



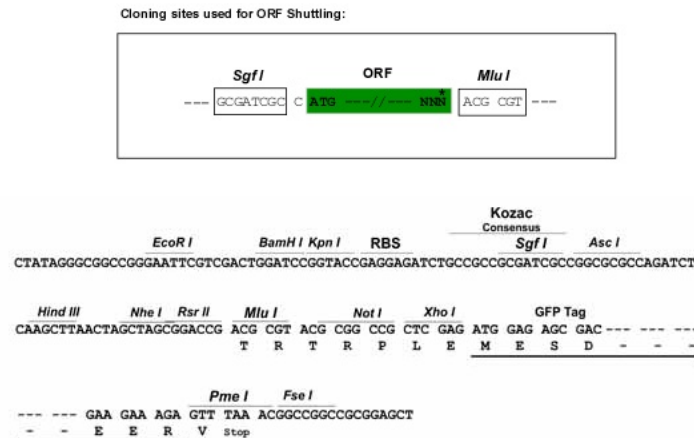
Protein Sequence: >RG207112 representing NM_002579
Red=Cloning site Green=Tags(s)

MEVLA AETTSQQERLQAIAEKRRQAEIENKRRQLEDERRQLQHLKSKALRERWLLEGTPSSASEGDEDL
RRQM QDDEQKTRLLEDVSRLKEIEVLERGDSAPATAKENAAAPSPVRAPAPSPAKEERKTEVVMNSQQ
TPVGT PKDKRVSNTPLRTVDGSPMMKAAMYSVEITVEKDKVTGETRVLSTSTLLPRQPLPLGIKVEDET
KVVHAVDGT AENGIHPLSSSEVDL I HKADEVT LSEAGSTAGAAETRGAVEGAARTTPSRREITGVQAQP
GEATSGPPGIQPGQEPVMTMIFMGYQNVEDAETKKVLGLQDTITAE LVVIEDAAEPKEPAPPNGSAAEP
PTEAASREENQAGPEATSDPQDLDMKKHRCKCCSIM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002579

ORF Size: 1161 bp

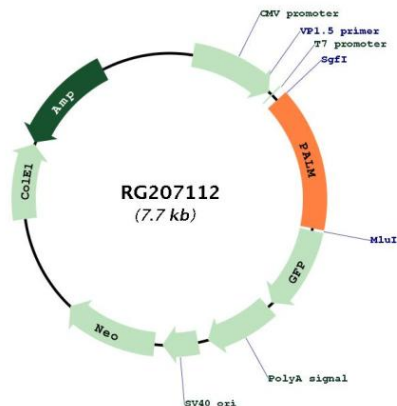
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_002579.3</u>
RefSeq Size:	2890 bp
RefSeq ORF:	1164 bp
Locus ID:	5064
UniProt ID:	<u>O75781</u>
Cytogenetics:	19p13.3
Domains:	Paralemmin
Gene Summary:	This gene encodes a member of the paralemmin protein family. The product of this gene is a prenylated and palmitoylated phosphoprotein that associates with the cytoplasmic face of plasma membranes and is implicated in plasma membrane dynamics in neurons and other cell types. Several alternatively spliced transcript variants have been identified, but the full-length nature of only two transcript variants has been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG207112