

Product datasheet for SC310937

Paralemmin (PALM) (NM_001040134) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Paralemmin (PALM) (NM_001040134) Human Untagged Clone
Tag:	Tag Free
Symbol:	PALM
Synonyms:	PALM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC310937 representing NM_001040134. Blue=Insert sequence Red=Cloning site Green=Tag(s)

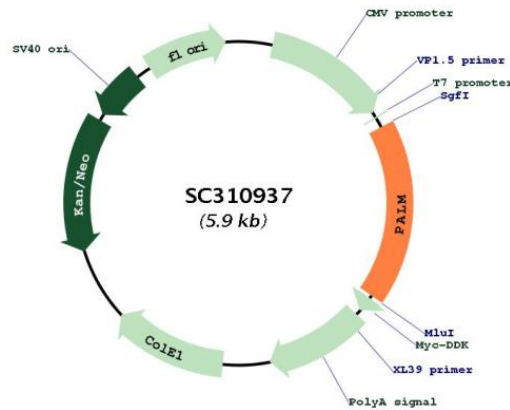
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGAGGTCTGGCGGCAGAGACCAGTCCCAGCAGGAGCGGCTGCAGGCCATCGCAGAGAAGCGGAAG
CGGCAGGCGGAGATCGAGAACAAGCGCCGGCAGCTGGAGGACGAGCGGAGGCAGCTGCAGCACCTGAAG
TCCAAGGCACTGCGGGAGCGCTGGCTGCTGGAGGGGACGCCGTCCTCGGCCTCAGAGGGGGATGAGGAC
CTGAGGAGGCAGATGCAGGACGACGAGCAGAAGACACGGCTGCTGGAGGACTCGGTGTCCAGGTTGGAG
AAGGAAATTGAGGTGCTGGAGCGTGGAGACTCCGCCCCAGCCACTGCCAAGGAGAACCGCGCGGCCCG
AGCCAGTCCGGGCCCGAGCCCCGAGTCCAGCCAAGGAGGAGCGCAAGACAGAGGTGGTGAATTCA
CAGCAGACGCGCGTGGGCACGCCAAAGACAAGCGAGTCTCCAACACGCCCTGAGGACGGTTGACGGC
TCCCCATGATGAAGCAGTGGTCCATGCTGTGGACGGCACCGCCGAGAACGGGATCCACCCCTGAGC
TCTCCGAGGTGGACGAATCATCCACAAGCGGACGAGGTCACGCTGAGCGAGGCAGGGTCCACGGCC
GGGCGGCAGAGACCCGGGGGGCTGTGGAGGGGGCAGCCCGACCCAGCCCTCCCGCGGGAGATCACC
GGTGTGCAGGCACAGCCAGGCGAGGCCAGTCCGGCCCGCGGGATCCAGCCCGCCAGGAGCCCCCG
GTCACAATGATCTTCATGGTTACCAGAACGTGGAGGATGAGGCCGAGACCAAGAAGGTGCTGGGCTT
CAAGATACCATCACGGCGGAGCTGGTGGTCATCGAAGACGCGGCTGAGCCAAGGAGCCTGCACCACCC
AACGGCAGTGTCCGAGCCTCCACGGAGGCCGCTCCAGGGAAGAGAATCAGGCGGGGCCGAGGCC
ACCACCAGCGACCCAGGACCTCGACATGAAGAAGCACCGTTGTAATGCTGCTCCATCATGTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM_001040134

Insert Size: 1032 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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.

RefSeq: [NM_001040134.1](#)

RefSeq Size: 2758 bp

RefSeq ORF: 1032 bp

Locus ID: 5064

UniProt ID: [O75781](#)

Cytogenetics: 19p13.3

MW: 37.2 kDa

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 2), compared to isoform 1.