

Product datasheet for **RG206919**

PALM2AKAP2 (NM_001037293) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PALM2AKAP2 (NM_001037293) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PALM2AKAP2
Synonyms:	AKAP-2; AKAP-KL; AKAP2; AKAPKL; MISP2; PALM2; PALM2-AKAP2; PRKA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206919 representing NM_001037293 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCAGAGGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCAGAAAAAGAAAGAGGCAGACTGAAA
TAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCATTCCAAGTCCAAAGTGCCTTCG
GGAGAAATGGCTGCTGCAGGGCATAACCGCTGGAAGTCCGAAGAGGAGGAAGCCAGGAGGCGCAGTCT
GAAGAGGATGAGTTCAGAGTCAAGCAACTTGAAGATAACATTAGAGGCTGGAGCAAGAAATACAAACGC
TAGAAAGTGAAGAGTCCCGGATATCTGCCAAAGAGCAAATCATCCTAGAGAACTGAAGGAAACAGAAAA
ATCCTTCAAGGACTTTCAGAAGGTTTCTCCAGTACGGATGGAGCTGTGTACGCCATGAAATTAATGTG
GAGAAAGACAAACAAACAGGAGAGACCAAGATCCTCTCTACATCTACCATTGGCCAGAGGGGTCCATC
AGAAAGGAGTCAAAGTCTATGATGATGGTACCAAAGTAGTGTATGAGGTGCGCTCAGGAGGCACCGTAGT
AGAAAAATGGAGTGCACAAATTAAGCACAAGGATGTAGAAGAGCTTATTCAGAAGGCTGGACAATCAAGC
TTAGGAGGAGGGCACGTGTCTGAAAGGACTGTGATTGCAGATGGGAGCCTCAGCCATCCCAAGGAACACA
TGCTCTGCAAAGAAGCTAAGTTAGAAATGGTACATAAGTCTAGGAAAGACCATTCTCCGGGAACCCAGG
GCAGCAGGCCCAAGCCCCAGCGCTGCAGGGCCGAGGCAAACCTGGATCAGCCCGTACCATGATTTTT
ATGGGCTACCAAAATATCGAGGATGAAGAGGAGACGAAAAAGGTGCTAGGCTATGATGAAACCATCAAGG
CTGAATTGGTCTCATTGATGAAGATGATGAGAAGTCATTGAGGGAGAAGACAGTGACGGACGTGTCCAC
TATTGACGGGAACCGGGCTGAGCTTGTGTCCGGGAGGCCGGTCTCAGACACCACAGGCCCTCATCCCCA
GAAGGGAAGGAAGAGAGCCTAGCTACAGAGCCAGCCCCAGGTACCAAAAAGAAAAAGCGCTGCAATGCT
GTGTTGTCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG206919 representing NM_001037293
Red=Cloning site Green=Tags(s)

MAEAELHKERLQAI AEKRKRQTEIEGKRQQLDEQILLQHSKSKVLREKWLQGI PAGTAE EEEA RRRQS
 EEDEF RVKQLEDNIQRLEQEIQTLESEESRISAKEQIIILEKLKETEKSFKDFQKGF SSTDGAVYAMEINV
 EKDKQTGETKILSTSTIGPEGVHQKGVKVVYDDGTVVYEVRS SGTVVENG VHKLSTKDVEELIQKAGQSS
 LGGGHVSERTVIADGSLSHPKEHMLCKEAKLEMVHKSRKDHSSGNPGQQAQAPSAAGPEANLDQPVTMIF
 MGYQNI EDEEETKKVLGYDETIK AELVLI DEDEKSLREKTVTDVSTIDGNAAELVSRPVS DTTTEPSSP
 EGKEESLATEPAPGTQKKKRCQCCVVM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001037293

ORF Size: 1131 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.

RefSeq: [NM_001037293.1](#), [NP_001032370.1](#)

RefSeq Size: 9261 bp

RefSeq ORF: 1140 bp

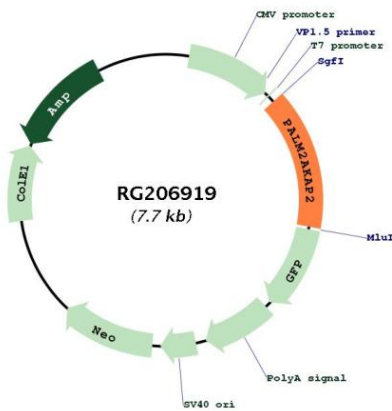
Locus ID: 445815

UniProt ID: [Q8IXS6](#)

Cytogenetics: 9q31.3

Gene Summary: This gene belongs to the paralemmin downstream gene (PDG) family defined in PMID:22855693. Paralemmin downstream genes may have evolved contiguously with the paralemmin genes and are associated with other paralemmin paralogs in humans and several other taxa. The gene encodes three distinct protein isoforms, the PALM2 isoform, the AKAP2 isoform and the PALM2-AKAP2 isoform. The biological significance of the PALM2-AKAP2 isoforms is yet unknown. Earlier, PALM2 and AKAP2 were annotated as separate genes and PALM2-AKAP2 was annotated as a readthrough gene. [provided by RefSeq, May 2019]

Product images:



Circular map for RG206919