

## Product datasheet for **SC306295**

### **PALM2AKAP2 (NM\_147150) Human Untagged Clone**

#### **Product data:**

**Product Type:** Expression Plasmids  
**Product Name:** PALM2AKAP2 (NM\_147150) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PALM2AKAP2  
**Synonyms:** AKAP-2; AKAP-KL; AKAP2; AKAPKL; MISP2; PALM2; PALM2-AKAP2; PRKA2  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_147150, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAGGCGGAATTGCACAAGGAAAGGCTGCAAGCCATAGCAGAAAAAGAAAGAGG
CAGACTGAAATAGAAGGCAAGCGACAACAGCTTGACGAGCAGATACTTCTGCTGCAGCAT
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TCGAACGCCACAGAAACATCCGGCCAGACATGACTATCAAGAAGCCTCCCCAGCTTTCT
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GACAAAGCAAAGGAGGACATTGTACAGAGCAGATAGATTTCTCTGCTGCTCGCAAAACAA
TTTCAGCTGATGGAGAATTCAGGCAAGCGGTGGCCAAGGGCCAGAGTACACCCAGGCTG

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TTCTCCATCAAGCCTTTCTACAGGCCTCTGGGGTCACTCAACTCAGACAAGCCACTGACT
AATCCGAGACCACCTTCTGTCTGGGGGACCTCCAGAAGACAGTGGTGCCTCAGCCGCAAG
GGACAGAAATCCCCCGGTGCCCTGGAGACCCCATCGGCAGCAGGAAGCCAGGGCAACACA
GCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTGGGCCCTTATCTAAA
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GATGACCATGGGATTTTGGATCAGTTCTCAAGATCTGTCAATGTCTCCTTGACCCAAAGAG
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TTAGCCCCTGAAGAGGCTGCCGGAACCCAGCGGCCAAGAAATCTGATGCAGACCCATG
GAAGACTATGAGACACACAAATCTAAAAGCGCGAGAGAATGGATGATAGTAGTGTCTCCTC
GAGGCCACACGGTTAATCGAAGAAAGAGCGCACTGGCTTTGCGCTGGGAAGCAGGGATC
TATGCCAACAGGAGGAAGAAGACAACGAATAA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_147150
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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\\_147150.1](#), [NP\\_671492.1](#)

RefSeq Size: 5180 bp

RefSeq ORF: 3273 bp

Locus ID: 445815

UniProt ID: [Q9Y2D5](#)

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]  
Transcript Variant: This variant (4) represents isoform 4 (PALM2-AKAP2).