

Product datasheet for **SC325364**

PALM2AKAP2 (NM_001136562) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PALM2AKAP2 (NM_001136562) Human Untagged Clone
Tag:	Tag Free
Symbol:	PALM2AKAP2
Synonyms:	AKAP-2; AKAP-KL; AKAP2; AKAPKL; MISP2; PALM2; PALM2-AKAP2; PRKA2
Vector:	<u>pCMV6 series</u>



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001136562, the custom clone sequence may differ by one or more nucleotides

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ATGGAAATTGAGGTGTCTGTTGCAGAATGTAAAAGTGTTCCTGGAATCACCTCTACCCCA
CATCCCATGGACCATCCCTCCGCTTTCTATTACCCCCGCATAATGGCCTCCTTACTGAT
CACCACGAATCCCTGGATAATGATGTTGCCAGAGAGATCCGCTATCTAGATGAGGTGCTA
GAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATGGAACATCCTCCCCAGAG
CCTGGTGCAGTGGTTCTGGTGGGCGGCCTAAGCCCCCTGTCCACGAGGGCAGCCAGCCA
GAACCCACTGAAAGAACAGCTAGCCGGCAGGCACCTCCTCACATCGAGCTCAGTAATAGC
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GATGCGCTGGGGGACAGCCTGCAGGTGCCTGTCAGCCCCAGCTCCACAACCAGCTCACGG
TGTTCTTCCCAGATGGAGAGTTCACTCTACCACACTGAAAAAGGAGGCCAAGTTTGAG
CTGCGTGCCTTCCATGAGGACAAGAAGCCCTCCAAGCTCTTTGAGGATGACGAGCATGAG
AAAGAACAATACTGCATTAGAAAAGTGAGGCCTTCAGAGGAGATGCTGGAGCTGGAAAAG
GAGAGGAGAGAGTCTATCCGAGCCAGGCCGTCAAGAAGATCCTGGCATTGCAGCAAAA
TGGTGGAATCCCCCGCAGGAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTGGAG
TCGCACAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTTGGTGCTG
CAGAAGCAGTTACAGCAGCAGCAGCAGCAGCCCCATCGCAGCTCTGCACAGCCCCTGCC
TCTTCTCATGAACGCGCAAGCATGATTGACAAAGCAAAGGAGGACATTGTACAGAGCAG
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GAAGACAGTGGTCCCTCAGCCGCCAAGGGACAGAAATCCCCCGGTGCCCTGGAGACCCCA
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CCTTCTAAACGTGGGCCCTTATCTAAACTGTGGGCTGAGGATGGAGAATTTACGAGCGCC
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TCCAAGTCATTTAGTGATCATGGTTTCTATTCCCCTTCTCCACGCTGGGGGACTCTCCG
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CAGAGCATGTTTGAGCCACCTCAGGTGTCTTCTCCTGTTCAAGAGAAAAGGGATGTATTA
CCAAAGATTCTGCCTGCTGAAGACAGGGCGCTCAGGGAAGGGGGCCCCCAGCCACTG
CCAGCTGTGCAGCCAGTGGCCGATTAACATGGAGGAGACCAGGCCGAAGGAAGCTAT
TTCAGCAAGTACTCGGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAA
GAATCTGACGTGATGGTTGGGCTTTCAAGCTGAGGTCCAGGAAACAGCGGACTTTGTCC
ATGATTGAGGAAGAGATCCGAGCAGCTCAGGAAAGGGAAGAGGAGCTGAAGAGGCAGAGA
CAAGTCTTGCAGAGTACGCAGAGCCCCAGGACAAAGAATGCCCCATCACTGCCCTCCAGA
ACATGCTACAAAAGTCTCCAGGAAAATAGAGAAAAGTCAAACCTCCTCCATCCCCCACC
ACTGAAGGCCCCAGCTTGCAGCCTGACTTAGCCCTGAAGAGGCTGCCGGAACCCAGCGG
CCCAAGAATCTGATGCAGACCCTCATGGAAGACTATGAGACACACAAATCTAAAAGGCGC
GAGAGAATGGATGATAGTAGTGTCTCGAGGCCACACGGGTTAATCGAAGAAAGAGCGCA
CTGGCTTTCGCTGGGAAGCAGGGATCTATGCCAACAGGAGGAAGAAGACAACGAA

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Restriction Sites: Please inquire
ACCN: NM_001136562
Insert Size: 6815 bp

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:	<ol style="list-style-type: none"> 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:	<u>NM_001136562.1</u> , <u>NP_001130034.1</u>
RefSeq Size:	6815 bp
RefSeq ORF:	2580 bp
Locus ID:	445815
UniProt ID:	<u>Q9Y2D5</u>
Cytogenetics:	9q31.3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (7) encodes isoform 7 (AKAP2). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>