

## Product datasheet for **RC230886**

### **PALM2AKAP2 (NM\_001198656) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PALM2AKAP2 (NM_001198656) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PALM2AKAP2
Synonyms:	AKAP-2; AKAP-KL; AKAP2; AKAPKL; MISP2; PALM2; PALM2-AKAP2; PRKA2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230886 representing NM\_001198656  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCGCTGGCCCCAGCCGGGGCTGCCGCTCGCCTTCCCCGGAGTCTCCTGGACCCCCGGAGTCTCCTG  
 GACCCCCGGAGCGGGAGGCAGCGCCGCGCGCTGGACTGGAGCAGAACCCCAGGACTGCGCCCCGG  
 GAGCGGGCGCCCAGAGAAGCCTCCCAAGCTTTCTGAGGATGATATCTGGCTAAAAAGCGAGGGAGACAAC  
 TATAGTGCACCCCTCTGGAGCCTGCTGCCAGCTCTTTCCCCAGATCACAAAAACATGGAATTGAGG  
 TGTCTGTTGAGAATGTAAAAGTGTCTGGAATCACCTCTACCCACATCCCATGGACCATCCCTCCGC  
 TTTCTATTCACCCCGCATAATGGCCTCCTTACTGATCACCACGAATCCCTGGATAATGATGTTGCCAGA  
 GAGATCCGCTATCTAGATGAGGTGCTAGAGGCCAACTGCTGTGATTCTGCTGTGGATGGAACGTACAATG  
 GAACATCCTCCCAGAGCCTGGTGCAGTGGTTCTGGTGGGCGCCTAAGCCCCCTGTCCACGAGGGCAG  
 CCAGCCAGAACCCTGAAAGAACAGCTAGCCGGCAGGCACCTCCTCACATCGAGCTCAGTAATAGCAGC  
 CCTGACCCCATGGCAGAGGCAGAAAAGAACAATGGCCATTCACCCAGCCAGCCTAGAGATGCGCTGGGGG  
 ACAGCCTGCAGGTGCCTGTCAGCCCCAGCTCCACAACCAGCTCACGGTGTCTTCCCAGATGGAGAGTT  
 CACTCTCACCACTGAAAAAGGAGGCCAAGTTTGGAGTGCCTTCCATGAGGACAAGAAGCCCTCC  
 AAGCTCTTTGAGGATGACGAGCATGAGAAAAGAACAATACTGCATTAGAAAAGTGAGGCCCTCAGAGGAGA  
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 AGCAAAATGGTGAATCCCCCGCAGGAAAAAACCATCGAGGAGCAGCTGGACGAGGAACATCTGGAGTCG  
 CAAAAAAGTACAAGGAGCGCAAAGAGAGAAGGGCACAGCAGGAACAGTTGCTGCTGCAGAAGCAGTTAC  
 AGCAGCAGCAGCAGCAGCCCCATCGCAGCTCTGCAGCCCCCTGCCTTCTCTCATGAACGCGCAAGCAT  
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 TCTACAGGCCCTGGGGTCACTCAACTCAGACAAGCCACTGACTAATCCGAGACCACCTTGTGCGGGG  
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 GCAGCAGGAAGCCAGGGCAACACAGCCTCTCAGGGGAAGGAAGGGCCCTACAGCGAGCCTTCTAAACGTG  
 GGCCCTTATCTAACTGTGGCTGAGGATGGAGAATTTACGAGCGCCGGGCTGTCTCACTGTGGTCAA  
 GGATGATGACCATGGGATTTGGATCAGTTCTCAAGATCTGTCAATGTCTCCTTGACCAAGAGGAGCTT  
 GACTCTGGTCTGGACGAATTGTGCGTGAGTCTCAGGATACCACAGTCTGGAGACCCTATCCAATGATT  
 TCAGCATGGACAACATCAGTGACAGCGGGCATCCAATGAGACAACCAATGCCCTCCAGGAAAATCACT  
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 AAGTCAATTAGTGATCATGGTTTCTATTCCTTCCACGCTGGGGGACTCTCCGTTGGTTGATGACC  
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 AGCAAGTACTCGAGGCAGCTGAGCTGAGAAGCACAGCCTCCCTCCTGGCCACTCAAGAATCTGAGGTGA  
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 AAGAATGCCCCATCACTGCCCTCCAGAACATGCTACAAAAGTCTCCAGGGAAAAAGAGAAAGTCAAAC  
 CTCCTCCATCCCCACCACTGAAGGCCAGCTTGCAGCCTGACTTAGCCCTGAAGAGGCTGCCGGAAC  
 CCAGCGGCCCAAGAATCTGATGCAGACCCTCATGGAAGACTATGAGACACAAAACTAAAAGGCGCGAG  
 AGAATGGATGATAGTACACTTCTAAGTACTGTCTTGAAGGTGACTTCCGAGTCTCGAGGCCA  
 CACGGTTAATCGAAGAAAGAGCGCACTGGCTTTCGCTGGGAAGCAGGGATCTATGCCAACAGGAGGA  
 AGAAGACAACGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC230886 representing NM\_001198656  
 Red=Cloning site Green=Tags(s)

MRWPQPGAAARLPPESPGPPESPGPPERAAAAARRWTGAEPQDCAPGSGRPEKPPQLSEDDIWLKSEGDN  
 YSATLLEPAASSLSPDHKNMEIEVSVAECKSVPGITSTPHPMDHPSAFYSPPHNGLLTDHHESLDNDVAR  
 EIRYLDEVLEANCDSAVDGTYNGTSSPEPGAVLVGGLSPPVHEATQPEPTERTASRQAPPHIELSNSS  
 PDPMAEAERTNGHSPSQPRDALGDSLQVPVSPSSTSSRCSRDGEFTLTTLKKEAKFELRAFHEDKKPS  
 KLFEDDEHEKEQYCIKVRPSEEMLELEKERRELI RSQAVKKNPGIAAKWNNPPQEKTIIEEQLDEEHLES  
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 LMENSRQAVAKGQSTPRLF SIKPFYRPLGVSNSDKPLTNPRPPSVGGPPEDSGASAAKGQKSPGALETPS  
 AAGSQGNTASQKKEGYPYSEPSKRGPLSKLWAEDGEFTSARAVLTVVKDDDHGILDQFSRSVNVSLTQEEL  
 DSGLDEL SVRSQDTTVLETL SNDF SMDNISDSGASNETTALQENSLADFSLPQTPQTDNPSEGRGEGVS  
 KFSFDHGFYSPSSTLGD SPLVDDPLEYQAGLLVQNAIQQAIAEQVDKAVSKTSRDGAEQQGPEATVEEAE  
 AAAGSEKQPQSMFEPQVSSPVQEKRDVLPKILPAEDRALRERGGPQPLPAVQPSGPINMEETRPEGSYF  
 SKYSEAAELRSTASLLATQESDVMVGPFLRSRKQRTL SMIEEEEIRAAQEREELKRQRQVLQSTQSPRT  
 KNPASLPSRTCYKTAPGKIEKVKPPSPTEGSLQPDLAPEEAAGTQRPNLMQTLMEDYETHSKRRE  
 RMDSSSYTSKLLSCKVTSEVLEATRNVRRKSALALRWEAGIYANQEEEDNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

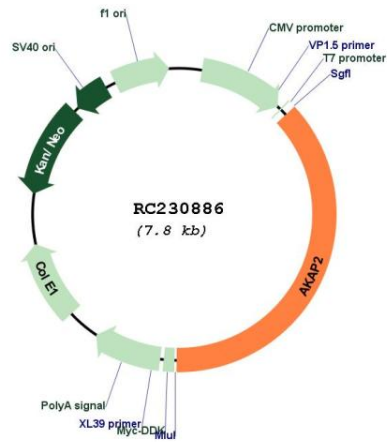


**ACCN:** NM\_001198656

**ORF Size:** 2883 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001198656.1</a> , <a href="#">NP_001185585.1</a>
<b>RefSeq ORF:</b>	2886 bp
<b>Locus ID:</b>	445815
<b>UniProt ID:</b>	<a href="#">Q9Y2D5</a>
<b>Cytogenetics:</b>	9q31.3
<b>MW:</b>	106 kDa
<b>Gene Summary:</b>	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 RC230886