

Product datasheet for **RC208189**

PALB2 (NM_024675) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PALB2 (NM_024675) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | PALB2 |
| Synonyms: | FANCN; PNCA3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC208189 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGACGAGCCTCCCGGAAGCCCTCAGCTGTGAGGAGAAGGAAAAGTTAAAGGAGAAATTAGCATTCT
TGAAAAGGGAATACAGCAAGACTAGCCCGCCTCAGCGTGCCCAAAGAGCTGAAAAGATTAAGCATTCT
TATTAAGAAAACAGTAGAAGAACAAGATTGTTTGTCTCAGCAGGATCTCTACCCGAGCTAAAACACTCA
GAACCTAAAAATAAATATGTGTTTATGACAAGTTACACATCAAACCCATCTTGATGAAGAACTGGAG
AAAAGACATCTATCACACTTGATGTTGGCCTGAGTCCTTAACCCTGGAGATGGCCAGGAGGATTACC
TATACAAAGAACAGATGACACCCAAGAACATTTCCCCACAGGGTCAGTGACCCTAGTGGTGAGCAAAAG
CAGAAGCTGCCAAGCAGAAGAAAGAAGCAGCAGAAGAGGACATTTATTTACAGGAGAGAGACTGTGTCT
TTGGCACTGATTCAGTCTGATGTTGGGAAAAGACTAAAGGAACAGGAAGAAATCAGTAGCAAAAATCC
TGCTAGATCACAGTAAGTAAAGAACTCACCTTTAAGTCTTAAATCTGAACCTCCAGATTCTCCA
GAACCAAGTACAGAAATTAATGAAGACAGTGTATTAATCCACCAACTGCCCAACCAGAAAAAGGTGTTG
ATACATTCCTAAGAAGACCTAATTTACCAGGGCGACTACAGTTCCTTTACAGACTCTATCAGATAGCGG
TAGTAGTCAGCACCTTGAACACATTCTCCTAAAGGTAGCAGTGAACCTACTACTCAGCACTAAAAAAC
ATTAGATTTACTCACCTGTAAGTTTGGAGGCACAAGGCAAAAAATGACTGTCTCTACAGATAACCTCC
TTGTAATAAAGCTATAAGTAAAAGTGGCCAAGTCCCAAGTTCTAATTTAGAGGCAAAATATTTTCATG
TTCTCTAAATGAACTCACCTACAATAAATTACCAGCAAATGAAAACCAAACTTAAAAAGAACAAAATCAA
ACAGAGAAATCTTTAAAATCTCCAGTGACACTCTTGATGGCAGGAATGAAAATCTTCAGAAAAGTGAGA
TTCTAAGTCAACCTAAGAGTCTTAGCCTGGAAGCAACCTCTCCTTTCTGCAGAAAAACATTCTTGAC
AGTGCCTGAAGGCCTTCTGTTTCTGCAGAAATATTATGTTAGAACAACACGAAGCATGTCCAATTGCCAG
AGGAAAGTAGCCGTGGAGGCTGTCATTCAGAGTCAATTTGGATGTCAAGAAAAAAGGGTTAAAAATAAAA
ATAAGGATGCAAGTAAAAATTTAAACCTTTCCAATGAGGAACTGACCAAGTGAATTAGGATGTCTGG
CACATGCACAGGACAACCAAGTCAAGAACCTCTCAGAACTTCTCTATTAACCTAAAGTCAAGTCTCC



[View online »](#)

GCTGGGCCACTGAAGATAATGACTTGTCTAGGAAGGCAGTTGCCCAAGCACCTGGTAGAAGATACACAG
 GAAAAAGAAAAATCAGCCTGCACCCAGCATCAGATCATTGTGAACCACTTTTGCCAACTTCTAGCCTGTC
 GATTGTTAACAGGTCCAAGGAAGAAGTCACCTCACACAAATATCAGCACGAAAAATTATTTATTTCAAGTG
 AAAGGGAAGAAAAGTCGTCATCAAAAAGAGGATTCCTTTCTTGGAGTAATAGTGCTTATTTATCCTTGG
 ATGATGATGCTTTCACGGCTCCATTTATAGGGATGGAATGCTGAGTTTAAAGCAACTACTGTCTTTTCT
 CAGTATCACAGACTTTCAGTTACCTGATGAAGACTTTGGACCTTTAAGCTTGAAAAAGTGAAGTCCTGC
 TCAGAAAAACCAGTGGAGCCCTTTGAGTCAAAAATGTTTGGAGAGAGACATCTTAAAGAGGGAAGCTGTA
 TTTTCCAGAGGAAGTGAAGTCCAAACGCATGGATACAGAAATGGAGGACTTAGAAGAGGACCTTATTGT
 TCTACCAGGAAAAATCACATCCCAAAAGGCCAAACTCGCAAGCCAGCATACAAAGACGGGCTTTCTTCA
 TCCATATACTTTATACTCCTTTAAATACGGTTGCGCCTGATGATAATGACAGGCCTACCACAGACATGT
 GTTCACCTGCTTTCCCATCTTAGTACTACTCCAGCCTTTGGCCCTCAAGGCTCCTATGAAAAAGCATC
 TACAGAAGTTGCTGGACGAAGTGTGTCACACCCCAACTGTCTATTTGAAAGACTCAGTCTGTCTTGGC
 AGTGATACTAAACAATTCGACAGTTCAGGCAGCCAGCAAAACCACATACCACCTGCAAGTGTGAGGCA
 GGCAAGGACAACCTACCTGTGACTGTGACTCTGTCCCGCCAGGAACACCTCCACCCATTGAGTCATTAC
 TTTTAAAGAAAAATCAGCTCTGTAGAAACACATGCCAGGAGCTGCATAAACATTCCGTCGAACAGACTGAA
 ACAGCAGAGCTTCTGCTTCTGATAGCATAAACCCAGGCAACCTACAATTTGGTTTTCAGAGTTAAAGAATC
 CTTCAGGTTCTGTTCCGTAGATGTGAGTGCCATGTTTTGGGAAAGAGCCGGTTGTAAGAGCCATGTAT
 CATAACTGCTTGGGAAGATGTAGTTTCTTTGGAAAGCTCTGGATGCTTGGCAGTGGGAAAAACTTTAT
 ACCTGGCACTTCCAGAGGTTCCAGTATTACAGATAGTCCAGTGCCATGTGTATAATCTCGTGTGTG
 TAGCTTTGGGAAATTTGGAAATCAGAGAGATCAGGGCATTGTTTTGTTCTCTGATGATGAAAGTAAAA
 GCAAGTACTACTGAAGTCTGAAATATAAAAGCTGTGCTTGGCCTGACAAAGAGGAGGCTAGTTAGTAGC
 AGTGGGACCTTTCTGATCAACAAGTAGAAGTCATGACGTTTGCAGAAGATGGAGGAGGCAAGAAAACC
 AATTTTTGATGCCCCCTGAGGAGACTATACTAATTTTGGCTGAGGTCCAAGGGATGCAAGAAGCTGCTGCT
 TGGTACTACTATTATGAACAACATTGTTATTTGGAATTTAAAAACTGGTCAACTCCTGAAAAAGATGCAC
 ATTGATGATTCTTACCAAGCTTCAGTCTGTACAAAGCCTATTCTGAAATGGGGCTTCTTTTATTGTCC
 TGAGTCATCCCTGTGCCAAAGAGAGTGAGTCGTTGCGAAGCCCTGTGTTTTCAGCTCATTGTGATTAACCC
 TAAGACGACTCTCAGCGTGGGTGTGATGCTGTACTGTCTTCTCCAGGGCAGGCTGGCAGGTTCTGGAA
 GGTGACGTGAAAGATCACTGTGCAGCAGCAATCTGACTTCTGGAACAATTGCCATTTGGGACTTACTTC
 TCGGTGAGTACTGCCCTCCTCCACCTGTCTCTGACCAACATTGGTCTTTTGTGAAATGGTCGGGTAC
 AGACTCTCATTTGCTGGCTGGACAAAAAGATGGAATATATTTGTATACCACTATTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC208189 protein sequence
Red=Cloning site Green=Tags(s)

MDEPPGKPLSCEEKEKLKEKLAFLKREYSKTLARLQRAQRAEKIKHSIKKTVEEQDCLSQDLSPOLKHS
 EPKNKICVYDKLHIKTHLDEETGEKTSITLDVGPESFNPGDGPGGLPIQRTDDTQEHFPHRVSDPSGEQK
 QKLPSSRRKKQQRKFISQERDCVFGTDSLRLSGKRLKEQEEISSKNPARSPVTEIRTHLLSLKSELPSD
 EPVTEINEDSVLIPPTAQPEKGVDTFLRRPNFTRATTVPLQTLSDSGSSQHLLEHIPPKGSSSELTHDLKN
 IRFTSPVLSLEAQGKMTVSTDNLLVNKATSKSQQLPTSSNLEANISCSLNELTYNNLPANENQNLKEQNQ
 TEKSLKSPSDTLDGRNENLQSEILSQPKSLSLEATSPLSAEKHSCTVPEGLLFPAYEYVTRTRMSNCQ
 RKVAVEAVIQSHLDVKKKGFKNKNKDASKNLNLSNEETDQSEIRMSGTCTGQPSSRSTQKLLSLTKVSSP
 AGPTEDNDLSRKAVAQAPGRRYTGKRKSACTPASDHCEPLLPTSSLIVNRSKEEVTSHKYQHEKLFIQV
 KGKSRHQKEDSLSWSNSAYLSLDDDAFTAPFHRDGMLSLKQLLSFLSITDFQLPDEDFGPKLEKVKSC
 SEKPVPEFESKMFGERHLKEGSCIFPEELSPKRMDEMEDLEEDLIVLPGKSHPKRPNSSQSHTKTGLSS
 SILLYTPLNTVAPDDNDRPTTDMCSPAFPILGTTPAFGPQGSYKASTEVAGRTCCTPQLAHLKDSVCLA
 SDTKQFDSSGSPAKPHTTLQVSGRQGPQTCDCDSVPPGTPPPPIESFTFKENQLCRNTCQELHKHSVEQTE
 TAEHPASDSINPGNLQLVSELKNPSSGSCVDVSAMFWERAGCKEPCIITACEDVVSLLWKALDAWQWEKLY
 TWHFAEVPVLQIVPVPDYVNLVVALGNLEIREIRALFCSSDDESEKQVLLKSGNIKAVLGLTKRRLVSS
 SGTLSDDQVEVMTFAEDGGGKQFLMPPEETILTFAEVQGMQEALLGTTIMNIVVWNLKTGQLLKKMH
 IDDSYQASVCHKAYSEMGLLFIVLSHPCAKESESLRSPVFLIVINPKTTLVGVMLYCLPPGQAGRFLF
 GDVKDHCAAAAILTSGTIAIWDLLLQCTALLPPVSDQHWSFVKWSGTDSHLLAGQKDGNIFFVYHS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6262_e08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

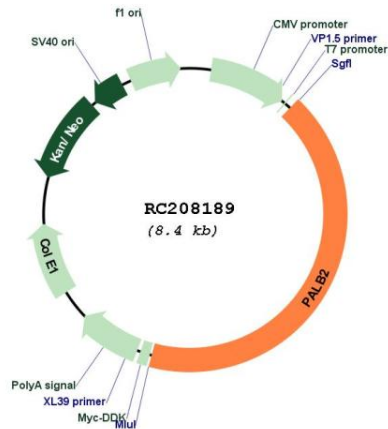


ACCN: NM_024675

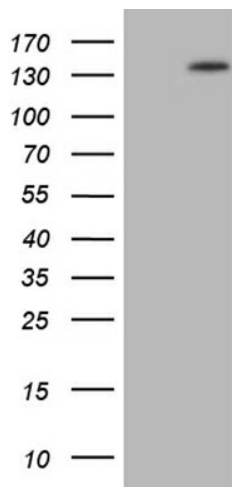
ORF Size: 3558 bp

| | |
|-------------------------------|---|
| 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: | <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: | NM_024675.4 |
| RefSeq Size: | 4069 bp |
| RefSeq ORF: | 3561 bp |
| Locus ID: | 79728 |
| UniProt ID: | Q86YC2 |
| Cytogenetics: | 16p12.2 |
| MW: | 131.3 kDa |
| Gene Summary: | This gene encodes a protein that may function in tumor suppression. This protein binds to and colocalizes with the breast cancer 2 early onset protein (BRCA2) in nuclear foci and likely permits the stable intranuclear localization and accumulation of BRCA2. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC208189



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PALB2 (Cat# RC208189, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PALB2 (Cat# [TA806541])(1:500).