

Product datasheet for **MC229262**

Palld (NM_001293773) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Palld (NM_001293773) Mouse Untagged Clone
Tag: Tag Free
Symbol: Palld
Synonyms: 2410003B16Rik; 6030492A02
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229262 representing NM_001293773
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCACAAGCTCAGAAGAAAACAACGTCGGTTTCCTTAACGATAGGATCCTCAGCTCCGAAAACAGGAG
 TGACCACAGCTGTGATTCAGCCCTATCTGTGCCCGTCCAACAGGCTCACAGCGCTACTTCATATCTCTG
 CCGACCTGACGGAACCACCATGGGCTGCCTTCTCCTGTTTTACTAAGGAACTACAGAACACAGCAGCC
 TCCGAGGGCCAGGTGGTGGTGTGGAATGCAGAGTCCGAGGGGCACCCCGCTGCAGGTCCAGTGGTTCC
 GGCAAGGAAGTGAGATCCAAGACTCTCCGACTTCAGAATTCTCCAGAAAAAACCCAGATCGACAGCTGA
 ACCCGAGGAGATCTGCACCCTTGTCACTGCTGAGAGTTTCCCTGAAGATGCAGGCATCTTACCTGCTCA
 GCCACAAATGACTACGGCTCAGTGACCAGCACTGCACAGCTTGTATAACCTCCGCCAACACGAGAAGT
 GTAGTTACGACTCAACAGGAGAACCAACAGTGATCACTTCCAACACTTCCACCTCCCCCTCCGATCCT
 GGAGACAGGCTCCTATGAGCTGGCATCCAGAAACCATCTGAAATCCAGCAGGTGAACAGCCCCAATTTA
 GGATTTAGCATGGCAGCTCTTCAAATGCAATTAACACTGCAGAGAGGGAGACCAACGGAGTCCATCCCA
 GCCATGGAGTCAACGGGCTGATTAATGGCAAAGCTTATGGCAATAAATCTCCTCCAACACCAACTGCCCT
 GCTTTCACCCACTAAGGAACCACCGCACTCCTTGCCAAACCCAACTGGATCCTCTGAAGCTTCAGCAG
 CTGCAGAACCAAGTGCGCCTGGAACAGGAGGCCTGCGCCTGGCCCCAGCGCCCCAGGTGTCCCTTGCA
 ACAGCAGCAGCAGCGGCAGCAGCGCGCCCCGTCGCGCCCTTCCCCCACCGCCACCAGCCTTTCGGGA
 GCTCGGGCCTGTGCGTCGCGGTGCCCTCGGAGCCCATGAGCGCTCTGGCCTCCCGCGCTACCGCCATG
 CAGTCTCCGGCTCCTTCAACTACGCGGCCCTAAGCAGTTTCATCGCGGCGCAGAACCTGGGTCCCGCAT
 CGGGGCTGCCACGCCAACCTCCAGCCCCAGCTCCTCCAGCTTGGCGTACCATTGTCCCCACGCCAG
 GCCCTTCGGCCGCGCCCGGGCCGCCCTTCGTGGAACCCGAGGCCATGTGGGGCCCGTCTCGCCCTCG
 CCGCCACCGCCGCCACCTCCGGTCTTCCAGCCCCCTGCAGCCTACCCGGTGCCCGACGTGTCCACTGC
 CACCGCCGCCGCCACCGCTACCTAGCTCCACCTCACACTGCGCCTCGCCCGCCCGTTCGGCCCCAGCCA
 GACGCCCGCAGCCTTCTCAGCGCCTGCTGCCCTCTCAGCCACCGCCTGTGCGTGTCAACGCCCTGGGG
 CTGCCAAGGGAGTACCCCCGCGGGTCCCAAAGAAGTCCAGTAGAACTGCTAGAATTGCCTCTGATG



AGGAGATTCAAGGCACAAAGGATGCTGTTCATCCAAGACCTGGAACGGAAGCTTCGCTTCAAGGAGGACCT
TCTGAACAATGGCCAACCGAGGCTAACCTATGAGGAAAGAATGGCTCGCCGCTGCTTGGAGCCGACAGC
GCAAACGTCTTCAACATCCAGGAGCCAGAGGAAACGGCAGCCAATCAGGAGTACAAAGTCTCTAGCTGCG
AGCAGAGGCTGATTAGCGAGATTGAGTACCGGCTGGAGCGCTCCCCTGTGGATGAGTCGGGAGACGAGGT
GCAGGATCCAGATGTGCCTGTGGAGAACGCAACAGCTCCCTTCTTTGAGATGAAGCTGAAACACTACAAG
ATCTTTGAGGGGATGCCGGTGACTTTCACGTGTCGAGTGGCTGGGAATCCAAAGCCAAAGATCTATTGGT
TTAAAGATGGGAAGCAGATTTCTCCGAAGAGCGATCACTACACCATTAGAGAGACCTTGTGGGACCTG
CTCTCTCACACCACGGCCTTACCCTAGACGACGATGGGAACTACACCATCATGGCTGCCAACCCCTCAG
GGTCGCGTCAGTTGTACAGGAAGGCTAATGGTACAGGCTGTCAACCAAAGAGGCCGAGTCCCCGCTCTC
CCTCAGGCCATCCTCATGCCAGAAGGCCTCGCTCTCGATCACGGGACAGTGGAGATGAAAACGAGCCCAT
TCAGGAGCGATTCTCAGACCTCACTTCTGCAGGCTCCTGGAGACCTGACCGTTAGGAAGGCAAGCTC
TGCAGGATGGACTGCAAGGTGAGTGGGTTACCAACCCAGATCTCAGCTGGCAACTAGATGGAAAGCCCA
TACGCCCCGACAGTGCTACAAGATGCTGGTCCGTGAGAATGGGGTCCACTCCCTCATTATAGAGCCAGT
CACGTCCCGGGACGCCGCATCTACACATGTATTGCCACCAACAGAGCAGGACAGAACTCGTTTAACTG
GAGCTTGTGGTTGCTGCTAAGGAAGCACACAAGGCCCTGTGTTATGGAGAAGCTACAGAACACGGGGG
TTGCTGATGGATACCCAGTGCAGGCTGGAATGCCGTGTCTCGGGAGTGCCGCCACCTCAGATATTTGGAA
GAAAGAAAATGAATCGCTCACTCACAGCACTGAGCGAGTAAGCATGCACCAGGATAATCATGGCTACATC
TGCTGCTCATCCAGGGAGCCACAAAGGAAGACGCTGGGTGGTACTGTGTCCGCCAAGAACGAAGCAG
GCATTGTGTCTGCACTGCCCGGCTGGATGTCTACACCAGTGGCACCAGCAGCCACAGACCACCAAGCC
AAAAAAGTACGGCCCTCGGCCAGTTCGCTACGCAGCACTTTGGACCAGGGACTAGACATCAAAGCCGCT
TTCCAACCTGAAGCCAGCCATCTCACCTGACTCTGAACAGCGGCTTGGTAGAAAGTGAAGACCTGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001293773
- Insert Size:** 3009 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001293773.1](#), [NP_001280702.1](#)
- RefSeq Size:** 5458 bp

RefSeq ORF: 3009 bp

Locus ID: 72333

Cytogenetics: 8 B3.1

Gene Summary: Cytoskeletal protein required for organization of normal actin cytoskeleton. Roles in establishing cell morphology, motility, cell adhesion and cell-extracellular matrix interactions in a variety of cell types. May function as a scaffolding molecule with the potential to influence both actin polymerization and the assembly of existing actin filaments into higher-order arrays. Binds to proteins that bind to either monomeric or filamentous actin. Localizes at sites where active actin remodeling takes place, such as lamellipodia and membrane ruffles. Different isoforms may have functional differences. Involved in the control of morphological and cytoskeletal changes associated with dendritic cell maturation. Involved in targeting ACTN to specific May be required for the initiation of neural tube closure.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence and lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) is shorter at the N-terminus and lacks an alternate internal segment compared to isoform 1. 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.