

Product datasheet for **MC223618**

Palld (NM_001081390) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Palld (NM_001081390) 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: >MC223618 representing NM_001081390
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCAGAGACTTCTCCACGACTCCTTCTATGACTCCTTATCAGACGTGCAGGAAGAGGGCAAAGTG
 CTGACTTCTTTCCAGGCCTCTCTGCTTCTCAGCCAGGAAGAAATAAATAAAAGCCTTGACCTGGCAGC
 CAGAGCTATAGACAGCTCTGAACTGAAGATTTTGACTCTGAGAAGGAGATCTCGCAGATTTTCAGCAAG
 TCTCCATAAGCCTCTGCGAAACTCCTTCCCATGAGGAGCCGAAATCAGGCAAGCAGACTTCTCAGAAC
 GACCTCAGGATAGCAGGGCAGCACCTGTCCAGCCTCTAACAGGAGATCAAGCTGAAAGGATCACTTCCCC
 AGGTTCAAAGAGAAAACCCGGGGTATCACCCCTGCTGGCCAGCCCCAGCTACATCCGGAGCCTCCGCAAG
 GCTGAAAAACGAGGTGCAAAAAATCCCAATCCAAGTTCAAAGCCAAAAGTGCAGCAAGCAAGGCTG
 GCCCCAGAGCCAAGTGTGCGACAAGGCGGCTAGTTTCATCGAGGAAGTACCTCCATATTTAGAGAAGC
 GGCAAAGCCAAGGAACAGAAGCCCAATGGTGAGTCTCATCACAGACAGTGGGTATCTGTCTCCTAAA
 AATCAGCCATCAGCCCTGATGAGTGCCTCAGCCAGTCAAGCCCACTGCAGACCAGCTAGATCAACTGG
 AGATGGACGAGAAGTCAAGCAAGCCAGGGCAGCCTTTGCTACCAGGCCACCAGGCCTCGGAAGAGAG
 CTTGCCACTCGCTCACATCCCGACCCACAGCCCAAGAAAGCCCGCCACTTGCCAACTGCACCTAGGTTT
 ATCCAGAAACTGAGGAGCCAAGAAGTTGCTGAAGGAAGCAGAGTTTATTTGGAGTGTAGAGTACAGGAA
 ACCCAACGCCAGGGTCAAGTGGTCTGTGAGGGGAAGGAGCTGTACAACAGTCTGACGTTAGATCCA
 CTGCGAGAGTGGGGAGCTGCACACCTTGGTCATTGCTGAGGCCTTTGAGGACGACACAGGTCTACAGC
 TGTCTGGTACAAACCCAGTGGCTCAGACAGCACATCTGCAGAGGTGTTTATTGAAGGAGCCAGTTCAA
 CGGACTCTGACAGCGAAAGCTTATCTTTATATCAAAGCTGGAGCCATGCCACAAGCTCAGAAGAAAAC
 AACGTCGGTTTCTTAAAGATAGGATCCTCAGCTCCGAAAACAGGAGTGACCACAGCTGTGATTCAGCCC
 CTATCTGTGCCGTCCAACAGGCTCACAGCGCTACTTCATATCTCTGCCACCTGACGGAACCCATGG
 GCTGCCTTCTTCTGTTTTACTAAGGAACTACAGAACACAGCAGCCTCCGAGGGCCAGGTGGTGGTGTCT
 GGAATGCAGAGTCCGAGGGGCACCCCGCTGCAGGTCCAGTGGTCCGGCAAGGAAGTGAGATCCAAGAC
 TCTCCGACTTCAGAATTCTCCAGAAAAACCCAGATCGACAGCTGAACCCGAGGAGATCTGCACCTTG



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TCATTGCTGAGAGTTTCCTGAAGATGCAGGCATCTTTACCTGCTCAGCCACAAATGACTACGGCTCAGT
 GACCAGCACTGCACAGCTTGTTATAACCTCCGCCAACACAGAACTGTAGTTACGACTCAACAGGAGAA
 CCCAACAGTGATCACTTCCAACACTTTCCACCTCCCCCTCCGATCCTGGAGACAGGCTCCTATGAGCTGG
 CATCCCAGAAACCATCTGAAATCCAGCAGGTGAACAGCCCAATTTAGGATTTAGCATGGCAGCTTTCA
 AATGCAATTCAACACTGCAGAGAGGGAGACCAACGGAGTCCATCCCAGCCATGGAGTCAACGGGCTGATT
 AATGGCAAAGCTTATGGCAATAAATCTCCTCCAACACCAACTGCCCTGCTTTACCCACTAAGGAACCC
 CGCCACTCCTTGCCAAACCCAACTGGGGTTCCCAAAGAAGTCCAGTAGAACTGCTAGAATTGCCTCTGA
 TGAGGAGATTC AAGGCACA AAGGATGCTGTCATCCAAGACTGGAACGGAAGCTTCGCTTCAAGGAGGAC
 CTCTGAACAATGGCCAACCGAGGCTAACCTATGAGGAAAGAATGGCTCGCCGCCTGCTTGAGCCGACA
 GCGCAAACGCTCTCAACATCCAGGAGCCAGAGGAAACGGCAGCCAATCAGGAGTACAAAGTCTCTAGCTG
 CGAGCAGAGGCTGATTAGCGAGATTGAGTACCGGCTGGAGCGCTCCCCTGTGGATGAGTCGGGAGACGAG
 GTGCAGGATCCAGATGTGCCTGTGGAGAACGCAACAGCTCCCTTCTTTGAGATGAAGCTGAAACACTACA
 AGATCTTTGAGGGGATGCCGGTACTTTCAGTGTGCGAGTGGCTGGGAATCCAAAGCCAAAGATCTATTG
 GTTTAAAGATGGGAAGCAGATTTCTCCGAAGAGCGATCACTACACCATTCAGAGAGACCTTGATGGGACC
 TGCTCTCTCCACACCACGGCCTCTACCCTAGACGACGATGGGAACACACCATCATGGCTGCCAACCCCTC
 AGGGTCGGCTCAGTTGTACAGGAAGGCTAATGGTACAGGCTGTCAACCAAGAGGCCGAGTCCCCGCTC
 TCCTCAGGCCATCCTCATGCCAGAAGGCTCGCTCTCGATCACGGGACAGTGGAGATGAAAACGAGCCC
 ATTCAGGAGCGATTCTTCAGACCTCACTTCTGCAAGGCTCCTGGAGACCTGACCGTTTCAGGAAGGCAAGC
 TCTGCAGGATGGACTGCAAGGTCAGTGGGTTACCAACCCAGATCTCAGCTGGCAACTAGATGGAAGCC
 CATAACGCCCGACAGTGTCTACAAGATGCTGGTCCGTGAGAAATGGGGTCCACTCCCTCATTATAGAGCCA
 GTCACGTCCCGGACGCCGGCATCTACACATGTATTGCCACCAACAGAGCAGGACAGAACCTGTTTAAACC
 TGGAGCTTGTGGTTGCTGCTAAGGAAGCACACAAGGCCCTGTGTTTATGGAGAAGCTACAGAACACGGG
 GGTTGCTGATGGATACCCAGTGGGCTGGAATGCCGTGTCTCGGGAGTGGCCACCTCAGATATTTGG
 AAGAAAGAAAATGAATCGCTCACTCACAGCACTGAGCGAGTAAGCATGCACCAGGATAATCATGGCTACA
 TCTGCCTGCTATCCAGGAGCCACAAAGGAAGACGCTGGGTGGTACACTGTGTCCGCCAAGAACGAAGC
 AGGCATTGTCTGCTGCACTGCCGGCTGGATGTCTACATTTCCCGACATTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001081390
- Insert Size:** 3342 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).
- 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_001081390.1](#), [NP_001074859.1](#)

RefSeq Size: 3566 bp

RefSeq ORF: 3342 bp

Locus ID: 72333

UniProt ID: [Q9ET54](#)

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 (4) lacks two alternate in-frame exons and differs in the 3' UTR and coding sequence compared to variant 1. The resulting isoform (4) lacks two alternate internal segments and has a shorter and distinct C-terminus compared to isoform 1.

Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.