

## Product datasheet for **MC229582**

### Palld (NM\_001293772) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Palld (NM_001293772) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Palld
Synonyms:	2410003B16Rik; 6030492A02
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC229582 representing NM_001293772 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAGAGACTTCTCCACGACTCCTTCTATGACTCCTTATCAGACGTGCAGGAAGAGGGCAAAGTG  
CTGACTTCTTTCCAGGCCTCTGCTTTCTCAGCCAGGAAGAAATAAATAAAGCCTTGACCTGGCAGC  
CAGAGCTATAGACAGCTCTGAACTGAAGATTTGACTCTGAGAAGGAGATCTCGCAGATTTTCAGCAAG  
TCTCCATAAGCCTCTGCGAACTCCTTCCATGAGGAGCCGAAATCAGGCAAGCAGACTTCTCAGAAC  
GACCTCAGGATAGCAGGCGAGCACCTGTCCAGCCTCTAACAGGAGATCAAGCTGAAAGGATCACTTCCCC  
AGGTTCAAAGAGAAAACCCGGGTATCACCCCTGCTGGCCAGCCCAAGCTACATCCGGAGCCTCCGCAAG  
GCTGAAAAACGAGGTGCAAAAAATCCCAATCCAAGTTCAAAGCCAAAAGCTGCCAGCAAAGCAAGGCTG  
GCCCCAGAGCCAAGTGTGCGACAAGGCGGCTAGTTTCATCGAGGAAGTACCTCCATATTTAGAGAAGC  
GGCAAAGCCAAGGAACAGAAGCCCAATGGTGAGTCTCATCACAGACAGTGGGTATCTGTCTCTCTAAA  
AATCAGCCATCAGCCCTGATGAGTGCCTCAGCCAGTCAGAGCCCACTGCAGACCAGCTAGATCAACTGG  
AGATGGACGCAGAAGTCAAGCAAGCCAGGGCAGCCTTTGCTACCAGGCCACCAGGCCTCGGAAGAGAC  
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ATCCAGAAACTGAGGAGCCAAGAAGTTGCTGAAGGAAGCAGAGTTTATTTGGAGTGTAGAGTCACAGGAA  
ACCCAACGCCAGGGTCAGATGGTTCTGTGAGGGGAAGGAGCTGTACAACAGTCCCTGACGTTTCAGATCCA  
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TGTCTGGCTACAAACCCAGTGGCTCAGACAGCACATCTGCAGAGGTGTTTATTGAAGGAGCCAGTTCAA  
CGGACTCTGACAGCGAAAGCTTATCTTTTCATATCAAAGCTGGAGCCATGCCACAAGCTCAGAAGAAAAC  
AACGTCGGTTTCTTAACGATAGGATCCTCAGTCCGAAAACAGGAGTGACCACAGCTGTGATTCAGCCC  
CTATCTGTGCCCGTCCAACAGGCTCACAGCGCTACTTCATATCTCTGCCGACCTGACGGAACCCATGG  
GCTGCCTTCTTCTGTTTTACTAAGGAACACAGAACACAGCAGCCTCCGAGGGCCAGGTGGTGGTGTCT  
GGAATGCAGAGTCCGAGGGGCACCCCGCTGCAGGTCCAGTGGTTCGGCAAGGAAGTGAATCCAAGAC



TCTCCGGACTTCAGAATTCTCCGAAAAAACCCAGATCGACAGCTGAACCCGAGGAGATCTGCACCCCTG  
 TCATTGCTGAGAGTTTCCTGAAGATGCAGGCATCTTTACCTGCTCAGCCACAAATGACTACGGCTCAGT  
 GACCAGCACTGCACAGCTTGTTATAACCTCCGCCAACACGAGAACTGTAGTTACGACTCAACAGGAGAA  
 CCCAACAGTGATCACTTCCAACACTTCCACCTCCCCCTCCGATCCTGGAGACAGGCTCCTATGAGCTGG  
 CATCCCAGAAACCATCTGAAATCCAGCAGGTGAACAGCCCCAATTTAGGATTTAGCATGGCAGCTTTCA  
 AATGCAATTCAACACTGCAGAGAGGGAGACCAACGGAGTCCATCCCAGCCATGGAGTCAACGGGTGATT  
 AATGGCAAAGCTTATGGCAATAAATCTCCTCCAACACCAACTGCCCTGCTTCCACCCACTAAGGAACCC  
 CGCCACTCCTTGCCAAACCCAAACTGGATCCTCTGAAGCTTCAGCAGCTGCAGAACCAAGTGCSCCTGGA  
 ACAGGAGGCTGCGCTGGCCCCAGCGCCCCAGGTGTCCCTTGAACAGCAGCAGCAGCGGCAGCAGC  
 GCGCCCCGTCGCGCCCTTCCCCCACCGCCACCAGCCTTTCGGAGCTCGCGGCTGTGCGTCGCGCG  
 TGCCCTCGGAGCCATGAGCGCTCTGGCTCCCGCTACCGCCATGCAGTCTCCGGCTCCTTCAACTA  
 CGCGCGCCTAAGCAGTTCATCGCGGCGCAGAACCTGGTCCCGCATCGGGGCTGCCACGCCAACCTCC  
 AGCCCCAGCTCCTCAGCTTCCCGTACCATTGTCCCCACGCCAGGCCCTTCGGCCGCGCGCCCGGGC  
 CGCCCTTCGTGGAACCCGAGGCCATGTGGGGCCGTCCTCGCCCTCGCCGCCACCGCCACCTCCGGT  
 CTTAGCCCTCTGCAGCTACCGGTGCCGACGTGTTCCACTGCCACCGCCGCGCCACCGCTACCT  
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 GGGTTCCCAAAGAGTCCAGTAGAACTGCTAGAATTGCCTCTGATGAGGAGATTCAAGGCACAAAGGAT  
 GCTGTCATCCAAGACCTGGAACGGAAGCTTCGTTCAAGGAGGACCTTCTGAACAATGGCCAACCGAGGC  
 TAACCTATGAGGAAAGATGGCTCGCCGCTGCTTGGAGCCGACAGCGCAAACGCTTCAACATCCAGGA  
 GCCAGAGGAAACGGCAGCCAATCAGGACGCTGGGGCTCCTCGGGCTTCTGTAGGGGTCTCTGGATGGT  
 CAAAAGGAGTCAAAGTCTCTAGCTGCGAGCAGAGGCTGATTAGCGAGATTGAGTACCGGCTGGAGCGCT  
 CCCCTGTGGATGAGTCCGGAGACGAGGTGCAGGATCCAGATGTGCCTGTGGAGAACGCAACAGCTCCCT  
 CTTTGAGATGAAGCTGAAACACTACAAGATCTTTGAGGGGATGCCGGTGACTTTACGTGTGAGTGGCT  
 GGAATCCAAAGCCAAAGATCTATTGGTTAAAGATGGGAAGCAGATTTCTCCGAAGAGCGATCACTACA  
 CCATTCAGAGAGACCTTGATGGGACCTGCTCTCTCCACACCACGGCCTTACCCTAGACGACGATGGGAA  
 CTACACCATCATGGCTGCCAACCCCTCAGGGTCGCGTCAGTTGTACAGGAAGGCTAATGGTACAGGCTGTC  
 AACCAAAGAGGCCGAGTCCCGCTCTCCCTCAGGCCATCCTCATGCCAGAAGGCCTCGCTCTCGATCAC  
 GGGACAGTGGAGATGAAAACGAGCCATTAGGAGCGATTCTTCAGACCTCACTTCTGCAGGCTCCTGG  
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 CTCAGCTGGCAACTAGATGGAAAGCCATACGCCCGACAGTGTCTACAAGATGTGGTCCGTGAGAAATG  
 GGGTCCACTCCCTCATTATAGAGCCAGTCAGTCCCGGACGCCGCATCTACACATGATTTGCCACCAA  
 CAGAGCAGGACAGAACTCGTTAACCTGGAGCTTGTGGTTGCTGTAAGGAAGCACACAAGGCCCTGTG  
 TTTATGGAGAAGCTACAGAACACGGGGTGTGATGGATACCCAGTGGGCTGGAATGCCGTGTCTCGG  
 GAGTGGCCACCTCAGATATTTTGAAGAAAGAAAATGAATCGCTCACTCACAGCACTGAGCGAGTAAAG  
 CATGCACCAGGATAATCATGGCTACATCTGCCTGCTCATCCAGGGAGCCCAAAGGAAGACGCTGGGTGG  
 TACTGTGTCCGCAAGAACGAAGCAGGATTGTGTCTGCACTGCCCGGCTGGATGTCTACCCACAGT  
 GGCACCAGCAGCCACAGACCACCAAGCCAAAAAAGTACGGCCCTCGGCCAGTCTGCTACGCAGCACTTTC  
 GGACCAGGGACTAGACATCAAAGCCGCTTCCAACCTGAAGCCAGCCCATCTCACCTGACTCTGAACAGC  
 GGCTTGGTAGAAAGTGAAGACCTGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001293772  
**Insert Size:** 4227 bp

<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u>NM_001293772.1, NP_001280701.1</u>
<b>RefSeq Size:</b>	6378 bp
<b>RefSeq ORF:</b>	4227 bp
<b>Locus ID:</b>	72333
<b>UniProt ID:</b>	<u>Q9ET54</u>
<b>Cytogenetics:</b>	8 B3.1
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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.</p>