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# Product datasheet for MC224071

## Phldb2 (NM_153412) Mouse Untagged Clone

## Product data:

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|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Phldb2 (NM_153412) Mouse Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | Phldb2 |
| **Synonyms:** | AV253284; C820004H04Rik; LL5b; LL5beta |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**Fully Sequenced ORF:**

```
>MC224071 representing NM_153412
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAAGATAGCCACATGCAAAAGCAGCTGGAATTCCAAAATGGTAGCTTAGAGGAAGGATTTGTGG
TACGTTCCCTGGAGAACGAGCCCCAAAACATGATGGAGAGCCTAAGCCCGAGGAAATACTCATCAAGTCT
GAAGTTTAAAGCCAACGGGGACTATTCTGGCTCCTATTTAACCCTCTCCCAACCGGTGTCTGCCAAGAGA
AGCCCTTCTCCAATGGGCACCAGCGTCAGGAGCAGTCCCTCCTTGGCCAAAATCCAGGGAAGCAAACAGT
TCTGCGATGGAATTGATAAAAATATTTCCATGAAACCTCCTATTTCTTTCCTCAGTTCTGCAGCCTCTCT
TGGCGGCTATCCTCTTGGGAAAGCAGATTTGGATCATTATACTGGTCGAGACAGTGAGAGGTCCACCAGG
CTCTCAGAGAAGCCTCCCTATTCCAGATACAGCTCTAGGAATAAATCTCATGACAGTGTCTACTTTCTAG
GGGGGCTGGAAGGAAGAAAAACCTCTGGCTCGCTCCTGACCATGTGGAACGGAAATTCCTTGAGCTGCAC
TGGCTCGTCACCCATCAGCAGGTCTGGGGCAGCGAGCATGCCTTCAAGTCCAAAGCAAGTCAGGAAGATG
AACCTTCAGGACCACTCGACACTTCAGCCCAGGTTAAGCAGGCACAAGGAGCCGGCCTCAGAAAACGTCA
GTGTGAGAACAAGGAAATACTCAGGGAGCAGTCTGAGTAATATGGGTGCCTACAGCCGATCGCTTCCCAG
GTTGTATAAAGCCACAGACAACCAGATGTCGCCTCTCAGCCTGCCTCCAAGAAGTTCCCTGGGCAATTCC
AGAAGAGGTCAGTTAGGAGAAAAGGATCTACCTCATAGCCTAGTGGATAGTGACAATTACCTTAACTTTT
CTTCTCTAAGCTCAGGGGCTTCACCCTATAAAACCTGTCTGTCAGAGGGAAATCCTTACGTAAGCTCCGC
CCTCAGTGTTCCTGCCAGTCCTCGTGTGGCTCGGAAGATGCTCCTGGCCTCCACCTCCTCTGATGACTTT
GATAGGGCTTCATACTCAGGGACCAGCCCAAGTCATTCCTTCATTTCTGGAGAGCCAGACCGAGTGCTTG
TGGCCAGGAGGAACTTCTCTTGTGGATCAATGGAGCTTGATGACTCTGATCTGGAAAGCCTAAGACAGTC
GTCAGAAACTCCGCAGCCGGTCCTTCGAGAAAGGAAAAGTAGCATTAGCTCCATCTCGGGACGCGACGAC
CTGATGGATTATCACCGAAGACAGAGGGAGGAGAGACTCAGGGAGCAGGAGATGGAGCGACTGGAGCGGC
AGCGGCTGGAGACCATCCTCAGTCTCTGTGCTGAGTATACAAAGCCTGAAGGTCGCCGCCTGTCCGCTGG
CACCACGGTGGCTGATGTGCAGAAAATCAACAAGGAGCTTGAGAAGCTGCAGCTGTCGGATGAGGAGTCT
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GTGTTCGAGGACGCTCTGGTGTGCCCCGATGCCAGGTACAGGTGCCACCGGAAGGGCTCTCTCCAGGATG
TTGACGTTGCTGGCTTCGGGAACCTTGGTCACAGTGCCAGCTTCCTGGCCCCCAGGGGCAGCAGGAGCGA
TGAACTGCTTGGTGACCTCACTAGGACGCCCCCATCATCCTCAGCCGCGTTTCTGAAAGCAACCAATGAG
TCCTCCTACCTCAGTATCCTTCCGAAGACCCCAGAGGATATAGGTGAGGAACAGAGGACTCAAGAGTTGG
CTGCAATGGAAGACGCCCGGATGGTGATTCTGAACAACCTTGAGGAACTTGAGCAGAAAATCAAAGATAT
AAATGACCAAATGGATGAATCTTCCAGAGAGTTGGATATGGAATGCGCTCTTTTGGATGGAGAACAGAAA
TCCGAGACGGCTGAGCTCATGAAGGAAAAGGAGATTCTAGATCATCTAAACCGGAAAATCACGGAACTAG
AAAAGAACATCGTAGGCGAGAAGACTAAGGAGAAGGTAAAGCTTGATGCTGAGAGGGAAAAGCTAGAGAG
GCTTCAGGAGCTGTACTCCGAGCAGAAGACCCAGCTGGACAATTGTCCTGAGTCCATGAGGGAGCAGTTA
CAGCAACAACTCAAGAGGGATGCCGACCTGTTGGATGTTGAGAGCAAACACTTTGAAGACTTGGAATTCC
AGCAGCTTGAGCATGAGAGCCGCCTAGATGAGGAAAAGGAGAACTTGACTCAACAGCTCCTGCGGGAGGT
GGCAGAGTATCAGCGGAACATCGTGGCTAGGAAGGAAAAAATTTCTGCATTGAAAAAGCAAGCCAGTCAC
ATCGTTCAGCAGGCTCAGAGGGAACAAGATCACTTTGTGAAAGAGAAGAACAATCTAATAATGATGCTCC
AAAGAGAAAAAGAGAATCTTTGCAATTTGGAAAAGAAATACTCCAGTCTCACTGGTGGGAAAGGGTTCCC
TATTAACCCCAATACTCTGAAAGAGGGCTATATCAGTGTAAATGAGATTAATGAGTCATGTGGCAATTCC
ACGAATCTATCCCCTTCCACTCAGTTCCCTGCTGATGCTGATGCTGCTGTCACTGAGCCTGCCTTGGCTG
TGCCGGTGAGCCAGCCCCAGAGTTCAGAGCACTTTAGAAGCCTGGAAGAAAGGAAAAAGCAGCACAAAGA
AGGCCTCTACCTGAGTGACACTCTGCCTCGAAAGAAAACCACCCCTTCCCTGTCCCCACACTTCAGCAGT
GCCACAATGGGGAGGAGCACCACCCCGAAGGCTCACCTCCCTCTGGGGCAGAGCAATAGCTGTGGCAGTG
TGCTCCCTCACTCACTGGCGACCATGACCAAAGACTCTGAGTCTCGGAGGATGCTCAGAGGTTATAATCA
CCAACAGATGAGTGAAGGACAAAGACAGAAACCCGAATTTTACAGCCGCACAGCATCTGAGTCAAACGTC
TACTTGAATAGTTTCCATTACCCAGATCGCAGCTACAAGGATCAGGCCTATGACACGTTGAGCCTGGACA
GCTCTGACAGCATGGAGACCAGCATCTCTGCCTGTTCACCGGACAATATATCAAGTGCCAGCACATCCAA
TATTGCCAGAATAGAAGAAATGGAGAGACTCTTGAAACAGGCGCACGCGGAGAAGACTCGGCTGCTTGAG
TCCAGGGAACGGGAAATGGAAGCCAAAAAACGAGCTCTGGAAGAAGAAAAACGACGCCGGGAAATCCTGG
AAAAACGATTGCAAGAAGAAACCAGCCAGAGGCAGAAGTTAATAGAAAAAGAAGTCAAAATAAGAGAGAA
ACAAAGGGCACAGGCTCGTCCCCTGACTCGCTATCTGCCAGTGCGGAAGGAAGACTTCGACTTGCGGAGT
CACGTGGAGACTGCAGGCCACAATATTGACACCTGTTTTCATGTGTCAATCACAGAGAAGACCTGCCGAG
GATACCTCATCAAAATGGGTGGGAAAATTAAAACGTGGAAAAAACGCTGGTTTGTTTTTGACCGGAATAA
GCGAACATTTTCTTACTATGCAGACAAGCATGAGGCTAAATTGAAAGGCGTGATATACTTTCAAGCCATT
GAAGAAGTGTATTATGATCACCTCAAGAACGCTAATAAGAGCCCTAATCCATTACTCACCTTTAGCGTCA
AGACACATGACAGAATCTATTACATGGTGGCTCCTTCACCAGAGGCCATGCGGATCTGGATGGACGTTAT
AGTGACTGGAGCAGAAGGATATACCCACTTCCTGTTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM_153412

**Insert Size:** 3750 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).

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_153412.4, NP_700461.2 |
| **RefSeq Size:** | 5496 bp |
| **RefSeq ORF:** | 3750 bp |
| **Locus ID:** | 208177 |
| **UniProt ID:** | Q8K1N2 |
| **Cytogenetics:** | 16 B5 |
| **Gene Summary:** | Seems to be involved in the assembly of the postsynaptic apparatus. May play a role in acetylcholine receptor (AChR) aggregation in the postsynaptic membrane.[UniProtKB/Swiss-Prot Function]<br>Transcript Variant: This variant (2) lacks an exon and uses an alternate splice site in the coding region, but maintains the reading frame, compared to variant 1. The encoded isoform (2) is shorter than 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. |

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