

## Product datasheet for **MC218354**

### Dpys (NM\_001164466) Mouse Untagged Clone

#### Product data:

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids                       |
| Product Name:      | Dpys (NM_001164466) Mouse Untagged Clone  |
| Tag:               | Tag Free                                  |
| Symbol:            | Dpys                                      |
| Synonyms:          | 1200017110Rik; 1300004I01Rik; DHP; DHPase |
| Vector:            | pCMV6-Entry (PS100001)                    |
| E. coli Selection: | Kanamycin (25 ug/mL)                      |
| Cell Selection:    | Neomycin                                  |



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**Fully Sequenced ORF:** >MC218354 representing NM\_001164466  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCACACAGGGACGACTTCTCATCCGCGGGGTGCGATTGTCAATGACGACTTCTCACAGTGGCCG  
 ATGTGCTAGTGGAGGACGCGTGGTGGCGGCTGGGACGGGACCTGCTGCCTCCTGAGGACGCATCTCG  
 GGGGCTGCGAATCCTAGATGCAGCGGGCAAGCTCGTCCTGCCCGGGGCATCGACACGCACACGCACATG  
 CAATCCCGTTTACGGGCTCGCAGTCAGTGGACGACTTCTACCAGGGCACCAAGGCTGCTTTGGCAGGAG  
 GCACCACCATGATCATTGATTTTGCATTCTCAGAAAGGCAGCTCCCTCATCGAGGCCCTTTGAGACTTG  
 GCGCAACTGGGCAGACCCGAAAGTCTGCTGTGACTATAGCCTGCATGTGGCAGTGACGTGGTGGAGCGAC  
 AAGGTAAGAAGAAATGAAACCCTTGCCCGAGATAAAGGCGTTAACTCTTTCAAGATGTTTATGGCCT  
 ACAAAGGTCTGTACATGGTGAAGACGAGCAGCTGTATGCGGCCCTCTCTCAGTGAAGGAGATAGGAGC  
 GATTGCTCAGGTGCACGCCGAGAATGGAGATTTGATTGCAGAGGGAGCAAAGAAGATGCTGGCACTGGGG  
 ATAACAGGCCCTGAGGGGCACGAGCTGTGCCGTCCAGAAGCAGTGGAGGCAGAGGCCACCCTGAGAGCCA  
 TCACCATAGCCAGCGCTGTGAAGTGCCTTTATACGTCGTCATGTGATGAGCAAATCTGCAGCGAAGGT  
 GGTAGCCGATGCGAGGAGAGCAGGAAATGTGGTCTATGGAGAACCAATTGCAGCGGGTCTCGGCACTGAT  
 GGCAGACAGTACTGGAGTGAAGAATGGAGCCATGCAGCCACCATGTCATGGGTCCCCCACTGAGACCCG  
 ATCCTTTAACACCTGGCTTTCTTATGGATCTGTTGGCTAATGGCGATTTGACCACAACAGGGAGTGACAA  
 CTGCACTTTTAACACCTGCCAAAAGCTCTAGGGAAGGATGACTTCACTAAGATCCCAATGGGGTGAAT  
 GGTGTCGAGGACAGGATGTCGGTATATGGGAAAAGGCGTGCACAGTGGTAAAAATGGATGAAAACAGGT  
 TTGTGGCAGTTACCAGCACAAACGCAGCCAAAATCTTTAATCTTTATCCGAAAAAAGGAAGAATAGCTGT  
 AGGCTCAGATGCTGACATTGTGATCTGGGACCCAGAAGCAACAAGGAGGATCTCAGCCAAAACCTCATCAT  
 CAGGCCGTTAACTTCAACATCTTCGAGGCATGGTTTGTACGGGGTGCCTGTTGACTATTTCAAGAG  
 GCAGAGTGGTGTATGAAGCAGGTGTTTTCAACGTCACAGCAGGACATGGGAAGTTTATCCCGCCAACC  
 CTTTGCCGAATACATTTACAAACGAATCAAGCAGCGAGACCAGACCTGCACACCTGTGCCGTGAAGCGC  
 GCCCCCTACAAGGGAGAAGTCAACACACTGAAAGCCAGAGAGACAAAAGAAGATGACACTGCTGGAACCA  
 GGATGCAGGGCCACTCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001164466

**Insert Size:** 1560 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\\_001164466.1](#), [NP\\_001157938.1](#)

**RefSeq Size:** 2110 bp

**RefSeq ORF:** 1560 bp

**Locus ID:** 64705

**UniProt ID:** [Q9EQF5](#)

**Cytogenetics:** 15 B3.1

**Gene Summary:** Catalyzes the second step of the reductive pyrimidine degradation, the reversible hydrolytic ring opening of dihydropyrimidines. Can catalyze the ring opening of 5,6-dihydrouracil to N-carbamyl-alanine and of 5,6-dihydrothymine to N-carbamyl-amino isobutyrate (By similarity). [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 3' UTR, compared to variant 1. Both variants 1 and 2 encode the same protein.