

## Product datasheet for **MR208311**

### Dpys (NM\_001164466) Mouse Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>MR208311 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGGCACACAGGACGACTTCTTATCCGCGGGGTCTCATTGTCAATGATGACTTCTCACAGTGGCCG  
 ACGTGCTAGTGGAGGACGGCTGGTGGCGGCTGGGACGGGACCTGCTGCCTCCTGAGGACGCATCTCG  
 GGGGCTGCGGATCCTAGATGCAGCGGGCAAGCTCGTCCTGCCCGGGGCATCGACACGCACACGCACATG  
 CAATCCCGTTTATGGGCTCGCAGTCAGTGGACGACTTCTACCAGGGCACCAAGGCTGCTTTGGCAGGAG  
 GCACCACCATGATCATTGATTTTGCATTCTCAGAAAGGCAGCTCCCTCATCGAGGCCCTTTGAGACTTG  
 GCGCAACTGGGCAGACCCGAAAGTCTGCTGTGACTATAGCCTGCATGTGGCAGTGACGTGGTGGAGCGAC  
 AAGGTAAGAAGAAATGAAACCCTTGCCCGAGATAAAGGCGTTAACTCTTCAAGATGTTTATGGCCT  
 ACAAAGGTCTGTACATGGTGAAGACGAGCAGCTGTATGCGGCCCTCTCTCAGTGAAGGAGATAGGAGC  
 GATTGCTCAGGTGACCGGAGAATGGAGATTTGATTGCAGAGGGAGCAAAGAAGATGCTGGCACTGGGG  
 ATAACAGGCCCTGAGGGGCACGAGCTGTGCCGTCCAGAAGCAGTGGAGGCAGAGGCCACCCTGAGAGCCA  
 TCACCATAGCCAGCGCTGTGAAGTGCCTTTATACGTCGTGCATGTGATGAGCAAATCTGACGCGAAGGT  
 GGTAGCCGATGCGAGGAGAGCAGGAAATGTGGTCTATGGAGAACCAATTGCAGCGGGTCTCGGCACTGAT  
 GGCAGACAGTACTGGAGTGAAGAATGGAGCCATGCAGCCACCATGTCATGGGTCCCCCACTGAGACCCG  
 ATCCTTTAACACCTGGCTTTCTTATGGATCTGTTGGCTAATGGCGATTTGACCACAACAGGGAGTGACAA  
 CTGCACTTTTAAACCTGCCAAAAGCTCTAGGGAAGGATGACTTCACTAAGATCCCAATGGGGTGAAT  
 GGTGTCGAGGACAGGATGTCGGTATATGGGAAAAGGCGTGCACAGTGGTAAAAATGGATGAAAACAGGT  
 TTGTGGCAGTTACCAGCACAAACGCAGCCAAAATCTTTAATCTTTATCCGAAAAAAGGAAGAATAGCTGT  
 AGGCTCAGATGCTGACATTGTGATCTGGGACCCAGAAGCAACAAGGAGGATCTCAGCCAAAACCTCATCAT  
 CAGGCCGTTAACTTCAACATCTTCGAGGCGATGGTTTGTACGGGGTGCCTGTTGACTATTTCAAGAG  
 GCAGAGTGGTGTATGAAGCAGGTGTTTTCAACGTCACAGCAGGACATGGGAAGTTTATCCCGCCAACC  
 CTTTGCCGAATACATTTACAAACGAATCAAGCAGCGAGACCAGACCTGCACACCTGTGCCGTGAAGCGC  
 GCCCCCTACAAGGGAGAAGTCACCACACTGAAAGCCAGAGAGACAAAAGAAGATGACACTGCTGGAACCA  
 GGATGCAGGGCCACTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208311 protein sequence  
 Red=Cloning site Green=Tags(s)

MAPQGRLLIRGGLIVNDDFSQVADVLVEDGVVRLGRDLLPPEDASRGLRILDAAGKLVLPGGIDTHTHM  
 QFFPMGSQSVDDFYQGTAAALAGGTTMIDFAIPQKGSLLIEAFETWRNWADPKVCCDYSLHVAVTWSSD  
 KVKEEMKTLARDKGVNSFKMFAYKGLYMQDEQLYAAFQCKEIGAIQVHAENDLIAEGAKMLALG  
 ITGPEGHELCPAEVAEATLRAITIASAVNCPYVHVMSKSAKVADARRAGNVVYGEPIAAGLGTD  
 GRQYWSEEWSHAHHVMGPPLRPDPLTPGFMDLLANGDLTTTGSNDCTFNTCQKALGKDDFTKIPNGVN  
 GVEDRMSVIWEKGVHSGKMDENRFVAVTSTNAAKIFNLYPKKGRIAVGSDADIVIWDPEATRRI SAKTHH  
 QAVNFINIFEGMVCHGVPLVTISRGRVVEAGVFNVTAGHGKFI PRQPF AEYIYKRIKQRDQTCTPVVKR  
 APYKGEVTTLKARETKEDDTAGTRMQGHS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001164466

ORF Size: 1560 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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

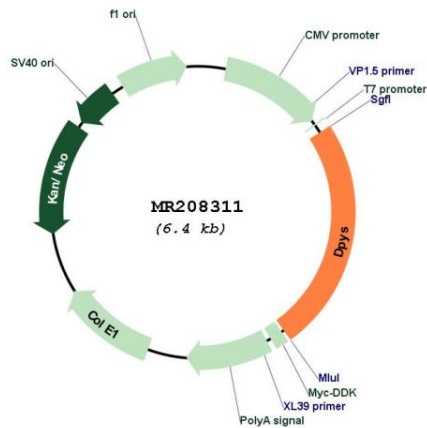
UniProt ID: [Q9EQF5](#)

**Cytogenetics:** 15 B3.1

**MW:** 56.7 kDa

**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]

**Product images:**



Circular map for MR208311