

## Product datasheet for RN210325

### Dpyd (NM\_031027) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dpyd (NM_031027) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Dpyd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN210325 representing NM_031027 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGGTGTGCTGAGCAGGGACGCGCCGGACATCGAGAGTATCCTGGCTTTAAATCCTCGAATACAAG  
CTCATGCGACTTTCGTTCCACCATGGCCAAGAACTAGACAAGAACATTGGAAAAGGAACACTGATAA  
GAACCTGCTTTATCTGTGAGAAGCTGGAGAATAATTTTGATGACATCAAGCACACGACTCTTGGTGAGCGA  
GGGGCTCTCCGAGAAGCAGTGAGATGCTTGAAATGTGCAGATGCTCCCTGCCAGAAGAGTTGTCCCACGT  
CTCTTGACATTAAGTCATTCATCACAAGTATCGCCAACAAGAAGTACTATGGTGCAGCTAAGCTGATTTT  
TTCCGATAATCCTCTTGGTCTTACTTGCAGGATGGTTTGTCCAACATCTGACCTCTGTGTCGGAGGATGC  
AACTTACATGCTACTGAAGAGGGGCCAATTAATATTGGTGGACTGCAGCAGTTTGTACCGAGGTGTTCA  
AAGCGATGAACATCCCACAGATCAGAAGCCGTTGCTGCCTCCTCCGGAACATATGCCGGAAGCTTACTC  
AGCAAAAATTGCGCTGTTTGGAGCTGGCCTGCGAGTAAAGCTGTGCCTCCTTCTGGCTCGACTGGGC  
TATTCGACATCACCATATTTGAAAAGCAAGAATACGTTGGTGGCTTAAGCACTTCTGAAATCCCTCAGT  
TTCGGCTCCCATATGATGTCGTGAATTTGAGATTGAGCTCATGAAGACCTTGGTGTCAAGATAATTTG  
TGGTAAAAGCATTTCACAGATGAAATGACTCTTAGTACTTTGAAAGAAAATGGCTACAAAGCTGCTTTT  
ATTGGAATAGTTTGCCAGAACCACAAAAGGACCATATTTTCCAAGGCTTGACACAAGTCCAGGGATTTT  
ACACATCCAAAGACTTTTTGCCACTTGTGCACAAAGGTAGCAAACCAGGAATGTGCGCCTGTCACTCTCC  
ATTGCCATCCGTGAGGGGAGCCGTGATTGTACTCGGAGCTGGGGACACTGCGTTTACTGTGCAACATCC  
GCTCTGCGCTGCGGAGCAGTCGCGTGTTCATCGTCTTCAGAAAGGGCTTTGCTAATATTCGAGCTGTT  
CAGAGGAGATGGAGCTTGCTAAGGAAGAGAAAATGTGAATTTTGCCTTTCCTTCCCCACGGAAGGTTAT  
AGTCAAAGATGGAAGATTGTAGGAATGCAGTTTGTTCGAACTGAGCAGGATGAAACCGGAACTGGGTC  
GAAGATGAAGAGCAGATAGTGCCTTTGAAAGCTGATGTGGTTATTAGCCCTTTGGATCTGTCTTGGATG  
ATCCCAAAGTGATAGAAGCATTGAGTCCCATCAAGTTTAAACAGATGGGGTCTCCCTGAAGTAAACCCAGA  
AACCATGCAAACAGTGAGCCATGGGTATTTGCAGGTGGTGTGTTGTGGGTATGGCTAACACCACAGTG  
GAATCTGTCAACGATGGAACAGGCTTTCATGGTACATTCACGAGTACATACAGGCACAATATGGAGCCT  
TGGTGCCTTCCAGCCTACTGCCCTGTTTTACTCTCTGTTGACCTCGTGGACATCAGTGTGGAAT  
GGCAGGGTTGAGGTTCCCAATCCCTTTGGCTTGCCAGTGCACACCAGCCACTAGCACACCAATGATT



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CGAAGGGCCTTTGAAGCAGGATGGGGTTTTGCTTTGACCAAACTTTCTCTCTTGATAAGGACATCGTGA  
 CAAACGTCTACCCAGAATCATCCGAGGGACCCTTCTGGCCCCTTGATGGCCCTGGACAAAGCTCTTT  
 CCTCAACATTGAGCTCATCAGTGAGAAAACAGCTGCATATTGGTGTACAGTGTACCCGAACTAAAGGCT  
 GACTTCCCGGACAACATCCTGATCGCCAGCATCATGTGCAGTTACAACAAAAATGACTGGATGGAAGCTCT  
 CCAAAAATGGCTGAGGCTTCTGGAGCAGATGCCCTGGAGTTAAATTTATCCTGTCCACATGGCATGGGGGA  
 GAGAGGAATGGTCTGGCTTGTGGGCAGGATCCAGAGCTGGTGAGGAACATCTGTCGCTGGGTGAGACAA  
 TCTGTTCCGGTTCATTTTTGCCAAGTTGACCCCAAATGTCACCTGATATTGTAAGCATCGCAAGAGCAG  
 CAAAGGAAGGTGGTGCAGATGGCGTTACAGCCACCAACTGTCTCAGGCCTGATGGGACTGAAAGCTGA  
 TGGTTCACCTGGCCTTCGGTGGCAGTGAAAGAGGACTACATATGGAGGAGTATCAGGAACTACCATC  
 AGGCCTATTGCTTTGAGAGCTGTGACCGCCATTGCCCGCCTTTGCCTGGGTTTCTATACTGGCCACAG  
 GTGGAATTGACTCAGCTGAAAGTGGACTTCAGTTTCTTCATAGTGGTGTTCAGTTCTCCAGGTATGCAG  
 TGCTATTGAGAATCAGGACTTCACTGTGATTGAAGATTACTGCACTGGCCTCAAAGCTCTGCTTTATCTG  
 AAGAGTATTGAAGAGTTATCAGACTGGGATGGGCAGAGTCCACCCACTATGAGTCATCAGAAAGGGAAAC  
 CAGTTCACACATTGCTGAGCTCATGGGACAGAACTTCCAAGCTTTGGACCGTACCTTGAACGGCGCAA  
 GAAAATCTAGCAGCAAGTAAAATCAGAGAGAATGATCAAAACAGAGCTTCTCACCTCTCCAGAGAAAAG  
 CACTTTAACTCCCAAAAGCCGATTCTGCCATCAAGGATGTAATTGGAAAATCACTGCAATACCTGGGGA  
 CGTTTGGTGAGCTGAACATCATGGAGCAAGTTGTGGCCCTGATCGATGAGGAAATGTGTATCAATTGCGG  
 CAAATGTTACATGACCTGTAATGACTCTGGCTACCAGGCTATACAGTTCCGATCCAGAAACTCACCTGCC  
 ACTGTTAGCGACACATGTACAGGCTGCACTCTCTGCCCTCAGCGTCTGCCCTATTATGGACTGTATCAGGA  
 TGGTTTCCAGGGCAACACCTTATGAACCAAGAGAGGCCCTACCATTAGCCGTGAAGCCGGTGTGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_031027
- Insert Size:** 3078 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\\_031027.1](#), [NP\\_112289.1](#)
- RefSeq Size:** 4358 bp
- RefSeq ORF:** 3078 bp
- Locus ID:** 81656

UniProt ID: [O89000](#)

Cytogenetics: 2q41

Gene Summary: catalyzes the conversion of 5,6-dihydrouracil and NADP+ to uracil, NADPH, and H+ in pyrimidine degradation [RGD, Feb 2006]