

Product datasheet for **RR210325**

Dpyd (NM_031027) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpyd (NM_031027) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dpyd
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210325 representing NM_031027 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCGGGTGTGCTGAGCAGGGACGCGCCGGACATCGAGAGTATCCTGGCTTTAAATCCTCGAATACAAG
CTCATCGGACTTTCGTTCCACCATGGCCAAGAACTAGACAAGAACATTGAAAAAGGAACACTGATAA
GAATGCTTTATCTGTGAGAAGCTGGAGAATAATTTTGATGACATCAAGCACACGACTCTGGTGAGCGA
GGGCTCTCCGAGAAGCAGTGAGATGCTTGAAATGTGCAGATGCTCCCTGCCAGAAGAGTTGCCACGT
CTCTTGACATTAAGTCATTCATCACAAGTATCGCCAACAAGAAGTACTATGGTGCAGCTAAGCTGATTTT
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AGCAAAAATTGCGCTGTTGGAGCTGGCCTGCGAGTAAAGCTGTGCCTCCTTCTGGCTCGACTGGGC
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GGCAGGGTTGAGGTTCCCAATCCCTTTGGCTTGCCAGTGCACACCAGCCACTAGCACACCAATGATT



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CGAAGGGCCTTTGAAGCAGGATGGGGTTTTGCTTTGACCAAACTTTCTCTCTTGATAAGGACATCGTGA
 CAAACGTCTACCCAGAATCATCCGAGGGACCCTTCTGGCCCCTTGATGGCCCTGGACAAAGCTCTTT
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Protein Sequence:

>RR210325 representing NM_031027
 Red=Cloning site Green=Tags(s)

MAGVLSRDAPDIESILALNPRIQAHATLRSTMAKKLDKHKWRNTDKNCFICEKLENNFDDIKHTTLGER
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 NLHATEEGPINIGGLQQFATEVFKAMNIPQIRSPLLPPPEHMPEAYSAKIALFGAGPASISCAFLARLG
 YSDITIFEKQEYVGLSTSEIPQFRLPYDVVNFIEELMKDLGVKICGKSISTDEMTLSTLKENGYKAAF
 IGIGLPEPKDHIFQGLTQVQGFYTSKDFLPLVAKGSKPGMCACHSPLPSVRGAVIVLGAGDTAFDCATS
 ALRCGARRVIVFRKGFANIRAVPEEMELAKEEKCEFLPFLSPRKVIVKDGKIVGMQFVRTEQDETGNWV
 EDEEQIVRLKADVVISPFGSVLDDPKVIEALSPIKFNRWGLPEVNPETMQTSEPWFVAGGDVVMANTTV
 ESVNDGKQASWYIHEYIQAQYQALVPSQPTLPLFYTPVDLVDISVEMAGLRFPNPFGLASATPATSTPMI
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 DFPDNILIASIMCSYNKNDWMLSKMAEASGADALELNLSCPHGMGERGMGLACGQDPELVRNICRWVRQ
 SVRVPPFAKLTPNVTDIVSIARAAGEGADGVTATNTVSGLMGLKADGSPWPSVSGSKRTTYGGVSGTTI
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 KSIEELSDWDGQSPPTMSHQKGPVPHIAELMGQKLPSPGYLERKKILAASKIRENDQNRACSPQRK
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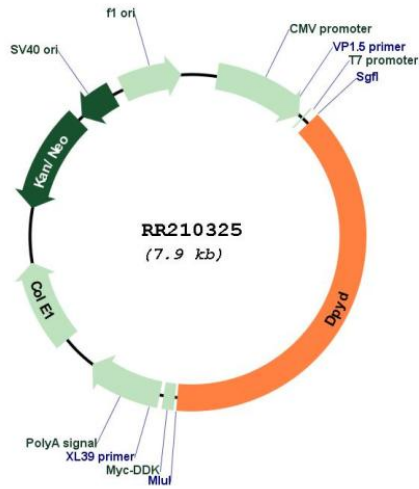
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_031027
ORF Size: 3075 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:	<ol style="list-style-type: none"> 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
MW:	111.5 kDa
Gene Summary:	catalyzes the conversion of 5,6-dihydrouracil and NADP+ to uracil, NADPH, and H+ in pyrimidine degradation [RGD, Feb 2006]