

## Product datasheet for **MG211476**

### Dpyd (NM\_170778) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dpyd (NM_170778) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpyd
Synonyms:	A1315208; DPD; E330028L06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211476 representing NM_170778 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGGTGTGCTGAGCAGGGACGCGCCGACATCGAGAGTATCCTGGCTTTAAACCCTCGAGTACAAG  
CTCATGCAACTCTGCGTTCACCGCAGCCAAGAACTAGACAAGAACTGGAAAAGGAACACGGACAA  
GAACTGCTTTACCTGTGAGAAGCTGGAGAGTAATTTTGATGACATCAAGCACACGACTCTGGTGAGCGA  
GGAGCTCTCCGAGAAGCAGTGAGATGCCTGAAGTGCAGATGCTCCCTGCCAGAAGAGCTGTCCACAT  
CTCTTGACATTAATCATTATCACAAGTATCGCCAACAAGAAGTACTATGGTGCAGCTAAGCTGATTTT  
TCTGATAAACCTCTTGGTCTTACTTGTGGAATGGTTTGTCCAACATCTGACCTCTGTGTTGGAGGATGC  
AACTTACATGCTGCTGAAGAGGGACCAATTAATATTGGTGGGCTGCAGCAGTTTGTACTGAGGTGTTCA  
AAGCAATGAACATCCCACAGATCAGAAACCCATCGCTGCCTCCTCCGGAACATATGCCGGAAGCCTACTC  
AGCAAAAATTGCACTTTTGGTGCAGGGCTGCGAGTAAAGCTGTGCCTCCTTTTGGCTCGGTTGGGC  
TATCCAACATTACTATATTCGAAAAACAAGAATATGTTGGTGGTTAAGCACTTCTGAAATCCCTCAGT  
TTCGACTCCCATATGACGTCGTGAATTTGAGATTGAGCTCATGAAGGACCTTGGTGAAGATAATTTG  
TGGTAAAAGCCTTCCACCGATGAAATGACTCTTAGCTCTTTGAAAGAAAATGGCTACAGAGCTGCATTT  
ATTGGAATAGGCTTCCAGAACCCAAAAGGACCATATTTTCCAAGCTTGACACAAGTCCAGGGATTTT  
ACACATCTAAAGACTTTCTGCCACTTGTGCCAAAAGCAGTAAAACAGGAATGTGCGCCTGTCACTCTCC  
ATTGCCATCCATAAGGGGAGCCGTGATTGACTCGGAGCTGGAGATACTGCGTTTACTGTGCAACATCC  
GCTCTGCGCTGTGGAGCCCTTCGCGTGTTCATCGTCTTCAGAAAGGGCTTTGTTAATATTCGAGCTGTT  
CAGAGGAGATGGAGCTCGCTAAGGAAGAGAAAATGTGAATTTTGCCTTTCCTCTCGCCACGGAAGTTAT  
AGTCAAAGATGGAAGATTGTGGCAATGCAATTTGTTGCAACTGAGCAAGATGAAACCGGAACTGGGTG  
GAAGATGAAGAGCAGACGGTCCGCTAAAGGCTGATGTGGTTATTAGTGCCTTTGGATCTGCTCGGAGG  
ATCCCAAAGTAAAGAAGCATTGAGTCCCATCAAGTTTAAACAGATGGGGTCTCCAGAAGTAAATCCAGA  
AACCATGCAACCAGTGAACCATGGGTGTTGCGAGGTGGTATGTTGTTGGTATGGCTAACACCACAGT



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GAATCTGTCAACGATGGAAAGCAAGCTTCATGGTACATTCACAAGCACATACAGGCACAATATGGAACCT  
 CAGTGCCTTCTCAGCCTACAATGCCCTATTTTACACTCCGGTTGACTTAGTGGACATCAGCGTGGAAAT  
 GGCAGGGTTGAGGTTTCCAATCCCTTTGGCCTTGCCAGTGCACACCAGCCACTAGCACACCAATGATT  
 CGAAGGGCCTTTGAAGCTGGCTGGGTTTTGCTCTGACCAAACTTTCTCTTTGATAAAGGACATCGTGA  
 CAAACGTCTACCAAGAATCATCCGGGGGACAATTCTGGCCCTTGTATGGCCCTGGACAAAGCTCCTT  
 TCTTAACATTGAGCTCATCAGTGAGAAAACAGCTGCATATTGGTGTACAGTGTACCCGAAGTAAAGGCT  
 GACTTCCCGGACAATATCCTGATCGCCAGCATCATGTGCAGTTACAACAAGAGTACTGGATGGAACCTCT  
 CCAAAATGGCTGAGGCTTCTGGAGCAGATGCCCTGGAGTTAAATTTATCGTGTCCACATGGCATGGGGGA  
 GAGAGGAATGGGCTGGCTTGTGGGCAGGATCCAGAGCTGGTGGGAACATCTGTGCTGGTTAGGCAA  
 GCTGTTCCGGTTCATTTTTGCAAGTTGACCCCAAATGCTACTGATATTGTAAGCATCGCAAGAGCAG  
 CAAAGGAAGTGGAGCAGATGGTGAACAGCCACCAACACCGTCTCGGGTCTGATGGGACTGAAAGCTGA  
 TGGCACACCTGGCCTGCTGTGGCATTGGAAGGAGGACTACATATGGAGGAGTGTGAGAACTGCTATC  
 AGGCCATTGCTTTGAGAGCTGTGACCGCCATTGCCCGTCTTTGCTGGGTTTCCTATTTGGCCACAG  
 GTGGAATTGACTCAGCTGAAAGTGGACTTCAGTTTCTTATAGTGGTGTTCAGTTCTTCAGGTATGCAG  
 CGCTATTCAGAATCAGGACTTCACTGTGATTGAAGATTACTGACTGGACTCAAAGCCCTGCTTTATCTG  
 AAGAGCATTGAAGAGTTAGCAGACTGGGATGGTCAGAGTCCACCCATTATAAGTCATCAGAAAGGGAAC  
 CAGTTCACGCGTTGCTGAGCTCATGGGACAGAACTGCCAGCTTTGGACCTTACCTTGAACAGGCGAA  
 GAAAATCATAGCAGCAAGCAAAATCAGACAGAAAGATCAAACACAGCTTGTCTACCTCTCCAGAGAAA  
 CACTTTAACTCGCAAAAGCCTATTCCTGCCATCAAGGATGTAATTGGAAAATCACTGCAATACCTGGGAA  
 CATTGGTGAGATGAGCATCATGGAACAAGTTGTGGCCCTGATCGATGAGGAAATGTGCATCAATTGCGG  
 CAAATGTTACATGACCTGTAATGACTCTGGCTACCAGGCTATCCAGTTCGATCCAGAACTCACCTGCT  
 ACCGTTAGCGACACATGTACAGGCTGACTCTCTGCTCAGCGTCTGCCCTATTATGAGCTGTATCAGGA  
 TGGTTTTCCAGGGCAACACCTTATCAACCAAGAGAGGCCTACCATTAGCCGTGAAGCCGGTGTGT

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG211476 representing NM\_170778  
 Red=Cloning site Green=Tags(s)

MAGVLSRDAPDIESILALNPRVQAHTLRSTAARKLDDKHHWRNTDKNCFCEKLESNFDDIKHTTLGER  
 GALREAVRCLKCADAPCQKSCPTSLDIKSFITSIANKNYGAAKLIFSDNPLGLTCGMVCPSTDLVGGC  
 NLHAAEEGPNINIGLQQFATEVFKAMNIPQIRNPSLPPPEHMPEAYSAKIALFGAGPASISCAFLARLG  
 YSNITIFEKQEYVGGTSTSEIPQFRLPYDVVNFIEELMKDLGVKIIICGKSLSTDEMTLSSLKENGYRAAF  
 IGIGLPEPKKDHIFQGLTQVQGFYTSKDFLPLVAKSSKTGMCACHSPLPSIRGAVIVLGAGDTAFDCATS  
 ALRCGALRVFIVFRKGFVNIRAVPEEMELAKEEKEFLPFLSPRKVIVKDGKIVAMQFVRTEQDETGNWV  
 EDEEQTVRLKADVVISAFGSVLEDPKVKEALSPIKFNWGLPEVNPETMQTSEPWWFAGGDVVMANTTV  
 ESVNDGKQASWYIHKHIIQAQYGTSVPSQPTMPLFYTPVDLVDISVEMAGLRFNPFGLASATPATSTPMI  
 RRAFEAGWGFALTKTFLDKDIVTNVSPRIIRGTTSGPLYGPGQSSFLNIELISEKTAAYWCHSVTELKA  
 DFPDNILIASIMCSYNKSDWMELESKMAEASGADALELNLSCPHGMGERGMGLACGQDPELVRNICRWVRQ  
 AVRVPFFAKLTPNVTDIVSIARAAGEGADGVTATNTVSGLMGLKADGTPWPAVGIGRRTTYGGVSGTAI  
 RPIALRAVTAIARALPGFPILATGGIDSAESGLQFLHSGASVLQVCSAIIQNQDFTVIEDYCTGLKALLYL  
 KSIEELADWDGQSPPIISHQKGPVPRVAELMGQKLPSPFYPYLEQRKKIIAASKIRQKQNTACSPQRK  
 HFNSQKPIPAIKDVIKSLQYLGTGEMSIMQVVALIDEEMCINCGKCYMTCNDSGYQAIQFDPETHLP  
 TVSDTCTGCTLCLSVCPIMDCIRMVSRATPYQPKRGLPLAVKPV

SGPTRRRLE - GFP Tag - V

**Restriction Sites:**

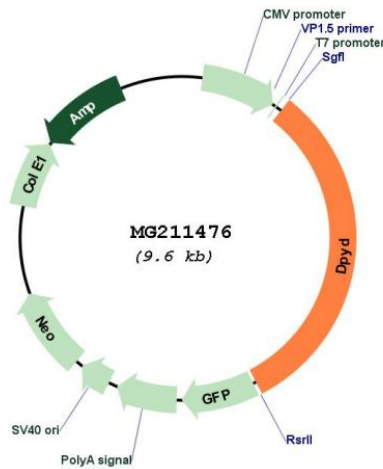
Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_170778

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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_170778.3</a></u>
<b>RefSeq Size:</b>	4437 bp
<b>RefSeq ORF:</b>	3078 bp
<b>Locus ID:</b>	99586
<b>UniProt ID:</b>	<u><a href="#">Q8CHR6</a></u>
<b>Cytogenetics:</b>	3 G1
<b>Gene Summary:</b>	Involved in pyrimidine base degradation. Catalyzes the reduction of uracil and thymine (By similarity).[UniProtKB/Swiss-Prot Function]