

Product datasheet for **MG212501**

Dpys (NM_022722) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpys (NM_022722) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpys
Synonyms:	1200017110Rik; 1300004101Rik; DHP; DHPase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG212501 representing NM_022722
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCACACAGGACGACTTCTTATCCGCGGGGTCTCATTGTCAATGATGACTTCTCACAGTGGCCG
 ACGTGCTAGTGGAGACGCGTGGTGGCGGCTGGGACGGACCTGCTGCCTCCTGAGGACGCATCTCG
 GGGGCTGCGGATCCTAGATGCAGCGGGCAAGCTCGTCCTGCCCGGGGCATCGACACGCACACGCACATG
 CAATCCCGTTTATGGGCTCGCAGTCAGTGGACGACTTCTACCAGGGCACCAAGGCTGCTTTGGCAGGAG
 GCACCACCATGATCATTGATTTTGCATTCTCAGAAAGGCAGCTCCCTCATCGAGGCCCTTTGAGACTTG
 GCGCAACTGGGCAGACCCGAAAGTCTGCTGTGACTATAGCCTGCATGTGGCAGTGACGTGGTGGAGCGAC
 AAGGTAAGAAGAAATGAAACCCCTGCCGAGATAAAGGCGTTAACTCTTCAAGATGTTTATGGCCT
 ACAAAGGTCTGTACATGGTGAAGACGAGCAGCTGTATGCGGCCCTCTCTCAGTGAAGGAGATAGGAGC
 GATTGCTCAGGTGCACGCCGAGAATGGAGATTTGATTGCAGAGGGAGCAAAGAAGATGCTGGCACTGGGG
 ATAACAGGCCCTGAGGGGCACGAGCTGTGCCGTCCAGAAGCAGTGGAGGCAGAGGCCACCCTGAGAGCCA
 TCACCATAGCCAGCGCTGTGAAGTGCCTTTATACGTCGTGCATGTGATGAGCAAATCTGCAGCGAAGGT
 GGTAGCCGATGCGAGGAGAGCAGGAAATGTGGTCTATGGAGAACCAATTGCAGCGGGTCTCGGCACTGAT
 GGCAGACAGTACTGGAGTGAAGAATGGAGCCATGCAGCCACCATGTCATGGGTCCCCCACTGAGACCCG
 ATCCTTTAACACCTGGCTTTCTTATGGATCTGTTGGCTAATGGCGATTTGACCACAACAGGGAGTGACAA
 CTGCACTTTTAAACCTGCCAAAAAGCTCTAGGGAAGGATGACTTCACTAAGATCCCAATGGGGTGAAT
 GGTGTCGAGGACAGGATGTCGGTGTATGGGAAAAGGCGTGCACAGTGGTAAAAATGGATGAAAACAGGT
 TTGTGGCAGTTACCAGCACAAACGCAGCCAAAATCTTTAATCTTTATCCGAAAAAGGAAGAATAGCTGT
 AGGCTCAGATGCTGACATTGTGATCTGGGACCCAGAAGCAACAAGGAGGATCTCAGCCAAAACCTCATCAT
 CAGGCCGTTAACTTCAACATCTTCGAGGCATGGTTTGTACGGGGTGCCTGTTGACTATTTCAAGAG
 GCAGAGTGGTGTATGAAGCAGGTGTTTTCAACGTCACAGCAGGACATGGGAAGTTTATCCCGCCAACC
 CTTTGCCGAATACATTTACAAACGAATCAAGCAGCGAGACCAGACCTGCACACCTGTGCCGTGAAGCGC
 GCCCCTACAAGGGAGAAGTCACCACACTGAAAGCCAGAGAGACAAAAGAAGATGACACTGCTGGAACCA
 GGATGCAGGGCCACTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG212501 representing NM_022722
 Red=Cloning site Green=Tags(s)

MAPQGRLLIRGGLIVNDDFVQVADVLVEDGVVRLGRDLLPPEDASRGLRILDAAGKLVLPGGIDTHTHM
 QFPFMGSQSVDDFYQGTKAALAGGTTMIIDFAIPQKSSLEAFETWRNWADPKVCCDYSLHVAVTWWS
 KVKEEMKTLARDKGVNSFKMFMAKGLYMQDEQLYAAFQCKEIGAIQVHAENGDLIAEGAKMLALG
 ITGPEGHELCRPEAVEAEATLRAITIASAVNCPYVVHVMSKSAKVADARRAGNVVYGEPIAAGLGT
 GRQYWSEEWSHAHHVMGPPLRPDPLTPGFMDLLANGDLTTTGSNDCTFNTCQKALGKDDFTKIPNGVN
 GVEDRMSVIWEKGVHSGKMDENRFVAVTSTNAKIFNLYPKKGRIAVGSDADIVIWDPEATRRISAKTHH
 QAVNFINIFEGMVCHGVPLVTISRGRVVYEAGVFNVTAGHGKFIQRPFAEYIYKRIKQRDQCTPVPVKR
 APYKGEVTTLKARETKEDDTAGTRMQGHS

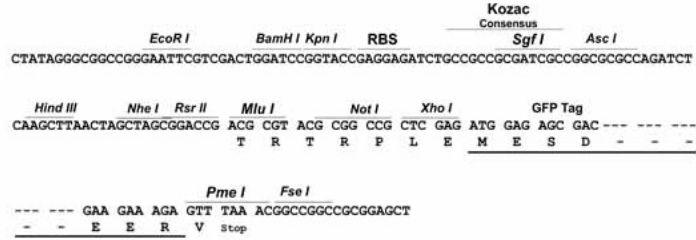
TRTRPLE - GFP Tag - V

Restriction Sites:

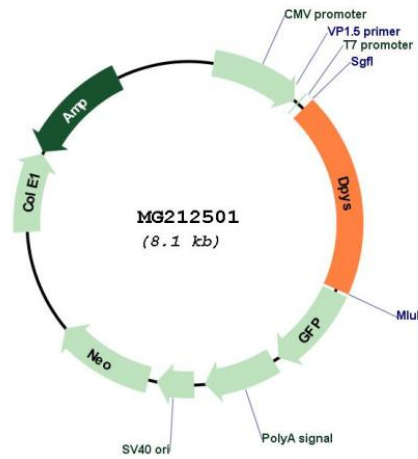
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_022722
ORF Size:	1557 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_022722.1
RefSeq Size:	2471 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]