

Product datasheet for **MG220351**

Dpysl3 (NM_001136086) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dpysl3 (NM_001136086) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dpysl3
Synonyms:	CRMP; CRMP-4; DRP-3; TUC4; U; Ul; Ulip; ULIP-1; Ulip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220351 representing NM_001136086
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATTCACCATCAAGAAACAAAATCCGCGAGAGTGACCGTCTTCTAATCAAGGGAGGAGAATCGTCA
 ATGATGATCAGTCTTTTATGCTGATATTTACATGGAGGATGGCTTAATAAGCAAATGGAGACAATCT
 GATTGTCCCCGGAGGTGTGAAGACCATCGAGGCCAACGGGAAGATGGTGATCCCTGGAGGCATTGACGTC
 CATACCCACTTCCAGATGCCTTACAAGGAATGACCACAGTGGACGATTTCTTCCAAGGGACAAAGGCTG
 CCTTAGCGGGAGGCACCACCATGATCATTGACCACGTGGTACCTGAACCTGAGTCTAGCCTGACAGAGGC
 CTATGAAAAGTGGCGTGAGTGGGCCGATGGGAAGAGCTGCTGTGACTATGCTTTGCATGTGGACATCACC
 CACTGGAATGACAGCGTCAAGCAGGAGGTACAGAGCCTCAGCAAGGAAAAAGGCGTTAACTCCTTCATGG
 TTTACATGGCCTACAAGGATTTATCAAGTGTCCAACACAGAGCTCTATGAGATCTTCACCTGCCTGGG
 AGAGCTGGGGCCATTGCTCAAGTTCATGCCGAGAATGGAGATATCATTGCCCAGGAGCAGGCACGGATG
 CTGGAAATGGGGATAACCGGCCAGAAGGCCACGTTCTGAGCAGACCGGAAGAGCTGGAAGCTGAGGCTG
 TGTTCCGTGCCATCACCGTCGCCAGCCAGACCAACTGCCCCCTCTATGTCACCAAGGTCTAGAGCAAGAG
 CGCGGCTGATCTCATCTACAAGCCAGGAAGAAAGGAAATGTGGTCTTTGGCGAGCCATCACTGCCAGC
 CTGGGAATAGATGGAACCTACTTGGAGTAAGAACTGGGCCAAAGCAGCTGCGTTTGTGACATCCCCAC
 CTCTGAGCCCTGACCCTACCACACTGACTACATCAACTCCTTGTGGCCAGCGGGGATCTGCAGCTCTC
 TGGAAAGTCCCACTGTACCTTAGCACTGCCAGAAAGCCATTGGGAAGGACAACCTCACAGCCATCCCT
 GAAGGCACCAATGGCGTGGAGGAGCGTATGTCTGTCTGTTGGACAAGGCTGTGGCCACGGGGAAGATGG
 ATGAAAACCAAGTTTGTGGCCGTGACAAGCACCAATGCTGCCAAGATATTCAACCTGTACCCTCGAAAGGG
 GAGAAATAGCTGTGGGCTCTGACAGCGACCTTGTACATCTGGGATCCAGATGCCTTGAAGATTGTCTCTGCC
 AAGAACCACAGTCGTTGCCGAATACAACATCTTTGAAGGGATGGAGCTGCGTGGTGCACCTCTGGTGG
 TTATCTGCCAGGCAAGATCATGCTGGAAGATGGCAACCTGCACGTGACCCAGGGGGCTGGCCGCTTCAT
 TCCCTGCAGCCATTCTCTGACTATGTCTATAAGCGCATTAAAGCAAGGAGGAAGATGGCAGACCTGCAT
 GCAGTCCCAAGAGGCATGTATGATGGACCAGTGTGTTGACTTGACCACCACCCCAAGGGGGCACCCAG
 CTGGCTTACTCGGGCTCTCCCACTCGGCCAAACCCGCCAGTGAGGAACCTCCATCAGTCAGGATTTAG
 CCTGTCAGGCACCAAGTGGATGAGGGTGTCCGCTCAGCTAGCAAACGCATTGTGGCACCCCTGGAGGC
 CGTTCTAACATCACATCCCTGAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG220351 representing NM_001136086
 Red=Cloning site Green=Tags(s)

MYSRNRKIRQSDRLLIKGGRIVNDQSFYADIYMEDGLIKQIGDNLIVPGVKTIKANGKMIPIGGIDV
 HTHFQMPYKGMVVDDFFQGTAKAALAGTTMIIDHVPEPESSLTEAYEKWREWADGKSCCDYALHVDIT
 HWNDSVKQEVQSLSKEKGVNSFMVYMAKDLVQVSNTELYEIFTCLGELGAIQVHAENGDIQAQEQARM
 LEMGITGPEGHVLSRPEELEAEAVFRAITVASQTNCPYVTKVMSKSAADLISQARKKGNVVFGEPIAS
 LGIDGTHYWSKNWAKAAAFVTSPLSPDPTTPDYINLLASGDLQLSGSAHCTFSTAQKAIGKDNFTAIP
 EGTNGVEERMSVIWDKAVATGKMDENQFVAVTSTNAAKIFNLVPRKGRIAVGSDSLVIWDPDALKIVSA
 KNHQSVAEYNI FEGMELRGAPLVVICQKIMLEDGNLHVTQAGRFIPCSPPFSDYVYKRIKARRKMADLH
 AVPRGMYDGPVFDLTTTPKGGTPAGSTRGSPTRPNPPVRNLHQSGFSLSGTQVDEGVRSASKRIVAPPGG
 RSNITSLS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001136086

ORF Size: 1704 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_001136086.2](#), [NP_001129558.1](#)

RefSeq Size: 1986 bp

RefSeq ORF: 1707 bp

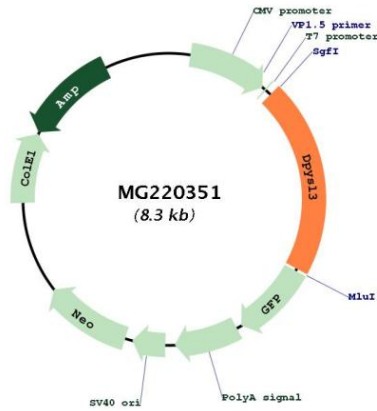
Locus ID: 22240

Cytogenetics: 18 B3

Gene Summary:

This gene encodes a protein that belongs to the TUC (TOAD-64/Ulip/CRMP) family of proteins. Members of this family are phosphoproteins that function in axonal guidance and neuronal differentiation during development and regeneration of the nervous system. A mutation in the human gene is associated with amyotrophic lateral sclerosis. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2014]

Product images:



Circular map for MG220351