

Product datasheet for **MG220057**

Tulp1 (NM_021478) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tulp1 (NM_021478) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tulp1
Synonyms:	Tulp1l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220057 representing NM_021478
 Red=Cloning site Blue=ORF Green=Tags(s)
 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACTGCAGGAGGAGACCCCTTCGGGAAGTGTGGCCTCAGACAGCGCCATGAAGAGGACTGCTTGA
 GCCCCGAGCCCCGCTGCGCCCCAACAGCGACCCGCCAGGGACAGAAGTTGAGAAAAAGAAACCCGA
 GACCCCGACTCCCTGGAATCCAAACCCCGTAAAGCTGGGGCTGGGCGCAGGAAGCACGAGGAGCCGCC
 GCAGACTCGGCAGAGCCGCGCTGCGCAGACAGTCTACGCCAAGTTCCTGAGGGACCCCGAGGCCAAGA
 AGCGGGACCCCGGAAAACTTCTAGTTGCCCGCCCCAGACCTGGGAGGCGAGGAGAATTCCGAAGA
 GGATTCGGATGATGATGACAATGATGATGATGAGGAGGAGGAGAAGAAAGAGGGAAAAAGAGAAA
 AGCTCTCTGCCCCAAGAAAGCACCAAGGAGAGAGAGAAGAAAGCCAAGGCTCTGGGCCAAGGGGG
 ATGTAGGAAGCCCGGATGCCCTCGAAACCGCTCCGAACCAAGAAGAAGGAGGTAGGGGAGGGAACCA
 ACTGAGAAAGGCAAAGAAAAAGGGCCTGGGGAGACTGACAAGGACCCCGCGGGAGCCAGCAGCCTTG
 AGGAAGGAGTTTCCAGCAGCCATGTTCTGGTTGGGGAAGGTGGCGCGCTGAGAAGGTTGAAGAAGA
 AAGGACCTCTAAAGTTTCAAGGAAGAGAAGAAGGAGGAGGAGAAGAAGTGAAGAGGAGGTTGCATC
 CGCAGTGATGAAGAACAGCAACCAGAAGGGCAGAGCTAAAGGAAAGGCAAAAAGAAAGTGAAGGAGGAG
 AGAGCCTCTTCGCCCCCTGTGGAAGTGGGTGAACCCCGGAGTTTGTGCTGCAGCCAGCACCCAGGGCC
 GGGCAGTCCGCTGCCGGCTGACACGGGACAAGAAGGGCATGGATCGCGGCATGTACCCGTCTACTTCT
 GCACCTGGACTGAGAAGAAGTGTCTTCTGCGCGCAGGAAACGCAAGCGGAGTAAAGCAGCCAAC
 TATCTCATCTCCAGTGACCCACCAACCTGTCCCGGGAGGCGAGAATTCATCGGAAGCTGAGGTCTA
 ATCTCTTGGGAACCGCTTACGGTCTTTGACAACGGGCAAGCCACAGCGAGGGGAGGTGGTACGCT
 GGGAAAGCCTGCGCCAGGAGCTGGCCGTGTGGTCTATGAAACCAATGTTTTAGGCTTCCGAGGACCCCGC
 CGTATGACTGTCATTCCTGGAATGAACTCGGACAACGAGAGGTCCTATCCGGCCCCGAAACGCCA
 GCGATGGGCTGCTAGTGCCTGGCAGAACAAGACCCTGGAGAGTCTCATCGAGCTCCATAACAAGCCGCC
 CATCTGGAATGAAGACAGTGGCTCCTACACCCTCAACTCCAGGGCCGCTCACCCAGGCCCTCCGTCAG
 AACTTTTCAAGTTGTGCACGCTGATGACCCTGACTATATAGTGTGCAAGTTCGGCCGCTGGCTGAGGACG
 CCTTACCCTAGACTACCGGTACCCGCTGTGTGCTCTGCAGGCCCTTCGCCATCGCCCTCTCCAGCTTCA
 CGGAAGCTGGCCTGCGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220057 representing NM_021478
 Red=Cloning site Green=Tags(s)
 MPLQEETLREVWASDSGHEEDCLSPEPPLRPKQRPAPQGGKLRKKKRPETPDSLESKPRKAGARRKHEEPP
 ADSAEPRAAQTVYAKFLRDPEAKKRDPRENFLVARAPDLGGEENSEEDSDDDDNDDDEEEEEKKGGKKEK
 SSLPPKAPKEREKAKALGPRGDVGSPPAPRPLRTRKKKEVGEVTKLRKAKKKGPGETDKDPAGSPAAL
 RKEFPAAMFLVGEAGAEKGVKKKGGPPKGSSEEEKKEEEVEEVEVASAVMKNQKGRAGKGGKVKKEE
 RASSPPVEVGEPRFVLPAPQGRAVRCRLTRDKKGMDRGMYPYFLHLDTEKKVFLLAGRKRKSKTAN
 YLISDDPTNLSRGGENFIGKLRNLLGNRFTVFDNGQNPQRGGGVDVGSRLRQELAAVVYETNVLGFRGPR
 RMTVIIIPGMNSDNERVPIRPRNASDGLLVRWQNTLESLELHNKPIWNEDSGSYTLNFQGRVTQASVK
 NFQIVHADDPDYIVLQFGRVAEDAFTLDYRYPLCALQAFALSSFDGKLACE

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_021478

ORF Size: 1629 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_021478.2](#)

RefSeq Size: 2012 bp

RefSeq ORF: 1632 bp

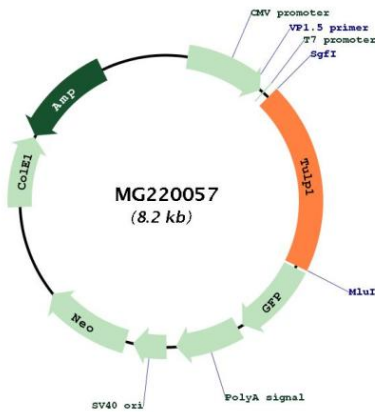
Locus ID: 22157

UniProt ID: [Q9Z273](#)

Cytogenetics: 17 A3.3

Gene Summary: Required for normal development of photoreceptor synapses. Required for normal photoreceptor function and for long-term survival of photoreceptor cells. Interacts with cytoskeleton proteins and may play a role in protein transport in photoreceptor cells. Binds lipids, especially phosphatidylinositol 3-phosphate, phosphatidylinositol 4-phosphate, phosphatidylinositol 5-phosphate, phosphatidylinositol 3,4-bisphosphate, phosphatidylinositol 4,5-bisphosphate, phosphatidylinositol 3,4,5-bisphosphate, phosphatidylserine and phosphatidic acid (in vitro) (By similarity). Contribute to stimulation of phagocytosis of apoptotic retinal pigment epithelium (RPE) cells and macrophages. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG220057