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Product datasheet for MG221726

C1qtnf5 (NM_001190313) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1qtnf5 (NM_001190313) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1qtnf5
Synonyms:	Adie; CTR; Ctrp5; Mfrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG221726 representing NM_001190313
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCCACTTCTTGCCCTTCTGCTTCTGGGTCTGGTGTCAGGCTCTCCTCCTCTGGACGACAACAAGA
TCCCCAGCCTGTGTCCCGGGCAGCCCGGCCTTCCAGGCACACCAGGTCACCATGGCAGCCAAGGCCTGCC
TGGCCGTGACGGCCGTGATGGCCGCGACGGTGCACCCGGAGCTCCGGGAGAGAAAGGCGAGGGCGGGAGA
CCGGGACTACCTGGCCCACGTGGGGAGCCCGGGCCGCGTGGAGAGGCAGGGCCCATGGGGGCTATCGGGC
CTGCGGGGGAGTGCTCGGTACCCCCACGATCAGCCTTCAGTGCCAAGCGATCCGAGAGCCGGGTACCTCC
GCCAGCCGACACACCCCTACCTTTCGACCGTGTGCTGCTAAATGAGCAGGGCCATTACGACCCCACTACT
GGCAAGTTCACCTGCCAAGTGCCTGGCGTCTACTACTTTGCTGTGCACGCCACTGTCTACCGGGCCAGCT
TGCAGTTTGATCTTGTCAAAAACGGGCAGTCCATCGCCTCTTTCTTCCAGTATTTTGGGGGGTGGCCCAA
GCCAGCCTCGCTCTCAGGGGGTGCGATGGTAAGGCTAGAACCTGAGGACCAGGTGTGGGTGCAGGTGGGC
GTGGGTGATTACATTGGCATCTATGCCAGCATCAAGACAGACAGTACCTTCTCTGGATTTCTCGTCTATT
CTGACTGGCACAGCTCCCCAGTCTTCGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

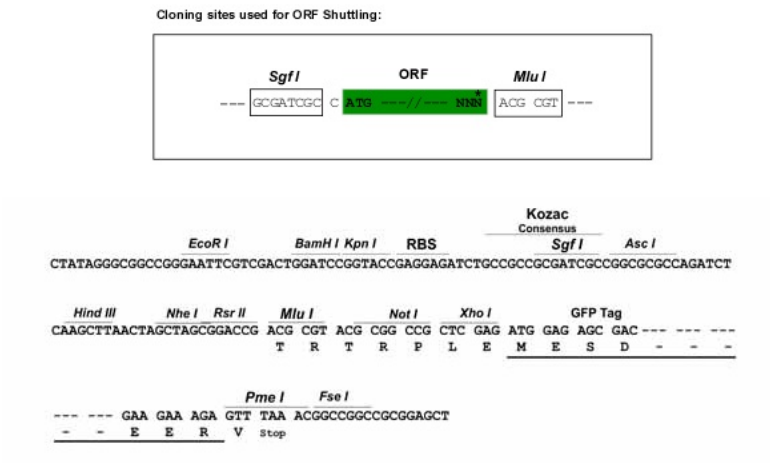
>MG221726 representing NM_001190313
Red=Cloning site Green=Tags(s)

MRPLLALLLLGLVSGSPPLDDNKIPSLCPGQPGLPGTPGHHGSQGLPGRDGRDGRDGAPGAPGEKGEGGR
PGLPGPRGEPGPRGEAGPMGAIGPAGECSVPPRSAFSAKRSESRVPPPADTPLPFDRVLLNEQGHYDPTT
GKFTCQVPGVYYFAVHATVYRASLQFDLVKNGQSIASFFQYFGGWPKPASLSGGAMVRLEPEDQVWVQVG
VGDYIGIYASIKTDSTFSGFLVYSDWHSSPVFA

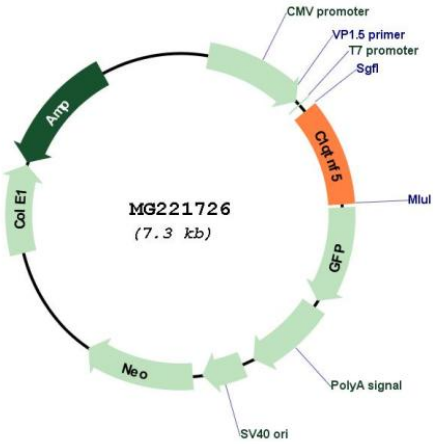
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001190313

ORF Size: 729 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_001190313.1, NP_001177242.1
RefSeq Size:	4274 bp
RefSeq ORF:	732 bp
Locus ID:	235312
UniProt ID:	Q8K479
Cytogenetics:	9 24.62 cM
Gene Summary:	The protein encoded by this gene is a member of the C1q/tumor necrosis factor superfamily. This family member is a secretory protein that functions in eye development. Mutations in this gene are thought to underlie the pathophysiology of late-onset retinal degeneration (L-ORD) and early-onset long anterior zonules (LAZ). Bicistronic transcripts composed of the coding sequences for this gene (C1qtnf5) and the membrane-type frizzled-related protein gene (Mfrp) have been identified, and the resulting products can interact with each other. Co-transcription of C1qtnf5 and Mfrp has been observed in both human and mouse. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2010]