

Product datasheet for MR221727

C1qtnf5 (NM_001040632) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1qtnf5 (NM_001040632) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1qtnf5
Synonyms:	Adie; CTR; Ctrp5; Mfrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR221727 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGAGGCCACTTCTTGCCCTTCTGCTTCTGGGTCTGGTGTGAGGCTCTCCTCCTTGACGACAACAAGA
TCCCCAGCCTGTGTCCCGGGCAGCCCGGCTTCCAGGCACACCAGGTACCATGGCAGCCAAGGCCTGCC
TGGCCGTGACGGCCGTGATGGCCGCGACGGTGCACCCGGAGCCCCGGGAGAGAAAGGCGAGGGCGGGAGA
CCGGGACTACCTGGGCCACGTGGGGAGCCCGGGCCGCTGGAGAGGCAGGGCCCATGGGGCTATCGGGC
CTGCGGGGAGTCTCGGTACCCACGATCAGCCTTCAGTGCCAAGCGATCCGAGAGCCGGGTACCTCC
GCCAGCCGACACACCCCTACCTTTCGACCGTGTGCTGCTAAATGAGCAGGGCCATTTGACCCCACTACT
GGCAAGTTCACCTGCCAAGTGCCTGGCGTCTACTACTTTGCTGTGCACGCCACTGTCTACCGGGCCAGCT
TGCAGTTTGATCTTGCAAAAACGGGCAGTCCATCGCCTCTTTCTTCCAGTATTTGGGGGTGGCCAA
GCCAGCCTCGCTCTCAGGGGTGCGATGGTAAGGCTAGAACCTGAGGACCAGGTGTGGGTGACAGTGGGC
GTGGGTGATTACATTGGCATCTATGCCAGCATCAAGACAGACAGTACCTTCTCTGGATTTCTCGTCTATT
CTGACTGGCACAGCTCCCCAGTCTTCGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR221727 protein sequence
 Red=Cloning site Green=Tags(s)

MRPLLALLLLGLVSGSPPLDDNKIPSLCPGQPGLPGTPGHHSQGLPGRDGRDGRDGAPGAPGEGKGEGR
 PGLPGRGEPGRGEAGPMGAIGPAGECSVPPRSAFSAKRSESRVPPADTPLPFDRLVLLNEQGHFDPTT
 GKFTCQVPGVYFVAVHATVYRASLQFDLVKNGQSIASFQYFGGWPKPASLGGAMVRLPEPQVWVQVG
 VGDYIGIYASIKTDSTFSGFLVYSDWHSSPVFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk4261_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001040632

ORF Size: 732 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_001040632.1](#), [NM_001040632.2](#), [NP_001035722.1](#)

RefSeq Size: 1366 bp

RefSeq ORF: 732 bp

Locus ID: 235312

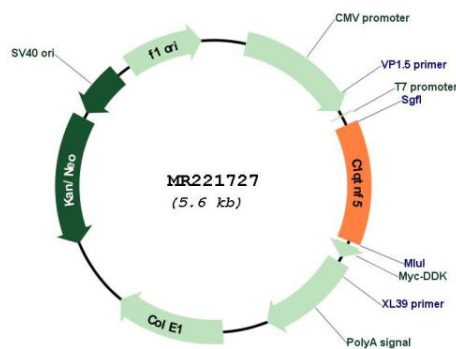
UniProt ID: [Q8K479](#)

Cytogenetics: 9 24.62 cM

MW: 25.4 kDa

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]

Product images:



Circular map for MR221727