

## Product datasheet for MR221725

### C1qtnf5 (NM\_145613) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C1qtnf5 (NM_145613) 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:	>MR221725 representing NM_145613 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCCACTTCTTGCCCTTCTGCTTCTGGGTCTGGTGTGAGGCTCTCCTCCTTGACGACAACAAGA  
TCCCCAGCCTGTGTCCCGGCAGCCCGCCTTCCAGGCACACCAGGTACCATGGCAGCCAAGGCCTGCC  
TGGCCGTGACGGCCGTGATGGCCGCGACGGTGCACCCGGAGCTCCGGGAGAGAAAGGCGAGGGCGGGA  
CCGGGACTACCTGCCCCACGTGGGGAGCCCGGCCGCTGGAGAGGCAGGGCCCATGGGGCTATCGGGC  
CTGCGGGGAGTGTCTCGGTACCCACGATCAGCCTTCAGTGCCAAGCGATCCGAGAGCCGGGTACCTCC  
GCCAGCCGACACACCCCTACCTTTCGACCGTGTGCTGCTAAATGAGCAGGGCCATTACGACCCCACTACT  
GGCAAGTTCACCTGCCAAGTGCCTGGCGTCTACTACTTTGCTGTGCACGCCACTGTCTACCGGGCCAGT  
TGCAAGTTGATCTTGCAAAAACGGGCAGTCCATCGCCTCTTTCTTCCAGTATTTGGGGGTGGCCAA  
GCCAGCCTCGCTCTCAGGGGTGCGATGGTAAGGCTAGAACCTGAGGACCAGGTGTGGGTGACAGTGGGC  
GTGGGTGATTACATTGGCATCTATGCCAGCATCAAGACAGACAGTACCTTCTCTGGATTTCTCGTCTATT  
CTGACTGGCACAGCTCCCCAGTCTTCGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR221725 representing NM\_145613  
Red=Cloning site Green=Tags(s)

MRPLLALLLLGLVSGSPPLDDNKIPSLCPGQPGLPGTPGHHSQGLPGRDGRDGRDGAPGAPGEGKEGGR  
 PGLPGPRGEPGRGEAGPMGAIGPAGECSVPPRSASFSAKRSESRVPPPADTPLPFDRLVLLNEQGHYDPTT  
 GKFTCQVPGVYFVAVHATVYRASLQFDLVKNGQSIASFQYFGGWPKPASLGGAMVRLPEPQVWVQVG  
 VGDYIGIYASIKTDSTFSGFLVYSDWHSSPVFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk4261\\_a03.zip](https://cdn.origene.com/chromatograms/mk4261_a03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145613

**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\\_145613.4](#), [NP\\_663588.2](#)

**RefSeq Size:** 4292 bp

**RefSeq ORF:** 732 bp

**Locus ID:** 235312

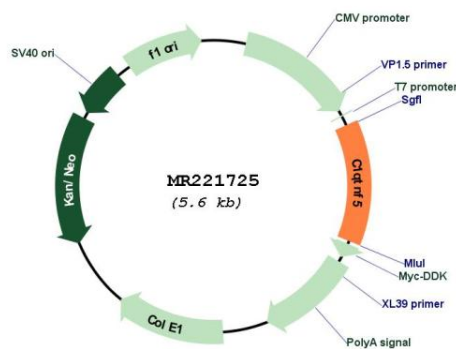
**UniProt ID:** [Q8K479](#)

**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 MR221725