

Product datasheet for **RG203425**

CCDC47 (NM_020198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CCDC47
Synonyms:	GK001; MSTP041; THNS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG203425 representing NM_020198
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGCGCCC

ATGAAAGCCTTCCACACTTTCTGTGTTGTCCTTCTGGTGTGGGAGTGTCTCTGAAGCCAAGTTTGATG
 ATTTTGAGGATGAGGAGGACATAGTAGAGTATGATGATAATGACTTCGCTGAATTTGAGGATGTCATGGA
 AGACTCTGTTACTGAATCTCCTCAACGGGTCATAATCACTGAAGATGATGAAGATGAGACCACTGTGGAG
 TTGGAAGGGCAGGATGAAAACCAAGAGAGATTTGAAGATGCAGATACCCAGGAGGGAGATACTGAGA
 GTGAACCATATGATGATGAAGAATTTGAAGTTATGAAGACAAACCAGATACTTCTTCTAGCAAAAATAA
 AGACCAATAACGATTGTTGATGTTCTGCACACCTCCAGAACAGCTGGGAGAGTTATTATCTAGAAATT
 TTGATGGTGACTGGTCTGCTTGTATATCATGAATTACATCATTGGGAAGAATAAAAAAGTCGCTTG
 CACAGGCTGGTTAACACTCATAGGGAGCTTTGGAGAGCACTTACTTTAGTGGGGATGATGGAAC
 TAACAAAGAAGCCACAAGCACAGGAAAGTTGAACCAGGAGAATGAGCACATCTATAACCTGTGGTGTCT
 GGTCGAGTGTGCTGTGAGGGCATGCTTATCCAGCTGAGGTTCTCAAGAGACAAGACTTACTGAATGTCC
 TGGCCCGGATGATGAGGCCAGTGAGTGATCAAGTGCAATAAAAGTAACCATGAATGATGAAGACATGGA
 TACCTACGTATTTGCTGTTGGCACACGAAAGCCTTGGTGCAGTACAGAAAGAGATGCAGGATTTGAGT
 GAGTTTTGTAGTATAACCTAAGTCTGGAGCAAAGTATGGACTGCCGACTCTTTGGCCATCTGTGAG
 AGATGGGAGAAGTACAGACGGAATGATGGATACAAAGATGGTTCACTTTCTTACACACTATGCTGACAA
 GATTGAATCTGTTCAATTTTTCAGACAGTTCTCTGGTCCAAAAATTATGCAAGAGGAAGGTGAGCCTTTA
 AAGCTACCTGACACTAAGAGGACACTGTTGTTTACATTTAATGTGCCTGGCTCAGGTAACACTTACCCAA
 AGGATATGGAGGCACTGCTACCCCTGATGAACATGGTGATTTATTCTATTGATAAAGCCAAAAAGTTCCG
 ACTCAACAGAGAAGGCAACAAAAAGCAGATAAGAACCCTGCCGAGTAGAAGAGAAGTCTTTGAAAGT
 ACACATGTGCAAGACAGGAAGCAGCAGTCTCGGCGGGAGGAGAAAAAAGAGCAGAGAAGGAGCGAA
 TCATGAATGAGGAAGATCCTGAGAAACAGCGCAGGCTGGAGGAGGCTGCATTGAGGCGTGAGCAAAAGAA
 GTTGGAAAAAGCAATGAAATGAAACAAATCAAAGTGAAGCCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203425 representing NM_020198
 Red=Cloning site Green=Tags(s)

MKAFHTFCVLLVFGSVSEAKFDDFEDEEDIVEYDDNFAEFEDVMEDSVTESPQRVIITEDDEDETTVE
 LEGQDENQEGDFEADTQEGDTESEPYDDEEFEGYEDKPDTSKSKNDPITIVDPAHLQNSWESYYLEI
 LMVTGLLAYIMNYIIGKNKNSRLAQAWFNTHRELLESNFTLVGDDGTNKEATSTGKLNQENEHIYNLWCS
 GRVCCGMLIQLRFLKRQDLLNVLARMMRPVSDQVQIKVTMNDMDTYVFAVGTRKALVRLQKEMQDLS
 EFCSDPKPSGAKYGLPDSLAILSEMGEVTDGMDTKMVHFLTHYADKIESVHFSQDQFSGPKIMQEEGQPL
 KLPDTKRLLFTFNVPGSGNTYPKDMEALLPLMNMVIYSIDKAKKFRNLNREGKQKADKNRAREENFLKL
 THVQRQEAAQSRREEKKRAEKERIMNEEDPEKQRRLEEAALRREQKLEKKQMKMKQIKVKAM

TRTRPLE - GFP Tag - V

Restriction Sites: AscI-MluI

Cloning Scheme:



ACCN: NM_020198

ORF Size: 1449 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_020198.3](#)

RefSeq Size: 3294 bp

RefSeq ORF: 1452 bp

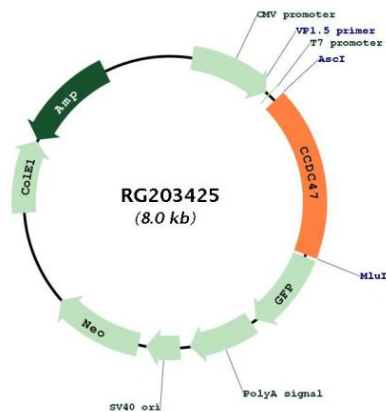
Locus ID: 57003

UniProt ID: [Q96A33](#)

Cytogenetics: 17q23.3

Gene Summary: Involved in the regulation of calcium ion homeostasis in the endoplasmic reticulum (PubMed:30401460). Required for proper protein degradation via the ERAD pathway (PubMed:25009997). Has an essential role in the maintenance of endoplasmic reticulum organization during embryogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG203425