

Product datasheet for **MG201615**

Ccdc115 (NM_027159) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ccdc115 (NM_027159) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Ccdc115
Synonyms: 2310061I09Rik; Ccp1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201615 representing NM_027159
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGTCCAGGCTCTGCGAGAGGAGTTGGACTCCAAGTGCCTACAGCTGCTCAGTGACCTGGAGGAAC
 TGGAGGCGAAGCGGGCGGCTGAACGCCAGGGTGGAGGAGGGTTGGCTCTCACTTGCCAAGGCTCGCTA
 TGCCATGGGAGCCAAGTCGGTAGGACCCCTGCAGTATGCCTCGCGTATGGAGCCTCAGGTCTGCGTGCCT
 GCCAGCGAGGCCAGGATGGACCCAGACCTTCAGGGTGATCAAAGCTGACGCCAGACCCCGAGGAAG
 TGGGGCTAGCGAAGCATCTCTGCGCAGGCGCAAGGGCCCAAGACCAAAGAGTTAGGATCTGCTGT
 AGTTCCTCAAGATCCCTTGAAGTGGTTTGGAAATTTGGTTCTCACAGTCTGCGGCAGGCCCAAGCCAGC
 TTCCGGGATGGCTACAGCTGGCTGCAGATATAGCCAGTCTCCAGACTCGCATCAACTGGGGTCAGAGTC
 AGCTTCGAGGCCCTCCAGAAAAACTGAAGGAGTTGGACCTGGGCCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201615 representing NM_027159
 Red=Cloning site Green=Tags(s)

MAVQALREELDSKCLQLLSDLEELEAKRAALNARVEEGWLSLAKARYAMGAKSVGPLQYASRMPEQVCVR
 ASEAQDGPQTFRVIKADAQTPEEVGPSEASLRRRKGPSTKELGSAVVPQDPLNWFILVPHSLRQAQAS
 FRDGLQLAADIASLQTRINWQSQLRGLQKLLKELDPGPA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

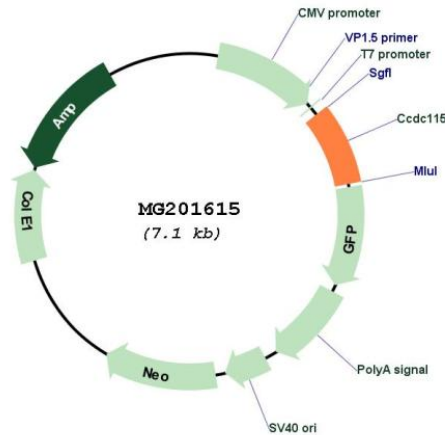


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Cloning Scheme:



Plasmid Map:



ACCN: NM_027159

ORF Size: 540 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:	<ol style="list-style-type: none">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:	<u>NM_027159.2</u>
RefSeq Size:	1709 bp
RefSeq ORF:	543 bp
Locus ID:	69668
UniProt ID:	<u>Q8VE99</u>
Cytogenetics:	1 B
Gene Summary:	Accessory component of the proton-transporting vacuolar (V)-ATPase protein pump involved in intracellular iron homeostasis. In aerobic conditions, required for intracellular iron homeostasis, thus triggering the activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and subsequent proteasomal degradation. Necessary for endolysosomal acidification and lysosomal degradation (By similarity). May be involved in Golgi homeostasis (By similarity).[UniProtKB/Swiss-Prot Function]