

## Product datasheet for **MG204136**

### **Ccdc98 (BC029845) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ccdc98 (BC029845) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ccdc98
Synonyms:	3830405G04Rik; 5630400M01Rik; AI506069; AL024423; AV118690; Ccdc98
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204136 representing BC029845 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACATTTAGAGAGCAGTTACTCCACAGAACTTACAGACACATCTTTCAAGCCCTGAGCTGGTTTTCC  
TGTTGTTAACACCGAGTATAACAACAGAAAGCTGCTCCACTCACTGCCTGGAACACGCCTTATATAAAC  
TCAAAGGGGGCTTTTTCATAGGGTACCATTGGTGGTTACCAATCTGGGAATGTCTGATCAACTGGGTTAT  
AAAACAGAACCTGCTTCTGTACATCCACTGTCTTTAGTAGAGCTGTGAGGACACACAGTTCTCAGTTCT  
TTAATGAAGATGGATCATTAAAGGAAGTCCATAAGATAAATGAAATGTATGCTGCTGTACAAGAAGAGTT  
AAAGAGTATATGCCAAAAGTTGAACAAAGTGAACGAGAAGTAGAGAACTATTGATGGATGTAACCAA  
TTAAAAGAAGTTAGAAGAAGCCAGCAAGCACGGGCTACAGGAGCAGGAGAGAAGAATGTCCAGAGAAACC  
CACAGGAGAACATCCTTCTTTGTCAAGCTTTGCGAACATTTTTCCAGAGTCTGAAGTTCTTCATCTTG  
CGTTATTTCTTTGAAAAATAGACACATTTCTCCAGTGGGTGAACGTTAACCACCATGTTGATGTAGTG  
GATCAGCTGACCTAATGGTAGAGTATGTGTACAGCCCTGAAGCTAGTCCAGTGCCACAGCCAGCTAC  
GTAACCGAAGGCTCTAGACACAGGACCAGGGGTCTGTGAAGAGACCAGGCTGCTGGAGACAGAAAG  
CAGACCTTCTGTGGCAGCGTCCCGCAGCAGGCACCAAGACAAGGCTTCTCAAGCAGCCTAGATATAGAC  
ATAGAGATGGGGAGCCCAGAAGATGATGCTGACTATCCTCGCTCTCCACATTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204136 representing BC029845  
 Red=Cloning site Green=Tags(s)

MTFREQLLHRNLQTHLSSPELVFLLLTPSITTESCSTHCLEHALYKQRGLFHRVPLVVTNLGMSDQLGY  
 KTEPACSTSTVFSRAVRTHSSQFFNEDGSLKEVHKINEMYAAVQEELKSIQKVEQSEREVEKLLMDVNQ  
 LKEVRRRTQARATGAGEKNVQRNPQENILLCQALRTFFPESEVLHSCVISLKNRHI SPSGCNVNHVDDV  
 DQLTLMVEYVVSPEASPVPTAQLRKRKALDTQDQGSVKRPRLLETESRPSVAASRSRHRQDKASSSSLDID  
 IEMGSPEDDADYPRSPFT

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC029845

**ORF Size:** 896 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:** [BC029845](#), [AAH29845](#)

**RefSeq Size:** 1680 bp

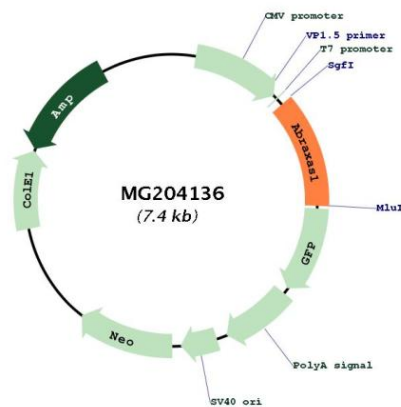
**RefSeq ORF:** 896 bp

**Locus ID:** 70681

**Cytogenetics:** 5 E4

**Gene Summary:** Involved in DNA damage response and double-strand break (DSB) repair. Component of the BRCA1-A complex, acting as a central scaffold protein that assembles the various components of the complex and mediates the recruitment of BRCA1. The BRCA1-A complex specifically recognizes 'Lys-63'-linked ubiquitinated histones H2A and H2AX at DNA lesion sites, leading to target the BRCA1-BARD1 heterodimer to sites of DNA damage at DSBs. This complex also possesses deubiquitinase activity that specifically removes 'Lys-63'-linked ubiquitin on histones H2A and H2AX.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG204136