

## Product datasheet for **MG208789**

### **Cdc14a (BC072644) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc14a (BC072644) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc14a
Synonyms:	Cdc14, CDC14A2, CDC14a1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208789 representing BC072644  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCAGCGGAGTCTGGGAACTAATCGGGCTTGCAGTTCATGAAAGATCGATTATATTTTGCTACTT  
 TAAGGAATAGACCAAAAAGCACAATAAATATCCACTATTTCTCCATCGACGAGGAGCTGGTCTATGAAAA  
 TTTCTATGCAGATTTTGGACCTCTGAACCTTGGCAATGGTGTACAGATACTGCTGTAAGCTAAACAAGAAA  
 CTAATAATCATACAGTTTATCAAGAAAGAAGATAGTGCCTACACCTCTTTCGACCAGCGAAAAGAGCAA  
 ACGCAGCATTCTGATAGGTGCTTATGCCGGATTACAGCATGGGTTTTTGGACTTTGAGACGTTTGATGC  
 GGAAGAATATGAACATTATGAGCGAGTTGAAAACGGAGACTTCAACTGGATCGTTCAGGAAAGTTTTTA  
 GCGTTCAGTGGACCGCATCCTAAAAGCAAGATTGAGAATGGTTACCCTCTCCACGCTCCCGAAGCCTACT  
 TTCCATACTTCAAAAAGAACAACGTGACCAGCATCGTGAGATTGAACAAAAGATCTACGAGGCGAAGCG  
 CTTACAGACGCTGGCTTCGAGCACTATGACCTGTTCTCATAGACGGCAGCACCCCGAGGATAACATC  
 GTGCGGAGATTCTGAACATCTGTGAGAACACCGAGGGGCCATCGCGGTCCACTGCAAAGCTGGTCTGG  
 GAAGAACCGGGACATTGATAGCCTGTTATGTCATGAAACACTACAGGTTTACACATGCTGAAATCATTGC  
 TTGGATCAGAATTTGCCGACCAGGCTCCATCATCGGACCCAGCAGCACTTCTGAAAGAAAAACAAGCA  
 TCATTGTGGGTCCAAGGAGACATTTTTAGATCCAACTAAAAATAGACCATCCAGTGAGGGAGATTA  
 CAAAAATTATTTTACCCTGGATGATATGTCTATTGGTGCAAATTTATCCAAATTACAAAGCACAGAAAG  
 GATTGGAGAGAATAATTTGAAGACGAAGATATGGAAATTAAGAACAACGTAACGCAGGGAGACAACTA  
 CGTGCCTTAAAAGCCAGAGGCATCCCCGCTCCTCGCCATCCTGTGCATTTAGGTCAGATGATGAAAG  
 GACACCAAGGGCAATGGCCAGACTTTCAGATTAAGTTCCTCACCAACCAACTATGTCGACCATGAA  
 GACCTCCAAAGTGTGTTTGTCCCCTTCAGTGACAGCCAAAAAATAAGCCGAGGTTCTTTGTCTTCAGGA  
 GCAAATATAAGAAGCTTCTCCATAAATCCCGGCTAGCCAGTTCTCTAGGAACTTGAACGCCGGGACAG  
 AAGAACCTGAGACCAAGAAGACCACATCACTACCAAGGCCGCTTTCATAGCCAGCCATTCACCAGCTT  
 CTTGAATGGCAGCACCCAGACACCTGGCAGAACTACCCTGAGCTCAACAACAACAGTACACCAGAAGC  
 AGCAACAGCAACAGCAGCAGCAGCAGCAGCGGTCTTGGGGCAACCTGAACAGCTCTCCAGTCCCCCAGA  
 GCGCCAAGCCGAGGAGCACACCACCATCCTTCGACCTTCTTCCCGGGTCACTCTCTTCTCCTCAGT  
 GAGATTCTGAGCCGTTCTATACCTTCCCTTCAGTCTGAATACGTTATTAC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208789 representing BC072644  
 Red=Cloning site Green=Tags(s)

MAAESGELIGACEFMKDRLYFATLRNRPKSTINIHYFSIDEELVYENFYADFPLNLAMVYRYCCKLNKK  
 LKSYSLSRKKIVHYTSFDQRKRANAFLIGAYAGLQHGFFDFETFDAEEYEHYERVENGFNWIIVPGKFL  
 AFSGPHPKSKIENGYPLHAPEAYFPYFKNNVTTIVRLNKKIYEAKRFTDAGFEHYDLFFIDGSTPSDNI  
 VRRFLNICENTEGAIAVHCKAGLGRGTGLIACYVMKHYRFTHAEIIAWIRICRPGSIIIGPQQHFLKEKQA  
 SLWVQGDIFRSKLNRPSSSEGSITKIIISTLDDMSIGANLSKLQSTERIGENNFEDMEIKNNVTQGDKL  
 RALKSQRHPRSSPSCAFRSDDMKGHQRAMAQTFRLSSSPQPTMSTMKTSKVCLSPSVTAKKISRGLSSG  
 ANIRSFINSRLASSLGNLNAGTEEPETKTTSLTKAAFIASPFTSFLNGSTQTPGRNYPENNNQYTRS  
 SNSNSSSSSSGLGNLNSPVPQSAKPEEHTTILRPSFPGSLSSSVRFLSRSIPSLQSEVYHY

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	BC072644
<b>ORF Size:</b>	1664 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC072644</a> , <a href="#">AAH72644</a>
<b>RefSeq Size:</b>	4319 bp
<b>RefSeq ORF:</b>	1664 bp
<b>Locus ID:</b>	229776
<b>Cytogenetics:</b>	3 G1
<b>Gene Summary:</b>	Dual-specificity phosphatase. Required for centrosome separation and productive cytokinesis during cell division. Dephosphorylates SIRT2 around early anaphase. May dephosphorylate the APC subunit FZR1/CDH1, thereby promoting APC-FZR1 dependent degradation of mitotic cyclins and subsequent exit from mitosis (By similarity). Required for normal hearing (PubMed:29293958).[UniProtKB/Swiss-Prot Function]