

## Product datasheet for **MG208736**

### **Cdc25b (BC057568) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdc25b (BC057568) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdc25b
Synonyms:	A1604853
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208736 representing BC057568  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGTACCCCTGCAGAAGTCTGCGCCGGTTCAGCTCTCAGTCTGCCCGCTGCTGGTGGCATT  
 AGCGGCCGCGCCACCTCTCGGTCTTTAGTTTGTAGTCTGATGGCTTCTGGGGTCTCCGGAGCCTACAGC  
 TTCTCTCTCCGGTTACCACTCTTACACAGACCATGCACAACCTCGCTGGGCTCGGCAGTGAGCCTCCA  
 AAAGCTCAAGTAGGAAGCCTGTCGTTCCAGAACAGGCTGGCAGACCTATCCCTGTCCAGGCGCACCTCTG  
 AGTGCTCCCTGTCATCTGAGTCTCAGAATCTTCGGATGCAGGTCTGTGCATGGACTCCCCAGCCCTGT  
 GGACCCGAGATGGCAGAGCGCACGTTTGAACAGGCCATTAGGCAGCCAGTCCGGTCATTCAAATGAG  
 CAGTTTACCATAAAACGCTTCCGATCCTTACCAGTGAGGCTGCTGGAACACAGTCCGGTGTGCAGAGCA  
 TCACCAACTCCCGAGCACTGGACAGCTGGAGGAAAAGTGAAGCAGGCTACCGAGCCGCCCAATAGTCC  
 TGGGGAGGACAAAGAGAATGTGCGCTTCCAGAGACCAAGATGGAGGAGCTCCAGGGAGAGAGGTGTCTT  
 ACCACTGAGTGAAGATGGAAGTAGAGGAGCTGAGCCCGGTGGCAGATCTTCTTCTTGACTCCTGTGC  
 AAAGGGCTTCTGAAGAAGATGACGGATTTGTGGACATCCTGGAGAGTGATTTAAAGGATGACGAGAAGGT  
 CCCCAGGGCATGGAGAACCTCATTAGTGCCCCACTGGTCAAAAAGCTGGATAAGGAAGAGGAACAGGAT  
 CTCATCATGTTGAGCAAGTGCCAGAGGCTCTCCGCTCCCATCCATGCCATGCAGTGTGATCCGACCCA  
 TCCTCAAGAGGCTAGAGCGGCCCCAGGACCGGGATGTGCTGTCCAGAGCAAGCGCAGGAAAAGTGTGAC  
 ACCCTGGAAGAGCAGCAGCTTGAAGAACCTAAGGCCGTGTCTTTCGCTCAAAGTCGCTGTGTCATGAG  
 ATTGAGAACATCCTGGATAGTGACCACCGTGGACTGATCGGAGATTACTTAAGGCCTTCTCCTGCAGA  
 CCGTGGATGGCAAACACCAAGACCTTAAGTACATCTACCAGAACTATGGTGGCCCTGTTAACAGGCAA  
 GTTCAGCAACATCGTGGAGAAATTTGTCAATGTGGACTGCAGATACCCCTATGAGTATGAAGCGGGCAT  
 ATCAAGAATGCTGTGAACCTGCCCTGGAACGGGATGCTGAGACCTTTCTGCTGCAGCGTCCCATATGC  
 CTTGTAGCCTGGACAAGAGAATCATCCTCATTTCCTACTGTGAATTCTCGTCTGAGCGTGGACCAGAA  
 GTGCCGTTTCATCAGGGAACGGGACCGTGCAGCTAACGACTACCCAGCCTGTACTACCCGGAGATGTAC  
 ATCCTCAAAGGCGGCTACAAGGAGTTCTCCACAGCATCCGAACCTTTGTGAGCCCCAGGACTACCGAC  
 CCATGAACCACGAGGCTTTCAGGGATGAGCTGAGGAACCTTTCGCTTAAGACTCGCAGCTGGGCTGGGA  
 ACGGAGCAGGAGGAACTTTGTAGCAGGCTGCAAGACCAG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208736 representing BC057568  
 Red=Cloning site Green=Tags(s)

MEVPLQKSAPGSALSPARVLGGIQRPHLSVFEFESDGLGSPEPTASSSPVTTLTQTMHNLAGLGSEPP  
 KAQVGSLSFQNLADLSLRRSECSLSESSSDAGLCMDSPSPVDPQMAERTFEQAIQAASRVIQNE  
 QFTIKRFRSLPVRLLEHSPVLQITNSRALDSWRKTEAGYRAAANSPGEDKENVRFQRPWRSSRERRCL  
 TTEWKMEVEELSPVAQSSSLTPVERASEEDDGFVDILESDLKDDEKVPAGMENLISAPLVKLLDKEEQD  
 LIMFSKQRLFRSPMPCSVIRPILKRLERPQDRDVPVQSKRRKSVTPLEEQLEEPKARVFRSKSLCHE  
 IENILSDHRGLIGDYSKAFLLQTVDGKHQDLKYISPETMVALLTGKFSNIVEKFVIVDCRYPYEYEGGH  
 IKNAVNPLERDAETFLLRPIMPCLDKRIILIFHCFSSERGPVMCRFIRERDRAANDYPSLYPEMY  
 ILKGGYKEFFPQHHPNFCEPQDYRPMNHEAFRDELRFRLKTRSWAGERSRRELCSRLQDQ

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

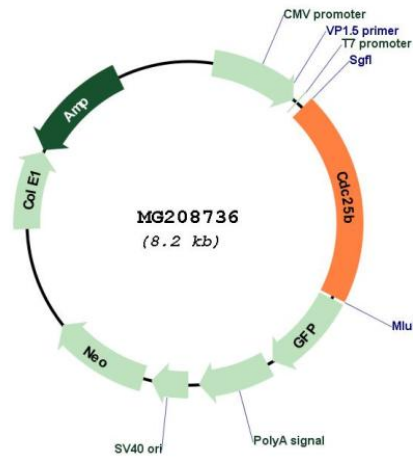
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



<b>ACCN:</b>	BC057568
<b>ORF Size:</b>	1652 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="#">BC057568</a> , <a href="#">AAH57568</a>
<b>RefSeq Size:</b>	2935 bp
<b>RefSeq ORF:</b>	1652 bp
<b>Locus ID:</b>	12531
<b>Cytogenetics:</b>	2 63.29 cM
<b>Gene Summary:</b>	Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Directly dephosphorylates CDK1 and stimulates its kinase activity (By similarity).[UniProtKB/Swiss-Prot Function]