

## Product datasheet for **MG207070**

### Cpm (BC100404) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cpm (BC100404) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cpm
Synonyms:	1110060I01Rik; 5730456K23Rik; AA589379; E030045M14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207070 representing BC100404 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCGCGCGCCTGTGGCTGGGGCTTCTGCTGCCCGTGGTGGCCGCCCTGGATTTCCGATATCACC  
ACCAGGAAGGGATGGAGGCGTTCCTAAAGAGCGTGGCTCAGAACTACAGTTCGATCACGCACTTGCACAG  
CATCGGGAATCTGTGAGAGGTAGAACTGTGGGTTCTCGTTGTGGGCAGACTCCAAAGGAACACAGA  
GTCGGGATTCAGAATCAAATACGTGGCGAATATGCACGGAGATGAGACTGTAGGGCGAGAAGTCTGTC  
TCCACCTGATCGACTATCTGGTGAAGCAGTTACAGGAAAGACCCGAAATCACGCATCTGATTGACAGCAC  
CCGGATCCACATCATGCCTTCCATGAACCCGATGGATTCGAAGCCGTCAGAAAGCCGACTGTTACTAC  
AGCAATGGCAGGGAAAATAACAATAATTATGACCTGAACAGAAATTTCTGATGCCTTTGAGAATAACA  
ATGTAACAAAGCAACCTGAGACTCTGGCAATCATGGAGTGGCTGAAAACGGAAACATTTGTCTCTCTGC  
GAATCTCCATGGGGTGCCTGGTGGCCAGTACCCTTTGATAATGGCGTACAAGCTACGGGGACACTG  
TTGTCCGAAGCTTAACCCCGGACGATGACGTTTTCCAACACCTGGCCTACACCTACGCCTCCCGGAATC  
CCAACATGACAAAAGGAGATCAGTGTAAAACAAGAGGAACTCCCAACGGGATATCAACGGCTACTC  
CTGGTACCCACTGCAAGGGGAATGCAAGATTACAACACTACATCTGGGCCAGTGCCTTTGAAATTACCTG  
GAGCTGTCTGTGTAATATCCTCGCGAGGAGAAGCTGCCGCTCTTTTGGAAACGATAACAAAGCCTCTT  
TGATCGAATATATAAAACAGGTGCACCTAGGGGTAAAGGGTCAAGTGTTGATCAGAGTGGAGCTCCATT  
ACCGAATGTAATCGTGGAGTCCAAGACAGAAAGCATATCTGCCGTTTGAACCAACAAGCTTGGAGAA  
TACTATCTGCTTCTGCTGCCCGGTCTACGTGATCAATGTTACAGTCCCTGGACACGACTCCTACCTCA  
CGAAGCTTACTATTCCAGGGAAATCCCAGCCCTCAGTGTCTTAAAAAGGATTTTACCTCCCGCTGCG  
ATGGCAGCCGATTCCATCTCCGATCCAATCCTTCGTGCCCGATGATCCGCTGTACAAATTCATGCCA  
AGCCACTCGGCTGCCAAAAGCCTAGTCTGGCGTGTTCATGACTCTTTGTACGTATTTTTAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG207070 representing BC100404  
 Red=Cloning site Green=Tags(s)

MDRARLWLG LLLPVVAALDFRYHHQEGMEAF LK SVAQNYSSITHLHSIGKSVRGRNLWLVV GQTPKEHR  
 VGIPEFKYVANMHGDETVGRELLHLIDYLVSSYRKDPEITHLIDSTRIHIMP SMNPDGFEAVQKPCYY  
 SNGRENNYNDLNRNFPDAFENNNVTKQPETLAIMEWLKTET FVLSANLHGGALVASYPFDNGVQATGTL  
 LSRSLTPDDDFVQHLAYTYASRNPNTKGDQCKNKRNF PNGIINGYSWYPLQGGMQDYNIWAQCFEITL  
 ELSCCKYPREEKLP LFWNDNKASLIEYIKQVHLGVKGVFDQSGAPLPNVIVEVQDRKHICPFRTNKLGE  
 YYLLLLPGSYVINVTVP GHDSYLTKLTIPK SQPFSALKKDFHLPLRWQPDSISVSNPSCPMIPLYK FMP  
 SHSAATKPSLGVFFMTLLYVFFK

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC100404

**ORF Size:** 1331 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:** [BC100404](#), [AAI00405](#)

**RefSeq Size:** 3155 bp

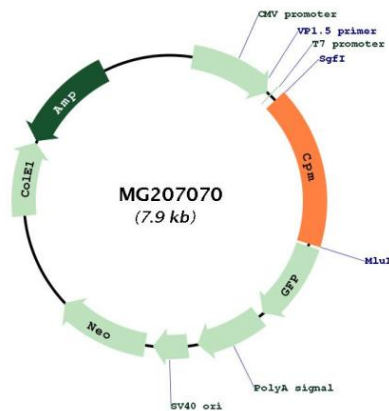
**RefSeq ORF:** 1331 bp

**Locus ID:** 70574

**Cytogenetics:** 10 D2

**Gene Summary:** Specifically removes C-terminal basic residues (Arg or Lys) from peptides and proteins. It is believed to play important roles in the control of peptide hormone and growth factor activity at the cell surface, and in the membrane-localized degradation of extracellular proteins (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG207070