

## Product datasheet for **MG214559**

### Ngp (NM\_008694) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Ngp (NM\_008694) Mouse Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: Ngp  
 Synonyms: bectenecin  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >MG214559 representing NM\_008694  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGGGCTGTGGAAGACCTTTGTATTGGTGGTGGCCTTGGCTGTGGTCTCCTGTGAGGCCCTTCGAC  
 AACTAAGATATGAGGAGATTGTTGATAGAGCCATAGAGGCATACAACCAAGGGCGGCAAGGAAGACCCCT  
 CTTCCGCCTGCTAAGTGCCACTCCGCCTTCTAGTCAGAATCCTGCTACCAATATCCCACTCCAGTTCAGG  
 ATTAAGAGACAGAGTGTACTTCCACCCAGGAGAGACAGCCTAAAGACTGCGACTTCCTGGAGGATGGGG  
 AGGAGAGAAATTGCACAGGGAAATTCTTCAGAAGCGGCAGTCAACCTCCCTGACCTTGACCTGCGACAG  
 GGATTGCAGTCGAGAGGATACCAAGAAACCAGTTTTAATGATAAGCAAGACGTCTCTGAAAAGGAAAAG  
 TTCGAAGATGTCCCCCTCACATCAGGAACATTTATGAAGATGCCAAGTATGATATCATCGCAACATCC  
 TGAAAAATTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG214559 representing NM\_008694  
 Red=Cloning site Green=Tags(s)

MAGLWKTFLVVALAVVSCEALRQLRYEEIVDRAIEAYNQGRQGRPLFRLLSATPPSSQNPNATNIPLQFR  
 IKETECTSTQERQPKDCDFLEDGEERNCTGKFFRRRQSTSLTLTCDRDCSREDTQETSFNDKQDVSEKEK  
 FEDVPPHIRNIYEDAKYDIIGNILKNF

**TRTRPLE** - GFP Tag - V

Restriction Sites: SgfI-MluI



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## Cloning Scheme:



ACCN: NM\_008694

ORF Size: 501 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM\\_008694.2](#), [NP\\_032720.2](#)

RefSeq Size: 1176 bp

RefSeq ORF: 504 bp

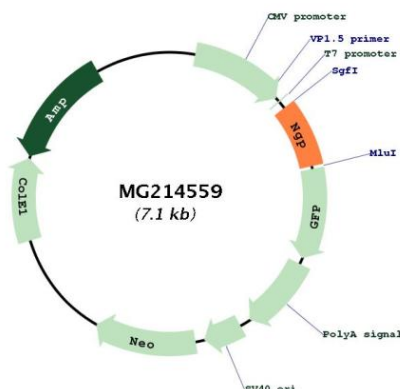
Locus ID: 18054

UniProt ID: [O08692](#)

Cytogenetics: 9 F2

Gene Summary: Acts as an inhibitor of cathepsin B (CTSB) activity. Plays a role as a negative regulator of tumor vascular development, cell invasion and metastasis.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG214559