

## Product datasheet for **MG204132**

### **A1118078 (BC068128) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	A1118078
Synonyms:	9630029F15; A1118078; HVRP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

**ORF Nucleotide Sequence:** >MG204132 representing BC068128  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGATGCTATTT**CAGCCACACCGT**GCTTT**CAGGTCTGACTGGCTGAAGCCGTGCTGTGGAA**GAGAGCAG  
CCG**TATGGCAGGTATTTTTGCTCAGTGCAAGTCTCAACAGTTTCCTGGTAGCCTGTGTAATATTGGTGGT**  
GATCCTCCTGACTCTGGAGCTTCTCATAGATACAAAGCTTCTCCAGTTTCCAATGCTTTCAGTTT**GCT**  
GGTGT**CATTCAGTGGATCAGTCTGGTCATTCTCTGTGTTCTTCTCAGAGACTGCTCCTACGGATCGTGG**  
TACTGGGGATCTGGGATTACATCGAAAACAAAATAGAGGTGTTGACGGGGCTGTGATCATCTGTCCCTT  
GGCCCCGATGGTGGCGTCCACTGTGGCTAACGGACCCAGGAGCCCTGGGATGCCATCAGCCTCATC**ATC**  
ATGTTCCGAATCTGGCGGTGAAGAGGGTCATTGATGCCTATGTCCTGCCAGTCAAGTTGGAGATGGAGA  
TG**GTCA**CCCAAGCAGTATGAGAAGCCAAAGCCATCCAAGATGAGCAGCTGGAAAGACTGACGCCAAATCTG  
TCAGGAGCAAGGGTTT**GAGATCCGGCAGCTGCGTGCGCACCTGGCACAGCAGGACCTGGATCTGGCAGCC**  
GAGCGGGAGGCGCGCTGCAGGCCCCACACGTGCTCAGCCAGCCACGCAGCCGCTACAAGGTCGTAGAGG  
CTGGCACGTGGGCCGAGGAGACAGCAGCCGAGAGCATCGTGGAAAGAGCTGAGGCCCTCTCAAGAAGCCAC  
AGTGAAGATGACATGAACAGCTACATCAGCCAATACTACAATGGGCCAGCAGTGGTAAGTCTGGGTTG  
GGACTGTTTGCATGCACATGCAGCCCCAGGACACTTGTGACCCCAAGCAAA**CCC**

**ACCGGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



**Protein Sequence:** >MG204132 representing BC068128  
Red=Cloning site Green=Tags(s)

MMLFQPHRAFSDWLKPCCKGRAAVWQVFLLSASLNSFLVACVILVVILLTLELLIDTKLLQFSNAFQFA  
 GVIHWISLVLSVFFSETVLRIVVLGIWDYIENKIEVFDGAVIILSLAPMVASTVANGPRSPWDAISLII  
 MFRIWRVKRVIDAYVLPVKLEMEMVTQQYEKAKAIQDEQLERLTQICQEQQFEIRQLRAHLAQQDLDLAA  
 EREAALQAPHVLSQPRSRKVVVEAGTWAEEATAESIVEELRPSQEATVKDDMNSYISQYYNGPSSGKSGL  
 GLFACTMQPQDTCDPSPK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** BC068128

**ORF Size:** 894 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:** [BC068128](#), [AAH68128](#)

**RefSeq Size:** 4432 bp

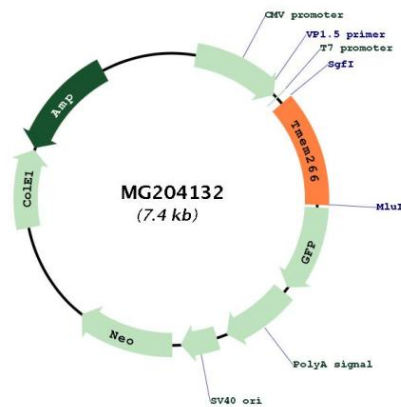
**RefSeq ORF:** 896 bp

**Locus ID:** 244886

**Cytogenetics:** 9 B

**Gene Summary:** Voltage-sensor protein present on the post-synaptic side of glutamatergic mossy fibers and granule cells in the cerebellum. Despite the presence of a voltage-sensor segment, does not form a functional ion channel and its precise role remains unclear. Undergoes both rapid and slow structural rearrangements in response to changes in voltage. Contains a zinc-binding site that can regulate the slow conformational transition.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG204132