

Product datasheet for **MG201893**

Rnf4 (NM_011278) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rnf4 (NM_011278) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Rnf4
Synonyms: AU018689; Gtrge; Gtrgeo8; SNURF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201893 representing NM_011278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGTACAAGAAATCCTCAAAGAAAGCGCGTGGTGGAACTGTGAATTCTAGACAAACCCAGAAGCGAA
 CTCGGGAAACAACCTTCGACCCCTGAGGTTTCTTGAAACAGAACCCATAGAACTGTGGAACTGTTGG
 AGATGAAATTGTGGACCTCACCTGTGAATCTTTAGAGCCCGTGGTTGTGGACCTGACTCACAAATGACTCT
 GTTGTGATTGTTGAAGAAAGGAGAAGGCCAAGGAGAAATGGGAGGAGTTGCGCCAAGACCATGCTGACA
 GCTGTGTGGTGTGAGCAGTGATGATGAGGAGCTGTCTAGGGACAAAGATGTGTACGTGACTACCCATACTCC
 TCGAAGCACCAAGGATGATGGAGCTACTGGACCCAGGCCCTCAGGTACCGTCAGTTGTCCTATCTGTATG
 GATGGATACTCTGAGATTGTGCAGAATGGGCGTCTCATTGTTTCTACAGAATGTGGCCACGTCTTCTGTA
 GCCAGTGCCCTCCGTGATCCCTTAAGAATGCTAACACTTGCCCAACTTGTAGGAAAAAGATCAACCATAA
 GCGGTACCACCCATTTATATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201893 representing NM_011278
 Red=Cloning site Green=Tags(s)

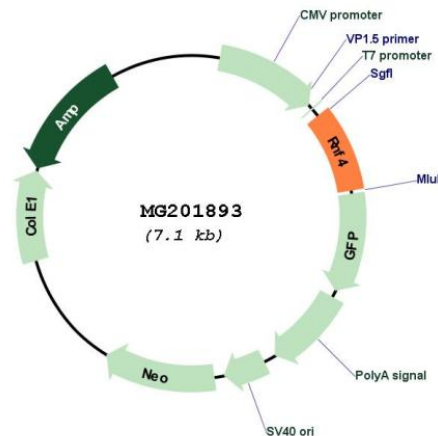
MSTRNPQRKRGGTVNSRQTQKRTRETTSTPEVSLETEPIELVETVGDEIVDLTCESLEPVVVDLTHNDS
 VVIVEERRRPRRNGRRLRQDHADSCVSSDDEELSRDKDVVYVTTHTPRSTKDDGATGPRPSGTVSCPICM
 DGYSEIVQNGRLIVSTECGHVFCQCLRDLSLKNANTCPTCRKKINHKRYHPIYI

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_011278

ORF Size: 582 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: [NM_011278.5](#)

RefSeq Size: 2936 bp

RefSeq ORF: 585 bp

Locus ID: 19822

UniProt ID: [Q9QZS2](#)

Cytogenetics: 5 B2

Gene Summary: This gene encodes a small nuclear RING finger protein that mediates ubiquitylation of polysumoylated proteins. Deficiency of the encoded protein in mice leads to embryonic lethality and global DNA hypermethylation. A similar protein in humans is required for arsenic-induced degradation of promyelocytic leukemia protein in acute promyelocytic leukemia. Alternative splicing of this gene results in multiple transcript variants. A pseudogene for this gene has been identified on chromosome 10. [provided by RefSeq, Jan 2015]