

Product datasheet for **MG218701**

Nsmaf (NM_010945) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nsmaf (NM_010945) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nsmaf
Synonyms:	AA959567; C630007J05; Fan
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MG218701 representing NM_010945
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTTACCCGGAAGAGGCAGCGCAGCAGCTGCAGCTCTACTCCAAGGAGAGGTTTTCTTAC
 TGCTTCTCAACTTGGAGGAGTACTACTTTGAGCAGCACACAGCGTTCCATGTCCAGCACCAGGGCAGCCA
 GGAAGAAAGGAAAATCAGAGGCTCCTTAAAGATATGTTCAAATCAGTGATTTTTGAACCAGATGAATA
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 AGACAAATATGTTCTGGAATTCAGTAT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG218701 representing NM_010945
 Red=Cloning site Green=Tags(s)

MAFTRKRQREQQLQLYSKERFSLLLLNLEEYFQHTAFHVQHQSQEERKIRGSLKICSKSVIFEPDAI
 SQPILKIPLRDCLKIGKHGENGANKHF AKAKSWGISLIFSQIYF IKEHNI VAPYKIERGKMEYVFELEVS
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 GHVCITDTSLYFQPLNGYPKPVVQITLQDVRRRIYKRRHGLMPLGLEVFCTDDDLCSDIYLFYEPQDRDD
 LYFYIATYLEHHAHEHTAESYMLQWRGHL SNYQYLLHLNADRSCNDLSQYPVFPWIIISDYSSPELDEL
 SNPATFRDL SKPVGALNAERLERLLTRYQEMPEPRFMYGSHYSSPGYVLFYLVRIAPEYMLCLQNGRFDN
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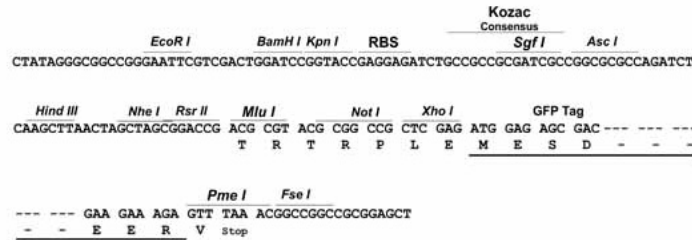
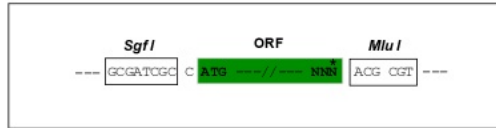
TRTRPLE - GFP Tag - V

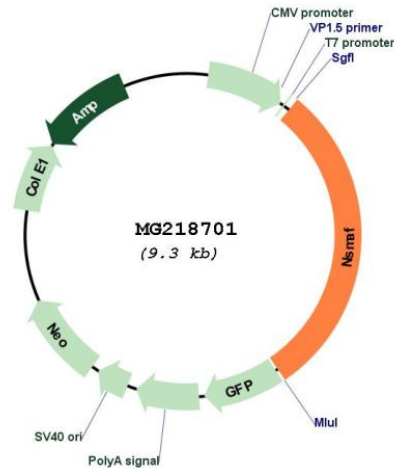
Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:


ACCN: NM_010945

ORF Size: 2760 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_010945.2](#), [NP_035075.2](#)

RefSeq Size: 3518 bp

RefSeq ORF: 2763 bp

Locus ID: 18201

UniProt ID: [O35242](#)

Cytogenetics: 4 A1

Gene Summary:

Couples the p55 TNF-receptor (TNF-R55 / TNFR1) to neutral sphingomyelinase (N-SMASE). Specifically binds to the N-smase activation domain of TNF-R55. May regulate ceramide production by N-SMASE.[UniProtKB/Swiss-Prot Function]