

## Product datasheet for **MG220933**

### Tnfsf9 (NM\_009404) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfsf9 (NM_009404) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnfsf9
Synonyms:	4-1BB-L; 4-1BBL; AI848817; Cd137l; Ly63l
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220933 representing NM_009404 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCAGCACACTTGATGTGGAGGATACCGGGATGCCAGACATCCAGCAGGTACTTCGTGCCCT  
CGGATGCGGGCTCCTCAGAGATACCGGGCTCCTCGGGACGCTGCGCTCCTCAGATACTGTGCGCC  
CACAAATGCCGCTCCCACGGATGCTGCCTACCCTGCGGTTAATGTTGGGATCGCGAGGCCGCTGG  
CCGCTGCACTGAACCTCTGTTCCGCCACCCAAAGCTCTATGGCTAGTCGCTTTGGTTTTGCTGCTT  
TGATCGCCGCTGTGTTCTATCTTACCCGCACCGAGCCTCGGCCAGCGCTCACAATCACCACCTCGCC  
CAACCTGGGTACCGAGAGAATAATGCAGACCAGGTCACCCTGTTTCCACATTGGCTGCCCAACT  
ACACAACAGGGCTCCTCTGTGTTGCGCAAGCTACTGGTAAAAACCAAGCATCGTTGTGCAATACA  
TGAAGTGGCACAGCAAGATGGAGCTGGGAGCTCATACCTATCTCAAGGCTGAGGTACGAAGAAGCAA  
AAAGGAGTTGGTGGTAGACAGTCCCGGGCTCTACTACGTATTTTGAAGTGAAGCTCAGTCCAACATTC  
ACAAACACAGGCCACAAGGTGCAGGGCTGGGTCTCTTGTGTTTGAAGCAAAGCCTCAGGTAGATGACT  
TTGACAACTTGGCCCTGACAGTGAAGTGTCCCTTGTCCATGGAGAACAAGTTAGTGGACCGTTCCTG  
GAGTCAACTGTTGCTCCTGAAGGCTGGCCACCGCCTCAGTGTGGGCTGAGGGCTTATCTGCATGGAGCC  
CAGGATGCATACAGAGACTGGGAGCTGTCTTATCCCAACACCACAGCTTGGACTCTTTCTGTGAAAC  
CGGACAACCCATGGGAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG220933 representing NM\_009404  
 Red=Cloning site Green=Tags(s)

```
MDQHTLDVEDTADARHPAGTSCPSDAALLRDTGLLADAALLSDTVRPTNAALPTDAAYPAVNVRDREAAW
PPALNFCSRHPKLYGLVALVLLLLIAACVPIFTRTEPRPALITITSPNLGTRENNADQVTPVSHIGCPNT
TQQGSPVFAKLLAKNQASL CNTTLNWHSQDGAGSSYLSQGLRYEEDKKELVVDSPGLYYVFLELKLSPTF
TNTGHKVQGWVSLVLQAKPQVDDFDNLALTVELFPCSMENKLVDRSWSQLLLLLKAGHRLSVGLRAYLHGA
QDAYRDWELSYPNNTTSFGLFLVKPDNPWE
```

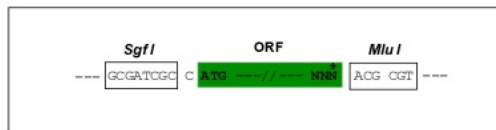
TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2449\\_e02.zip](https://cdn.origene.com/chromatograms/ja2449_e02.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_009404

**ORF Size:** 927 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\\_009404.3](#), [NP\\_033430.1](#)

**RefSeq Size:** 1230 bp

**RefSeq ORF:** 930 bp

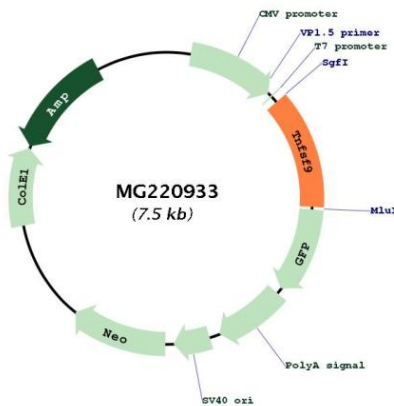
**Locus ID:** 21950

**UniProt ID:** [P41274](#)

**Cytogenetics:** 17 D

**Gene Summary:** Cytokine that binds to TNFRSF9. Induces the proliferation of activated peripheral blood T-cells. May have a role in activation-induced cell death (AICD). May play a role in cognate interactions between T-cells and B-cells/macrophages.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG220933