

Product datasheet for **MG226941**

Tnfsf14 (NM_019418) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfsf14 (NM_019418) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnfsf14
Synonyms:	HVEM-L; HVEML; LIGHT; LTg; Ly113; Tnlg1d
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226941 representing NM_019418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGTGTGGTACAGCCTTCAGTGTTTGTGGTGGATGGACAGACGGACATCCCATTACGGCGGCTGG
AACAGAACCACCGGAGACGGCGCTGTGGCACTGTCCAGGTCAGCCTGGCCCTGGTGTCTGTCTAGGTGC
TGGGCTGGCCACTCAGGGCTGGTTTCTCCTGAGACTGCATCAACGCTTTGGAGACATAGTAGCTCATCTG
CCAGATGGAGGCAAAGGCTCCTGGGAGAAGCTGATACAAGATCAACGATCTCACCAGGCCAACCCAGCAG
CACATCTTACAGGAGCCAACGCCAGCTTGATAGGTATTGGTGGACCTCTGTTATGGGAGACAGACTTGG
CCTGGCCTTCTTGAGGGCTTGACGTATCATGATGGGGCCCTGGTGACCATGGAGCCCGGTTACTACTAT
GTGTACTCCAAAGTGCAGCTGAGCGGCTGGGGCTGCCCCAGGGGCTGGCCAATGGCCTCCCCATCACCC
ATGGACTATAAAGCGCACATCCCGCTACCCGAAGGAGTTAGAACTGCTGGTCAGTCGGCGGTACCCCTG
TGGCCGGGCCAACAGCTCCCGAGTCTGGTGGGACAGCAGCTTCTGGGCGGCTGGTACATCTGGAGGCT
GGGAAGAGGTGGTGGTCCCGTGCCTGGAAACCGCTGGTCAGACCACGTGACGGCACCAGGTCCTATT
TCGGAGCTTTCATGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG226941 representing NM_019418
Red=Cloning site Green=Tags(s)

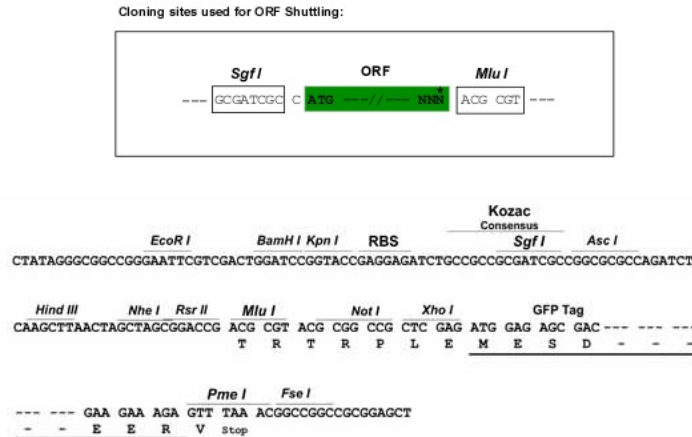
MESVVQPSVVFVVDGQTDIPFRRLEQNHRRRRCGTVQVSLALVLLLGAGLATQGWFLRLHQRLGDIVAHL
 PDGGKGSWEKLIQDQRSHQANPAAHLTGANASLIGIGGPLLWETRLGLAFLRGLTYHDGALVTMEPGYYY
 VYSKVQLSGVGCPQGLANGLPITHGLYKRTSRYPKELELLVSRSPCGRANSSRVWWDSSFLGGVVHLEA
 GEEVVVRVPGNRLVPRPDGTRSYPGAFMV

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2094_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019418

ORF Size: 717 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_019418.3](#), [NP_062291.1](#)

RefSeq Size: 1862 bp

RefSeq ORF: 720 bp

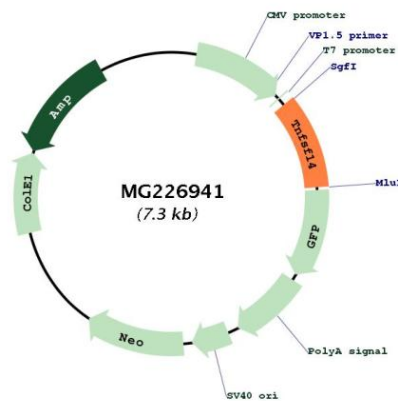
Locus ID: 50930

UniProt ID: [Q9QYH9](#)

Cytogenetics: 17 D

Gene Summary: Cytokine that binds to TNFRSF3/LTBR. Binding to the decoy receptor TNFRSF6B modulates its effects. Activates NFkB and stimulates the proliferation of T-cells. Acts as a ligand for TNFRSF14/HVEM. Upon binding to TNFRSF14/HVEM, delivers costimulatory signals to T cells, leading to T cell proliferation and IFNG production (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226941