

Product datasheet for **MG218564**

Slamf7 (NM_144539) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Slamf7 (NM_144539) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Slamf7
Synonyms: 19A; 19A24; 4930560D03Rik; CRACC; CS1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG218564 representing NM_144539
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCGTTTCTCAACGTACATCATCTTTACCTCTGTCCTCTGTCAGCTAACAGTCACAGCAGCTTCTG
GAACTCTGAAGAAGGTGGCCGGTGCCCTTGATGGATCTGTGACATTCACCTCTGAATATCACTGAAATAAA
GGTTGACTATGTTGTATGGACGTTCAACACATTCTTTCTGCCATGGTAAAAAAGACGGCGTTACATCA
CAAAGTAGTAACAAAGAAAGGATAGTCTTCCAGATGGACTCTACTCCATGAAGCTCAGCCAATTGAAGA
AGAATGACTCTGGAGCCTACCGTGCAGAGATTTACAGTACATCGAGTCAGGCTTCTTAATCCAGGAGTA
TGTGCTGCATGTCTACAAGCATTGTCAAGGCCAAGGTACCATAGATCGGCAAAGCAACAAGAATGGC
ACCTGCCTAATCAATCTGACATGTTCCACGGATCAGGACGGGGAGAATGTAACCTACAGCTGGAAAAGCTG
TGGGGCAGGGGACAATCAGTTTCATGATGGTGCCACCCTCTCCATCGCCTGGAGATCAGGAGAGAAAGA
CCAGGCCTTAACATGCATGGCCAGGAATCCAGTCAGCAACAGTTTCTCAACCCCGCTTTTCCCCAGAAG
CTCTGTGAAGATGCTGCCACGGATCTAACTTCACTCAGGGGCATCCTATACATCCTGTGCTTCTCAGCAG
TGCTCATCCTATTTGCTGTCTTGCTGACTATTTTTCATACTATGTGGATAAAGAAAGGAAAAGGATGTGA
GGAAGACAAGAAGAGAGTGGACAGGCACCAGGAAATGCCGACTTGTGCCCTCACTTAGAGGAGAACGCA
GACTATGACACAATCCCTTACACGGAAAAAGAAGACCAGAAGAAGATGCACCAAAACACATTTTATTCCA
CTGTGCAGATCCCCAAAGTGTTAAAGAGTCCAGCTCCCTGCCTGCAAAGCCACTCGTGCCAAGGTCATT
AAGCTTTGAAAATGTTATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218564 representing NM_144539
 Red=Cloning site Green=Tags(s)

MARFSTYIIFTSVLCQLTVTAASGTLKKVAGALDGSVTFNLNITEIKVDYVVWTFNTFFLAMVKKDGVTS
 QSSNKERIVFPDGLYSMKLSQLKKNDSGAYRAE IYSTSSQASLIQEYVLHVKHL SRPKVITDRQSNKNG
 TCVINLTCSTDQDGENVTYSWKA VGGDNQFHDGATLSIAWRSGEKDQALTCMARNPVSNFSFSTPVFPQK
 LCEDAATDLTSLRGILYLILCFSAVLILFAVLLTIFHTMWIKKGGKCEEDKKRVDRHQEMPDLCPHLEENA
 DYDTIPYTEKRRPEEDAPNTFYSTVQIPKVVKSPSSLPAPKPLVPRSLSFENVI

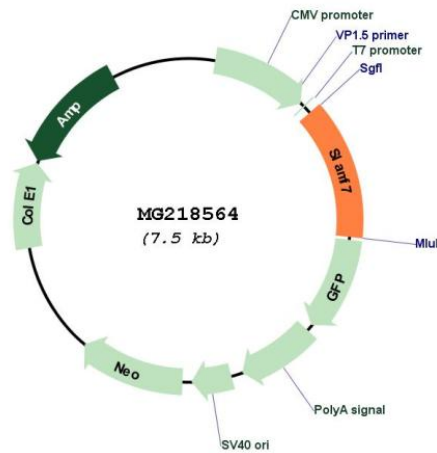
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_144539

ORF Size: 999 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_144539.5](#), [NP_653122.2](#)

RefSeq Size: 3977 bp

RefSeq ORF: 1002 bp

Locus ID: 75345

UniProt ID: [Q8BHK6](#)

Cytogenetics: 1 H3

Gene Summary:

Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2 (PubMed:19648922). Mediates natural killer (NK) cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway (By similarity). Positively regulates NK cell functions by a mechanism dependent on the adapter SH2D1B. In addition to heterotypic NK cells-target cells interactions also homotypic interactions between NK cells may contribute to activation. However, in the absence of SH2D1B, inhibits NK cell function. Acts also inhibitory in T-cells (PubMed:19151721). May play a role in lymphocyte adhesion (By similarity). In LPS-activated monocytes negatively regulates production of proinflammatory cytokines (By similarity).[UniProtKB/Swiss-Prot Function]