

## Product datasheet for **MG204058**

### Slamf7 (BC011154) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slamf7 (BC011154) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slamf7
Synonyms:	19A, CS1, 19A24, CRACC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204058 representing BC011154 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTCGTTTCTCAACGTACATCATCTTTACCTCTGTCCTCTGTCAGCTAACAGTCACAGCAGCTTCTG  
GAACTCTGAAGAAGGTGGCCGGTGCCCTTGATGGATCTGTGACATTCACCTCTGAATATCACTGAAATAAA  
GGTTGACTATGTTGTATGGACGTTCAACACATTCTTTCTGCCATGGTAAAAAAGACGGCGTTACATCA  
CAAAGTAGTAACAAAGAAAGGATAGTCTTTCCAGATGGACTCTACTCCATGAAGCTCAGCCAATTGAAGA  
AGAATGACTCTGGAGCCTACCGTGCAGAGATTTACAGTACATCGAGTCAGGCTTCCTTAATCCAGGAGTA  
TGTGCTGCATGTCTACAAGCATTGTCAAGGCCAAGGTACCATAGATCGGCAAAGCAACAAGAATGGC  
ACCTGCCTAATCAATCTGACATGTTCCACGGATCAGGACGGGGAGAATGTAACCTACAGCTGGAAAAGCTG  
TGGGGCAGGGGACAATCAGTTTCATGATGGTGCCACCCTCTCCATCGCCTGGAGATCAGGAGAGAAAGA  
CCAGGCCTTAACATGCATGGCCAGGAATCCAGTCAGCAACAGTTTCTCAACCCCGTCTTTCCCAAGAG  
CTCTGTGAAGATGCTGCCACGGATCTAAGTCACTCAGGGGCATCCTATACATCCTGTGCTTCTCAGCAG  
TGCTCATCCTATTTGCTGTCTTGCTGACTATTTTTCATACTACGTGGATAAAGAAAAGAAAAGAAAAGAA  
GACCAGAAGAAGATGCACCAAACACATTTTATCCACTGTGCAGATCCCCAAAGTGGTAAAGAGTCCCAG  
CTCCCTGCCTGCAAAGCCACTCGTGCCAAGGTCATTAAGCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204058 representing BC011154  
 Red=Cloning site Green=Tags(s)

MARFSTYIIFTSVLCQLTVTAASGTLKKVAGALDGSVTFNLNITEIKVDYVVWTFNTFFLAMVKKDGVTS  
 QSSNKERIVFPDGLYSMKLSQLKKNDSGAYRAE IYSTSSQASLIQEYVLHVKYKHL SRPKVTIDRQSNKNG  
 TCVINLTCSTDQDGENVTYSWKAVGGQDNQFHDGATLSIAWRSGEKDQALTCMARNPVSNSFSTPVFPQK  
 LCEDAATDLTSLRGILYLICFSAVLILFAVLLTIFHTTWIKKRKEKTRRRRCKTHILFHCADPQSGKESQ  
 LPACKATRAKVIKL

TRTRPLE - GFP Tag - V

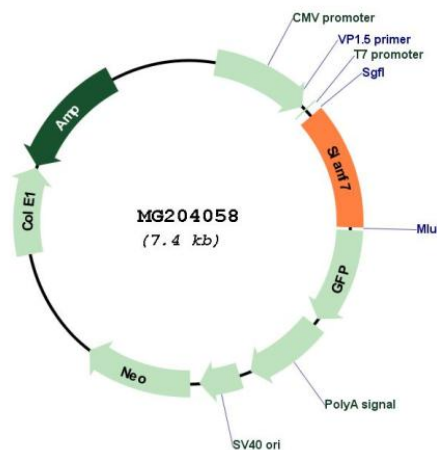
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** BC011154

**ORF Size:** 884 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">BC011154</a> , <a href="#">AAH11154</a>
<b>RefSeq Size:</b>	1373 bp
<b>RefSeq ORF:</b>	884 bp
<b>Locus ID:</b>	75345
<b>Cytogenetics:</b>	1 H3
<b>Gene Summary:</b>	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]