

Product datasheet for **RG236863**

SLAMF7 (NM_001282594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLAMF7 (NM_001282594) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLAMF7
Synonyms:	19A; CD319; CRACC; CS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG236863 representing NM_001282594. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGGTCCCAACATGCCTCACCCCTCATCTATATCCTTTGGCAGCTCACAGAGCACCTGTCAAAG
CCTAAAGTCACCATGGGTCTGCAGAGCAATAAGAATGGCACCTGTGTACCAATCTGACATGCTGCATG
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GGGTCCATCTCCCATCTCCTGGAGATGGGGAGAAAGTGATATGACCTCATCTGCGTTGCCAGGAAC
CCTGTCAGCAGAACTTCTCAAGCCCCATCCTTGCCAGGAAGCTCTGTGAAGGTGACTGCCTCTCCCT
CTCCACAGGAGACTCTGCCAGGTGCTGCTGATGACCCAGATTCTCCATGGTCCCTCTGTCTCCTG
TTGGTGCCCTCCTGCTCAGTCTTTGTACTGGGCTATTTCTTTGGTTTCTGAAGAGAGAGAGACAA
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GGAGAGAACACAGAGTACGACACAATCCCTCACACTAATAGAACAATCCTAAAGGAAGATCCAGCAAAT
ACGGTTTACTCCACTGTGGAAATACCGAAAAAGATGGAAAATCCCCACTCACTGCTCACGATGCCAGAC
ACACCAAGGCTATTTGCCTATGAGAATGTTATC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236863
 Blue=ORF Red=Cloning site Green=Tag(s)

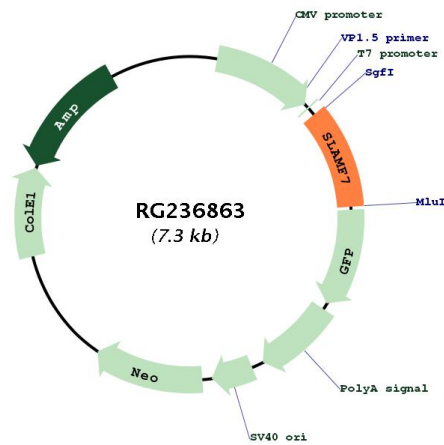
MAGSPTCLTIYILWQLTEHLSKPKVTMGLQSNKNGTCVNLCCMEHGEEDVIYTKWALGQAANESHN
 GSILPISWRWGESDMTFICVARNPVSRNFSSPILARKLCEGDCLSPLHRRLCPGAADDPDSSMVLCLL
 LVPLLLSLFVLGLFLWFLKRERQEEYIEEKRVDCRETPNICPHSGENTEYDTIPHTNRILKEDPAN
 TVYSTVEIPKKMENPHSLLTMPDTPRLFAYENVI
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282594

ORF Size:	723 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).
RefSeq:	NM_001282594.1 , NP_001269523.1
RefSeq Size:	2626 bp
RefSeq ORF:	726 bp
Locus ID:	57823
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Transmembrane
MW:	27.7 kDa
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. Isoform 1 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway (PubMed:11698418). Positively regulates NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream signaling implicates PLCG1, PLCG2 and PI3K (PubMed:16339536). 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 (By similarity). May play a role in lymphocyte adhesion (PubMed:11802771). In LPS-activated monocytes negatively regulates production of proinflammatory cytokines (PubMed:23695528).[UniProtKB/Swiss-Prot Function]