

Product datasheet for **RG236207**

SLAMF7 (NM_001282588) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLAMF7 (NM_001282588) 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: >RG236207 representing NM_001282588.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGGTTCCCCAACATGCCTCACCCCTCATCTATATCCTTTGGCAGCTCACAGGGTCAGCAGCCTCT
GGACCCGTGAAAGAGCTGGTCCGTTCCGTTGGTGGGGCCGTGACTTTCCCCCGTAAGTCCAAAGTAAAG
CAAGTTGACTCTATTGTCTGGACCTTCAACACAACCCCTCTTGTCAACATACAGCCAGAAGGGGCACT
ATCATAGTGACCCAAAATCGTAATAGGGAGAGAGTAGACTTCCCAGATGGAGGCTACTCCCTGAAGCTC
AGCAAACTGAAGAAGAATGACTCAGGGATCTACTATGTGGGATATACAGCTCATCACTCCAGCAGCCC
TCCACCCAGGAGTACGTGCTGCATGTCTACGAGAACAAATCCTAAAGGAAGATCCAGCAAATACGGTTTA
CTCCACTGTGAAATACCGAAAAGATGAAAAATCCCCACTCACTGCTCAGGATGCCAGACACCAAG
GCTATTTGCCTA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236207
Blue=ORF Red=Cloning site Green=Tag(s)

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MAGSPTCLTIYILWQLTGSAAAGPVKELVGSVGGAVTFPLKSKVKQVDSIVWTFNTTPLVTIQPEGGT
IIVTQNRNRERVDFFDGGYSLKLSLKKNDSGIYYVGIYSSSLQQPSTQEYVVLHVVYENPKGRSSKYGL
LHCGNTEKDGKSPLTAHDARHTKAICL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKYMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: Sgfl-MluI



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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_001282588.1 , NP_001269517.1
RefSeq Size:	2411 bp
RefSeq ORF:	498 bp
Locus ID:	57823
UniProt ID:	Q9NQ25
Cytogenetics:	1q23.3
Protein Families:	Druggable Genome, Transmembrane
MW:	18.4 kDa
Gene Summary:	<p>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]</p>