

Product datasheet for SC113001

SLAMF7 (NM_021181) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLAMF7 (NM_021181) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLAMF7
Synonyms:	19A; CD319; CRACC; CS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC113001 sequence for NM_021181 edited (data generated by NextGen Sequencing)

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ATGGCTGGTTCCCCAACATGCCTCACCCCTCATCTATATCCTTTGGCAGCTCACAGGGTCA
GCAGCCTCTGGACCCGTGAAAGAGCTGGTTCGGTTCCGTTGGTGGGCGCGTACTTTCCCC
CTGAAGTCCAAAGTAAAGCAAGTTGACTCTATTGTCTGGACCTTCAACACAACCCCTCTT
GTCACCATACAGCCAGAAGGGGCACTATCATAGTGACCCAAAATCGTAATAGGGAGAGA
GTAGACTTCCCAGATGGAGGCTACTCCCTGAAGCTCAGCAAAGTGAAGAAGAATGACTCA
GGGATCTACTATGTGGGGATATACAGCTCATCACTCCAGCAGCCCTCCACCCAGGAGTAC
GTGCTGCATGTCTACGAGCACCTGTCAAAGCCTAAAGTCACCATGGGTCTGCAGAGCAAT
AAGAATGGCACCTGTGTGACCAATCTGACATGCTGCATGGAACATGGGGAAGAGGATGTG
ATTTATACCTGGAAGGCCCTGGGGCAAGCAGCCAATGAGTCCCATAATGGGTCCATCCTC
CCCATCTCCTGGAGATGGGGAGAAAAGTGATATGACCTTCATCTGCGTTGCCAGGAACCC
GTCAGCAGAACTTCTCAAGCCCCATCCTTGCCAGGAAGCTCTGTGAAGGTGCTGCTGAT
GACCCAGATTCTCCATGGTCTCCTGTGTCTCCTGTTGGTGCCCTCCTGCTCAGTCTC
TTTGTACTGGGGCTATTTCTTTGGTTTCTGAAGAGAGAGAGACAAGAAGAGTACATTGAA
GAGAAGAAGAGAGTGGACATTTGTGGGAACTCCTAACATATGCCCCATTCTGGAGAG
AACACAGAGTACGACACAATCCCTCACACTAATAGAACAATCCTAAAGGAAGATCCAGCA
AATACGGTTTACTCCACTGTGAAATACCGAAAAAGATGGAAAAATCCCCACTCACTGCTC
ACGATGCCAGACACACCAAGGCTATTTGCCTATGAGAATGTTATCTAG

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Clone variation with respect to NM_021181.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_021181 unedited
 NCCGTTACATTTTGTAAATACGAACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGNAN
 AAAGCAATATGGCTGGTCCCAACATGCCTCACCCCTCATCTATATCCTTTGGCAGCTCA
 CAGGGTCAGCAGCCTCTGGACCCGTGAAAGAGCTGGTCCGTTCCGTTGGTGGGGCCGTGA
 CTTTCCCCTGAAGTCAAAGTAAAGCAAGTTGACTCTATTGTCTGGACCTTCAACACAA
 CCCCTCTGTACCATACAGCCAGAAGGGGGCACTATCATAGTGACCCAAAATCGTAATA
 GGGAGAGAGTAGACTTCCAGATGGAGGCTACTCCCTGAAGCTCAGCAAACCTGAAGAAGA
 ATGACTCAGGGATCTACTATGTGGGATATACAGCTCATCACTCCAGCAGCCCTCCACCC
 AGGAGTACGTGCTGCATGTCTACGAGCACCTGTCAAAGCCTAAAGTCACCATGGGTCTGC
 AGAGCAATAAGAATGGCACCTGTGTGACCAATCTGACATGCTGCATGGAACATGGGGAAG
 AGGATGTGATTTATACCTGGAAGCCCTGGGGCAAGCAGCCAATGAGTCCCATAATGGGT
 CCATCCTCCCCATCTCCTGGAGATGGGGAGAAAGTGATATGACCTTCATCTGCGTTGCCA
 GGAACCTGTGAGCAGAACTTCTCAAGCCCCATCCTTGCCAGGAAGCTCTGTGAAGGTG
 CTGCTGATGACCCAGATTCTCCATGGTCTCCTGTCTCCTGTTGGTCCCCTCCTGC
 TCAGTCTCTTTGACTGGGGCTATTTCTTTGGTTTCTGAAGAGAGAGACAAGAAGAGT
 ACATTGNAGAGAAGAAGAGAGTGGACATTTGTCGGNAACTNNCTACATATGCCCCATT
 CTGAGAGAACACAGATACGACACAATCCCTCAAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_021181 unedited
 GGCACGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTATGGGAATCTACAATA
 TCTGTTTTATTAAGATAGTAAAGAAGACTTTTTACTACAATAGGGTTTTGCAGTAGGGA
 GAGAGATCTGGCTCAATTCCTTACAATGCCTTCTGAGAGAAGATAATCCTCAATCCCA
 TTCTTGCCCAACAAGCATTGTTATTAAGTTTTCAACACTTTCATCACTGGTAGGGAG
 GTCTCCATTCAAGATATGTGTCAGGGAACATATCAAAGCAGCCATTCCTTTCCCTT
 CCCCATGTTTTCACTTAAGTATAAGAGATGGTGAAGCTCTGTGTTGGTAGGGATGTTT
 CTTACGTGCCAGACTGACCTANACAGGTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG
 TCTCGTTGCCTAAGCCGGAGTGCAGTGGTGCCATCTCAGCTCACTGCAACCTCCACCTCC
 CAGGTTCAAGCGATTCTCATGCCTTGGCCTCTCGAGTAGCTGGGATTACAGGTGCACACC
 ACCACGCTCAGCAAATTTTTGTATCTTTAGTAGAGATGGGGTTTACCATGTTGGCCAGG
 CTGGTCTTGAACCTCTGACCTCAGATGACCCACCCACCTTGGCCTCCCAAAGTGTGGGA
 TTACAAGTGTGAGCCACCATGCCCGGGCCGCATAGGTTCTTAATAAATATCTATTGAATG
 AATCAACCATCTTTAAAGGTTACAAGTACCCACTGCCCCCGTGCCCAACCAAGTCTACTG
 CCTGACTTCAGTCTCCTACACTAAATTCGAAGTACCTCAAGATGCGTCTTTTATTGGGA
 TGGGTTCTGGCAAGNCTAAAATAAACTTTTTTGCAGCCAATGCTAATGAACCTGCCT
 GGAGGCTTGGCTTGGCCAGCCACTTTGGGTCTTTTATTGATTGCGCAATGCAGTCCCGGT
 TTTATTTGGAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_021181

Insert Size:

2700 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](#)

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_021181.3](#), [NP_067004.3](#)

RefSeq Size: 2672 bp

RefSeq ORF: 1008 bp

Locus ID: 57823

UniProt ID: [Q9NQ25](#)

Cytogenetics: 1q23.3

Protein Families: Druggable Genome, Transmembrane

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a, also known as CS1-L). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.