

## Product datasheet for **KN220985RB**

### SLAMF7 Human Gene Knockout Kit (CRISPR)

#### Product data:

**Product Type:** Knockout Kits (CRISPR)

**Format:** 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control

**Donor DNA:** RFP-BSD

**Symbol:** SLAMF7

**Locus ID:** 57823

**Components:** **KN220985G1**, SLAMF7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)  
**KN220985G2**, SLAMF7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)  
**KN220985RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.  
**GE100003**, scramble sequence in pCas-Guide vector

**Disclaimer:** These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

**RefSeq:** [NM\\_001282588](#), [NM\\_001282589](#), [NM\\_001282590](#), [NM\\_001282591](#), [NM\\_001282592](#),  
[NM\\_001282593](#), [NM\\_001282594](#), [NM\\_001282595](#), [NM\\_001282596](#), [NM\\_021181](#)

**UniProt ID:** [Q9NQ25](#)

**Synonyms:** 19A; CD319; CRACC; CS1



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**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]

**Product images:**
