

Product datasheet for **MC228243**

Ly9 (NM_001277968) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ly9 (NM_001277968) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ly9
Synonyms:	AI893573; CD229; Lgp100; Ly-9; SLAMF3; T100
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC228243 representing NM_001277968
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGATCTAAGAGATATTGGTGTGACTGGGCTCTAGGTCCACTCTCTGAAAATCCAAGAATGAGTC
 AGCAGCAGATATTTTCTCCATTCTTTGGATTCTCTCCTTCTCTACTCATGGAGAAGCTCCAGAAGCC
 TCAGATCATCGTGAATCTGTGACCCCATCCGATACTGATTCTGCACCTTCACCCTAATCTGCACTGTA
 AAGGGGACAAAGGACAGTGTCCAGTACAGCTGGACCCGAGAGGACACCCATTTAAATACATACGATGGAA
 GCCACACCCTCAGGGTTTCCAGAGTGTCTGTGACCCCGACCTACCCTATACCTGCAAAGCTGGAATCC
 AGTCAGCCAAAACAGCTCCCAACTGTCCGCATCTGGCAATTCTGCACAGGAGCCTCCAGAAGAAAAACA
 GCAGCGGGAAGACTGTGGTAGGAATCTGGGAGAGCCAGTGACCCTGCCCTTGGAAATTCGGGCCACTC
 GGGCCACAAAAGAAATGTTGTCTGGGTGTTAACACGTGGTTATCAGCCAAGAACGGAGAGGAGCAGCAAC
 AGCGGATTCTCGCCGTAAGCCCAAAGGTTCTGAAGAACGGAGGGTGAGGACCTCTGACCAGACCAATCC
 CTGAAGATCAGCCAGCTGAAGATGGAGGACGCGGGCCCTACCATGCCTATGTGTGCTCAGAGGCCCTCC
 GAGACCCAGTGTGAGACATTTACCTTGTCTACAAGAGACTGGAGAAGCCAGTGTACCAAGAG
 TCCTGTGCACATGATGAACGGAATCTGCGAGGTTGTCTGACCTGTTTCACTGGACGGTGGTGGAAACAAT
 GTGACATACACATGGATGCCTCTACAAAACAAAGCTGTATGTCCCAAGGGAAGTCGCACCTCAACGTCT
 CCTGGGAAAGTGGTGAACACCTGCCCAACTTACATGCACAGCCATAACCCTGTGCAACAGCTCCAG
 CCAGTTTTCTTCTGGGACCATCTGTTTCAAGCCCTGAGAGAAACAAGAGGTTTTGGCTCTGCTCCTCCTG
 GTTTTGTCTTGTGATGCTCATTGGCGTTACTTCATTTTGGGAAAAAGAAGCAGTGTTCGTCTTTGG
 CCACAGGTACAGACAAGCGGAGGTCCAGCTGAAATACCAGAAACCCCAACTGGCCATGGACAATTTTC
 TGTGCTCTCCCAACGGTATGAGAAACTAGACATGTCTGCTAAGACCACCCAGGCATCAGCCTACACCACC
 TCAGATACCAGCTCTGAGAGCAGCGCAACAACAGAAGAGGATGACGAAAAGACCAGAATGCACAGCACTG
 CTAATAGTAGAAATCAGGTGTATGACTTGGTCACCCATCAGGACATTGCACATGCCTTGGCCTATGAGGG
 GCAAGTAGAATATGAAGCAATCACTCCATATGATAAAGTGGATGGGTCTATGGATGAAGAGGACATGGCA
 TATATAAAGTGTCCCTGAATGTGCAGGGAGAGACCCCACTTCTCAGAAGAAAGAAGACTCAAATACAA
 TCTACTGCTCTGTGCAGAAGCCTAAAAAGACGGCACAAACACCACAGCAAGATGCTGAGTCTCCTGAAAC
 CCCTACCTATGAAAATTTACCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001277968
- Insert Size:** 1635 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001277968.1](#), [NP_001264897.1](#)

RefSeq Size: 2169 bp

RefSeq ORF: 1635 bp

Locus ID: 17085

UniProt ID: [Q01965](#)

Cytogenetics: 1 79.54 cM

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 (PubMed:19648922). May participate in adhesion reactions between T lymphocytes and accessory cells by homophilic interaction. Promotes T-cell differentiation into a helper T-cell Th17 phenotype leading to increased IL-17 secretion; the costimulatory activity requires SH2D1A. Promotes recruitment of RORC to the IL-17 promoter (By similarity). May be involved in the maintenance of peripheral cell tolerance by serving as a negative regulator of the immune response. May disable autoantibody responses and inhibit IFN-gamma secretion by CD4(+) T-cells (PubMed:23914190). May negatively regulate the size of thymic innate CD8(+) T-cells and the development of invariant natural killer T (iNKT) cells (PubMed:23225888). Can promote natural killer (NK) cell activation (PubMed:19648922). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.