

Product datasheet for **MC220159**

Ly9 (NM_008534) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ly9 (NM_008534) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ly9
Synonyms:	AI893573; CD229; Lgp100; Ly-9; SLAMF3; T100
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC220159 representing NM_008534
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGATCTAAAGAGATATTGGTGTGACTGGGCTCTAGTCCACTCTCTGAAAATCCAAGAATGAGTC
 AGCAGCAGATATTTTCTCCATTCTTTGGATTCCCTCTCCTCTTCTACTCATGGGCTCGGAGCCTCTGG
 AAAGGAAACACCTCCAACAGTGATATCAGGGATGCTAGGGGTTCTGTGACTTTCTCCCTAAACATCTCA
 AAGGATGCAGAGATTGAGCATATCATCTGGAATTGTCCCCAAAGGCTCTTGCTTTAGTATTCTACAAAA
 AAGATATAACTATTCTGGACAAAGGATATAATGGCAGACTCAAAGTCAGCGAAGATGGCTACTCCTTGTA
 CATGAGCAACCTAACAAAAGTGATTACAGGATCTACCATGCTCAGATAAACAAAAGAATGTTATCCTC
 ACCACAAATAAAGAGTTCACACTGCACATCTATGAGAAGCTCCAGAAGCCTCAGATCATCGTGAATCTG
 TGACCCCATCCGATACTGATTCTGCACCTTACCCTAATCTGCACTGTAAGGGGACAAAGGACAGTGT
 CCAGTACAGCTGGACCCGAGAGGACACCCATTTAAATACATACGATGGAAGCCACACCCTCAGGGTTTCC
 CAGAGTGTCTGTGACCCGACCTACCCTATACCTGCAAAGCCTGGAATCCAGTCAGCCAAAACAGCTCCC
 AACCTGTCCGCATCTGGCAATTCTGCACAGGAGCTCCAGAAGAAAAACAGCAGCGGGGAAGACTGTGGT
 AGGAATCTGGGAGAGCCAGTGACCCTGCCCTTGGAAATTCGGGCCACTCGGGCCACAAAGAATGTTGTC
 TGGGTGTTAACACGTCGGTTATCAGCCAAGAACGGAGAGGAGCAGCAACAGCGGATTCTCGCCGTAAGC
 CCAAAGTTCTGAAGAACGGAGGGTGAGGACCTTGACCAGGACCAATCCCTGAAGATCAGCCAGCTGAA
 GATGGAGGACGGGGCCCTACCATGCCTATGTGTGCTCAGAGGCTCCCGAGACCCAGTGTGAGACAT
 TTCACCTTGCTTGTCTACAAGAGACTGGAGAAGCCAGTGTACCAAGAGTCTGTGCACATGATGAACG
 GAATCTGCGAGGTTGCTCTGACCTGTTCCAGTGGACGGTGGTGAACAATGTGACATACACATGGATGCC
 TCTACAAAACAAAGCTGTATGTCCCAAGGGAAGTCGCACCTCAACGTCTCCTGGGAAAGTGGTGAACAC
 CTGCCAACTTCACATGCACAGCCATAACCCTGTGAGCAACAGCTCCAGCCAGTTTTCTCTGGGACCA
 TCTGTTACAGGCCCTGAGAGAAAACAGAGTTTTGGCTCCTGCTCCTCGGTTTTGCTCTTGTTGATGCT
 CATTGGCGGTTACTTCAATTTGAGGAAAAAGAGCAGTGTTCGCTTTGGCCACCAGGTACAGACAAGCG
 GAGGTCCAGCTGAAATACCAGAAACCCCACTGGCCATGGACAATTTCTGTGCTCTCCAACGGTATG
 AGAACTAGACATGTCTGCTAAGACCACAGGCATCAGCTACACCCACCTCAGATACCAGCTCTGAGAG
 CAGCGCAACAACAGAAGAGGATGACGAAAAGACCAGAATGCACAGCACTGCTAATAGTAGAAATCAGGTG
 TATGACTTGGTCAACCCATCAGGACATTGCACATGCCTTGGCCTATGAGGGCAAGTAGAATATGAAGCAA
 TCACTCCATATGATAAAGTGGATGGTCTATGGATGAAGAGGACATGGCATATATACAAGTGTCCCTGAA
 TGTGCAGGGAGAGACCCACTTCTCAGAGAAAAGAGACTCAAATACAATCTACTGCTCTGTGCAGAAG
 CCTAAAAGAGCGGCACAAACACCACAGCAAGATGCTGAGTCTCCTGAAACCCCTACCTATGAAAATTTCA
 CCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_008534
- Insert Size:** 1965 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).
- 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_008534.3](#), [NP_032560.2](#)

RefSeq Size: 2499 bp

RefSeq ORF: 1965 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 (1) represents the longest transcript and encodes the longer isoform (1).