

## Product datasheet for **RC234448**

### CD229 (LY9) (NM\_001261457) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD229 (LY9) (NM_001261457) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD229
Synonyms:	CD229; hly9; mLY9; SLAMF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234448 representing NM\_001261457  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGCACAAAGAGTCACACAGATGACTGGGCTCCTGGGCTTTCTCCAGTAAGCCACAGAGGAGTC  
 AGCTGCAAATATTCTTCTGTTCTACAGACCTCTCTCCTTCTCCTGCTCATGGGACTAAGAGCCTCTGG  
 AAAGGACTCAGCCCCAACAGTGGTGTACAGGATCCTAGGGGGTCCGTGACTCTCCCCCTAAACATCTCA  
 GTAGACACAGAGATTGAGAACGTCATCTGGATTGGTCCAAAAATGCTCTTGCTTTCGCACGTCCCAAAG  
 AAAATGTAACCATATGGTCAAAAGCTACCTGGGCGACTAGACATCACCAAGTGGAGTTACTCCCTGTG  
 CATCAGCAATCTGACTCTGAATGATGCAGGATCTACAAAGCCAGATAAACCAAGGAATTTGAAGTC  
 ACCACTGAGGAGGAATTCACCCTGTTTCGTCTATGAGCAGCTGCAGGAGCCCCAAGTACCATGAAGTCTG  
 TGAAGGTGTCTGAGAATCTCCTGTAACATCACTCTAATGTGCTCCGTGAAGGGGGCAGAGAAAAGTGT  
 TCTGTACAGCTGGACCCCAAGGGAACCCATGCTTCTGAGTCCAATGGAGGCTCCATTCTTACCCTCC  
 CGAACACCATGTGACCCAGACCTGCCATACATCTGCACAGCCAGAACCCCGTACGCCAGAGAAGCTCCC  
 TCCTGTCCATGTTGGGAGTTCGTACAGATCCAGGAGCCTCCAGAGGAGGAACACGGGGGAGACTGT  
 GGTAGGGGTCTGGGAGAGCCAGTACCCTGCCACTTGCCTCCAGCCTGCCGGGACACAGAGAAGGTT  
 GTCTGGTTGTTTAAACATCCATCATTAGCAAAGAGAGGGAAGAAGCAGCAACGGCAGATCCACTCATT  
 AATCCAGGGATCCTTACAAGAACAGGGTGTGGGTCTCCAGCCAGGACTGCTCCCTGAAGATCAGCCAGCT  
 GAAGATAGAGGACGCCGGCCCTACCATGCCTACGTGTGCTCAGAGGCCCTCCAGCGTCACCAGCATGACA  
 CATGTCACCCTGCTCATCTACCGACCTGAGAGAAAACAAAAGCTTTGGATTGGGTGTTCTGATGGTGT  
 GCCTTCTGTGCGTTGGGATCTTCAGCTGGTGCATTTGGAAGCGAAAAGGACGGTGTCCAGTCCAGCCTT  
 CTGTTCCAGCCAAGCTGAGGCCCCAGCGGATACACCAGAACCCACAGCTGGCCACACGCTATACTCTGTG  
 CTCTCCAAGGATATGAGAAGCTGGACACTCCCTCAGGCCTGCCAGGCAACAGCCTACACCCACCTCAG  
 ACAGCAGCTCTGACAGCAACCTCACAAGTGAAGGATGAGGACAGGCCTGAGGTGCACAAGCCCATCAG  
 TGGAAGATATGAGGTATTTGACCAGTCACTCAGGAGGGCGTGGACATGACCCAGCCCTGAGGGCCAA  
 GCAGACTATGATCCCGTCACTCCATATGTCACGGAAGTTGAGTCTGTGGTTGGAGAGAACCCATGTATG  
 CACAAGTGTCAACTTACAGGAAAGACCCAGTTTCTCAGAAGGAAGAGAGCTCAGCCACAATCTACTG  
 CTCCATACGGAACCTCAGGTGGTCCACCACCACAACAGAATGATCTTGAGATTCTGAAAGTCTTACC  
 TATGAAAATTTACC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234448 representing NM\_001261457  
 Red=Cloning site Green=Tags(s)

MVAPKSHDDWAPGPFSSKPQRSQQLQIFSSVLQTSLLFLLMGLRASGKDSAPTUVVSGILGGSVTLPLNIS  
 VDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRDLITKWSYSLCISNLTLDAGSYKAQINQRNFEV  
 TTEEEFTLFVYEQLEPQVTMKSVKVSENFSCNITLMCSVKGAEKSVLYSWTPREPHASESNGGSILTVS  
 RTPCDPLPYICTAQNPVSRSSLPVHVGQFCTDPGASRGGTTGETVVGVLEPVTLPALPACRDTEKV  
 VWLFNTSIIISKEREEAATADPLIKSRDPYKNRVWVSSQDCSLKISQLKIEDAGPYHAYVCEASSVTSMT  
 HVTLLIYRPERNTKLWIGLFLMVCLLCVGFISWCIWKRKGRCSVPFACSSQAEAPADTPEPTAGHTLYSV  
 LSQGYEKLDTPLRPARQQPTPTSDSSSDSNLTTEEDDRPEVHKPISGRYEVFDQVTQEGAGHDPAPGQ  
 ADYDPVTPYVTEVESVVGENTMYAQVFNLQGKTPVVSQKEESSATYCSIRKPQVPPPPQNDLEIPESPT  
 YENFT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001261457

**ORF Size:** 1695 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001261457.2](#)

**RefSeq Size:** 2280 bp

**RefSeq ORF:** 1698 bp

**Locus ID:** 4063

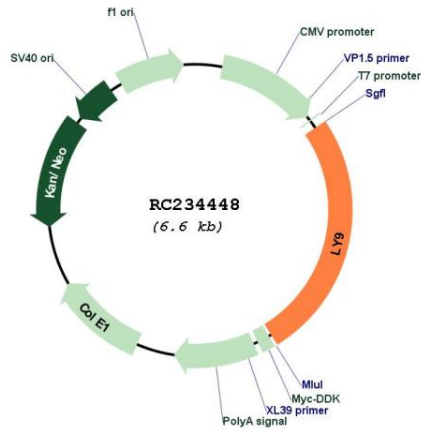
**Cytogenetics:** 1q23.3

**Protein Families:** Transmembrane

MW: 62.6 kDa

Gene Summary: LY9 belongs to the SLAM family of immunomodulatory receptors (see SLAMF1; MIM 603492) and interacts with the adaptor molecule SAP (SH2D1A; MIM 300490) (Graham et al., 2006 [PubMed 16365421]).[supplied by OMIM, Mar 2008]

**Product images:**



Circular map for RC234448