

## Product datasheet for **RG234448**

### 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:	TurboGFP
Symbol:	CD229
Synonyms:	CD229; hly9; mLY9; SLAMF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234448 representing NM\_001261457  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGCACAAAGAGTCACACAGATGACTGGGCTCCTGGGCTTTCTCCAGTAAGCCACAGAGGAGTC  
 AGCTGCAAAATATTCTTCTGTTTACAGACCTCTCTCCTTCTCCTGCTCATGGGACTAAGAGCCTCTGG  
 AAAGGACTCAGCCCCAACAGTGGTGTACAGGATCCTAGGGGGTCCGTGACTCTCCCCCTAAACATCTCA  
 GTAGACACAGAGATTGAGAACGTCATCTGGATTGGTCCAAAAATGCTCTTGCTTTCGCACGTCCCAAAG  
 AAAATGTAACCATATGGTCAAAAGCTACCTGGGCGACTAGACATCACCAAGTGGAGTTACTCCCTGTG  
 CATCAGCAATCTGACTCTGAATGATGCAGGATCTACAAAGCCAGATAAACCAAGGAATTTGAAGTC  
 ACCACTGAGGAGGAATTCACCCTGTTTCGTCTATGAGCAGCTGCAGGAGCCCCAAGTACCATGAAGTCTG  
 TGAAGGTGTCTGAGAACTTCTCCTGTAACATCACTCTAATGTGCTCCGTGAAGGGGGCAGAGAAAAGTGT  
 TCTGTACAGCTGGACCCCAAGGGAACCCATGCTTCTGAGTCCAATGGAGGCTCCATTCTTACCGTCTCC  
 CGAACACCATGTGACCCAGACCTGCCATACATCTGCACAGCCAGAACCCCGTACGCCAGAGAAGCTCCC  
 TCCTGTCCATGTTGGGAGTTCGTACAGATCCAGGAGCCTCCAGAGGAGGAACACGGGGGAGACTGT  
 GGTAGGGGTCTGGGAGAGCCAGTACCCTGCCACTTGCCTCCAGCCTGCCGGGACACAGAGAAGGTT  
 GTCTGGTTGTTTAAACATCCATCATTAGCAAAGAGAGGGAAGAAGCAGCAACGGCAGATCCACTCATT  
 AATCCAGGGATCCTTACAAGAACAGGGTGTGGGTCTCCAGCCAGGACTGCTCCCTGAAGATCAGCCAGCT  
 GAAGATAGAGGACGCCGGCCCTACCATGCCTACGTGTGCTCAGAGGCCCTCCAGCGTACCAGCATGACA  
 CATGTCACCCTGCTCATCTACCGACCTGAGAGAAAACAAAAGCTTTGGATTGGGTGTTCTCTGATGGTTT  
 GCCTTCTGTGCGTTGGGATCTTCAGCTGGTGCATTTGGAAGCGAAAAGGACGGTGTTCAGTCCCAGCCTT  
 CTGTTCCAGCCAAGCTGAGGCCCCAGCGGATACACCAGAACCACAGCTGGCCACACGCTATACTCTGTG  
 CTCTCCAAGGATATGAGAAGCTGGACACTCCCTCAGGCCTGCCAGGCAACAGCCTACACCCACCTCAG  
 ACAGCAGCTCTGACAGCAACCTCACAACCTGAGGAGGATGAGGACAGGCCTGAGGTGCACAAGCCCATCAG  
 TGGAAGATATGAGGTATTTGACCAGTCACTCAGGAGGGCGTGGACATGACCCAGCCCTGAGGGCCAA  
 GCAGACTATGATCCCGTCACTCCATATGTCACGGAAGTTGAGTCTGTGGTTGGAGAGAACCACATGTATG  
 CACAAGTGTCAACTTACAGGAAAGACCCAGTTTCTCAGAAGGAAGAGAGCTCAGCCACAATCTACTG  
 CTCCATACGGAACCTCAGGTGGTCCACCACCACAACAGAATGATCTTGAGATTCTGAAAGTCTACC  
 TATGAAAATTTACC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG234448 representing NM\_001261457  
 Red=Cloning site Green=Tags(s)

MVAPKSHDDWAPGPFSSKPQRSQQLQIFSSVLQTSLLFLLMGLRASGKDSAPTIVVSGILGGSVTLPLNIS  
 VDTEIENVIWIGPKNALAFARPKEVNTIMVKSYLGRDLITKWSYSLCISNLTLDAGSYKAQINQRNFEV  
 TTEEEFTLFVYEQLEPQVMTKSVKVENFSCNITLMCSVKGAEKSVLYSWTPREPHASESNGGSILTVS  
 RTPCDPDLPICTAQNPVSRSSLPVHVGQFCTDPGASRGGTTGETVVGVLPVTLPLALPACRDTKLV  
 VWLFNTSIIISKEREEAATADPLIKSRDPYKNRVWVSSQDCSLKISQLKIEDAGPYHAYVCEASSVTSMT  
 HVTLLIYRPERNTKLWIGLFLMVCLLCVGFISWCIWKRKGRCVPAFCSSQAEAPADTPEPTAGHTLYSV  
 LSQGYEKLDTPLRPARQQPTPTSDSSSDSNLTTEEDEDREPEVHKPISGRYEVFDQVTQEGAGHDPAPGQ  
 ADYDPVTPYVTEVESVVGENTMYAQVFNLQKTPVSQKEESSATIIYCSIRKPQVPPPPQNDLEIPESPT  
 YENFT

**TRTRPLE** - GFP Tag - V

**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

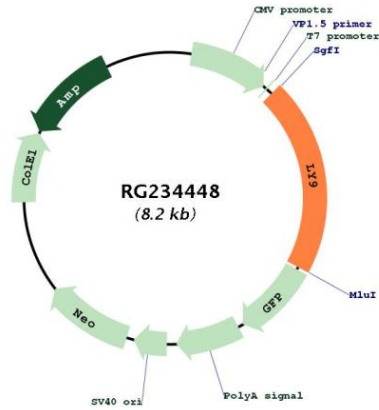
**Cytogenetics:** 1q23.3

**Protein Families:** Transmembrane

**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 RG234448