

## Product datasheet for **RG234636**

### CD229 (LY9) (NM\_001261456) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CD229 (LY9) (NM_001261456) 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:**

>RG234636 representing NM\_001261456  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGCACAAAGAGTCACACAGATGACTGGGCTCCTGGGCTTTCTCCAGTAAGCCACAGAGGAGTC  
 AGCTGCAAATATTCTTCTGTTCTACAGACCTCTCTCCTTCTCCTGCTCATGGGACTAAGAGCCTCTGG  
 AAAGGACTCAGCCCCAACAGTGGTGTACAGGATCCTAGGGGTTCCGTGACTCTCCCCCTAAACATCTCA  
 GTAGACACAGAGATTGAGAACGTCATCTGGATTGGTCCAAAAATGCTCTTGCTTTCGCACGTCCCAAAG  
 AAAATGTAACCATATGGTCAAAAGCTACCTGGGCGACTAGACATCACCAAGTGGAGTTACTCCCTGTG  
 CATCAGCAATCTGACTCTGAATGATGCAGGATCTACAAAGCCAGATAAACCAAGGAATTTGAAGTC  
 ACCACTGAGGAGGAATCACCTGTTTCGTCTATGAGCAGCTGCAGGAGCCCCAAGTACCATGAAGTCTG  
 TGAAGGTGTCTGAGAACTTCTCCTGTAACATCACTCTAATGTGCTCCGTGAAGGGGGCAGAGAAAAGTGT  
 TCTGTACAGCTGGACCCCAAGGGAACCCATGCTTCTGAGTCCAATGGAGGCTCCATTCTTACCCTCC  
 CGAACACCATGTGACCCAGACCTGCCATACATCTGCACAGCCAGAACCCCGTACGCCAGAGAAGCTCCC  
 TCCTGTCCATGTTGGGAGTTCGTACAGATCCAGGAGCCTCCAGAGGAGGAACACGGGGGAGACTGT  
 GGTAGGGGTCTGGGAGAGCCAGTACCCTGCCACTTGCCTCCAGCCTGCCGGGACACAGAGAAGGTT  
 GTCTGGTTGTTTAAACATCCATCATTAGCAAAGAGAGGGAAGAAGCAGCAACGGCAGATCCACTCATT  
 AATCCAGGGATCCTTACAAGAACAGGGTGTGGGTCTCCAGCCAGGACTGCTCCCTGAAGATCAGCCAGCT  
 GAAGATAGAGGACGCCGGCCCCACCATGCCTACGTGTGCTCAGAGGCCCTCCAGCGTCACCAGCATGACA  
 CATGTACCCTGCTCATCTACCGCAGGCTGAGGAAGCCAAAAATCACGTGGAGCCTCAGGCACAGTGAGG  
 ATGGCATCTGCAGGATCAGCCTGACCTGCTCCGTGGAGGACGGGGAAACACTGTCATGTACACATGGAC  
 CCCGCTGCAGAAGGAAGCTGTTGTGTCCTCAAGGGGAATCACACCTCAATGTCTCATGGAGAAGCAGTGAA  
 AATCACCCCAACCTCACATGCACAGCCAGCAACCCGTGTCAGCAGGAGTCCACCAGTTTCTTTCTGAGA  
 ACATCTGTTTACAGGACCTGAGAGAAACACAAAGCTTTGGATTGGGTTGTTCTGATGGTTTGCCTTCTGTG  
 CGTTGGGATCTTACAGCTGGTGCATTTGGAAGCGAAAAGGACGGTTCAGTCCCAGCCTTCTGTTCCAGC  
 CAAGCTGAGGCCCCAGCGGATACACCAGGATATGAGAAGCTGGACTCCCTCAGGCCTGCCAGGCAAC  
 AGCCTACACCCACCTCAGACAGCAGCTCTGACAGCAACCTCACAACCTGAGGAGGATGAGGACAGGCCTGA  
 GGTGCACAAGCCATCAGTGAAGATATGAGGTATTTGACCAGGTCCTCAGGAGGGCGCTGGACATGAC  
 CCAGCCCCTGAGGGCCAAGCAGACTATGATCCCGTCACTCCATATGTACGGAAGTTGAGTCTGTGGTTG  
 GAGAGAACACCATGTATGCACAAGTGTCAACTTACAGGGAAAGACCCCGATTTCTCAGAAGGAAGAGAG  
 CTCAGCCACAATCTACTGCTCCATACGGAACCTCAGGTGGTGCCACCACCACAAGAATGATCTTGAG  
 ATTCCTGAAAGTCTACCTATGAAAATTCACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234636 representing NM\_001261456  
 Red=Cloning site Green=Tags(s)

MVAPKSHDDWAPGPFSSKQSRSLQIFSSVLQTSLLFLLMGLRASGKDSAPTIVSGILGGSVTLPLNIS  
 VDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRDLITKWSYSLCISNLTLDAGSYKAQINQRNFEV  
 TTEEEFTLFVYEQLEPQVTMKSVMKVSSENFSCNITLMCSVKGAESVLYSWTPREPHASESNGGSILTVS  
 RTPCDPLPYICTAQNPVSRSSLPVHVGQFCTDPGASRGGTTGETVVGVLEPVTLPALPACRDETKV  
 VWLFNTSIIISKEREEAATADPLIKSRDPYKNRVWVSSQDCSLKISQLKIEDAGPYHAYVCSSEASSVTSMT  
 HVTLLIYRRLRKPKITWLSLRHSEDCRISLTCSEVEDGGNTVMYTWPLQKEAVVVSQGESHLNVSWRSSE  
 NHPNLTCTASNPVSRSSHQFLSENICSGPERNTKLWIGLFLMVCLLCVGIKSWIWKRGKRCVPAFCSS  
 QAEAPADTPGYEKLDTPLRPARQQPTPTSDSSSDSNLTTEEDRPEVHKPISGRYEVFDQVTQEGAGHD  
 PAPEGQADYDPVTPYVTEVESVVGENTMYAQVFNLQGKTPVSQKEESSATIIYCSIRKPQVPPPPQNDLE  
 IPESPTYENFT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**ACCN:** NM\_001261456

**ORF Size:** 1923 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\\_001261456.2](#)

**RefSeq Size:** 2508 bp

**RefSeq ORF:** 1926 bp

**Locus ID:** 4063

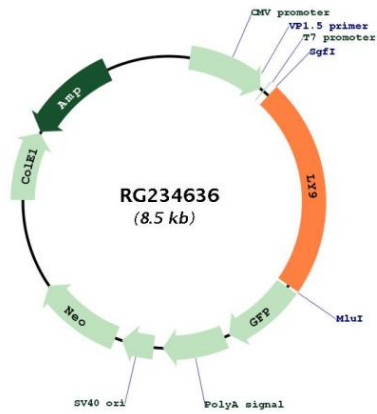
**UniProt ID:** [Q9HBG7](#)

**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 RG234636