

Product datasheet for **RG218201**

CD229 (LY9) (NM_002348) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | CD229 (LY9) (NM_002348) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | LY9 |
| Synonyms: | CD229; hly9; mLY9; SLAMF3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide
Sequence:

>RG218201 representing NM_002348
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGCACAAAGAGTCACACAGATGACTGGGCTCCTGGGCCTTCTCCAGTAAGCCACAGAGGAGTC
AGCTGCAAATATTCTTCTGTTCTACAGACCTCTCTCCTTTCCTGCTCATGGGACTAAGAGCCTCTGG
AAAGGACTCAGCCCCAACAGTGGTGTACAGGATCCTAGGGGGTCCGTGACTCTCCCCCTAAACATCTCA
GTAGACACAGAGATTGAGAACGTCATCTGGATTGGTCCCAAAAATGCTCTTGCTTTCGCACGTCCCAAAG
AAAATGTAACCATTATGGTCAAAAGCTACCTGGGCGACTAGACATCACCAAGTGGAGTTACTCCCTGTG
CATCAGCAATCTGACTCTGAATGATGCAGGATCTACAAAGCCCAGATAAACCAAGGAATTTTGAAGTC
ACCACTGAGGAGGAATTCACCCTGTTTCGTCTATGAGCAGCTGCAGGAGCCCCAAGTACCATGAAGTCTG
TGAAGGTGTCTGAGAATCTCTCTGTAACATCACTCTAATGTGCTCCGTGAAGGGGGCAGAGAAAAGTGT
TCTGTACAGCTGGACCCCAAGGGAACCCCATGCTTCTGAGTCCAATGGAGGCTCCATTCTTACCCTCC
CGAACACCATGTGACCCAGACCTGCCATACATCTGCACAGCCCAGAACCCCGTACGCCAGAGAAGCTCCC
TCCTGTCCATGTTGGGAGTTCGTACAGATCCAGGAGCCTCCAGAGGAGGAACACCGGGGAGACTGT
GGTAGGGGTCTGGGAGAGCCAGTACCCTGCCACTTGCCTCCAGCCTGCCGGGACACAGAGAAGGTT
GTCTGGTTGTTTAAACACATCCATCATTAGCAAAGAGAGGGAAGAAGCAGCAACCGGAGATCCACTCATT
AATCCAGGGATCCTTACAAGAACAGGGTGTGGGTCTCCAGCCAGGACTGCTCCCTGAAGATCAGCCAGCT
GAAGATAGAGGACGCCGGCCCCACCATGCCTACGTGTGCTCAGAGGCCCTCCAGCGTACCAGCATGACA
CATGTACCCTGCTCATCTACCGCAGGCTGAGGAAGCCCCAAAATCACGTGGAGCCTCAGGCACAGTGAGG
ATGGCATCTGCAGGATCAGCCTGACCTGCTCCGTGGAGGACGGGGGAAACACTGTCATGTACACATGGAC
CCCGCTGCAGAAGGAAGCTGTTGTGTCCCAAGGGGAATCACACCTCAATGTCTCATGGAGAAGCAGTGAA
AATCACCCCAACCTCACATGCACAGCCAGCAACCTGTCAGCAGGAGTCCACCAGTTTCTTTCTGAGA
ACATCTGTTCCAGGACCTGAGAGAAAACAAAGCTTTGGATTGGGTTGTTCCCTGATGGTTTGCCTTCTGTG
CGTTGGGATCTTCAGCTGGTGCATTTGGAAGCGAAAAGGACGGTGTTCAGTCCCAGCCTTCTGTTCCAGC
CAAGCTGAGGCCCCAGCGGATACACCAGAACCCACAGCTGGCCACACGCTATACTCTGTGCTCTCCAAG
GATATGAGAAGCTGGACACTCCCCTCAGGCCTGCCAGGCAACAGCCTACACCCACCTCAGACAGCAGCTC
TGACAGCAACCTCACAACCTGAGGAGGATGAGGACAGGCCTGAGGTGCACAAGCCCATCAGTGAAGATAT
GAGGTATTTGACCAGGCTACTCAGGAGGCGCTGGACATGACCCAGCCCCTGAGGGCCAAGCAGACTATG
ATCCCGTCACTCCATATGTCACGGAAGTTGAGTCTGTGGTTGGAGAGAACCATGTATGCACAAGTGT
CAACTTACAGGAAAGACCCAGTTTCTCAGAAGGAAGAGAGCTAGCCCAATCTACTGCTCCATACGG
AAACCTCAGGTGGTGCCACCACCACAACAGAATGATCTTGAGATTCCTGAAAGTCTACCTATGAAAATT
TCACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218201 representing NM_002348
 Red=Cloning site Green=Tags(s)

```
MVAPKSHDDWAPGPFSSKPQRSQLQIFSSVLQTSLLFLLMGLRASGKDSAPTIVSGILGGSVTLPLNIS
VDTEIENVIWIGPKNALAFARPKENVTIMVKSYLGRDLITKWSYSLCISNLTNDAGSYKAQINQRNFEV
TTEEEFTLFVYEQLQEPQVTMKSIVKSENFSCNITLMCSVKGAESVLYSWTPREPHASESNGGSILTVS
RTPCDPDLPIYICTAQNVPVSRSSLPVHVGQFCTDPGASRGGTTGETVVGVLGEPVTLPLALPACRDTEKV
VWLFNTSIIISKEREEAATADPLIKSRDPYKNRVWVSSQDCSLKISQLKIEDAGPYHAYVCEASSVTSMT
HVTLLIYRRLRKPKITWLSLRHSEGDICRISLTCSVEDGGNTVMTWTPLQKEAVVSQGESHLNVSWRSSE
NHPNLTCTASNPVSRSSHQFLSENICSGPERNTKLWIGLFLMVCLLCVGFISWCIWKRKGRCSVPAFCS
QAEAPADTPEPTAGHTLYSVLSQGYEKLDTPLRPARQQPTPTSDSSSDSNLTTEEDDRPEVHKPISGRY
EVFDQVTQEGAGHDAPEGQADYDVPVTPYVTEVESVVGENTMYAQVFNLQGKTPVSQKEESSATIYCSIR
KPQVPPPPQQNDLEIPESPTYENFT
```

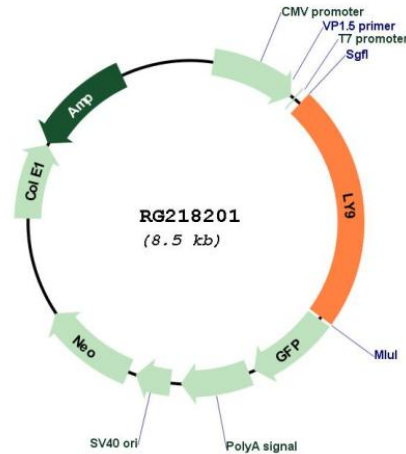
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_002348

ORF Size: 1965 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_002348.4](#)

| | |
|-------------------|---|
| RefSeq Size: | 2486 bp |
| RefSeq ORF: | 1968 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] |