

Product datasheet for **RG211639**

LY75 (NM_002349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LY75 (NM_002349) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LY75
Synonyms:	CD205; CLEC13B; DEC-205; GP200-MR6; LY-75
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211639 representing NM_002349. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGACAGGCTGGGCGACCCCTCGCCGCCCGGGGGCTCCTCATGCTGCTCTCCGGTCTTCGAT
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TCAGTTCGATATGCACAAGGAGTGAATGAAGATGAGATTATGCTTCCTTCTTTCCATGAC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence:

>Peptide sequence encoded by RG211639
 Blue=ORF Red=Cloning site Green=Tag(s)

MRTGWATPRRPAGLLMLLFRFFDLAEPSSGRAANDPFTIVHGNTGKCIKPVYGVIVADDCDETEDKLWKW
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 VCKRKGKELNDASSDKMCPPEDEGWKRHGETCYKIYEDEVFPFGTNCNLITISRFEQEYLNLMKKYDKSL
 RKYFWTGLRDVDSCEYENWATVGGRRRAVTF SNWNFLEPAPGGCVAMSTGKSVGKWEVKDCRSFKALS
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 KIEMVDYKEEHNTLPQFMPYEDGIYSVIQKVTWYEAALNMCSQSGGHLASVHNQNGQLFLEDIVKRDG
 FPLWVGLSSHDSSESSFEWSDGTFDYIPWKGQTPGNCVLLDPKGTWKHEKCNVSKDGAICYKPTKSK
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SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
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Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:

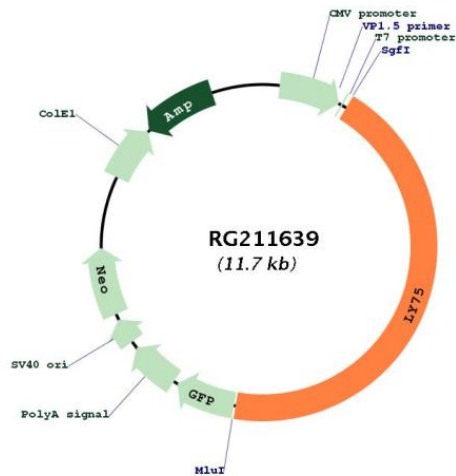


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_002349

ORF Size: 5166 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 Size: 6928 bp

RefSeq ORF:	5169 bp
Locus ID:	4065
UniProt ID:	<u>O60449</u>
Cytogenetics:	2q24.2
Domains:	FN2, RICIN, CLECT
Protein Families:	Transmembrane
MW:	198.2 kDa
Gene Summary:	Acts as an endocytic receptor to direct captured antigens from the extracellular space to a specialized antigen-processing compartment (By similarity). Causes reduced proliferation of B-lymphocytes.[UniProtKB/Swiss-Prot Function]