

Product datasheet for **RG206767**

LYG1 (NM_174898) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: LYG1
Synonyms: SALW1939
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG206767 representing NM_174898
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTGCATTGTGGCTGCTGCTGGGCCTCCTTGCCCTGATGGACTTGTCTGAAAGCAGCAACTGGGGAT
GCTATGGAACATCCAAGCCTGGACACCCCTGGAGCATCTTGTGGGATTGGAAGACGTACGGCCCTGAA
CTACTGTGGAGTTCGTGCTTCTGAAAGGCTGGCTGAAATAGACATGCCATACCTCTGAAATATCAACCC
ATGATGCAAACCATTTGGCCAAAGTACTGCATGGATCCTGCCGTGATCGCTGGTGTCTTGTCCAGGAAGT
CTCCCGGTGACAAATTCTGGTCAACATGGGCGATAGGACTAGCATGGTGCAGGACCCCTGGCTCTCAAGC
TCCACATCCTGGATTAGTGAGTCTCAGGTTTCCAGACAACTGAAGTTCTGACTACTAGAATCAAAGAA
ATCCAGAGGAGGTTTCCAACCTGGACCCCTGACCAGTACCTGAGAGGTGGACTCTGTGCCTACAGTGGGG
GTGCTGGCTATGTCCGAAGCAGCCAGGACCTGAGCTGTGACTTCTGCAATGATGTCCTGCACGAGCCAA
GTACCTCAAGAGACATGGCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206767 representing NM_174898
Red=Cloning site Green=Tags(s)

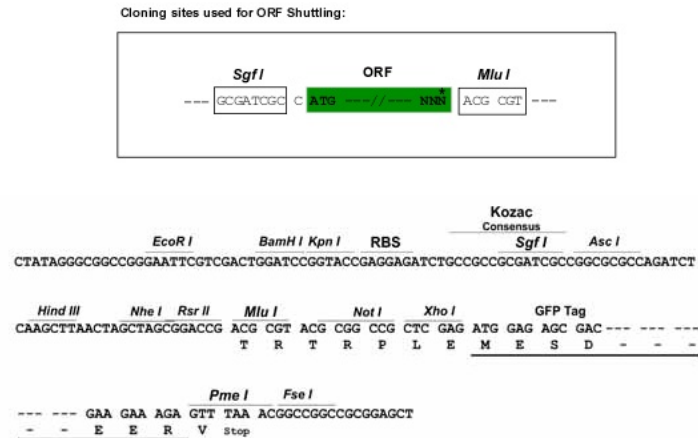
MSALWLLGLLLALMDLSESSNWGCYGNISLDTPGASCGIGRRHGLNYCGVRASERLAEIDMPYLLKYQP
MMQTIGQKYCMDPAVIAGVLSRKSPGDKILVNMGDRTSMVQDPGSQAPTSWISQVSQTTEVLTTRIKE
IQRRFPTWPDQYLRGLCAYSGGAGYVRSSQDLSCDFCNDVLARAKYLKRHF

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_174898

ORF Size: 582 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_174898.3](#)

RefSeq Size: 1015 bp

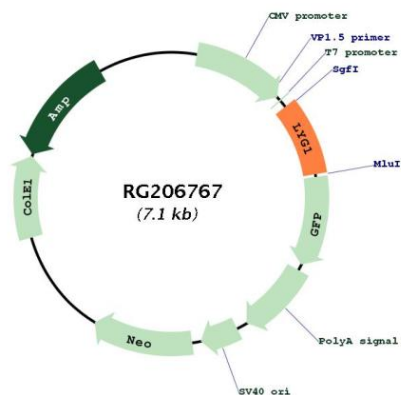
RefSeq ORF: 585 bp

Locus ID: 129530

UniProt ID: [Q8NIE2](#)

Cytogenetics: 2q11.2

Product images:



Circular map for RG206767