

Product datasheet for **RG224218**

LYPD8 (NM_001085474) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LYPD8 (NM_001085474) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LYPD8
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG224218 representing NM_001085474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**

ATGAAGGGCATCCTCGTTGCTGGTATCACTGCAGTGCTTGTTCAGCTGTAGAATCTCTGAGCTGCGTGC
 AGTGTAATTCATGGGAAAAATCCTGTGTCAACAGCATTGCCTCTGAATGTCCCTCACATGCCAACACCAG
 CTGTATCAGCTCCTCAGCCAGCTCCTCTCTAGAGACACCAGTCAGATTATACCAGAATATGTTCTGCTCA
 GCGGAGAACTGCAGTGAGGAGACACACATTACAGCCTTCACTGTCCACGTGTCTGCTGAAGAACAACCTTTC
 ATTTTGTAAAGCCAGTGCTGCCAAGGAAAGGAATGCAGCAACACCAGCGATGCCCTGGACCCTCCCCTGAA
 GAACGTGTCCAGCAACGCAGAGTGCCCTGCTTGTATGAATCTAATGGAACCTCCTGTCTGGGGAAGCCC
 TGGAAATGCTATGAAGAAGAACAGTGTGTCTTTCTAGTTGCAGAACTTAAGAATGACATTGAGTCTAAGA
 GTCTCGTGCTGAAAGGCTGTTCCAACGTCAGTAACGCCACCTGTCAGTTCCTGTCTGGTGAACAAGAC
 TCTTGGAGGAGTCATCTTTCGAAAGTTTGAGTGTGCAAAATGTAACAGCTTAACCCACGCTGACCA
 ACCACTTCCACAACGTGGGCTCCAAAGCTTCCCTCTACCTCTTGGCCCTTGCCAGCCTCCTTCTCGGG
 GACTGCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224218 representing NM_001085474
 Red=Cloning site Green=Tags(s)

MKGILVAGITAVLVAAVESLSCVQCNSWEKSCVNSIASECPSHANTSCISSASSSLETVPVRLYQNMFCS
 AENCSEETHITAFVHVSAEEHFVFSQCCQGECSNTSDALDPPLKNVSSNAECPACYESNGTSCRGKP
 WKCYEEEQCVFLVAELKNDIESKSLVLKGCNSVSNATCQFLSGENKTLGGVIFRKFEKANVNSLTPTSAP
 TTSHNVGSKASLYLLALASLLLRGLLP

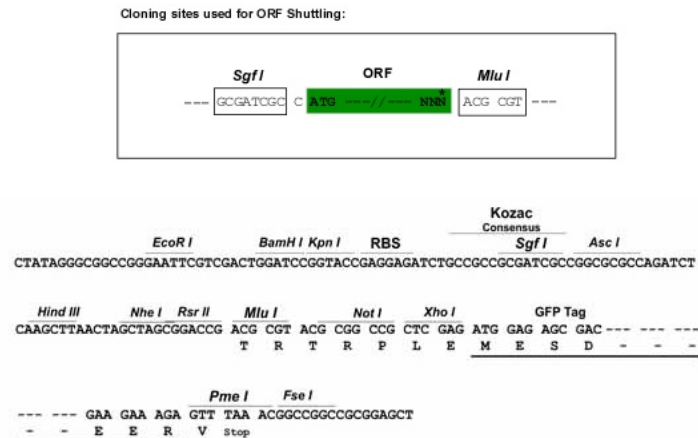
TRTRPLE - GFP Tag - V



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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001085474

ORF Size: 711 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_001085474.1](#), [NP_001078943.1](#)

RefSeq Size: 1205 bp

RefSeq ORF: 714 bp

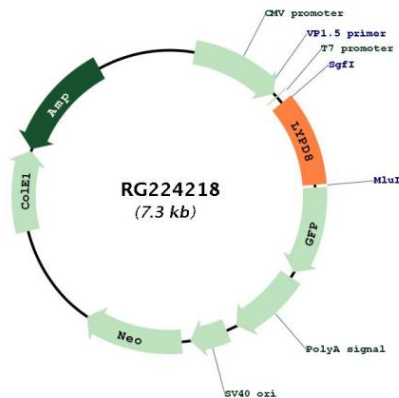
Locus ID: 646627

UniProt ID: [Q6UX82](#)

Cytogenetics: 1q44

Gene Summary: Secreted protein specifically required to prevent invasion of Gram-negative bacteria in the inner mucus layer of the colon epithelium, a portion of the large intestine which is free of commensal microbiota. Prevents invasion of flagellated microbiota by binding to the flagellum of bacteria, such as *P.mirabilis*, thereby inhibiting bacterial motility in the intestinal lumen. Segregation of intestinal bacteria and epithelial cells in the colon is required to preserve intestinal homeostasis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG224218