

Product datasheet for RC224218

LYPD8 (NM_001085474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LYPD8 (NM_001085474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LYPD8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224218 representing NM_001085474 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAAGGGCATCCTCGTTGCTGGTATCACTGCAGTGCTTGTTCAGCTGTAGAATCTCTGAGCTGCGTGC
 AGTGTAATTCATGGGAAAAATCCTGTGTCAACAGCATTGCCTCTGAATGTCCCTCACATGCCAACACCAG
 CTGTATCAGCTCCTCAGCCAGCTCCTCTAGAGACACCAGTCAGATTATACCAGAATATGTTCTGCTCA
 GCGGAGAACTGCAGTGAGGAGACACACATTACAGCCTTCACTGTCCACGTGTCTGCTGAAGAACACTTTC
 ATTTTGTAAAGCCAGTGCTGCCAAGGAAAGGAATGCAGCAACACCAGCGATGCCCTGGACCCTCCCCTGAA
 GAACGTGTCCAGCAACGCAGAGTGCCCTGCTTGTATGAATCTAATGGAACCTCCTGTCTGGGAAAGCCC
 TGGAAATGCTATGAAGAAGAACAGTGTGTCTTTCTAGTTGCAGAACTTAAGAATGACATTGAGTCTAAGA
 GTCTCGTGCTGAAAGGCTGTTCCAACGTCAGTAACGCCACCTGTCAGTTCCTGTCTGGTAAAAACAAGAC
 TCTTGGAGGAGTCATCTTTCGAAAGTTTGAGTGTGCAAAATGTAACAGCTTAACCCACGCTCTGCACCA
 ACCACTTCCACAACGTGGGCTCCAAAGCTTCCCTCTACCTCTTGGCCCTTGCCAGCCTCCTTCTCGGG
 GACTGCTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC224218 representing NM_001085474

Red=Cloning site Green=Tags(s)

MKGILVAGITAVLVAAEVSLSCVQCNSWEKSCVNSIASECPSHANTSCISSASSSLETVPRLYQNMFC
 AENCSEETHITAFTHVHSAEEHFHVSQCQCQGECSNTSDALDPLKNVSSNAECPACYESNGTSCRGKP
 WKCYEEEQCVFLVAELKNDIESKSLVLKGCSNVSNATCQFLSGENKTLGGVIFRKFEKANVNSLTPTSAP
 TTSNVGSKASIIYIIAIIASIIIRGIIP

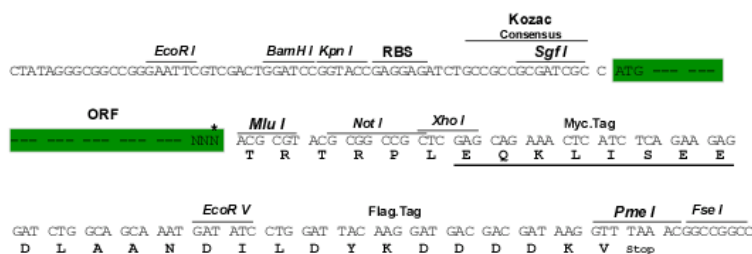
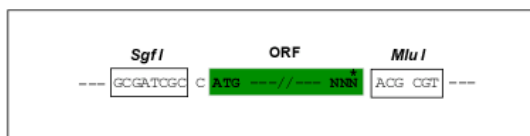
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8043_f05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001085474

ORF Size: 711 bp

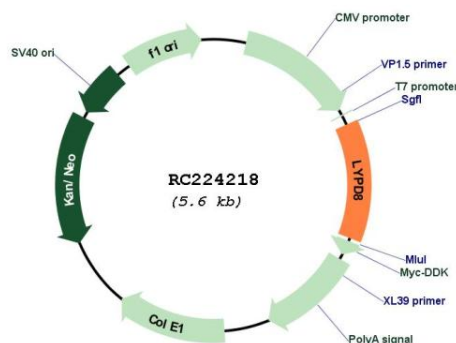
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001085474.1, NP_001078943.1</u>
RefSeq Size:	1205 bp
RefSeq ORF:	714 bp
Locus ID:	646627
UniProt ID:	<u>Q6UX82</u>
Cytogenetics:	1q44
MW:	25.1 kDa
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 RC224218