

## Product datasheet for **MR204596**

### Lyve1 (NM\_053247) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Lyve1 (NM_053247) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Lyve1
Synonyms:	1200012G08Rik; Crsbp-1; Lyve-1; Xlkd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204596 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCCAGCACACTAGCCTGGTGTACTCCTCGCCTCTATTTGGACCACTAGGCACCCAGTCCAAGGTG  
CCGACCTCGTGCAAGACCTTTCCATTTCTACATGCAGAATCATGGGCGTTGCCCTTGTGGGCAGAAACAA  
AAACCCACAGATGAATTTACAGAAGCCAACGAGGCCTGTAAGATGCTGGGACTGACTCTGGCCAGCAGG  
GACCAGGTAGAGTCAGCGCAGAAATCTGGCTTTGAGACTTGCAGCTATGGATGGGTTGGAGAACAGTTCT  
CTGTCATCCCTCGGATTTCTCAAACCCAGGTGTGGGAAGAATGGCAAAGGTGTCCTGATTTGGAATGC  
TCCTCCAGCCAAAAGTTCAAAGCCTATTGCCACAACCTATCCGACACCTGGGTTAACTCCTGCATTCCA  
GAAATCGTTACCACATTTTACCCCGTGTGGACACTCAAACACCCGCAACAGAGTTTTCTGTCAGCAGCA  
GCGCCTACTTGGCTTCATCCCCTGACTCCACAACACCTGTTTCTGCCACCACCCGGGCTCCACCTTTGAC  
CTCCATGGCAGCGAAGACAAAAAGATTTGTATCACGGAAGTTTATACAGAACCTATCACCATGGCTACA  
GAAACAGAAGCATTTGTTGCAAGTGGAGCAGCATTCAAGAACGAAGCAGCTGGGTTTGGAGGTGTCCCA  
CCGCCCTGCTGGTGTGGCTCTCCTCTTCTTTGGTGTGCCGCTGTGCTGGCTGTTTGTACGTGAAAAG  
GTATGTGAAGGCCTTCCCTTTACAACCAAGAATCAACAGAAGGAAATGATCGAAACCAAGTTGTAAG  
GAAGAGAAGGCTGATGACGTCAACGCTAATGAAGAATCAAAGAAAACCTTAAAAACCCAGAGGAGGCCA  
AGAGTCCACCCAAAACCTACGGTGGCATGCTTAGAAGCTGAAGTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR204596 protein sequence  
 Red=Cloning site Green=Tags(s)

MLQHTSLVLLLASIWTRHPVQGADLVQDLSISTCRIMGVALVGRNKNPQMNFTANEACKMLGLTLASR  
 DQVESAQKSGFETCSYGWVGEQFSVIPRIFSNPRCGKNGKGVLIWNAPSSQKFKAYCHNSSDTWVNSCIP  
 EIVTTFYPVLDTQTPATEFSVSSSAYLASSPDSTTPVSATTRAPPLTSMARKTKKICITEVYTEPITMAT  
 ETEAFVASGAAFKNEAAGFGGVPTALLVLALLFFGAAAVLAVCYVKRYVKAFPFTTKNQKEMIEITKVVK  
 EEKADDVNANEESSKTIKNPEEAKSPPKTTVRCLEAEV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_053247

**ORF Size:** 957 bp

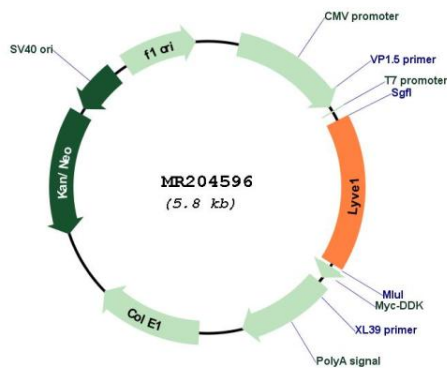
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of 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](mailto: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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_053247.4, NP_444477.2</u>
<b>RefSeq Size:</b>	2607 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	114332
<b>UniProt ID:</b>	<u>Q8BHC0</u>
<b>Cytogenetics:</b>	7 E3
<b>MW:</b>	34.6 kDa
<b>Gene Summary:</b>	Ligand-specific transporter trafficking between intracellular organelles (TGN) and the plasma membrane. Plays a role in autocrine regulation of cell growth mediated by growth regulators containing cell surface retention sequence binding (CRS). May act as a hyaluronan (HA) transporter, either mediating its uptake for catabolism within lymphatic endothelial cells themselves, or its transport into the lumen of afferent lymphatic vessels for subsequent re-uptake and degradation in lymph nodes.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR204596