

## Product datasheet for **RG213256**

### LD78 beta (CCL3L1) (NM\_021006) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** LD78 beta (CCL3L1) (NM\_021006) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** LD78 beta  
**Synonyms:** 464.2; D17S1718; GOS19-2; LD78; LD78-beta(1-70); LD78BETA; MIP1AP; SCYA3L; SCYA3L1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG213256 representing NM\_021006  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCAGGTCTCCACTGCTGCCCTTGCCGTCTCTGCACCATGGCTCTCTGCAACCAGGTCTCTCTG  
 CACCACTTGCTGCTGACACGCCGACCGCTGCTGCTTCAGCTACACCTCCCGACAGATCCACAGAATTT  
 CATAGCTGACTACTTTGAGACGAGCAGCCAGTGTCCAAGCCAGTGCATCTTCTCAACCAAGAGAGGC  
 CGGCAGGTCTGTGCTGACCCAGTGAGGAGTGGTCCAGAAATACGTCAGTGACCTGGAGCTGAGTGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG213256 representing NM\_021006  
 Red=Cloning site Green=Tags(s)  
 MQVSTAALAVLLCTMALCNQVLSAPLAADTPTACCFSYTSRQIPQNFADYFETSSQCSKPSVIFLTKRG  
 RQVCADPSEEWQKYVSDLELSA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_021006

ORF Size: 279 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.

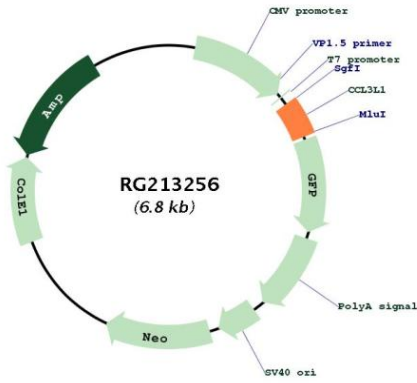
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.

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).

<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>	<a href="#">NM_021006.5</a>
<b>RefSeq Size:</b>	804 bp
<b>RefSeq ORF:</b>	282 bp
<b>Locus ID:</b>	6349
<b>UniProt ID:</b>	<a href="#">P16619</a>
<b>Cytogenetics:</b>	17q21.1
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	Chemokine signaling pathway, Cytokine-cytokine receptor interaction
<b>Gene Summary:</b>	<p>This gene is one of several cytokine genes that are clustered on the q-arm of chromosome 17. Cytokines are a family of secreted proteins that function in inflammatory and immunoregulatory processes. The protein encoded by this gene binds to several chemokine receptors, including chemokine binding protein 2 and chemokine (C-C motif) receptor 5 (CCR5). CCR5 is a co-receptor for HIV, and binding of this protein to CCR5 inhibits HIV entry. The copy number of this gene varies among individuals, where most individuals have one to six copies, and a minority of individuals have zero or more than six copies. There are conflicting reports about copy number variation of this gene and its correlation to disease susceptibility. This record represents one of two copies that are present on the ALT_REF_LOCI_2 alternate haplotype of the GRCh38 human reference genome assembly. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Apr 2014]</p>

Product images:



Circular map for RG213256