

## Product datasheet for **RG204404**

### SLP76 (LCP2) (NM\_005565) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLP76 (LCP2) (NM_005565) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLP76
Synonyms:	IMD81; SLP-76; SLP76
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG204404 representing NM\_005565  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCACTGAGGAATGTGCCCTTCGCTCAGAGGTCTGGGCTGGGACCCCGACAGCCTTGCTGACTATT  
 TCAAGAAGCTCAACTATAAGGACTGTGAGAAGGCAGTGAAGAAGTACCACATCGATGGGGCTCGCTTCTT  
 GAACCTGACAGAAAATGACATCCAGAAGTTCSSCAAGCTCCGGGTGCCGATTCTCAGTAAGTAAAGTCAG  
 GAAATCAACAAGAACGAAGAGAGGAGGAGCATCTTACACGCAAACCCCAAGTCCCGCGGTTTCTGAAAG  
 AGACAGAAAGCCACGAAGAGGACAATGGGGGCTGGTCTGCTCTTTGAAGAAGACGATTATGAAAGTCCCAA  
 TGATGACCAGGATGGGGAGGATGATGGAGACTATGAGTCCCCAATGAGGAGGAAGAGGCACCCGTGGAA  
 GATGACCGGATTATGAGCCGCCACCCTCCAATGACGAGGAAGCTCTGCAGAACTCCATCTGCCTGCCA  
 AGCCTTTCCCAACTCCAATCCATGTACATCGACCGGCCCCCTCTGGGAAAACCCCCAGCAGCCTCC  
 TGTGCCCCCCAGAGACCGATGGCCGCCCTCCCGCCCCACCAGCCGGCCGGAATCACTCGCCACTGCC  
 CCACCCAGACCAACCACGAAGAACCAGCAGAAGCAGAAACCACAAAACGGCAAAGCTCCCTGCTCCTT  
 CAATAGACAGAAGCACGAAACCTCCCCTAGATCGTTCATTAGCTCCGTTTGATAGAGAACCCTTCACACT  
 AGGAAAGAAACCACATTTTCTGACAAGCCCTCGATTCCAGCGGGAAGGTCACTCGGGGAGCATTACCC  
 AAGATTCAAAGCCTCCTTACCACCGACCACGGAAGACATGAAAGGAGCAGCCCTGCCAGGGAAGA  
 AGCCACCTGTGCCAAAGCATGGATGGGGACCAGACAGAAGAGAGAATGATGAAGATGATGTCATCAGAG  
 ACCTTTGCCCCAGCCAGCACTACTTCTATGAGCTCCAACACTTCCCTTCAAGATCTACTAAGCCAAGT  
 CCCATGAACCTCTCCCATCTCTCACATGCCTGGAGCATTCTCAGAAAGTAACAGCAGTTTTCCACAGA  
 GTGCCTCCCTGCCACCATACTTCTCAAGGCCCTAGCAACAGACCACCTATCAGAGCCGAAGCAGAA  
 CTTCCCTTGCCACTTCCAACAACCTCGGCCCCATCCCCCGGAGGAAGAGAATTCATTAATGAA  
 GAGTGGTACGTTTCTTATATTACCCGACCAGGCGAGAAGCTGCTCTTAGAAAGATAAACAGGATGGCA  
 CATTCTGGTCAGAGACAGCTCTAAAAAACAACAACCAATCCATATGTCCTCATGGTGTGTACAAAGA  
 TAAAGTTTACAACATCCAGATCCGTTATCAGAAGGAAAGTCAAGTTTACTTGTGGGAACGGACTCCGA  
 GGGAAAGAGGACTTTCTGTCTGTGCAGATATTATTGACTACTTCAGGAAAATGCCACTTCTGCTCATTG  
 ATGGGAAAACCGAGGTTCCAGATACCAGTGCACATTAACGCATGCTGCAGGGTACCCA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG204404 representing NM\_005565  
 Red=Cloning site Green=Tags(s)

MALRNVPFRSEVLGWDPSLADYFKKLNKYDCEKAVKKYHIDGARFLNL TENDIQKFPKLRVPILSKLSQ  
 EINKNEERRSIFTRKPQVPRFPEETESHEEDNGWSSFEEDDYESPNDQDGEDDGDYESPNEEEAPVE  
 DDADYEPPPSNDEEALQNSILPAKFPNSNSMYIDRPPSGKTPQQPPVPPQRPMAALPPPAGRNHSPLP  
 PPQTNHEEPSRSRNHKTAKLPAPSIDRSTKPLDRSLAPFDREPF TLGKKPPFSDKPSIPAGRSLGEHLP  
 KIQKPLPPTTERHERSSPLPGKKPPVPKHGWGPDREDDVHQRPLPQALLPMSNTFSPSRSTKPS  
 PMNPLSSHMPGAFSESNSFPQSASLPPYFSQGPSNRPPIRAEGRNFLPLPNKPRPPSPAEEENSLNE  
 EWYVSYITRPEAEALRKINQDGTFLVRDSSKTTTNPVYLMVL YKDKVYNIQIRYQKESQVYLLGTGLR  
 GKEDFLSVSDIIDYFRKMPLLLIDGKNRGSRYQCTLTHAAGYP

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_005565

ORF Size: 1599 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.

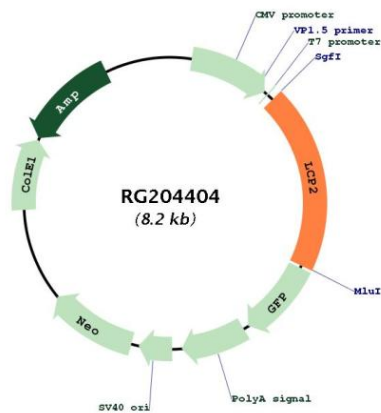
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_005565.5](#)

**RefSeq Size:** 2472 bp  
**RefSeq ORF:** 1602 bp  
**Locus ID:** 3937  
**UniProt ID:** [Q13094](#)  
**Cytogenetics:** 5q35.1  
**Domains:** SH2, SAM  
**Protein Pathways:** Fc epsilon RI signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway  
**Gene Summary:** This gene encodes an adapter protein that acts as a substrate of the T cell antigen receptor (TCR)-activated protein tyrosine kinase pathway. The encoded protein associates with growth factor receptor bound protein 2, and is thought to play a role TCR-mediated intracellular signal transduction. A similar protein in mouse plays a role in normal T-cell development and activation. Mice lacking this gene show subcutaneous and intraperitoneal fetal hemorrhaging, dysfunctional platelets and impaired viability. [provided by RefSeq, Nov 2016]

**Product images:**



Circular map for RG204404