

## Product datasheet for **RG204846**

### **SMPDL3B (NM\_001009568) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SMPDL3B (NM_001009568) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SMPDL3B
Synonyms:	ASML3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204846 representing NM_001009568 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGGCTGCTCGCCTGGCTGATTTTCCTGGCTAACTGGGGAGGTGCCAGGGCTGAACCAGGGAAGTTCT  
GGCACATCGCTGACCTGCACCTTGACCCGACTACAAGGTATCCAAGACCCCTCCAGGTGTGCCATC  
AGCTGGATCCCAGCCAGTGCCCGACGCAGGCCCTGGGGTACTACCTCTGTGATTCTCCCTGGGCCCTC  
ATCAACTCCTCCATCTATGCCATGAAGGAGATTGAGCCAGAGCCAGACTTCATTCTGGACTGGTGATG  
ACACGCCTCATGTGCCGATGAGAACTGGGAGAGGCAGCTGTACTGGAAATTGTGGAACGCCTGACCAA  
GCTCATCAGAGAGGTCTTCCAGATACTAAAGTCTATGCTGCTTTGGGAAATCATGATTTTCACCCAAA  
AACCAGTTCCCAGCTGGAAGTAACAACATCTACAATCAGATAGCAGAATGGAACCCCTGGCTTAGTA  
ATGAGTCCATCGCTCTCTCAAAAAAGGTGCCTTCTACTGTGAGAAGCTGCCGGGTCCCAGCGGGCTGG  
GCGAATTGTGGTCTCAACACCAATCTGTACTATACCAGCAATGCGCTGACAGCAGACATGGCGGACCT  
GGCCAGCAGTTCCAGTGGCTGGAAGATGTGCTGACCGATGCATCCAAGCTGGGGACATGGTGTACATTG  
TCGGCCACGTGCCCGGGTCTTTGAGAAGACGCAAAACAAGGCATGGTCCGGGAGGGCTTCAATGA  
AAAATACCTGAAGTGGTCCGGAAGCATCATCGCGTCATAGCAGGGCAGTTCTTCGGGCACCACCACCC  
GACAGCTTTCGGATGCTCTATGATGATGCAGGTGTCCCATCAAGGCCATGTTTCACACCTGGAGTCA  
CCCCATGGAAAACACATTACCTGGAGTGGTCAATGGGGCCAACAATCCAGCCATCCGGGTGTTCAATA  
TGACCGAGCCACACTGAGCCTGAAGGTCAGGAGTCTGCGGAGGCCAGAGGAGGAGGGTGGGAGGGCTT  
AAATGCATCACCACCTCCCTCACTCTCAGCTTATCCACCTCCCTGACCACTGAGCCTCAGGAAGGT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204846 representing NM\_001009568  
 Red=Cloning site Green=Tags(s)

MRLLAWLIFLANWGGARAEPGKFWHIADLHLDPDYKVKSKDPFQVCP SAGSQPVPDAGPWGDYLCDSPWAL  
 INSSIIYAMKEIEPEPDFILWTGDDTPHPVDEKLGAAVLEIVERLTKLIREVFPDTKVYAALGNHDFHPK  
 NQFPAGSNNIYNQIAELWKPWLSNESIALFKKGAFYCEKLPGPSGAGRIVVLNTNLYYTSNALTADMADP  
 GQQFQWLEDVLT DASKAGDMVYIVGHVPPGF FEKTQNKAWFREGFNEKYLKVVRKHHRVIAGQFFGHHHT  
 DSFRMLYDDAGVPI SAMFITPGVTPWKTTLPGVVNGANNPAIRVF EYDRATLSLKVRS PAEARGGGWEGL  
 KCITTFPHSQLIHLPLTTEPQEG

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001009568

**ORF Size:** 1119 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\\_001009568.2](#)

**RefSeq Size:** 1611 bp

**RefSeq ORF:** 1122 bp

**Locus ID:** 27293

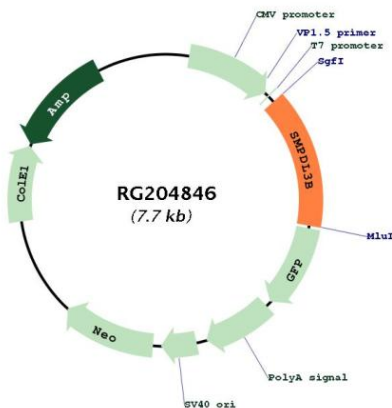
**UniProt ID:** [Q92485](#)

**Cytogenetics:** 1p35.3

**Protein Families:** Secreted Protein

**Gene Summary:** Lipid-modulating phosphodiesterase (PubMed:26095358). Active on the surface of macrophages and dendritic cells and strongly influences macrophage lipid composition and membrane fluidity. Acts as a negative regulator of Toll-like receptor signaling (By similarity). Has in vitro phosphodiesterase activity, but the physiological substrate is unknown (PubMed:26095358). Lacks activity with phosphocholine-containing lipids, but can cleave CDP-choline, and can release phosphate from ATP and ADP (in vitro) (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG204846