

Product datasheet for **SC108594**

SMPDL3B (NM_014474) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMPDL3B (NM_014474) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMPDL3B
Synonyms:	ASML3B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC108594 sequence for NM_014474 edited (data generated by NextGen Sequencing)

```
ATGAGGCTGCTCGCTGGCTGATTTTCCTGGCTAACTGGGGAGGTGCCAGGGCTGAACCA
GGTAAGTTCTGGCACATCGCTGACCTGCACCTTGACCCTGACTACAAGGTATCCAAGAC
CCCTTCCAGGTGTGCCATCAGCTGGATCCCAGCCAGTGCCCGACGCAGGCCCTGGGGT
GACTACCTCTGTGATTCTCCCTGGGCCCTCATCAACTCCTCCATCTATGCCATGAAGGAG
ATTGAGCCAGAGCCAGACTTCATTCTCTGGACTGGTGATGACACGCCTCATGTGCCCGAT
GAGAAACTGGGAGAGGCAGCTGTACTGGAAATTGTGGAACGCCTGACCAAGCTCATCAGA
GAGGTCTTTCCAGATACTAAAGTCTATGCTGCTTTGGGAAATCATGATTTTCACCCAAA
AACCAGTCCCAGCTGGAAGTAACAACATCTACAATCAGATAGCAGAAGTATGGAACCC
TGGCTTAGTAATGAGTCCATCGCTCTCTTCAAAAAGGTGCCTTCTACTGTGAGAAGCTG
CCGGTCCCAGCGGGCTGGGCGAATTGTGGTCTCAACACCAATCTGACTATAACCAGC
AATGCGCTGACAGCAGACATGGCGGACCCTGGCCAGCAGTTCAGTGGCTGGAAGATGTG
CTGACCGATGCATCCAAAGCTGGGGACATGGTGTACATTGTGCGCCACGTGCCCCGGGG
TTCTTTGAGAAGACGCAAAACAAGGCATGGTTCGGGAGGGCTTCAATGAAAAATACCTG
AAGGTGGTCCGGAAGCATCATCGCTCATAGCAGGGCAGTTCCTCGGGCACCACCACACC
GACAGCTTTCCGGATGCTCTATGATGATGCAAGGTGTCCCCATAAGCGCCATGTTATCACA
CCTGGAGTCACCCATGGAACCAACATTACCTGGAGTGGTCAATGGGGCCAACAATCCA
GCCATCCGGGTGTTTCAAATATGACCCGAGCCACACTGAGCCTGAAGGACATGGTGACCTAC
TTCATGAACCTGAGCCAGGCGAATGCTCAGGGGACGCCGCGCTGGGAGCTCGAGTACCAG
CTGACCCAGGCCTATGGGGTCCCGGACGCCAGCGCCACTCCATGCACACAGTGTGGAC
CGCATCGCTGGCAGCAGACACTGCAGCGCTACTACGTCTATAACTCAGTCAGTAC
TCTGCTGGGGTCTGCGACGAGGCTGCAGCATGCAGCAGTGTGTGCCATGCGCCAGGTG
GACATTGACGCTTACACCACCTGTGTATGCCTCTGGCACCACGCCCGTCCCCAGCTC
CCGCTGCTGCTGATGGCCCTGCTGGGCCTGTGCACGCTCGTGCTGTGA
```

Clone variation with respect to NM_014474.2

63 g=>t

5' Read Nucleotide Sequence:

```
>OriGene 5' read for NM_014474 unedited
GATTTTGTAAACGACTCACTATAGGGCGGCCCGCAATTTCGCACGAGGACGCCTTGAG
GACTTGGAACACCTGTAACAGGACAAGGAGTCTGCTCCGGCACGTGGCCACAGAAAAC
ACTTAGGAAGCCTGTGGTGAGAACAAACAGTGCCTGGAGAATCCCACGGCTCTGGGGA
AGTGAGCCCCGAGGATGAGGCTGCTCGCTGGCTGATTTTCTGGCTAACTGGGGAGGTG
CCAGGGCTGAACCAGGTAAGTTCTGGCACATCGCTGACCTGCACCTTGACCCTGACTACA
AGGTATCCAAAGACCCCTTCCAGGTGTGCCATCAGCTGGATCCCAGCCAGTGCCCGACG
CAGGCCCTGGGGTACTACCTCTGTGATTCTCCCTGGGCCCTCATCAACTCCTCCATCT
ATGCCATGAAGGAGATTGAGCCAGAGCCAGACTTCATTCTCTGGACTGGTGATGACACGC
CTCATGTGCCGATGAGAACTGGGAGAGGCAGCTGACTGGAATTTGTGGAACGCTGA
CCAAGCTCATCAGAGAGGTCTTTCCAGATACTAAAGTCTATGCTGCTTTGGGAAATCATG
ATTTTACCCCAAAAACAGTTCAGCTGGAAGTAACAACATCTACAATCAGATAGCAG
AACTATGGAACCCCTGGCTTAGTAATGAGTCCATCGCTCTCTTCAAAAAGGTGCCTTCTA
CTGTGAGAAGCTGCCGGTCCCAGCGNGCTGGGCGAATTGTGGTCTCACACCAATCTG
TACTATANCCAGCATGCGCTGACAGCAGACATGGCGGACCCTGGCCAGCAGTTCAGTGG
CTGGAAGATGTGCTGACCGATGCATCCAAGCT
```

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_014474 unedited CGCATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAAACGCATGATGAGCTTTGTTTTGT GAGTAAAACATAATACGCAAAAGAAGTATGCTTGTAGGGGGTCTTGGGTCGTCATTTCT TTTCTGTTTCTGGTTTGTTTTTGGAGAGAGTCTGGCTTTGTCGCCAGGCTGGAGTGCAG TGGCGGATCACGGATGGCTGCAGCTCCTGGGGCTTCGCTTCTGATTTCGGTTGCCTAT TTCAGTTCACCTCCTCAGGCGGGAGGAAATGGTGAAGGCCAGCTCTGGGTGATCCTGG GCGTGCCCGTTACCCGTTACCAGGAAGAAGGTGAGCCTGGCAGGTCACAGCACGAGC GTGCCACAGGCCAGCAGGGCCATCAGCAGCAGCGGGAGCTGGGCACGGTCGTGGTGCC AGAGGCATACAGACAGGTGGTGAAGCGTCAATGTCCACCTGGCGCATGGCACACACGTG CTGCATGCTGCAGGCTCGTCGACAGCCCCAGCAGAGTAGCTGACTGAGTTATAGACGTA GTACCGTGCAGTGTGCTCTGGTCGCCAGCGATGCGGCCAGCACTGTGTGCATGGAGTG GGCGTGGCGTTCGACCCCCATTAGCCTCGTCCAGCTGTCCCTCGAGCTCCAGCGCGG GCGTCCCCTGAGCATTCCCCTGGCTCAGGCTCATGAAGTAAGTCACCATGCCCTCAGGC TCAGTGTGGCTCGGTCATATTCACACCCGGATGGTTGGATTGTGGCCCCATTGCCCTC CAGNTANTGTGGTTTCTGGGGTACTCCAGGGGATGACATGCGCTTATGGGAACCTGC TTATCTAAACATCAAAGCTGTGGTGTGTGTGCCCAACCCGCTTGTGACCGAGATGC TCCGACCTTCAGCTTTTATTGACCTCCGGACCTGCTTGTTCGCTTTTTAAGAACC CGTGTC
Restriction Sites:	NotI-NotI
ACCN:	NM_014474
Insert Size:	1960 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_014474.2</u> , <u>NP_055289.2</u>
RefSeq Size:	1890 bp
RefSeq ORF:	1368 bp
Locus ID:	27293
UniProt ID:	<u>Q92485</u>
Cytogenetics:	1p35.3
Domains:	Metallophos

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]
Transcript Variant: This variant (1) encodes the longest isoform (1).