

## Product datasheet for **MR207286**

### **Smpdl3b (NM\_133888) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Smpdl3b (NM_133888) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smpdl3b
Synonyms:	1110054A24Rik; Asml3b; AU045240
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR207286 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACGCTGCTCGGGTGGCTGATATTCCTGGCCCCCTGGGGAGTCGCAGGGGCTCAACTAGGGAGTTCT  
 GGCACATCTCCGACCTGCATCTGGACCCCAACTACACCGTATCCAAAGACCCCTCCAGGTGTGCCGTC  
 GGCCGGCTCCCAGCCTGTGCTAAATGCTGGCCCCCTGGGGGACTACCTCTGCGATTCTCCTTGGGCCCTT  
 ATCAACTCGTCTTGTATGCCATGAAGGAGATTGAACCAAAGCCTGACTTCATTCTCTGGACAGGGGACG  
 ACACACCCGACGTCCCAATGAGAGTCTAGGAGAGGCAGCTGTCTGGCAATTGTGGAACGCTTGACCAA  
 CCTCATCAAGGAAGTCTTCCAGACACTAAAGTCTATGCTGCTCTGGGAAATCATGACTTCCACCCTAAG  
 AACCGTTCACAGCAGAGCAACCGCATCTATAACAGGTGGCAGAGCTGTGGAGACCCTGGCTTAGTA  
 ACGAATCTACGCTCTCTTCAAAGAGGTGCCTTCTATTCTGAGAAGTTCCGGGTCCAGCAGGGCGGG  
 GCGAGTTGTGGTCTCAACACCAATCTGTACTACAGCAACAACGAGCAGACAGCTGGCATGGCTGACCCC  
 GCGAGCAGTTCGGTGGCTGGGAGATGTCTGAGCAATGCATCTCGGATGGGGAGATGGTGTATGTTA  
 TTGGCCACGTGCCCGGGTCTTTGAGAAGACAGACAAGGCCTGGTTCGAGAGAGCTTCAATGA  
 GGAGTATCTGAAGGTGATCCAGAAGCACCATCGGGTCATAGCGGGGACAGTTCTTTGGACACCACCATACC  
 GACAGTTCGGAATGTTCTATGACAACACAGGTGCCCCATAAACGTCATGTTTCTCACACCCGGGGTCA  
 CACCGTGAAGACCACATTACCTGGAGTGGTCGATGGGGCCAACAATCCAGGGATACGCATTTTCGAGTA  
 TGATCGAGCCACACTCAACTGAAGGACTTGGTGACTTACTTCTGAACCTGAGGCAGGCGAATGTACAA  
 GAGACCCACGGTGGGAGCAGGAGTACCGCTGACGGAGGCCTACCAGGTGCCGGATGCCAGCGTCAGCT  
 GCATGCACACGGCGTGACCCGATTGCCAGTGAAGCCTACATCCTGCAACGTTATTACGCTATAAATC  
 GGTGAGTACAACCATTTGACCTGTGAGGACAGCTGCCGATCGAGCAGTTCGCTATACAACACGCTG  
 GCTTTCAACACTTATGCTACCTGCTTGCATGGTCTTGGTGCCAAGCTGGTGCCTGGTTTCTGCTCATA  
 TGACTCTGCTGCCAAGCCTGCACGACTGGAGGTGTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207286 protein sequence  
 Red=Cloning site Green=Tags(s)

MTLLGWLIFLAPWGVAGAQLGRFVHISDLHLDPNYTVSKDPLQVCP SAGSQPVLNAGPWGDYLCDSPWAL  
 INSSLYAMKEIEPKPDFILWTGDDTPHVPNESLGEAAVLAIVERLTNLIKEVFPDTKVYAALGNHDFHPK  
 NQFPAQSNRIYNQVAELWRPWL SNESYALFKRGAFYSEKLPGPSRAGR VVVLNTNL YSNNEQTAGMADP  
 GEQFRWLG DVL SNASRDGEMVYVIGHVPPGF FEKTQNKAWFRESFNEEYLVKVIQKHHRVIAQFFGHHHT  
 DSFRMFYDNTGAPINVMFLTPGVTPWKTTLPGVVDGANNPGIRIF EYDRATLNLKDLVTFYFLNLRQANVQ  
 ETPRWEQEYRLTEAYQVPDASVSSMHTALTRIASEPHILQRYVYVNSVSYNHLTCEDESCRIEHVCAIQHV  
 AFNTYATCLHGLGAKLVPGFLLILTLPLSLHVLEVL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_133888

**ORF Size:** 1371 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\\_133888.1](#)

**RefSeq Size:** 1925 bp

**RefSeq ORF:** 1371 bp

**Locus ID:** 100340

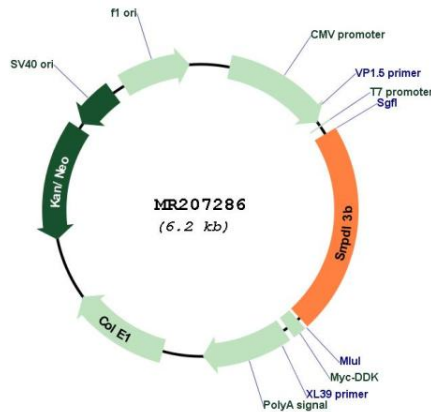
**UniProt ID:** [P58242](#)

**Cytogenetics:** 4 D2.3

**MW:** 51.6 kDa

**Gene Summary:** Lipid-modulating phosphodiesterase. Active on the surface of macrophages and dendritic cells and strongly influences macrophage lipid composition and membrane fluidity (PubMed:26095358). Acts as a negative regulator of Toll-like receptor signaling (PubMed:26095358, PubMed:27687724). Has in vitro phosphodiesterase activity, but the physiological substrate is unknown (PubMed:26095358, PubMed:27687724). Lacks activity with phosphocholine-containing lipids, but can cleave CDP-choline, and can release phosphate from ATP and ADP (in vitro) (PubMed:27687724).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR207286