

Product datasheet for **MG207286**

Smpdl3b (NM_133888) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpdl3b (NM_133888) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Smpdl3b
Synonyms:	1110054A24Rik; Asml3b; AU045240
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207286 representing NM_133888
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGCTGCTCGGGTGGCTGATATTCCTGGCCCCCTGGGGAGTCGCAGGGGCTCAACTAGGGAGTTCT
 GGACATCTCCGACCTGCATCTGGACCCCAACTACACCGTATCCAAAGACCCCTCCAGGTGTGCCCGTC
 GGCCGGCTCCCAGCCTGTGCTAAATGCTGGCCCCCTGGGGGACTACCTCTGCGATTCTCCTTGGGCCCTT
 ATCAACTCGTCTTGTATGCCATGAAGGAGATTGAACCAAGCCTGACTTCATTCTCTGGACAGGGGACG
 ACACACCCGACGTCCCAATGAGAGTCTAGGAGAGGCAGCTGTGCTGGCAATTGTGGAACGCTTGACCAA
 CCTCATCAAGGAAGTCTTCCAGACACTAAAGTCTATGCTGCTCTGGGAAATCATGACTTCCACCCTAAG
 AACCGTCCCAGCACAGAGCAACCGCATCTATAACAGGTGGCAGAGCTGTGGAGACCCTGGCTTAGTA
 ACGAATCTACGCTCTCTTCAAAGAGGTGCCTTCTATTCTGAGAAGTTCCGGGGTCCCAGCAGGGCGGG
 GCGAGTTGTGGTCTCAACACCAATCTGTACTACAGCAACAACGAGCAGACAGCTGGCATGGCTGACCCC
 GCGAGCAGTTCCGGTGGCTGGGAGATGTCTGAGCAATGCATCTCGGGATGGGGAGATGGTGTATGTTA
 TTGGCCACGTGCCCCCGGGTCTTTGAGAAGACAGACAAGGCCTGGTTCGAGAGAGCTTCAATGA
 GGAGTATCTGAAGGTGATCCAGAAGCACCATCGGGTCATAGCGGGGACAGTTCTTTGGACACCACCATAAC
 GACAGTTCGGAATGTTCTATGACAACACAGGTGCCCCATAAACGTCATGTTTCTCACACCCGGGGTCA
 CACCGTGGAAAGACCACATTACCTGGAGTGGTTCGATGGGGCCAACAATCCAGGGATACGCATTTTCGAGTA
 TGATCGAGCCACACTCAACTGAAGGACTTGGTGACTTACTTCTTGAACCTGAGGCAGGCGAATGTACAA
 GAGACCCACGGTGGGAGCAGGAGTACCGCCTGACGGAGGCCTACCAGGTGCCGGATGCCAGCGTCAGCT
 CCATGCACACGGCGCTGACCCGATTGCCAGTGAAGCCTCACATCCTGCAACGTTATTACGCTATAACTC
 GGTGAGTACAACCAATTTGACCTGTGAGGACAGCTGCCGATCGAGCACGTTTGTGCTATACAACACGTTG
 GCTTTCAACACTTATGCTACCTGCTTGCATGGTCTTGGTGCCAAGCTGGTGCCTGGTTTCTGCTCATA
 TGACTCTGCTGCCAAGCCTGCACGACTGGAGGTGTTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207286 representing NM_133888
 Red=Cloning site Green=Tags(s)

MTLLGWLIFLAPWGVAGACLGRFVHISDLHLDPNYTVSKDPLQVCP SAGSQPVLNAGPWGDYLCDSPWAL
 INSSLYAMKEIEPKPDFILWTGDDTPHPNESLGEAAVLAIVERLTNLIKEVFPDTKVYAALGNHDFHPK
 NQFPAQSNRIYNQVAELWRPWL SNESYALFKRGAFYSEKLPGPSRAGR VVVLNTNLYSNNEQTAGMADP
 GEQFRWLG DVL SNASRDGEMVYVIGHVPPGF FEKTQNKAWFRESFN EEEYLVKVIQKHHRV IAGQFFGHHHT
 DSFRMFYDNTGAPINVMFLTPGVTPWKTTLPGVVDGANNPGIRIF EYDRATLNLKDLVTYFLNLRQANVQ
 ETPRWEQEYRLTEAYQVPDASVSSMHTALTRIASEPHILQRYVYVNSVSYNHLT CEDSCRIEHVCAIQHV
 AFNTYATCLHGLGAKLVPGFLLILTLPLSLHVLEVL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_133888

ORF Size: 1368 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

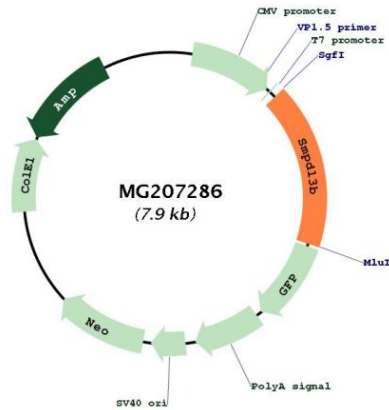
UniProt ID: [P58242](#)

Cytogenetics: 4 D2.3

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 MG207286