

Product datasheet for **MC200262**

Smpd13b (NM_133888) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpd13b (NM_133888) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Smpd13b
Synonyms:	1110054A24Rik; Asml3b; AU045240
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC009087 sequence for NM_133888
 CTTGGAACACTGGAAGCAGCCAAACGAGTAGTTCTGCCAGACACGTGGCTGGCCACAAGGTGGGAACCC
 ACGGCGCAGACGGACTTGGAGGAGCTTCGGCCGCCCGCGTGGGGGGATCCAGAGGATGACGCTGCTCGG
 GTGGCTGATATTCCTGGCCCCCTGGGGAGTCGACAGGGCTCAACTAGGGAGGTTCTGGCACATCTCCGAC
 CTGCATCTGGACCCCACTACACCGTATCCAAAGACCCCTCCAGGTGTGCCCGTGGCCCGGCTCCCAGC
 CTGTGCTAAATGCTGGCCCCCTGGGGGACTACCTCTGCGATTCTCCTTGGGCCCTTATCAACTGTCTCTT
 GTATGCCATGAAGGAGATTGAACCAAAGCCTGACTTCATTCTCTGGACAGGGGACGACACACCCGACGTC
 CCCAATGAGAGTCTAGGAGAGGCAGCTGTGCTGGCAATTGTGGAACGCTTGACCAACCTCATCAAGGAAG
 TCTTTCCAGACACTAAAGTCTATGCTGCTCTGGGAAATCATGACTTCCACCCTAAGAACCAGTTCACGAC
 ACAGAGCAACCGCATCTATAACCAGGTGGCAGAGCTGTGGAGACCCTGGCTTAGTAACGAATCCTACGCT
 CTCTTCAAAGAGGTGCCTTCTATTCTGAGAAGTTGCCGGTCCCAGCAGGGCGGGGCGAGTTGTGGTCC
 TCAACACCAATCTGTAACAGCAACAACGAGCAGACAGCTGGCATGGCTGACCCCGGCGAGCAGTTCCG
 GTGGCTGGGAGATGCTCTGAGCAATGCATCTCGGGATGGGAGATGGTGTATGTTATTGGCCACGTGCC
 CCGGGTTCTTTGAGAAGACACAGAACAAGGCCTGGTTCCGAGAGAGCTTCAATGAGGAGTATCTGAAGG
 TGATCCAGAAGCACCATCGGGTCATAGCGGGCAGTTCTTTGGACACCACCATACCGACAGCTTCCGAAT
 GTTCTATGACAACACAGGTGCCCCATAAACGTCATGTTTCTCACACCCGGGTCACACCGTGAAGACC
 ACATTACCTGGAGTGGTCGATGGGGCAACAATCCAGGGATACGCATTTTCGAGTATGATCGAGCCACAC
 TCAACTGAAGGACTTGGTGACTTACTTCTTGAACCTGAGGCAGGCGAATGTACAAGAGACCCACGGTG
 GGAGCAGGAGTACCGCTGACGGAGGCCTACCAGGTGCCGGATGCCAGCGTCAGCTCCATGCACACGGCG
 CTGACCCGATTGCCAGTGAGCCTCACATCCTGCAACGTTATTACGTCTATAACTCGTCCAGCTACAACC
 ATTTGACTGTGAGGACAGCTGCCGCATCGAGCACGTTTGTGCTATAACAACAGTGGCTTTCAACTTA
 TGCTACCTGCTTGCATGGTCTTGGTGCCAAAGCTGGTGCCTGGTTTCTGCTCATACTGACTCTGTGCCA
 AGCCTGCACGTAAGGAGTGTATGACTGTAGGCACTGCCAGCCACCCACTGACTTGGTTCATCTTTC
 TCCTGGTAAAATTGGGCAACGTTACCCAATGGAGAGAGATGAACTTTTGCCATCAGTCTCCCCCGCGGA
 GAGTAAAGTGGGATGGGACACCTGGATTACCAGAGAGGGCGCTAAGAAGCACAATTTCTTCCAAGTTTC
 ATGTTTTATCCACAAAATTGTTTGCGGTACATGTCTTGGTGCATTATTCGCTTTAATACAAACATATCA
 AACCCATGAACCTTATCACCACAGTGAAGTGAAGCCGACGGGAAGATGGGCCTTGGAGATTCTGTGCTT
 TCGATGTAGTCCCTGCTCAAGGTCTGAAGTGGGAAACGTACGTGGTGTGCAAAACCCCTTAGTACTTTTAA
 ATAAAAGACTTTTTGATTTGGTTTTGCAACAGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_133888

Insert Size: 1371 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:**
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: [BC009087](#), [AAH09087](#)

RefSeq Size: 1948 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]