

Product datasheet for **MR214746**

Smpdl3a (NM_020561) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Smpdl3a (NM_020561) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smpdl3a
Synonyms:	0610010C24Rik; AI529588; ASM3A; ASML3; ASML3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR214746 representing NM_020561
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGTTGCTGGCAACTTCCTTTGCTGCCTACTGGTTGCCTGGCTCTGCGGCCGGGGCTCGGGGTGC
 CCCTGGCGCCGGCGGATCGCGCCCCAGCTGTGGGCAGTTTTGGCACGTGACTGACTTACATCTAGACCC
 TACTTACCACATTACAGATGACCGTACCAAGGTGTGTGCTTCATCTAAAGGCGCAAAATGCCTCCAACCT
 GGGCCTTCGAGATGTCTGTGTGACTCTCCATATCACTTATTTTGTGAGCCTTTGATTTTATTAAGA
 ATTCAGGACAAGAAGCATCTTTCATGATATGGACAGGGGATAGCCACCTCATGTGCCAGTACCTGAACT
 CTCCACAGGCACCGTGATAAAGGTGATCACTAACATGACAATGACTGTCCAGAACCTGTTCCAAACCTC
 CAGGTTTTCCCTGCACTGGGCAATCATGACTACTGGCCACAGGACCAGCTGCCAATAGTCACCAGTAAGG
 TCTACAGTGTGGCTGACCTCTGAAACCCTGGCTGGGTGAAGAAGCTATTAGCACTTAAAGAAAGG
 TGGTTTTACTCACAGAAAGTTGCAAGTAATCCAGGCTTGAGGATCATTAGCCTAAACACAAACTGTAC
 TATGGCCCAAACATCATGACCCTGAACAAGACAGCCAGCAAATCAGTTTGAATGGCTGGAAAATACAC
 TCAACAGCTCTCTATGGAATAAGGAGAAGGTATACATCATAGCGCATGTTCCAGTGGGCTATCTCCCTTA
 TGCAACTGACACCCCGCGATAAGGCAGTACTATAATGAGAACTGCTTGATATTTTTCAGAAAGATACAGC
 TCCGTCATTGCGGGACAGTTCTATGGCCACACCCATAGAGACAGCCTTATGGTCTTTTCAGATAAAACG
 GGAATCCACTCAATTCTGTGTTGTGGCACCTGCTGTTACACCAGTGAAGGAGTTTTACAAAAGGAGAC
 CAACAATCCCGGTGTCCGCTATTTTCAGTACAAGCCTGGTATTACACATTGCTGGACATGGTGCAGTAT
 TACTTGAACCTTGACAGAAGCCAATCTAAAAGGAGAATCCAACCTGGACATTGGAGTATGCTTACTCAGG
 CCTACAGTGTTCAGATCTGCAGCCAAAGAGTTTATATGCCTTAGTTTTCAGCAATTTGCCACCAAAGACAG
 CAAGCAGTTCTGAAATACTACCATTATTTTGTGAGTTATGACAGCAGTGCAACTTGTGACCAGCAT
 TGTAAGACCTTACAGGTCTGTGCAATTATGAATCTTGATAGCATGTCCTATGATGATTGCCTTAAACAGC
 ATTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR214746 representing NM_020561
 Red=Cloning site Green=Tags(s)

MALLGNFLCCLLVAVLWCGPLGVPLAPADRAPVGFVHWVTDLHLDPTYHITDDRTKVCASSKGANASNP
 GPFGDVLCDSPLYQLILSAFDFIKNSGQEASFMIWTGDSPPHVPVPELSTGTVIKIVITNMTMTVQNLFPNL
 QVFPALGNHDYWPQDQLPIVTSKVYSAVADLWKPWLGEEAISTLKKGGFYSQKVASNPGLRIISLNTNLY
 YGPNIMTLNKTDPANQFEWLENTLNSSLWNKEKVVYIIAHVPVGYLPYATDTPAIRQYNEKLLDIFRRYS
 SVIAGQFYGHTRDSLMLVSDKNGNPLNSVFVAPAVTPVKGLQKETNPGVRLFYKPGDYTLTDMVQY
 YLNLTEANLKGESNWTLEYVLTAQYSVADLQPKSLYALVQQFATKDSKQFLKYYHYFVSYDSSATCDQH
 CKTLQVCAIMNLDMSYDDCLKQHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9006_c01.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_020561

ORF Size: 1335 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_020561.2](#), [NP_065586.3](#)

RefSeq Size: 1791 bp

RefSeq ORF: 1338 bp

Locus ID: 57319

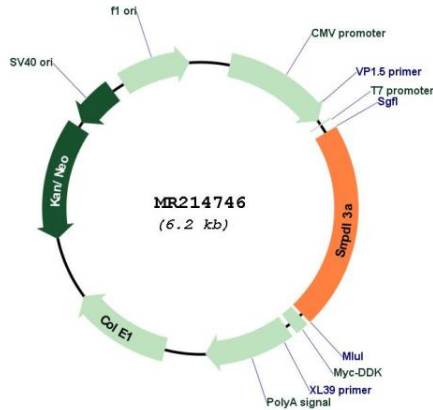
UniProt ID: [P70158](#)

Cytogenetics: 10 B4

MW: 50.3 kDa

Gene Summary: Has in vitro nucleotide phosphodiesterase activity with nucleoside triphosphates, such as ATP (PubMed:26792860). Has in vitro activity with p-nitrophenyl-TMP. Has lower activity with nucleoside diphosphates, and no activity with nucleoside monophosphates. Has in vitro activity with CDP-choline, giving rise to CMP and phosphocholine. Has in vitro activity with CDP-ethanolamine. Does not have sphingomyelin phosphodiesterase activity (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR214746