

## Product datasheet for **RR213466**

### Smpdl3a (NM\_001005539) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Smpdl3a (NM_001005539) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Smpdl3a
Synonyms:	MGC95161
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR213466 representing NM\_001005539  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTTGCCGGCACTTCTCTGCTGCTGCTGGTTGCCTGGCTCTGCGATCCGGGGCTCGGGGTGC  
 CCTTGGCGCCCGGTATGGCGCCCCAGCTGTGGGCAATTTTGGCACGTGACTGACTTACATCTAGACCC  
 TACTTACCACATTACAGATGACCATAACAAAGTCTGTGCTTCATCTAAAGGTGCAAAATGTCTCCAATCCC  
 GGCCCTTTTGGAGATGTCTGTGTGACTCTCCATATCAACTTATTTTATCAGCCTTTGATTTTATTAAGA  
 ATTCAGGACAAGAAGCATCTTTCATGATATGGACAGGGGACAGCCACCTCATGTCCCAGTACGTGAAC  
 GTCCACAGGCTCTGTTATAGAGGTGATCACTAACATGACAGTACTGTCCAGAACCTGTTCCAAACCTC  
 CAGGTTTTCCCTGCACTGGGCAATCATGACTACTGGCCACAGGACCAGCTGCCAATAGCCACCAGTAAGG  
 TCTACAGTGTCTCAGTACCTCTGAAACCCTGGCTTGATGAAGAAGCTATTAGCACTTAAGGAAAGG  
 TGGTTTTACTCACAGAAAGTTGCAAGTAATCCAGACTTGAGGATCATTAGCCTAAACACAAACTGTAC  
 TATGGCCCAAATATCATGACCCTGAACAAGACAGCCAGCAAATCAGTTTGAATGGCTGGAAAATACAC  
 TCAACAGCTCTCTGCGAAATAAGGAGAAGGTATACGTCATAGCACATGTGCCAGTGGGCTATCTCCCTTA  
 TGCAACCAAGACCCAGCAATGAGGCGTACTATAATGAGAACTGGTTGATATTTTTCAGAAAGATACAGC  
 TCCGTTATTGCCGGACAGTTCTATGGCCACACCCATAGAGACAGCCTTATGGTCTTTTCAGATAAAAACG  
 GTAATCCAATAAATTCTGTGTTTGTGGCACCTGCTGTTACACCAGTGAAGGAGTTTTAGAAAAAGAGAC  
 CAACAATCCTGGCGTCCGCTCTGTTTCAGTACAAGCCTGGTGATTACACTGTGGACATGTTGCAGTAT  
 TACTTGAACCTTGACAGAAGCCAATCTAAAAGGAGAATCCAATTGGACCCTGGAGTACACCTTGACTCAGG  
 CCTATGGTGTGCGAGACCTGCAGCCAAAGAGCTTACATGGATTAGCTCAGCAGCTTGCTACCATAGACAG  
 CAAGCAGTTCTGAAATACTACCATTATTTTTTTGTGAGTTATGACAGCAGCGCACCTTGTGATCAACGA  
 TGTAAGACCTTACAGATATGTGCAATTATGAATCTTGACCTGTTTCTATGAGGATTGCCTTAAACGAC  
 ATTTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213466 representing NM\_001005539  
 Red=Cloning site Green=Tags(s)

MALPGNFLCCLLVAWLCDPGLGVPLAPAYGAPAVGQFWHVTDLHLDPTYHITDDHTKVCASSKGANVSNP  
 GPFGDVLCDSPLYQLILSAFDFIKNSGQEASFMIWTGDSPPHVPVRELSTGVSIEVITNMTVTVQNLFPNL  
 QVFPALGNHDYWPQDQLPIATSKVYSVSDLWKPWLDEEAISTLRKGGFYSQKVASNPDLRIISLNTNLY  
 YGPNIMTLNKTDPANQFEWLENTLNSSLRNKEKVVYVIAHVPVGYLPYATKTPAMRQYYNEKLVDFRYS  
 SVIAGQFYGHTRDSLMLVSDKNGNPINSVFVAPAVTPVKGVLEKETNPNPQVRLFQYKPGDYTLDDMLQY  
 YLNLTEANLKGESNWTLEYTLTQAYGVADLQPKSLHGLAQQLATIDSKQFLKYYHYFFVSYDSSAPCDQR  
 CKTLQICAIMNLDLVSIEDCLKRHL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

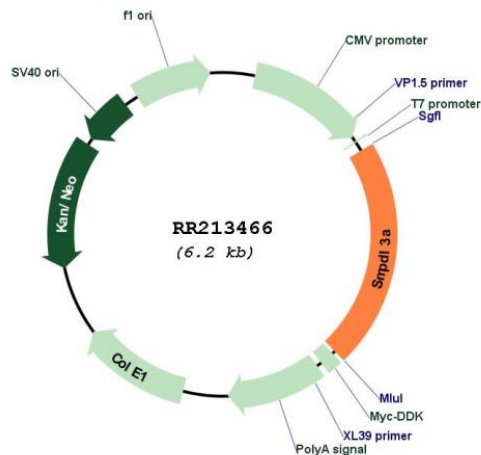
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001005539

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\\_001005539.1](#), [NP\\_001005539.1](#)

**RefSeq Size:** 1706 bp

**RefSeq ORF:** 1338 bp

**Locus ID:** 294422

**UniProt ID:** [Q641Z7](#)

**Cytogenetics:** 20q12

**MW:** 49.9 kDa

**Gene Summary:** Has in vitro nucleotide phosphodiesterase activity with nucleoside triphosphates, such as ATP. 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.[UniProtKB/Swiss-Prot Function]