

Product datasheet for **RG204332**

SMPDL3A (NM_006714) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SMPDL3A
Synonyms:	ASM3A; ASML3α; yR36GH4.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204332 representing NM_006714
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCTGGTGC GCGCACTCGTCTGCTGCCTGCTGACTGCCTGGCACTGCCGCTCCGGCCTCGGGCTGC
 CCGTGGCGCCCGCAGGCGGCAGGAATCCTCCTCCGGCGATAGGACAGTTTTGGCATGTGACTGACTTACA
 CTTAGACCCTACTTACCACATCACAGATGACCACACAAAAGTGTGTGCTTCATCTAAAGGTGCAATGCC
 TCCAACCTGGCCCTTTTGGAGATGTTCTGTGTGATTCTCCATATCAACTATTTTGTGAGCATTGATT
 TTATTAATAATTCTGGACAAGAAGCATCTTTCATGATATGGACAGGGGATAGCCACCTCATGTTCTCTGT
 ACCTGAACTCTCAACAGACACTGTTATAAATGTGATCACTAATATGACAACCAACATCCAGAGTCTCTTT
 CCAAACTCTCAGGTTTTCCCTGCGCTGGGTAATCATGACTATTGGCCACAGGATCAACTGCCTGTAGTCA
 CCAGTAAAGTGTACAATGCAGTAGCAACCTCTGGAACCATGGCTAGATGAAGAAGCTATTAGTACTTT
 AAGGAAAGGTGGTTTTTATTCACAGAAAGTTACAATAATCCAAACCTTAGGATCATCAGCTAAACACA
 AACTTGTACTACGGCCCAATATAATGACACTGAACAAGACTGACCCAGCCAACCAAGTTTGAATGGCTAG
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 TTGCAGTATTACTGAATCTGACAGAGGCGAATCTAAAGGAGAGTCCATCTGGAAGCTGGAGTATATCC
 TGACCCAGACCTACGACATTGAAGATTGACGCCGAAAGTTTATATGGATTAGCTAAACAATTTACAAT
 CCTAGACAGTAAGCAGTTTATAAAATACTACAATTACTTCTTTGTGAGTTATGACAGCAGTGAACATGT
 GATAAGACATGTAAGGCCTTTTCAAGATTTGTGCAATTATGAATCTTGATAATATTTCTATGCAGATTGCC
 TCAAACAGCTTTATATAAGCACAAATTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204332 representing NM_006714
 Red=Cloning site Green=Tags(s)

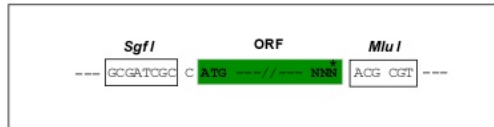
MALVRALVCCLLTAWHCRSGLGLPVAPAGGRNPPPAIGQFWHVTDLHLDPTYHITDDHTKVCASSKGAN
 SNPGPFQDVLCDSPYQLILSAFDFIKNSGQEASFMIWTGDSPPHPVPPELSTDVINVITNMTTTIQLS
 PNLQVFPALGNHDYWPQDQLPVVTSKVYNAVANLWKPWLDEEAISTLRKGGFYSQKVTNPNLRIISLNT
 NLYYGNIMTLNKTDPAHQFEWLESTLNNQQNKEKVYIIAHVPVGYLPSSQNITAMREYYNEKLIDIFQ
 KYSDVIAGQFYGHTRDSIMVLSKKGSPVNSLFAVAPVTPVKSVEKQTNNPGIRLFQYDPRDYKLLDM
 LQYYLNLTEANLKGESIWKLEYILTQTYDIEDLPESLYGLAKQFTILDSKQFIKYYNYFFVSYDSSVTC
 DKTCKAFQICAIMNLDNISYADCLKQLYIKHNY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGTACTAGTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---
 T R T R P L E M E S D - - -
 --- --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
 - - E E R V Stop

ACCN: NM_006714

ORF Size: 1359 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:

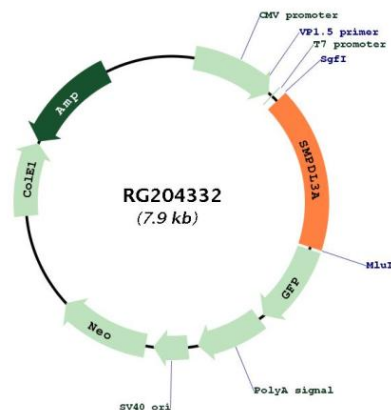
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_006714.5](#)

RefSeq Size:	1759 bp
RefSeq ORF:	1362 bp
Locus ID:	10924
UniProt ID:	Q92484
Cytogenetics:	6q22.31
Domains:	Metallophos
Protein Families:	Secreted Protein
Gene Summary:	Has in vitro nucleotide phosphodiesterase activity with nucleoside triphosphates, such as ATP (PubMed:25288789, PubMed:26783088). Has in vitro activity with p-nitrophenyl-TMP (PubMed:25288789). Has lower activity with nucleoside diphosphates, and no activity with nucleoside monophosphates (PubMed:25288789, PubMed:26783088). Has in vitro activity with CDP-choline, giving rise to CMP and phosphocholine. Has in vitro activity with CDP-ethanolamine (PubMed:26783088). Does not have sphingomyelin phosphodiesterase activity (PubMed:25288789, PubMed:26783088).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204332