

Product datasheet for **RR205018**

Degs2 (NM_001017457) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Degs2 (NM_001017457) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Degs2
Synonyms: RGD1305023
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205018 representing NM_001017457
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGC**C

ATGGGTAACAGCGCAGCCCGCAGCGACTTCGAGTGGGTCTACAGCGACCAGCCGCACACCCAGAGGGCGCA
AAGAGATGCTCGCCAAGTACCCATCCATCAAGGCCCTGATGCGGCCAGACCCCAACATCAAGTGGACCGT
GCTGGGAATGGTACTGGTGCAGGTGCTGGCCTGCTGGCTGGTACGGGGCTCTCTGGCGATGGTTGCTG
TTTTGGCCTATGCCTTTGGCGGCTGCATCAACCACTCACTGACTGGCCATCCATGACATCTCGCACA
ACACTGCCTTTGGCACACGCTGTGCCTCCCGCAACCGCTGGTTTGCCGCTTTGCTAATCTGCCATTGG
CCTACCTTACGCCACGCTCTTCAAAAAGTACCACGTGGACCACCATCGTTACCTGGGCGGAGACGGGCTG
GATGTGGATATCCCCACAGACTTCGAGGGCTGGTTCTTCTGCACACCGGCCCGCAAGCTGCTTTGGCTGG
TGCTTCAACCTTCTTCTACTCACTCAGGCCACTCTATGTGAACCCCAAGGCGGTGACGCGTATGGAGAT
CCTCAATGCCCTGGTGCAGTTGGCATTAAATGTCACCATCTTTGCCCTCTGGGGATCAAAGCCATAGTC
TACCTTCTAGCCAGCTCTCTCTGGCCTGGCCTGCACCCTATCTCTGGCCACTTCGTGGCAGAGCATT
ATATGTTCTGAAGGGCCACGAGACTCTCTACTATGGCCTCTCAACTGGATTACCTCAATGTTGG
CTACCAGTGGAACACCAGACTTCCCCAGCATCCCCGGTTGCTACCTGCCACTGGTACGGATGATTGCA
CCCGAATACTACGACCATCTGCCGACGACCACTCCTGGGTGAAAGTGCTCTGGGACTTCGTGTTTGAGG
ACTCTCTGGGACCCTACTCCAGGGTTAAGCGCAAGTGCAAGCTGGCGAAGGACCAGCTG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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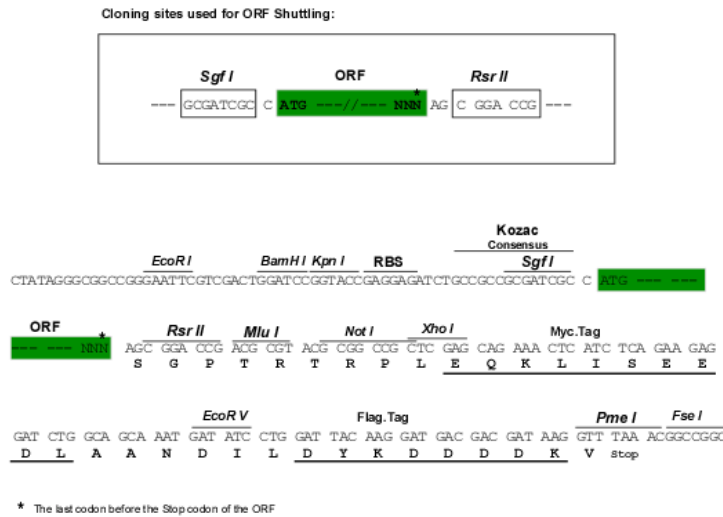
Protein Sequence: >RR205018 representing NM_001017457
 Red=Cloning site Green=Tags(s)

MGNSAARSDFEWVYSDQPHTRRKEMLAKYPSIKALMRPDPNIKWTVLGMVLVQVLACWLVRLSWRWLL
 FWAYAFGGCINHSLTLAIHDISHNTAFGTRCASRNRFVAVFANLPIGLPYATSFKKYHVDHHRYLGGDGL
 DVDIPTDFEGWFFCTPARKLLWLVLQPFYSLRPLYVNPKAVTRMEILNALVQLAFNVTIFALWGIIKAIY
 YLLASSLLGLGLHPI SGHFVAEHYMF LKGHETYSYYGPLN WITFNVGYHVEHDFPSIPGCYLPLVRMIA
 PEYYDHL PQHHSWVKVLWDFVFEDSLGPYSRVKRKCKLAKDQL

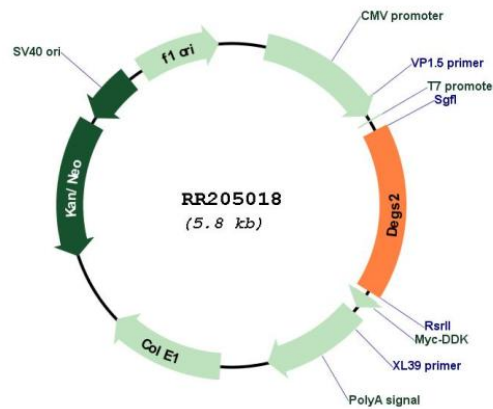
SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



Plasmid Map:



ACCN: NM_001017457

ORF Size: 969 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001017457.2](#), [NP_001017457.1](#)

RefSeq Size: 1317 bp

RefSeq ORF: 972 bp

Locus ID: 314438

UniProt ID: [Q564G3](#)

Cytogenetics: 6q32

MW: 37.4 kDa

Gene Summary: Bifunctional enzyme which acts as both a sphingolipid delta(4)-desaturase and a sphingolipid C4-monooxygenase.[UniProtKB/Swiss-Prot Function]