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Product datasheet for MG215282

Scd3 (NM_024450) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Scd3
Synonyms:	4930513N16Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG215282 representing NM_024450
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCAGGGCACCTGCTGCAAGAAGAGATGACGCCTTCGTACACGACCACCACCACCATCACAGCGCCTC
CCTCTGGAAGCCTGCAGAATGGACGAGAGAAGGTGAAGACGGTGCCCCTCTACCTGGAAGAAGACATCCG
TCCTGAAATGAAAGAAGATATATACGACCCCACCTATCAGGATGAGGAGGGGCCCCCGCCCAAGCTGGAG
TACGTCTGGAGGAACATCATTCTCATGGCCCTGCTGCACGTGGGAGCCCTGTACGGGATCACACTGGTTC
CCTCCTGCAAGCTCTACACCTGCCTCTTCGCGTTTGTCTACTATGTGATCAGTATTGAGGGCATTGGAGC
CGGAGTCCATCGCCTGTGGAGCCACAGAACGTACAAGGCACGCCTGCCCCTGCGGATCTTCCTCATCATT
GCCAACACCATGGCGTTCCAGAATGACGTGTATGAATGGGCCCGAGATCACCGAGCCCACCACAAGTTCT
CAGAAACACACGCCGACCCTCACAATTCCCGCCGTGGCTTCTTCTTCTCTCACGTGGGTTGGCTGCTTGT
GCGCAAACACCCGGCTGTCAAAGAGAAGGGCGGAAAACTGGACATGTCTGACCTGAAAGCCGAGAAGCTG
GTGATGTTCCAGAGGAGGTACTACAAGCCTGGCATTCTGCTGATGTGCTTCATCCTGCCCACGCTGGTGC
CCTGGTACTGCTGGGGCGAGACTTTTCTAAACAGTTTTTATGTTGCCACTTTACTGAGATACGCTGTGGT
GCTCAACGCCACTTGGCTGGTGAACAGTGCCGCCCACCTCTACGGGTATCGCCCCTACGATAAGAACATC
GATCCCCGGCAGAATGCCCTGGTTTCCTTGGGAAGTATGGGAGAGGGCTTCCACAACTACCACCATGCCT
TCCCCTACGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACGTTCTTCATCGACTGCAT
GGCTGCACTGGGCCTGGCTTACGACCGGAAGAGAGTGTCCAAGGCCACTGTCTTAGCCAGGATTAAGAGA
ACTGGAGACGGGAGTCACAAGAGTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

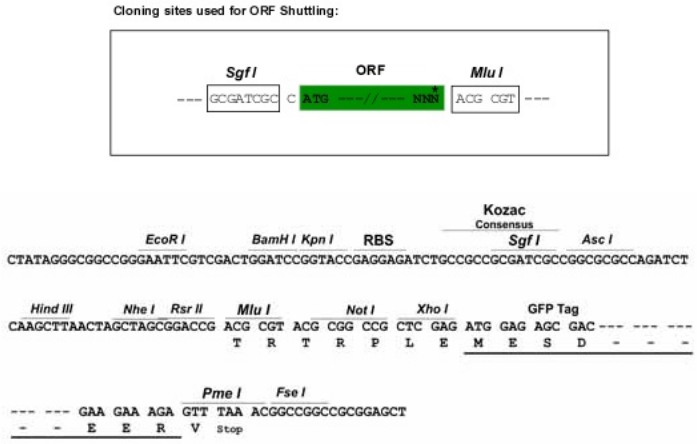
>MG215282 representing NM_024450
Red=Cloning site Green=Tags(s)

MPGHLLQEEMTPSYTTTTTITAPPSGSLQNGREKVKTVPLYLEEDIRPEMKEDIYDPTYQDEEGPPPKLE
YVWRNIILMALLHVGALYGITLVPSCKLYTCLFAFVYYVISIEGIGAGVHRLWSHRTYKARLPLRIFLII
ANTMAFQNDVYEWARDHRAHHKFSETHADPHNSRRGFFFSHVGWLLVRKHPAVKEKGGKLDMSDLKAEKL
VMFQRRYYKPGILLMCFILPTLVPWYCWGETFLNSFYVATLLRYAVVLNATWLVNSAAHLYGYRPYDKNI
DPRQNALVSLGSMGEGFHNYHHAFPYDYSASEYRWHINFTTFFIDCMAALGLAYDRKRVSKATVLARIKR
TGDGSHKSG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024450

ORF Size: 1077 bp

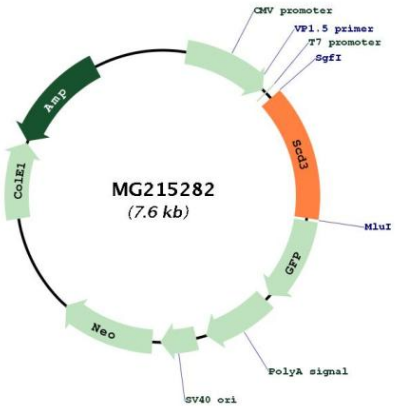
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_024450.2, NP_077770.1
RefSeq Size:	3470 bp
RefSeq ORF:	1080 bp
Locus ID:	30049
UniProt ID:	Q99PL7
Cytogenetics:	19 C3
Gene Summary:	Stearyl-CoA desaturase that utilizes O(2) and electrons from reduced cytochrome b5 to introduce the first double bond into saturated fatty acyl-CoA substrates. Catalyzes the insertion of a cis double bond at the delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA (PubMed:16443825, PubMed:26098370). Has a strong preference for saturated fatty acids with chain lengths of 14 or 16 carbon atoms (C14:0 and C16:0), and has only very low activity with stearatate (C18:0) (PubMed:16443825, PubMed:26098370). Required for the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215282