

Product datasheet for **MR227906**

Scgb3a2 (NM_001289643) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Scgb3a2 (NM_001289643) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Scgb3a2
Synonyms: LuLeu1; Pnsp1; UGRP1; Utgrp1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR227906 representing NM_001289643
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGCTGGTATCTATCTTTCTGCTGGTGACCATTGGTATTTGTGGTTATTCTGCCACTGCCCTTCTCA
TCAACCGTCTCCCTGTTGTTGACAAATTACCTGTACCTTTGGACGACATTATCCCTCATTGATCCCTT
GAAGATGCTTCTGAAAACCTGGGCATTCTGTAGAACATCTGGTGACAGGACTGAAGAAGTGTGTGGAC
GAGCTGGGACCAGAGGCTCCGAGGCCGTGAAGAAGCTTCTGGTAATTATAATTTGTTCTTATTTCCCTG
GGAGAAGCCTTTGCTACGTGAACAACCTCCCATCATTTGAGGCTCTTTCACACCTGGTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227906 representing NM_001289643
Red=Cloning site Green=Tags(s)

MKLVSIIFLLVTIGICGYSATALLINRLPVVDKLPVPLDDIIPSFDPKMLLKTGLISVEHLVTGLKKCV
ELGPEASEAVKLLLVIIICSYFPGRSLCYVNNLPSFEALSHLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

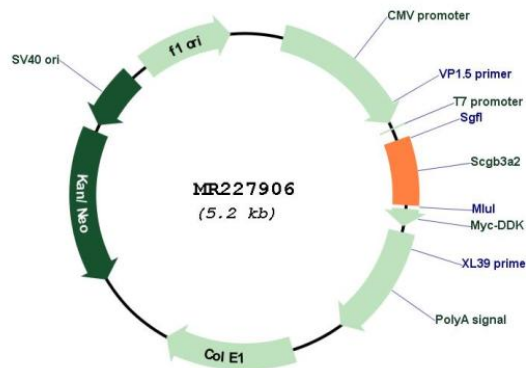


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289643

ORF Size: 339 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:	<ol style="list-style-type: none">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:	<u>NM_001289643.1</u> , <u>NP_001276572.1</u>
RefSeq Size:	615 bp
RefSeq ORF:	342 bp
Locus ID:	117158
UniProt ID:	<u>Q920H1</u>
Cytogenetics:	18 B3
MW:	12.8 kDa
Gene Summary:	Secreted cytokine-like protein (By similarity). Binds to the scavenger receptor MARCO (By similarity). Can also bind to pathogens including the Gram-positive bacterium <i>L.monocytogenes</i> , the Gram-negative bacterium <i>P.aeruginosa</i> , and yeast (By similarity). Strongly inhibits phospholipase A2 (PLA2G1B) activity (PubMed:24213919). Seems to have anti-inflammatory effects in respiratory epithelium (PubMed:16456148, PubMed:25242865). Also has anti-fibrotic activity in lung (PubMed:24213919, PubMed:26559674). May play a role in fetal lung development and maturation (PubMed:18535256). Promotes branching morphogenesis during early stages of lung development (PubMed:18535256). In the pituitary, may inhibit production of follicle-stimulating hormone (FSH) and luteinizing hormone (LH) (PubMed:24514953).[UniProtKB/Swiss-Prot Function]