

## Product datasheet for MR223576

### Scgb3a2 (NM\_054038) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Scgb3a2 (NM\_054038) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Scgb3a2  
**Synonyms:** LuLeu1; Pnsp1; UGRP1; Utgrp1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223576 representing NM\_054038  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGAAGCTGGTATCTATCTTTCTGCTGGTGACCATTGGTATTTGTGGTTATTCTGCCACTGCCCTTCTCA  
TCAACCGTCTCCCTGTTGTTGACAAATTACCTGTACCTTTGGACGACATTATCCCTCATTTGATCCCTT  
GAAGATGCTTCTGAAAACCTGGGCATTTCTGTAGAACATCTGGTGACAGGACTGAAGAAGTGTGTGGAC  
GAGCTGGGACCAGAGGCTCCGAGGCCGTGAAGAAGCTTCTGGTAATTATAATTTGTTCTTATTTCCCTG  
GGAGAAGCCTTTGCTACGTGAACAACCTCCCATCATTTGTAAGTGTATTATTTCTCCCATGATATGTGC  
ATATCCCAGGGACTCCAAAAGCAAACATTTGCATTTATAGAAAGAGTATTTGAACAGTCTAAGCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR223576 representing NM\_054038  
 Red=Cloning site Green=Tags(s)

MKLVSIFLLVTIGICGYSATALLINRLPVVDKLPVPLDDIIPSFDPKMLLKTGLISVEHLVTGLKKCVD  
ELGPEASEAVKLLLVIIICSYFGRSLCYVNNLPSFVSVLFLPMICAYPRDSKKQTFAFIERVFEQSKL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_054038

**ORF Size:** 417 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\\_054038.1](#), [NP\\_473379.1](#)

**RefSeq Size:** 853 bp

**RefSeq ORF:** 420 bp

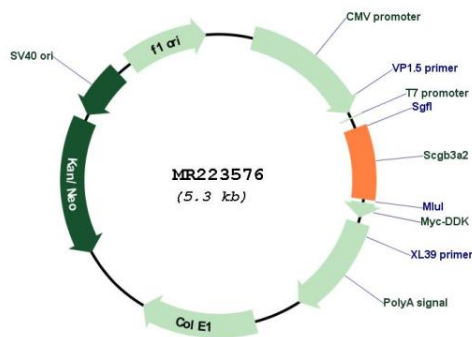
**Locus ID:** 117158

**Cytogenetics:** 18 B3

**MW:** 15.9 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 *L.monocytogenes*, the Gram-negative bacterium *P.aeruginosa*, 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]

**Product images:**



Circular map for MR223576