

## Product datasheet for RC201123

## ASCL1 (NM\_004316) Human Tagged ORF Clone

## **Product data:**

### OriGene Technologies, Inc.

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| Product Type:                | Expression Plasmids   |
|------------------------------|---|
| Product Name:                | ASCL1 (NM_004316) Human Tagged ORF Clone  |
| Tag:                         | Myc-DDK   |
| Symbol:                      | ASCL1   |
| Synonyms:                    | ASH1; bHLHa46; HASH1; MASH1   |
| Mammalian Cell<br>Selection: | Neomycin  |
| Vector:                      | pCMV6-Entry (PS100001)  |
| E. coli Selection:           | Kanamycin (25 ug/mL)  |
| ORF Nucleotide<br>Sequence:  | <pre>&gt;RC201123 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>                          |
|                              | TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC<br>GCC <mark>GCGATCGC</mark> C |

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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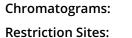
# Scl1 (NM\_004316) Human Tagged ORF Clone - RC201123 Protein Sequence: >RC201123 protein sequence

Red=Cloning site Green=Tags(s)

#### TRTRPLEQKLISEEDLAANDILDYKDDDDKV

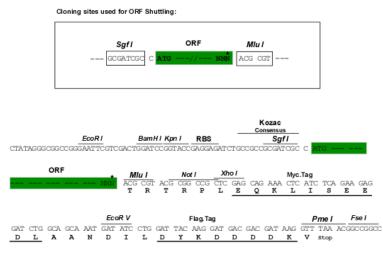
\* The last codon before the Stop codon of the ORF

### https://cdn.origene.com/chromatograms/mk6145\_g09.zip



Sgfl-Mlul

**Cloning Scheme:** 



| ACCN:           | NM_004316   |
|-----------------|---|
| ORF Size:       | 708 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. <u>More info</u> |
| 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).  |

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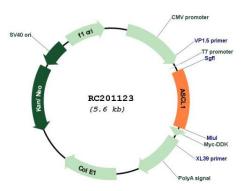
## SCL1 (NM\_004316) Human Tagged ORF Clone – RC201123

| Reconstitution Method: | <ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
|------------------------|--|
| Note:                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.   |
| RefSeq:                | <u>NM 004316.4</u>   |
| RefSeq Size:           | 2490 bp  |
| RefSeq ORF:            | 711 bp   |
| Locus ID:              | 429  |
| UniProt ID:            | <u>P50553</u>  |
| Cytogenetics:          | 12q23.2  |
| Domains:               | HLH  |
| Protein Families:      | Druggable Genome, Transcription Factors  |
| MW:                    | 25.5 kDa   |
| Gene Summary:          | This gene encodes a member of the basic helix-loop-helix (BHLH) family of transcription factors. The protein activates transcription by binding to the E box (5'-CANNTG-3'). Dimerization with other BHLH proteins is required for efficient DNA binding. This protein plays a role in the neuronal commitment and differentiation and in the generation of olfactory and autonomic neurons. Mutations in this gene may contribute to the congenital central hypoventilation syndrome (CCHS) phenotype in rare cases. [provided by RefSeq, Jul 2008] |

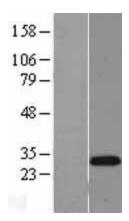
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## **Product images:**

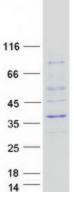


Circular map for RC201123



Western blot validation of overexpression lysate (Cat# [LY401374]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified ASCL1 protein (Cat# [TP301123]). The protein was produced from HEK293T cells transfected with ASCL1 cDNA clone (Cat# RC201123) using MegaTran 2.0 (Cat# [TT210002]).

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