

## Product datasheet for **RC209250**

### ASCL2 (NM\_005170) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
Tag: Myc-DDK  
Symbol: ASCL2  
Synonyms: ASH2; bHLHa45; HASH2; MASH2  
Mammalian Cell Selection: Neomycin  
Vector: pCMV6-Entry (PS100001)  
E. coli Selection: Kanamycin (25 ug/mL)  
ORF Nucleotide Sequence: >RC209250 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACGGCGGCACACTGCCAGGTCCGCGCCCCCTGCGCCCCCGTCCCTGTCGGCTGCGCTGCCCGGC  
GGAGACCCGCGTCCCGGAAGTGTTCGCTGCAGCCGGCGGGCGGCGACCGCCACCGCAGAGACCGGAGG  
CGGCGCAGCGGCCGTAGCGCGGCCAATGAGCGCGAGCGCAACCGCGTGAAGCTGGTGAAGTGGGCTTC  
CAGGCGCTGCGGCAGCACGTGCCGACGGCGGCCAGCAAGAAGCTGAGCAAGGTGGAGACGCTGCGCT  
CAGCCGTGGAGTACATCCGCGCGCTGCAGCGCTGCTGGCCGAGCAGACGCCGTGCGCAACCGCTGGC  
GGGAGGGCTGAGGCCGCGAGGCCGTGCGGCCGTCTGCGCCCCGCGGCCGCGCAGGAGACCAACCCGGTCCGC  
GCCTCGCCCTCCCGCGCTTCTTCGTCGCCCGGCCGCGGGGCGAGCTCGGAGCCCGCTCCCGCGTTCCG  
CCTACTCGTCGGACGACAGCGGCTGCGAAGGCGCGCTGAGTCTGCGGAGCGCGAGCTACTCGACTTCTC  
CAGCTGGTTAGGGGGCTAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
TGGATTACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >RC209250 protein sequence  
Red=Cloning site Green=Tags(s)

MDGGTLPRSAPPAPPVPGCAARRRPASPELLRCSRPPATAETGGGAAVARRNERERNRVKL VNLGF  
QALRQHVP HGGASKKL SKVETLRS AVEYIRALQRL LAEHDAVRNALAGGLRPQAVRPSAPRPPGTPVA  
ASPSRASSPGRGGSSEPGSPRAYSSDDSGCEGALSPAERELLD FSSWLG Y

**SGP**TRTRPLEQKLISEEDLAANDILDYKDDDDKV

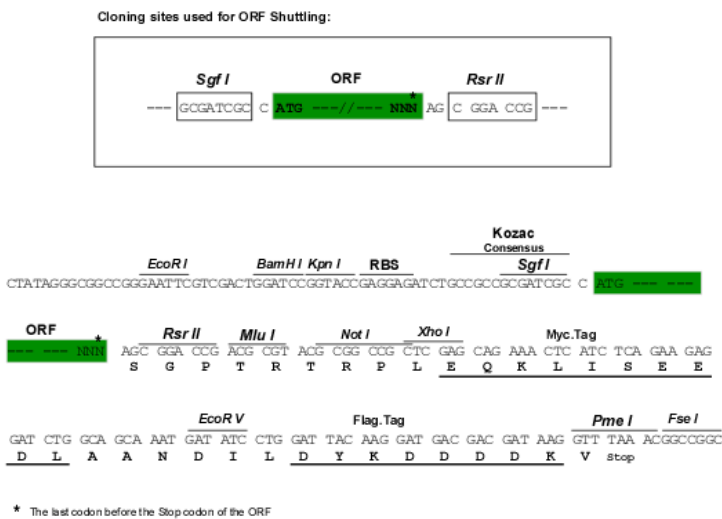
Chromatograms: [https://cdn.origene.com/chromatograms/mk6788\\_h05.zip](https://cdn.origene.com/chromatograms/mk6788_h05.zip)



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Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM\_005170

ORF Size: 579 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](mailto: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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** NM\_005170.2, NP\_005161.1

**RefSeq Size:** 1864 bp

**RefSeq ORF:** 582 bp

**Locus ID:** 430

**UniProt ID:** Q99929

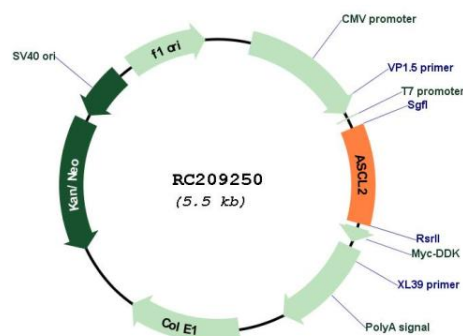
**Cytogenetics:** 11p15.5

**Protein Families:** Druggable Genome, Transcription Factors

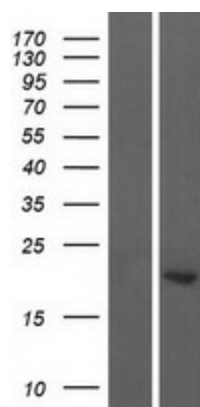
**MW:** 20.2 kDa

**Gene Summary:** This gene is a member of the basic helix-loop-helix (BHLH) family of transcription factors. It activates transcription by binding to the E box (5'-CANNTG-3'). Dimerization with other BHLH proteins is required for efficient DNA binding. Involved in the determination of the neuronal precursors in the peripheral nervous system and the central nervous system. [provided by RefSeq, Jul 2008]

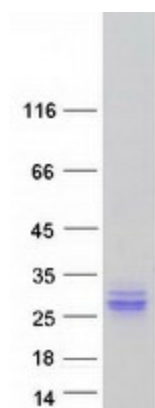
## Product images:



Circular map for RC209250



Western blot validation of overexpression lysate (Cat# [LY417473]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209250 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ASCL2 protein (Cat# [TP309250]). The protein was produced from HEK293T cells transfected with ASCL2 cDNA clone (Cat# RC209250) using MegaTran 2.0 (Cat# [TT210002]).