

Product datasheet for **MG227072**

Ascl1 (NM_008553) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ascl1 (NM_008553) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ascl1
Synonyms:	AI225900; ASH1; bHLHa46; Mash1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG227072 representing NM_008553 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGCTCTGGCAAGATGGAGAGTGGAGCCGGCCAGCAGCCGAGCCCCGAGCCCTTCTGCCTC
CCGCAGCCTGCTTCTTTGCGACCGCGCGCGCGGCAGCGCGCGGCCGCGGCAGCTCAGAGCGCGCA
GCAGCAACAGCCGAGCGCGCCGCGCAGCAGCGCCGCGAGCTGAGCCCGTGGCCGACAGCCAGCCCTCA
GGGGCGGTCAACAAGTCAGCGGCAAGCAGGTCAAGCGCCAGCGCTCGTCTCTCCGGAAGTATGCGCT
GCAAACGCGGCTCAACTTCAGCGGCTTCGGCTACAGCCTGCCACAGCAGCAGCCGGCCGCGTGGCGCG
CCGCAACGAGCGCGAGCGCAACCGGTTCAAGTTGGTCAACCTGGGTTTTGCCACCCTCCGGGAGCATGTC
CCCAACGGCGCGGCAACAAGAAGATGAGCAAGGTGGAGACGCTGCGCTCGGCGGTGAGTACATCCGCG
CGCTGCAGCAGCTGCTGGACGAGCAGCAGCGGTGAGCGCTGCCTTTCAGGCGGGCGTCTGTGCCCCAC
CATCTCCCCAACTACTCCAAGACTTGAAGTCTATGGCGGGTTCTCCGGTCTCGTCTACTCTCCGAC
GAGGGATCCTACGACCCTTAGCCAGAGGAACAAGAGCTGCTGGACTTACCAACTGGTTC

ACGCGTACGCGGCGGCTCGAG - GFP Tag - GTTTAA



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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_008553.5](#)

RefSeq Size: 2259 bp

RefSeq ORF: 696 bp

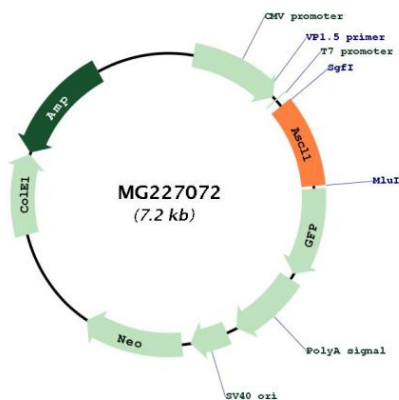
Locus ID: 17172

UniProt ID: [Q02067](#)

Cytogenetics: 10 C1

Gene Summary: Transcription factor that plays a key role in neuronal differentiation: acts as a pioneer transcription factor, accessing closed chromatin to allow other factors to bind and activate neural pathways (PubMed:24243019). Directly binds the E box motif (5'-CANNTG-3') on promoters and promotes transcription of neuronal genes (PubMed:20107439, PubMed:24243019, PubMed:27281220). The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro (PubMed:20107439, PubMed:24243019, PubMed:27281220). Plays a role at early stages of development of specific neural lineages in most regions of the CNS, and of several lineages in the PNS (PubMed:8217843). Essential for the generation of olfactory and autonomic neurons (PubMed:8221886). Acts synergistically with FOXN4 to specify the identity of V2b neurons rather than V2a from bipotential p2 progenitors during spinal cord neurogenesis, probably through DLL4-NOTCH signaling activation (PubMed:16020526, PubMed:17728344).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227072