

Product datasheet for **RG220042**

Achaete scute homolog 3 (ASCL3) (NM_020646) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Achaete scute homolog 3 (ASCL3) (NM_020646) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Achaete scute homolog 3
Synonyms: bHLHa42; HASH3; SGN1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220042 representing NM_020646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATGGACAACAGAGGCAACTCTAGTCTACCTGACAACTTCCTATCTTCCCTGATTCTGCCCGTTGC
 CACTGACCAGGTCTTCTATCTGGAGCCCATGGTCACTTCCACGTGCACCCAGAGGCCCGGTGTCATC
 CCCTTACTCTGAGGAGCTGCCACGGCTGCCTTTCCAGCGACTCTTTATCCTGGGAAATTACAGTGAA
 CCCTGCCCTTCTTTCCGATGCCTTATCAAATTACAGAGGGTGCAGTACTCTACGGCCAGCCT
 TCACCCGAAAAGGAATGAGCGGAAAGGCAGCGGTGAAATGTGTCAATGAAGGCTATGCCAGCTCCG
 CCATCATCTGCCAGAGGAGTATTTGGAGAAGCGACTCAGCAAAGTGGAACCCCTCAGAGCTGCGATCAAG
 TACATTAACCTACCTGCAGTCTTCTGTACCCTGATAAAGCTGAGACCAAGAATAACCCTGGAAAAGTT
 CCTCCATGATAGCAACCACCAGCCACCATGCTGACCCTATGTTCAGAATTGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220042 representing NM_020646
 Red=Cloning site Green=Tags(s)

MMDNRGNSSLPDKLPIFPDSARLPLTRSFYLEPMVTFHVHPEAPVSSPYSEELPRLPFPSDSLILGNYS
 PCPFSFMPYPNYRGCEYSYGPAFTRKRNERRQRVKCVNEGQAQLRHHLPEEYLEKRLSKVETLRAAIK
 YINYLQSLLYPDKAETKNNPGKVSSMIATTSHHADPMFRIV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_020646

ORF Size: 543 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_020646.1](#), [NP_065697.1](#)

RefSeq Size: 650 bp

RefSeq ORF: 546 bp

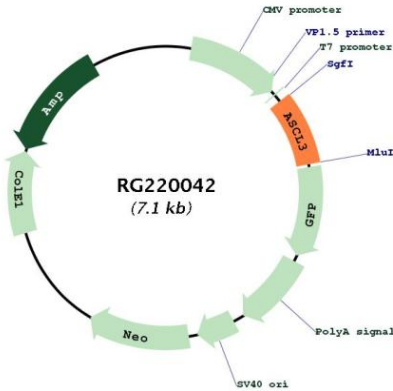
Locus ID: 56676

UniProt ID: [Q9NQ33](#)

Cytogenetics: 11p15.4

Gene Summary: Basic helix-loop-helix transcription factors, such as ASCL3, are essential for the determination of cell fate and the development and differentiation of numerous tissues (Jonsson et al., 2004 [PubMed 15475265]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG220042