

## Product datasheet for **MG223761**

### Avil (NM\_009635) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Avil (NM_009635) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Avil
Synonyms:	Advil; DOC6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide  
Sequence:**

>MG223761 representing NM\_009635  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCTCTGAGCAGTGCCTTCAGGGCTGTGAGCAACGACCCCGGATCATCACATGGAGAATTGAGAAAA  
 TGGAGCTGGCGCTGGTGCCCTGAGTGCTCACGGCAACTTCTACGAGGGAGACTGTACATCGTCTCTC  
 GACCCGGAGAGTGGGCGCCTTCTCTCCAGAACATCCACTTTTGGATCGGGAAGGACTCTCCAGGAC  
 GAGCAGAGCTGCGCGCCATCTATACCACACAGCTGGATGACTACCTGGGAGGCAGCCCGGTGCAGCACC  
 GTGAGGTCAGTACCACGAGTCCGACACCTTCCGTGGCTACTTCAAGCAGGGCATCATCTATAAAAAAGG  
 GGGTGTGGCTCTGGGATGAAGCACGTGGAGACCAACACCTATGATGTGAAGAGGCTGTACACGTAAG  
 GGGAAAAGAAACATCCAAGCCACGGAGGTGAAATGAGCTGGGACAGCTTAACCGAGGGCATGTCTTCC  
 TGCTGGACCTGGGATGGTCATCATCCAGTGAATGGCCCGAGAGCAACAGTGGGAACGTCTCAAGGC  
 TATGCTTCTGGCAAAGGACATTCGGGACAGGGAGCGAGGGGGCCGTGCTGAAATGGGGTATTGAGGGA  
 GACAAGGAGGCGCCAGCCAGGGCTGATGACAGTCTCCAGGATACCCTTGGTCGACGCTCCATGATAA  
 AGCCTGCAGTTTCTGATGAGATCATGGACCAACAACAGAAATCAAGTATCATGTTATATCATGTCTCCGA  
 CACAGCTGGGCGACTGTGAGTACAGAGGTGGCAACAAGGCCCTGGTCCAGGACCTACTGAACCAGAT  
 GACTGCTACATCTGGACCAAAGTGGCACAAGATCTACGTGTGGAAAGGCAAAGGAGCCACCAAGTTG  
 AGAAACAGGCGGCCATGTCCAAGCCCTGGATTTTCAAGATGAAGGGATACCCAGCAGCACCAACGT  
 GGAGACCGTCAACGATGGCGCAGAGTCCGCCATGTTCAAACAGTTGTTCCAGAAATGGTCGGTGAAGGAC  
 CAGACCAGGGCTTGGGAAAAATATTGAGCACTGGTAAATCGCTAAAATCTTCCAGGACAAGTTGATG  
 TGCTCTGCTACACCAAGCCAGAAGTGGTGCACAGGAGAGAATGGTGACGACGGCAAAGGCCAGGT  
 TGAGGTCTGGAGAATTGAGAACCCTGGAGCTGGTCCCGTGGAAATACCAGTGGCATGGCTTCTTCTACGGG  
 GGAGACTGCTATCTGTTCTCTACACGTACGATGTGAACGGGAAACCCATTACATCTTGTACATCTGGC  
 AGGGCCGCCACGCATCCCGGATGAGCTGGCAGCCTCAGCCTATCGGGCAGTGGAGGTGGATCAGCAGTT  
 TGATGGAGCCCTGTGCAGGTCCGGTTAGCATGGGGAAGGAGCCAGCCACTTCATGGCCATCTTCAA  
 GGAAAGCTGGTTATCTACGAGGGCGGGACTTCCAGGAAGGAAACGAGGAGCCGGACCCTCCAGTAAGGC  
 TCTTCCAGATCCACGGGAACGACAAATCCAACACCAAAGCAGTGGAGGTCTCGGCCTCTGCTTCTCGCT  
 CAACTCCAACGACGTCTTCTGCTGCGGACTCAGGCAGAGCACTACCTGTGTACGGCAAGGGGTCTAGT  
 GGGGACGAGCGGGCGATGGCTAAGGAGCTGGTCGACCTTCTCTGTGATGGCAATCGGACACTGTGGCTG  
 AGGGCCAGGAGCCACCTGAGTTCTGGGACCTTCTGGGAGGAAAAACAGCCTACGCTAATGACAAAAGGCT  
 GCAGCAAGAAACCTGGACGTCCAGGTCCGGCTCTTTGAGTGTTCCAATAAGACTGGCCGCTTCTTGT  
 ACGGAGGTCACGGACTTCACCCAGGAGGACCTGAGCCAGGTGATGTGATGCTTCTGGACACCTGGGACC  
 AGGTGTTCTTGTGGATAGGAGCGGAGGCCAATGCCACGGAGAAGAAGGGGCCCTCTCGACGGCTCAGGA  
 GTACCTGGTCACACATCCTAGTGGCCGAGACCCCGACACACCGATTCTGATCATCAAACAGGGCTTTGAG  
 CCCCCACCTTACAGGCTGGTTCTGGCATGGGACCCTCACATTTGGAGCGAAGGAAAAATCATATGAGC  
 AGCTAAAGAACGAGCTGGGAGATGCAACTGCCATTGTGCGAATCACCGCTGACATGAAGAACGCAACACT  
 TTACCTGAATCCTAGTGACGGTGAACCAAGTACTACCCGGTGGAAAGTTCTGCTGAAAGGTGAGAACCA  
 GAGCTGCCTGAGGATGTGGACCCCGCCAAAAAGGAGAACCTACCTCTCGGAACAAGACTTTGTATCTGTGT  
 TTGGCATCACGAGGGCAGTTCAGTCTGCTGCTGGCTGAAACAGCTCCAGCTGAAGAAAGAAAGGGG  
 CCTTTTC

**ACGGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

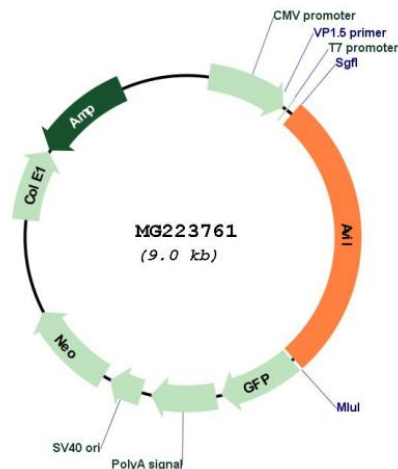
**Protein Sequence:** >MG223761 representing NM\_009635  
 Red=Cloning site Green=Tags(s)

```
MSLSSAFRAVSNDRPRTIITWRIEKMELALVPLSAHGNYFEGDCYIVLSTRRVGSLLSQNIHFWIGKDSQD
EQSCAAIYTTQLDDYLGGSVPVQHREVQYHESDTFRGYFKQGIYKKGAVASGMKHVETNTYDVKRLLHVK
GKRNIQATEVEMSWDSFNRGDVFLLDLGMVIIQWNGPESNSGERLKAMLLAKDIRDRERGGRAEIGVIEG
DKEAASPGLMTVLQDTLGRSMIKPAVSDEIMDQQKSSIMLYHVS DTAGQLSVTEVATRPLVQDLLNHD
DCYILDQSGTKIYVWKGKATKVEKQAAMSKALDFIKMKGYPSSTNVETVNDGAESAMFKQLFQKWSVKD
QTTGLGKIFSTGKIAKIFQDKFDVSLHTKPEVAAQERMVDDGKGQVEVWRIENLELVPVEYQWHGFFYG
GDCYLVLTYTDVNGKPHYILYIWQGRHASRDELAASAYRAVEVDQQFDGAPVQVRVSMGKEPRHFMAIFK
GKLVIEGGTSRKGNEEPDPPVRLFQIHGNDKSNTKAVEVSASASSLNSNDVFLLR TQAEHYLWYKGGSS
GDERAMAKELVDLLCDGNADTVAEGQEPPEFWDLLGGKTAYANDKRLQQETLDVQVRLFECSNKTGRFLV
TEVTDFTQEDLSPGDVMLLDTWDQVFLWIGAEANATEKKGALSTAQEYL VTHPSGRDPDTPILIIKQGF
PPTFTGWFLAWDPHIWSEGKSYQLKNELGDATAIVRITADMKNATLYLNPSDGEPKYYPVEVLLKGQNG
ELPEDVDPAKKENYLSEQDFVSVFGITRGQFTALPGWKQLQLKKERGLF
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_009635

**ORF Size:** 2457 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\\_009635.3](#), [NP\\_033765.2](#)

**RefSeq Size:** 3033 bp

**RefSeq ORF:** 2460 bp

**Locus ID:** 11567

**UniProt ID:** [O88398](#)

**Cytogenetics:** 10 D3

**Gene Summary:** Ca(2+)-regulated actin-binding protein. May have a unique function in the morphogenesis of neuronal cells which form ganglia. Required for SREC1-mediated regulation of neurite-like outgrowth. Plays a role in regenerative sensory axon outgrowth and remodeling processes after peripheral injury in neonates. Involved in the formation of long fine actin-containing filopodia-like structures in fibroblast. Plays a role in ciliogenesis.[UniProtKB/Swiss-Prot Function]