

Product datasheet for **RN208141**

Avil (NM_024401) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Avil (NM_024401) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Avil
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN208141 representing NM_024401
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCTGAGCAGTGCCTTCAGGACTGTGACCAATGACCCCGGATTATCACGTGGAGAATTGAGAAAA
 TGGAGCTGGTGCCTGAGTGCTCATGGCAACTTCTATGAGGGAGACTGCTACATCATCTCTC
 GACCCGGAGAGTGGCAGCCTTCTCTCCAAAACATCCACTTTTGGATCGGGAAGGACTCCTCCCAAGAT
 GAGCAGAGCTGTGCAGCCATCTATACCACACAGCTGGATGACTACCTGGGAGGCAGCCCCGTGCAGCACC
 GTGAGGTCAGTACCATGAGTCTGACACCTCCGTGGCTACTTCAAGCGGGGCATCATCTATAAAAAGGG
 GGGTGTGGCCTCTGGGATGAAGCATGTGGAGACCAACACCTATGATGTGAAGAGGCTGTTACATGTGAAG
 GGGAAAAGAAACATCAGAGCCACTGAGGTGAAATGAGCTGGGACAGTTTTAACCAAGGTGATGTCTTCT
 TGCTGGACCTCGGGATGGTCATCATCCAGTGAATGGCCCGAGAGCAACAGTGGGAACGCCTCAAGGC
 TATGCTTCTAGCAAAGGACATTCGGGACAGGGAGCGAGGGGGCCGAGCTGAAATCGGGGTGATTGAGGGA
 GACAAAGAGGCAGCCAGCCAGAACTGATGACGGTTCTCCAGAATACCCTTGGCCGACGCTCCATTATCA
 AGCCCGCAGTTCCTGATGAGGTCACCGATCAGCAGCAGAAGTCAACCATCATGTTGTATCATGTCTCCGA
 CACAACCTGGGAGCTGTCCGGTACAGAAGTGGCAACAAGGCCCTGGTCCAGGAGCTACTGAACCATGAT
 GACTGCTATATCTGGACAAAGTGGCACAAGATCTACGTATGGAAAGGCAAAGGAGCCACCAAGGTGG
 AGAAACAGGCGGCCATGTCCAAAGCCCTGGATTCATCAAGATGAAGGGTTATCCAGCAGCACCAACGT
 AGAGACCGTCAACGATGGCGCAGAGTCCGCCATGTTCAAACAGTGTGCCAGAAATGGTCGGTGAAGGAC
 CAGACCACTGGCTTGGGAAAACATTGACATTTGGTAAAATGCTAAAATCTTCCAGGACAAGTTCGAGC
 TGACTGTCTACACACTAAGCCAGAAGTGGCTGCTCAGGAAAGAATGGTGGACGACGGCAACGGCAAGGT
 TGAGGTCTGGAGAATTGAGAACCCTGGAGCTGGTCCCTGTGGAATACCAGTGGCATGGCTTCTTCTACGGG
 GGAGACTGCTATCTGTTCTCTACACGTATGATGTGAACGGGAAACCCTGTTACATCTTGTATATCTGGC
 AGGGACGCCACGCTTCCAGGATGAGCTGGCAGCCTCGGCCTACCAGGCGGTGGAGGTGGATCAGCAGTT
 TGGTGGAGCCCCGGTGAAGTCCGGTTAGCATGGGAAAGAGCCACGCCACTTCATGGCCATCTTCAA
 GGAAGCTGGTTATCTATGAGGGCGGACTTCCAGGAAGGAAATGTGGAGCCTGACCCTCCAGTAAAGC
 TCTTCCAGATCCACGGGAACGACAAATCCAATACCAAAGCAGTGGAAAGTCTCGGCCTCCGCTTCTCCCT
 CAACTCTAATGATGTCTTCTGCTTTGGACTCAGGCGGAGCACTACCTGTGGTATGGCAAGGGTCAAGT
 GGGGACGAACGGCGATGGCTAAGGAGCTGGCAGAGCTTCTCTGTGATGGTACGACGACTGTAGCTG
 AGGGCCAGGAGCCACCTGAGTTCGGGACCTTCTGGGAGGAAAAGCCCTACGCTAACGACAAAAGGCT
 GCAGCAGGAAACCCTGGACATCCAGTCCGGCTTTTTGAATGTTCTAATAAGACCGGCCGGTTCCTTGT
 ACTGAGGTCACGGACTTCACCCAGGATGACCTGAGCCAGGTGATGTGATGCTCCTGGACACCTGGGACC
 AGGTGTTCTGTGGATAGGAGCGGAGGCCAATGCCACAGAGAAGGAGGGGCCCTCTCGACTGCTCAGGA
 GTACCTGGTAACACACCCAGTGGCCGAGACCCGACACACCGATCCTGATCATCAAACAGGGCTTTGAG
 CCCCCACTTTTACAGGCTGGTCTGGCATGGGACCCTCACATTTGGAGTGAAGGAAAATCATATGAGC
 AGTTAAAGAACGAGCTGGGAGATGCCACTGCTATCGTGCGAATACCACGGACATGAAGAACGCAACCCT
 CTCCTGAATTTAGTGAAGTGGGCCAAAGTACTACCCTGGGAGGTTCTGCTGAAAAGTCAAGGACCAG
 GAGCTGCCTGAGGATGTGGACCCACAAAAAGGAGAATTACCTCTCGGAACGAGATTTTGTCTCTGTGT
 TTGGCATCACCAGAGGGCAGTTTGTCTCTGCTGGCTGGAACAGCTCCAGCTGAAGAAAGAAGCAGG
 CCTTTTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_024401
Insert Size: 2460 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_024401.2 , NP_077377.2
RefSeq Size:	3014 bp
RefSeq ORF:	2460 bp
Locus ID:	79253
UniProt ID:	Q9WU06
Cytogenetics:	7q22
Gene Summary:	Ca(2+)-regulated actin-binding protein which plays an important role in actin bundling. 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 (PubMed:11849295). Involved in the formation of long fine actin-containing filopodia-like structures in fibroblast. Plays a role in ciliogenesis. In podocytes, controls lamellipodia formation through the regulation of EGF-induced diacylglycerol generation by PLCE1 and ARP2/3 complex assembly (By similarity).[UniProtKB/Swiss-Prot Function]