

Product datasheet for **RR208141**

Avil (NM_024401) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR208141 representing NM_024401
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCTGAGCAGTGCCTTCAGGACTGTGACCAATGACCCCGGATTATCACGTGGAGAATTGAGAAAA
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 CCTTTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR208141 representing NM_024401
 Red=Cloning site Green=Tags(s)

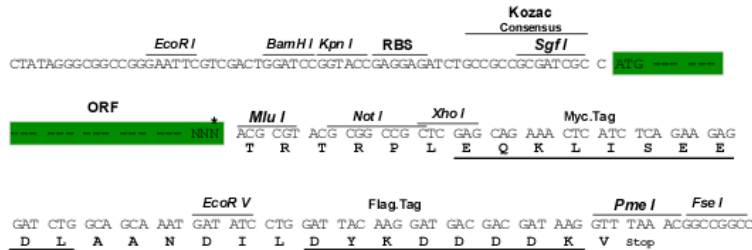
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DKEAASPELMTVLQNTLGRRSIIKPAVPDEVTDQQQKSTIMLYHVSDDTGGQLSVTEVATRPLVQELLNHD
DCYILDQSGTKIYVWKGKATKVEKQAAMSKALDFIKMKGYPSSTNVETVNDGAESAMFKQLFQKWSVKD
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TEVTDFTQDDLSPGDVMLLDTWDQVFLWIGAEANATEKEGALSTAQEYLVTHTPSGRDPDTPILIIKQGF
PPTFTGWFLAWDPHIWSEGKSYQLKNELGDATAIVRITDMKNATLSLNSSESGPKYYPVEVLLKSDQ
ELPEDVDPKKNYLSEDFVSVFGITRGQFVSLPGWKQLQLKKEAGLF
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

- ACCN:** NM_024401
- 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_024401.2](#), [NP_077377.2](#)

RefSeq Size: 3014 bp

RefSeq ORF: 2460 bp

Locus ID: 79253

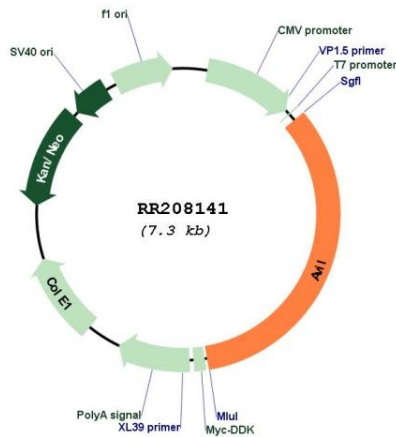
UniProt ID: [Q9WU06](#)

Cytogenetics: 7q22

MW: 91.9 kDa

Gene Summary: Ca²⁺-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]

Product images:



Circular map for RR208141