

Product datasheet for **RR211800**

Are1 (NM_001106744) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Are1 (NM_001106744) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Are1
Synonyms:	RGD1307597
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR211800 representing NM_001106744
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTTTTACGTTATTGGTGAATCATAGTGTCTGTGGTTGCATTCTTTTTACAATTAAGTTCCTCTTTG
 AGCTTGCCGCACGTGTAGTCAGCTTTCTCAGAATGAAGACCGTGAACCGGAGGGGACCGGACTATTTA
 TGACTACGTGCGGGAAATTACCTGGATCCCCGGTCTGCAAAGTGTCTGGGATTGGAAGGACCCCTAT
 GAGGTGGGCCACAGCATGGCCTTCCGAGTGCATTTGTTCTATAAGAATGGACAGCCTTCCCTGCACACC
 GACCTGTGGGACTGCGAGTTCACATCTCTCACGTTGAACTAGCAGTGGAAATTCAGTGACCCAGGAGGT
 CCTCCAGGAGCCAACTCTAACGTGGTGAAGGTGGCCTTCACTGTGCGCAAGGCTGGGCGCTATGAGATT
 ACTGTGAAGCTCGGTGGATTAATGTGGCTATAGTCCCTACTACAAAATTTTTTCAGCCTGGAATGGTAG
 TTCCTTCCAAAACAAAATTGTGTGCCATTTTTCTACTCTGGTGTGACGTGTGGGCAGCCACACTCT
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 TACAGCCTGTCCATTCATGAGCTTGGTCCCTCAAGAAGAAGAGAATAGCGAAGTCTCATTTGAGAAGTCAG
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 CTAGCAGCCACTTTCATCCGTTCTTGCACAAGAACATTGGAGGCTCCGAAACCTTTCAAGACAAGTGA
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 CAGACACGCCCTTGTGGAATCGTCTTTGAAGGCCACTCGGAACCTTTCCATCTCAGATTGGAGCAAGAAC
 TTTGAAGTGGTTTTCCAGGATGAAGAAGCTTTGGATTGGGGAGGGCTCGCCGGGAATGGTTTGAGCTAA
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 GATCCTGGCATTTCAGAGAAAAGGTGATGAGGTGGTTTTGGACTGTGGTTCCAGTCTGACCCAGGAGGA
 ACTGGCTCGGCTGCTTCAGTTCACAACAGGCTCTTCTCAGTCCCACCTGGAGGATTTGCTGCCCTCTGT
 CCCTCATTTAGATTATTGCTGCTCCAACCCACAGCACGCTTCCCTACTGCACACACAGTGTTTTAAACCAAC
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 CGAGGGCTTTGGCATGCTC

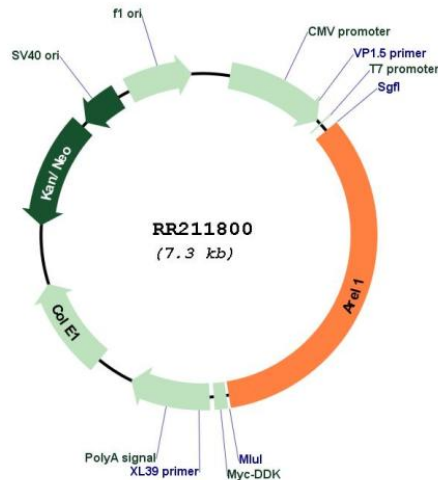
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR211800 representing NM_001106744
Red=Cloning site Green=Tags(s)

MFYVIGGIIVSVVAFFFTIKFLFELAAVVVSLQNE DRERRGDRTIYDYVRGNYLDPR SCKVSWDWKDPY
EVGHSM AFRVHLFYKNGQPFPAHRPVGLRVHISHVELAVEIPVTQEVLQEPNSNVKVAFTVRKAGRYEI
TVKLGGLNVAYS PYYKIFQPGMVVPSKTKIVCHFSTLVLTCGQPHTLQIVPRDEYDNPTNNSMSLREEHN
YLSIHELGPQEEENSEVSFEKSVTSNRQTCQVFLRLTLHSRGCFHACISYQNQPINNGEFDIIIVLSENE
KNIVERNVSTSGVSIYFEAYLYNANSYSSAPWHLPPMHMSSQRRPSTALEEEEEEDSPSECHTPEKVKKP
KKVYCYVSPKQFSVKEFYLKII PWRLYTFRVCPGTFKFSYLGDPVHKLLTLVVDDGIQPPVELSCKERNI
LAATFIRSLHKNI GGSETFQDKVNFQREL RQVHMKRPHSKVTLKVS RHALLESSLKATRNF SISDWSKN
FEVVFQDEEALDWGGPRREWFEL ICKALFDTTSQLFTRFSDNNQALVHPNPNRPAHLRLKMYEFAGRLVG
KCLYESSLGGAYQLVRARFTRSF LAQIIGLRMHYKYFETDDPEFYKSKVCFILNNDMSEMELVFAEEKY
NKSGQLDKIVELMTGGAQTPVTNANKTFYLNLLAQYRLASQVKEEVEHFLKGLNELVPENLLAIFDENEL
ELLMCGTGDISVSDFKAHAVVVGGSWHFREKVMRWFVTVSSLTQEELARLLQFTTGSSQLPPGGFAALC
PSFQIIAAPTHSTLPTAHTCFNQLCLPTYDSYEEVHRMLQLAISEGCEGF GML

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-Mlul

Plasmid Map:


ACCN: NM_001106744

ORF Size: 2469 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_001106744.1](#), [NP_001100214.1](#)

RefSeq Size: 4982 bp

RefSeq ORF: 2472 bp

Locus ID: 299197

Cytogenetics: 6q31

MW: 94.3 kDa