

Product datasheet for **RR207890**

Aire (NM_001106379) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aire (NM_001106379) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aire
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR207890 representing NM_001106379
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGTGGGGATGGGATGCTGCGCCGCTGCTGAGGCTGCACCCGACCGAGATCGCAGTGGCCATAG
 ACAGCGCCTTTCCGCTGCTGCATGCTCTGGCCGACCACGACGTGGTCCCTGAGGACAAGTCCAGGAGAC
 ACTCCGGCTGAAAGAGAAGGAAGGCTGCCCCAGGCCTCCACGCGCTGCTGCTCCTGGCTCCTGACTCGG
 GACAGTGGGGCCATCCTGGATTTCTGGAGGGTTCTCTTTAAGGACTACAATCTGGAGCGGTACAGCCGCC
 TGCATACCATCCTGGACGGCTTTCCAAAAGATGTGGACCTTAGCCAGCCTCGGAAAGGGAGGAAGCCCT
 TGCTGGTCCCAAGGCTTCAGTAGTCCACCCAGACCCCCACAAGAGAAGGCCCTGGAAGAGCCTCGA
 GCCACCCACCAGCAACTCTGGCTCAAAGAGCATCTCTAGCCAGGTTCCCACTCAAAGGCCAAACCCC
 CTAGAAGCCAGAGGGCAACTTGGAGTACAGCGCCTCCCACTGGGAAACGGAATCCAGACCATGCGAGC
 TTCTGTCCAGAGAGCTGTACTGTCTCCGGGGATGTCCAGGATCCCGAGGGCTGTGAAGGGATC
 TTATCCAGCAAGTATTCGAGTCAAGGAGATCCAAGAAGTGCATCCAGGTTGGAGGGGAGTTTTATAAAC
 CCAGCAAGTTCGAAGACCCAGTGGCAATTTGAAGAACAAGACCCGAGGTGGTAGCAGCCTAAAGCCAGT
 GATCCGAGGAAAGGGAACCCAGGGTAGAGATGAGCAGAAAGTGAAGCCAGCAGTGTGGGGTCCCTCCCTT
 CCACCTTTCCCAATGAGCCCAAGTTCACCAGAAGAACGAGGATGAATGCGCTGTGTGCCATGACGGAG
 GCGAGCTCATCTGCTGTGACGGCTGTCCCGCGCCTCCACCTGGCTGCCTGTCCCCACCTCTGCAGGA
 GATCCCAAGTGGCCTTTGGAGATGTTCTGTGCTGCCTCCAGGCGAGAATCCAGCAGAACCTGTCCAGCCT
 GAGGAGTCCAGGCCCTGGAGCCATCTGCAGAGACCCCGATTCTCCTGGGACTGAGGTGAGTCCGAGA
 AAACCAGGGTCTGTCCAGGGAGCTGCCAGCCGCTCAGATGCTGCAGTACATATGCGAACCTGTGGC
 CCCACCTCCACAGCCCTGTTCTGGAGCCTTCAGCACTCTGCCCTTACCAGAGTGTGGGGCGGAAGGG
 CAGCCGGTCCGACACTGAGCGCGCATGCGGTGTGTGCGGCGACTCCACCGACGTGCTGCGGTGCGCAC
 ACTGTGCCGCTGCCTTTCACTGGCGCTGCCACTTCCCGATGGCTGCTGTCCGGCCAGGGACCAATCTCCG
 CTGCAAGTCTGCTCGGCAGAACCGACTCCACGCGAGGCGTCCAGGCGAGGCTGTGCCACCGCTGTG
 CGTCCACACCTGGGCTTGCCAAGGTAGGGGACGACTCTGCTAGTCATGACCCTGTTCTGCATAGGGATG
 ACCTGGAGTCCCTCCTGAATGAGCACTCCTTTGACGGCATCTGCAGTGGGCCATCCAGAGCATGTCAGC
 CCCGCTGGCCGAGACACCACCTTTTCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207890 representing NM_001106379
 Red=Cloning site Green=Tags(s)

MAGGDGMLRLLRRLHRTIEIAVAIDSAFLLHALADHDVVPEDKFQETLRLKEKEGCPQAFHALLSWLLTR
 DSGAILDVFRVLFKDYNLERYSLHTILDGFPKVDVLSQPRKGRKPLAGPKASVPPRPPPTKRRALEEPR
 ATPPATLASKSISPPGSHSKAKPPKPEGNLESQRLPLNGIQTMAASVQRAVTVSSGDVPGSRGAVEGI
 LIQQVFESGGSKKCIQVGGEFYKPSKFEDPSGNLKNKTRGGSSLPVIRGKGTQGRDEQKVSQQCGVPPL
 PPLPNEPQVHQNEDECAVCHDGGELICCDGCPRAFHLACLSPPLQEIPSGLWRCSCCLQGRIQQNLSQP
 EESRPLEPSAETPILLGLRSASEKTRVLSRELPAAGSDAAVTYANLLAPPSTAPVLEPSALCPLPSAGAEG
 QPGPTLSARCGVCGDSTDVLRCAHCAAFFHWRCHFPMAAVRPGTNLRCKSCSAEPTPTPGVPEAVPTAV
 RPTPLAKVGGDSASHDPVLRDDESLLENEHSFDGILQWAIQMSRPLAETPPFSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

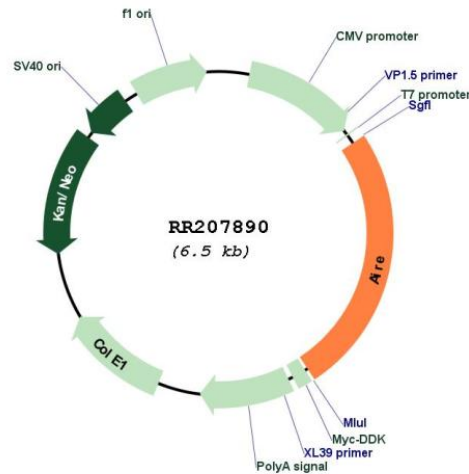
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001106379

ORF Size: 1641 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_001106379.1](#), [NP_001099849.1](#)

RefSeq Size: 1891 bp

RefSeq ORF: 1644 bp

Locus ID: 294328

Cytogenetics: 20p12

MW: 58.6 kDa