

Product datasheet for **MR204119**

Akr1c18 (BC034259) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Akr1c18
Synonyms:	AW146047
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR204119 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATCCAAAATTCAGAAGATAGAATTAATGATGGTCACTCCATTCTGTCTGGGCTTTGGCACCT
ATGCAACTGAAGAGCATCTCAAGAAAAAGTCTATGGAGTCCACCAAAATAGCTATAGATGTTGGGTTCTG
CCATATTGATTGTTCTCACTTGTACCAGAAATGAAGAAGAGATAGGCCAGGCCATTCTAAGCAAGATTGAA
GATGGCACTGTGAAAAGGGAAGATATTTCTATACTTCGAAGCTTTGGTCAACTCCCATCGTCCAGAGT
TGGTCAGACCCAGCTTGGAAAATTCCTGAGGAACTTAATTTGGACTATGTAGACCTCTATCTCATTTCA
TTTCCAGTGTCTCTGAAGGCCATGGAGAAGTGAAGGATGCAGGGCTGGCCAAGTCCATCGGGGTGTCT
AACTTTAACCCTAGACAAGTGGAGATGATCCTGAACAAGCCAGGGCTCAAGTACAAGCCTGTGTGAACC
AGGTAGAATGCCATCTTTATCTCAACCAGAGCAAGCTGCTGGCCTACTGCAAGATGAATGACATTGTTCT
GGTTGCCTATGGTCCCTGGGAACTCAAAGATACAAATACTGTATAAATGAGGATACCCAGTTCTCTTG
GATGATCCAGTCTTTGTGCCATGGCAAAGAAGTACAAGCGGACTCCAGCCCTGATTGCCCTTCGTACC
AGCTGGACCGTGGGATTGTGGCCCTAGCCAAGAGTTTCAATGAGGAGAGAATCAGAGAGAACATGCAGGT
CTTTGATTTCCAATTGGCTTCAGATGACATGAAAATTTAGATGGCCTGGACAGAAATCTTCGGTACTTT
CCTGCTGATATGTTTAAGGCTACCCCTAACTTTCCATTCTTCGATGAATAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR204119 protein sequence
Red=Cloning site Green=Tags(s)

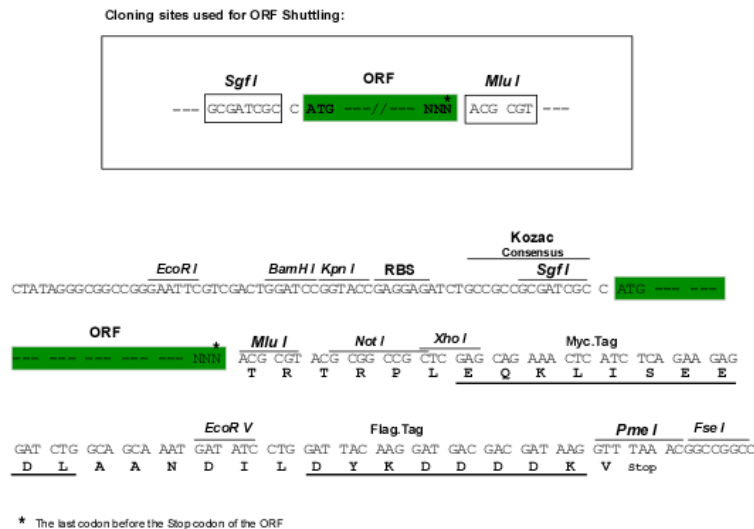
MNSKIQKIELNDGHSIPVLGFGTYATEEHLKKKSMESTKIAIDVGFCHIDCSHLYQNEEEIGQAILSKIE
DGTVKREDIFYTSKLWSTSHRPELVPSLENSLRKLNLDYVDLYLIHFPVSLKAMEKCKDAGLAKSIGVS
NFNRRQLEMILNKPGLKYKPCNQVECHLYLNQSKLLAYCKMNDIVLVAYGALGTQRYKYCINEDTPVLL
DDPVLCAKAKKYKRTPALIALRYQLDRGIVALAKSFNEERIRENMQVDFQLASDDMKILDGLDRNLRYF
PADMFKAHPNPFDFEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

BC034259

ORF Size:

891 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC034259](#), [AAH34259](#)

RefSeq Size: 1117 bp

RefSeq ORF: 893 bp

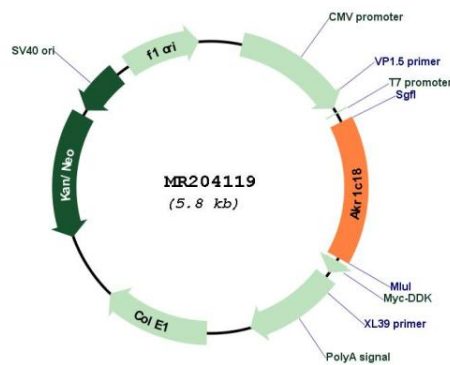
Locus ID: 105349

Cytogenetics: 13 A1

MW: 34.2 kDa

Gene Summary: Catalyzes the conversion of progesterone into 20-alpha-dihydroprogesterone (20 alpha-OHP).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204119