

Product datasheet for **MG204119**

Akr1c18 (BC034259) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Akr1c18
Synonyms:	AW146047
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG204119 representing BC034259
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATTCCAAAATTCAGAAGATAGAATTAATGATGGTCACTCCATTCTGTCTGGGCTTTGGCACCT
ATGCAACTGAAGAGCATCTCAAGAAAAAGTCTATGGAGTCCACCAAAATAGCTATAGATGTTGGGTTCTG
CCATATTGATTGTTCTCACTTGTACCAGAAATGAAGAAGAGATAGGCCAGGCCATTCTAAGCAAGATTGAA
GATGGCACTGTGAAAAGGGAAGATATATTCTATACTTCGAAGCTTTGGTCAACTCCCATCGTCCAGAGT
TGGTCAGACCCAGCTTGGAAAATTCCTGAGGAACTTAATTTGGACTATGTAGACCTCTATCTCATTCA
TTTCCAGTGTCTCTGAAGGCCATGGAGAAGTGAAGGATGCAGGGCTGGCCAAGTCCATCGGGGTGTCT
AACTTTAACCCTAGACAAGTGGAGATGATCCTGAACAAGCCAGGGCTCAAGTACAAGCCTGTGTGAACC
AGGTAGAATGCCATCTTTATCTCAACCAGAGCAAGCTGCTGGCCTACTGCAAGATGAATGACATTGTTCT
GGTTGCCTATGGTCCCTGGGAACTCAAAGATACAAATACTGTATAAATGAGGATACCCAGTTCTCTTG
GATGATCCAGTCTTTGTGCCATGGCAAAGAAGTACAAGCGGACTCCAGCCCTGATTGCCCTTCGCTACC
AGCTGGACCGTGGGATTGTGGCCCTAGCCAAGAGTTTCAATGAGGAGAGAATCAGAGAGAATGACAGGT
CTTTGATTTCCAATTGGCTTCAGATGACATGAAAATTTAGATGGCCTGGACAGAAAATCTTCGGTACTTT
CCTGCTGATATGTTTAAGGCTCACCTAACTTTCCATTCTTCGATGAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG204119 representing BC034259
 Red=Cloning site Green=Tags(s)

MNSKIQKIELNDGHSIPVLGFGTYATEEHLKKKSMESTKIAIDVGFCHIDCSHLYQNEEEIGQAILSKIE
 DGTVKREDIFYTSKLWSTSHRPELVRPSLENSLRKLNLDYVDLYLIHFPVSLKAMEKCKDAGLAKSIGVS
 NFNRRQLEMILNKPGLKYKPCNQVECHLYLNQSKLLAYCKMNDIVLVAYGALGTQRYKYCINEDTPVLL
 DDPVLCAMAKKYKRTPALIALRYQLDRGIVALAKSFNEERIRENMQVDFQLASDDMKILDGLDRNLRYF
 PADMFKAHPNFPFFDEY

TRTRPLE - GFP Tag - V

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

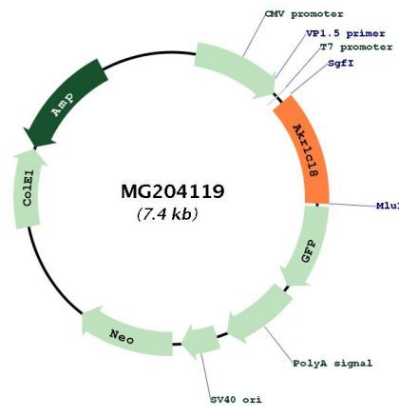
RefSeq ORF: 893 bp

Locus ID: 105349

Cytogenetics: 13 A1

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

Product images:



Circular map for MG204119