

Product datasheet for **RR215350**

Akr1c3 (NM_138510) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Akr1c3 (NM_138510) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Akr1c3
Synonyms: Akr1c18
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215350 representing NM_138510
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAATCCAAAATTCAGAAGATGGAGTTAAACGATGGTCACTCCATCCCTGTACTGGGCTTTGGCACCT
ATGCAACCGAAGAGAATCTCAGAAAAAGTCTATGGAGTCCACGAAAATAGCTATAGATGTTGGGTTCCG
CCATATTGATTGTTCTCACTTGTACCAGAATGAAGAAGAGATAGGTCAGGCCATTGTAAGCAAGATTGAA
GATGGCACTGTGAAAAGGGAAGATATATTCTATACTTCAAAGCTTTGGTCAAATCCCATCGTCCAGAGT
TGGTCAGACCCAGCTTGAAAAATCACTGAGGAACTTAATTTGGACTATGTAGACCTCTATCTCATTCA
TTTCCCGGTATCTCTGAAGCCAGGGGATGAGCTTTTACCTCAAGATGAGCATGGAACTTAATACTTGAC
ACAGTGGATCTCTGCGACACCTGGGAGGCCATGGAGAAGTGAAGGATGCAGGATTGGCCAAGTCCATCG
GGGTGTCAAATTTAACCAGCAGGCTGGAGAAGATCCTGAATAAGCCGGGGCTCAAGCACAGGCCTGT
GTGCAACCAGGTAGAATGCCATCTTTATCTCAACCAGAGCAAGCTGCTCGCTTACTGCAAGATGAATGAC
ATCGTTCTGGTTGCCTATGGTCCCTGGAACTCAGAGATACAAACTGTATTAATGAAGATACCCAG
TTCTCTTGGATGATCCATTCTTTGTACCATGGCAAAGAAGTACAAGCGGACTCCAGCCCTGATGGCCCT
TCGCTACCAGCTGGAGCGTGGGATTGTGACCCTAGTCAAGAGTTTCAATGAGGAGAGAATCAGAGAGAAC
CTGCAGGTCTTTGATTTCCAGTTGGCTTCAAGATGACATGGAAATTTAGATAACCTGGACAGAAATCTTC
GGTACTTCTCTGTAATATGTTAAAGGCTCACCTAATCTTCCATTCTCTGATGAATAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR215350 representing NM_138510
 Red=Cloning site Green=Tags(s)

MNSKIQKMEI~~NDGHSIPVLGFGTYATEENLRKKS~~MESTKIAIDVGF~~RHIDCSHLYQNEEEIGQAI~~VSKIE
 DGTVKREDIF~~YTSKLWSTSHRPELV~~RPSLE~~NSLRKLNLDYVDLYLIHFPVSLKPGDELLPQDEHGNL~~ILD
 TVDLCDTWEAMEKCKDAGLAKSIGVSNFNRRQLEKILNK~~PGLKHRPV~~CNQVECHLYLNQSKLLAYCKMND
 I~~LVVAYGALGTQRYKYCIN~~EDTPVLLDDPILCTMAK~~YK~~RTPALIALRYQLERGI~~VTLVKS~~FNEERIREN
 LQVDFDQLASDDMEILDNLD~~RNLRYFPANMFK~~AHPNPF~~S~~DEY

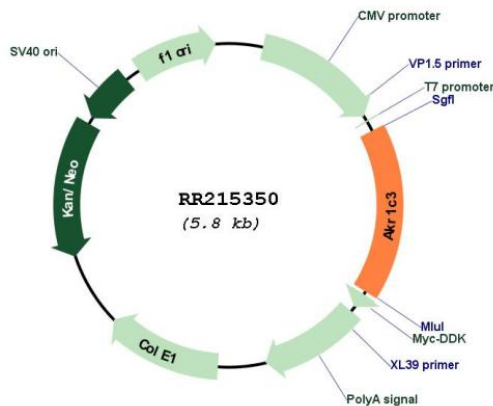
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138510
ORF Size: 969 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:	<ol style="list-style-type: none">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_138510.1 , NP_612519.1
RefSeq Size:	1215 bp
RefSeq ORF:	972 bp
Locus ID:	171516
UniProt ID:	P51652
Cytogenetics:	17q12.2
MW:	37.3 kDa
Gene Summary:	catalyses the conversion of progesterone into 20 alpha-dihydroprogesterone (20 alpha-OHP); activity is regulated by prolactin [RGD, Feb 2006]