

## Product datasheet for **RR200710**

### Akr1b10 (NM\_001013084) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akr1b10 (NM_001013084) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akr1b10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR200710 representing NM_001013084 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGCCTTCGTGAAGCTCAGTACCAAAGCCAAGATGCCCATTTGTGGCCTGGGCACCTGGAAGTCTC  
CCCCAGATAAAGTCAAGGAAGCTGTGAAGGCAGCCATTGATGCTGGATATCGCCACTTTGACTGTGCCTA  
TGTGTATCAGAACGAGAGTGAGGTGGGAGAAGCCATCCAAGAGAAGATCAAAGAGAAGGCTGTGAGGAGG  
GAGGACCTTTCATCGTCAGCAAGCTGTGGCCACCTTCTTTGAGAAAAGCCTGGTGAAGAAAGCCTTCC  
AGAAAACCCTCTTGATCTGAAGCTGGACTATCTGGACCTGATCTAATCACTGGCCACAGGGATTCA  
GTCTGGAAATGTCTTTTACCCACAGATGATAAAGGCAATGTTCTCACCAGTAAATATACATTCTTGAT  
GCTTGGGAGGGCATGGAGGAAGTGGTGGACCAGGGCTGGTGAAGCTCTGGCGCTCCTCAACTCAACC  
ACTTCCAGATCGAAAGGCTCCTGAACAAGCCTGGACTGAAACATAAGCCAGTGACCAACCAGGTCGAGTG  
CCACCCTTACCTACCCAGGAAAACTGATCCAGTACTGTCACTCCAAGGCATCGTGGTCACAGCCTAC  
AGTCCCCTGGGCTCCCCAGACAGGCCTAGTGCCAAGCCTGAGGACCCTGTATTGCTGGAGATTCCCAAGA  
TTAAAGAAATTGCTTCAAAGCACAAGAAAAGTGCAGCCCAGGTTCTGATCCGTTCCATATAGAGAGGAA  
CGTGGCCGTGATCCCAAGTCTGTGACACCCTCCCGCATACAAGAGAACATTCAGGTCTTTGACTTCCAG  
TTGAGTGAGGAGACATGGCCGCAATTCTCAGTTCAACAGGAAGTGGAGGGCCTGTGGCCTGTTTGGCG  
CAAGTCGTAATGAAGACTTCCCTTTCCTCCTCGGAATAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR200710 representing NM\_001013084  
 Red=Cloning site Green=Tags(s)

MAAFVKLSTKAKMPIVGLGTWKSPPDKVKEAVKAAIDAGYRHFDCAYVYQNESEVGEAIQEKIKEKAVRR  
 EDLFIIVSKLWPTFFEKSLVKKAFQKTLDDLKLDYLDLYLIHWPQGFQSGNVFLPTDDKGNVLTSKYTFLD  
 AWEGMEELVDQGLVKALGVSNNHFQIERLLNKPGLKHKPVTNQVECHPYLTQEKLIQYCHSKGIVVTAY  
 SPLGSPDRPSAKPEDPVLLLEIPKIKEIASKHKHTAAQVLIRFHIERNVAVIPKSVTPSRIQENIQVDFDQ  
 LSEEDMAAILSFNRNWRACGLFAASRNEDFPFHSEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001013084

**ORF Size:** 948 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_001013084.1](#), [NP\\_001013102.1](#)

**RefSeq Size:** 1446 bp

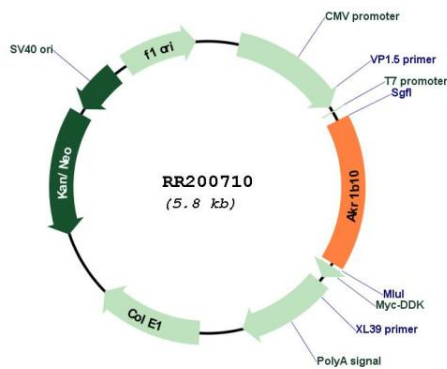
**RefSeq ORF:** 951 bp

**Locus ID:** 296972

**Cytogenetics:** 4q22

**MW:** 36 kDa

**Product images:**



Circular map for RR200710