

## Product datasheet for **RR207638**

### Akr1c14 (NM\_138547) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akr1c14 (NM_138547) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akr1c14
Synonyms:	Akr1c9
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207638 representing NM_138547 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGATCCATATCTCTGCGTGTAGCACTAAATGATGGTAACTTCATTCTGTACTGGGTTTGAACCA  
CTGTGCCTGAGAAGGTTGCTAAGGATGAAGTTATCAAGGCTACTAAAATAGCTATAGATAATGGATTCCG  
CCATTTTGACTCTGCTTATTTGTACGAAGTAGAAGAGGAAGTGGGCCAAGCCATTAGAAGCAAGATTGAA  
GACGGCACTGTGAAGAGAGAAGATATTTCTATACTTCAAAGCTTTGGAGCACTTCCATAGACCAGAGC  
TGGTCCGAACCTGCTTGAAAAGACACTGAAAAGCACTCAACTGGACTATGTGGATCTTTATATTATTCA  
TTTCCCAATGGCTTTGCAGCCTGGAGATATATTTTTCCACGAGATGAGCATGGAAAACCTATTGTTTGAA  
ACAGTGGATATCTGTGACACATGGGAGGCCATGGAGAAGTGAAGGATGCAGGATTGGCCAAGTCTATTG  
GGGTGTCCAACCTTAACTGCAGGCAGCTGGAGAGGATTCTGAATAAGCCAGGGCTCAAATACAAGCCTGT  
GTGCAACCAGGTGGAATGTCACCTTTATCTCAACCAGAGCAAAAATGCTGGACTATTGTAAGTCAAAAAGAC  
ATCATTCTGGTTTCCACTGCACGCTGGGAAGTTCACGAGACAAAACATGGGTGGATCAGAAAAGTCCAG  
TTCTCTAGATGATCCAGTTCTTTGTGCCATAGCAAAGAAGTACAAGCAAAACCCAGCCCTAGTTGCCCT  
TCGCTACCAGCTGCAGCGTGGGGTTGTGCCCTGATCAGGAGTTTCAACGCGAAGCGGATCAAAGAGCTA  
ACACAGGTTTTTGAATCCAGTTGGCTTCAGAGGACATGAAAGCCCTGGATGGCTTGAACAGAAATTTCA  
GATACAACAATGCAAAATATTTTGATGACCATCCAATCATCCATTTACTGATGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207638 representing NM\_138547  
 Red=Cloning site Green=Tags(s)

MDSISLRVALNDGNFIPVLGFGTTVPEKVAKDEVIKATKIAIDNGFRHFDSAYLYEVEEEVQAIRSKIE  
 DGTVKREDIFYTSKLWSTFHRPELVRTCLEKTLKSTQLDYVDLYIIHFPMALQPGDIFPRDEHGKLLFE  
 TVDICDTWEAMEKCKDAGLAKSIGVSNFNCRQLERILNKPGLKYKPVCNQVECHLYLNQSKMLDYCKSKD  
 IILVSYCTLGSSRDKTWVDQKSPVLLDDPVLCIAKKYKQTPALVALRYQLQRGVVPLIRSFNAKRRIKEL  
 TQVFEFQLASEDMKALDGLNRNFRYNNAKYFDDHPNHPFTDE

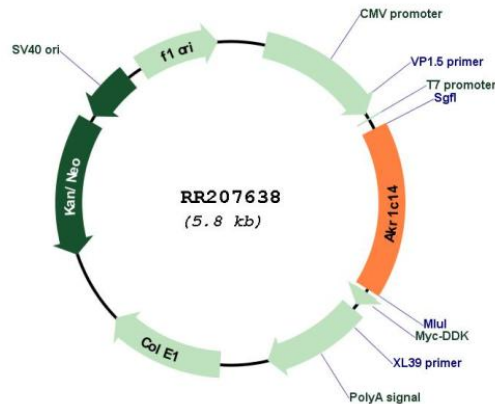
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_138547

**ORF Size:** 966 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_138547.3</a> , <a href="#">NP_612556.1</a>
<b>RefSeq Size:</b>	2349 bp
<b>RefSeq ORF:</b>	969 bp
<b>Locus ID:</b>	191574
<b>UniProt ID:</b>	<a href="#">P23457</a>
<b>Cytogenetics:</b>	17q12.2
<b>MW:</b>	37 kDa
<b>Gene Summary:</b>	catalyzes the conversion of 5 alpha-dihydrotestosterone to 3 alpha-androstanediol in steroid metabolism [RGD, Feb 2006]