

## Product datasheet for RN201425

### Akr1c2 (NM\_001013057) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Akr1c2 (NM\_001013057) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Akr1c2  
**Synonyms:** Akr1c21  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN201425 representing NM\_001013057  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGAACTCCAAATGTCATTGTGTGAACTGAACGATGGTCATTTTCATTCCGGTCTGGGTTTTGAACTG  
CTATGCCCTTCAGAGTTACCCAAGAGTAAAGCTAAGGAGGTCACCAAAATAGCTATAGATGCTGGTTTCCA  
TCATTTTGATTCTGCTTTTGTCTACAATACCGAAGATCATGTAGGAGAGGCCATCCGAGAGAAGATTGCC  
AATGGCACTACAAGGAGAGAAGATATATTTTACACATCAAAGCTTTGGTGTACGAGCCTTACCCAGAAC  
TGGTGAGATCTTCCTTGGAAATGTTCACTGAAGAACTTCAGTTGGACTATGTGGACCTGTATCTCATACA  
TTTTCCGATGGCCTTGAACCAGGAGATGAAAATTTTCCAGTAGATGAACATGGAAGTTACTATTTGAC  
ACAGTAGATCTCTGTGCTACCTGGGAGGCCATGGAGAAGTGAAGGATGCAGGACTGGCCAAGTCCATCG  
GGGTGTCCAACCTTAACCGCAGGCAGCTGGAGAAGATCCTGAACAAGCCGGGGCTCAAATACAAGCCTGT  
GTGCAACCAGGTAGAATGCCATCTTTATCTCAACCAATGAACTGCTGGATTTCTGCAAGACAAATGCC  
TTCTCTTGAATGAACAGTCTTATAGTTCCATGGCAAAAAATACAATCAAATCCAGCCTTGATTGCCCT  
TCGCCATCAGTTGCAGCGTGGGATTGTGGTACTTAACACCACTCAAAGAAGAGCGGATCAAAGAGAAC  
ATGAAGCTGAGTCCAGAAGATATGAAAGTCCTTGATGACCTGAACAGAAATTTGCGGTACATAGCTGGTG  
GAATATTTGAAGGCCACCCTAATTTTCCGTTTTTGGATGAATACTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001013057  
**Insert Size:** 957 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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_001013057.1</a> , <a href="#">NP_001013075.1</a>
<b>RefSeq Size:</b>	1398 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	291283
<b>UniProt ID:</b>	<a href="#">Q6AYQ2</a>
<b>Cytogenetics:</b>	17q12.2
<b>Gene Summary:</b>	NADP-dependent 17-alpha-hydroxysteroid dehydrogenase that converts 5-alpha-androstane-3,17-dione into androsterone. Has lower 3-alpha-hydroxysteroid dehydrogenase activity. Has broad substrate specificity and acts on various 17-alpha-hydroxysteroids, 17-ketosteroids, 3-alpha hydroxysteroids and 3-ketosteroids. Reduction of keto groups is strictly stereoselective. Reduction of 17-ketosteroids yields only 17-alpha-hydroxysteroids. Likewise, reduction of 3-ketosteroids yields only 3-alpha-hydroxysteroids (By similarity).[UniProtKB/Swiss-Prot Function]