

Product datasheet for **MC203832**

Akr1c21 (NM_029901) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akr1c21 (NM_029901) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akr1c21
Synonyms:	9430025F20Rik; AI315367
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC013531 GTGAAGGCAAACATCAAGCTGAGCCAGCTTATTTTGAAGAGGGACACATAATGAACTCCAATGTCATTG TGTCATATTGAATGATGGTAACTTCATTCCAGTGCTGGGTTTTGGTACTGCTCTTCTGTAGAGTGTCCC AAGAGTAAAGCTAAGGAGCTACCAAAAATAGCTATAGATGCTGGTTTTCCATCACTTTGATTCTGCTTCTG TCTATAATACCGAAGATCGTGTAGGAGAGGCCATCAGAAGCAAGATTGCTGATGGCACTGTAAGGAGAGA AGATATATTTTACACCTCAAAGTTTGGTGTACTAGCCTTCGCCAGAATTGTGAGAGCTTCTTGGTA CGGTCACTGCAAAAACCTCAGTTCGATTATGTGGACCTGTATCTCATTACCAATGGCCCTGAAAC CAGGAGAAGAAAATTTCCAGTAGATGAACATGGAAAATTAATATTTGACAGAGTGGACCTCTGTGCCAC CTGGGAGGCCATGGAGAAGTGAAGGATGCAGGACTAACCAAGTCCATTGGGGTGTCTAACTTTAACTCT AGACAGTTGGAGATGATTCTGAATAAGCCTGGGCTCAAGTACAAGCCGGTATGCAACCAGGTAGAATGCC ATCCTTATCTCAACCAAATGAACTTCTGGATTTCTGCAAATCAAAGATATTGTATTGGTTGCCTATGG TGTCTAGGAACAACGATATGGAGGATGGGTAGACCAGAATCCCCTGTTCTCTTGGATGAACCAGTT CTTGGTTCCATGGCAAAAAAATAAATCGAACTCCAGCCTTGATTGCCCTTCGCTACCAGTTACAGCGTG GGATTGTGGTCTCAACACCAGTCTCAAAGAGGAGCGGATCAAAGAGAACATGCAGGTTTTTGAATTCCA GCTGAGTTCAGAGGATATGAAAGTTCTTGATGGCCTGAACAGAAAATATGCGATACATACCTGCTGCCATT TTCAAGGGCCACCCTAATTGGCCATTTTGGATGAATACTAGTATGTGAGGATGTCTCCTGAAAAGCCTA TGAGTGGGACACTGCTCAGCTGCTGCCATCTACAGACTTGCCACTTCTCTGTAGCAATTGAGAACTTCTT GAAGATAACAAAAAGATATCATACCACTCTGAAAAAAAATAAAAGACTCATTCTTCAGCAAAAAAAAAAAAA AAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_029901
Insert Size:	972 bp



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OTI Disclaimer:	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).
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:	<u>BC013531</u> , <u>AAH13531</u>
RefSeq Size:	1194 bp
RefSeq ORF:	972 bp
Locus ID:	77337
UniProt ID:	<u>Q91WR5</u>
Cytogenetics:	13 A1
Gene Summary:	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.[UniProtKB/Swiss-Prot Function]