

Product datasheet for **MC203314**

Akr1c6 (NM_030611) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akr1c6 (NM_030611) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Akr1c6
Synonyms:	3alpha-HSD; Akr1c1; Hsd17b5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC056643 GTATCTTCTCAGTTGGTGGGCTGAGAAGCCATGGATTCTAAGCAGCAGACAGTGCCTCTAAGTGATGGTC ACTTCATCCCTATACTGGGGTTTGGTACCTATGCACCTCAAGAGGTACCTAAGAGTAAGGCTACAGAAGC TACTAAAATAGCCATAGATGCTGGTTTCCGCCATATTGATTCTGCTTCTATGTATCAAAATGAAAAGGAA GTAGGACTAGCCATCCGAAGCAAGATAGCAGATGGCACTGTGAAGAGGGAAGATATATTTTACACATCAA AGGTTTGGTGTACTTTTCATCGTCCAGAACTCGTACGGGTCTGCTTGGAACAGTCATTGAAGCAACTCCA GTTGGACTATGTGGACCTGTACCTCATTCAATTTCCCAATGGCCATGAAGCCGGGAGAAAATTATCTCCCA AAAGATGAAAATGGAAAATTAATATATGATGCTGTGGATATCTGTGACACCTGGGAAGCCATGGAGAAAT GCAAGGATGCAGGATTGGCCAAGTCCATTGGGGTGTCCAACCTTAACCGCAGGCAGCTGGAGAAGATCCT GAAAAAGCCGGGGCTCAAGTACAAGCCTGTGTGCAACCAGGTAGAATGTCATCCTTATCTCAATCAGGGA AAACTTCTGGATTCTGCAGGTCAAAGACATTGTTCTGGTTGCTTACAGTGCTCTGGGAAGCCATCGTG AAAAACAATGGGTTGATCAGAGCTCTCCTGTTCTTTTGGATAATCCAGTCTTGGCTCAATGGCAAAAAA GTACAATCGAACTCCTGCGCTGATTGCCCTTCGCTACCAGCTACAACGTGGGGTTGTGGTCTCGCCAAG AGTTTCTCTGAGAAGAGGATAAAAAGAGAATATGCAGGTTTTTGAATTTTCAGTTGACTTCAGAGGACATGA AAGTCTCGATGACCTGAATAAAAATACCGATACATAAGTGGTTCTAGCTTTAAGGACCATCCTGATTT TCCATTTTGGGATGAATACTAACTGGAGGTCCATTTTGTGCCCTTGTGCCAGATGCTCACTGCATTGGAGA GTGTATAGGAAGAGTATTCTCAAATGTGATGATTACATATCACCTAATCCAAGCTTCTGAGCAATTCT GGCTCTGCTGAATCTACCATTTTAACCAAGAAAAGCCAAAAACTATGTATATTTCTCCTTTCTAAGAAAATAA AGAATCGTTATTCTTTAGCATTAAAAA
Restriction Sites:	RsrII-NotI
ACCN:	NM_030611
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:	BC056643 , AAH56643
RefSeq Size:	1230 bp
RefSeq ORF:	972 bp
Locus ID:	83702
UniProt ID:	P70694
Cytogenetics:	13 2.48 cM
Gene Summary:	Active toward androgens, estrogens, and xenobiotic substrates. Also exhibits low 20 alpha-HSD activity. Shows a-stereospecificity in hydrogen transfer between cofactors and substrates (A-specific). Preferentially catalyzes the reduction of 4-androstenedione, 5-alpha-androstane-3,17-dione, androsterone and dehydroepiandrosterone to testosterone, dihydrotestosterone, 5-alpha-androstane-3-alpha,17-beta-diol and 5-androstene-3-beta,17-beta-diol, respectively.[UniProtKB/Swiss-Prot Function]