

Product datasheet for **RN205894**

AcsI4 (NM_053623) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AcsI4 (NM_053623) Rat Untagged Clone
Tag:	Tag Free
Symbol:	AcsI4
Synonyms:	Acs4; Facl4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN205894 representing NM_053623
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAAAGAGAATAAAGCTAAGCCACTTCAGACAAACCCGGAAGTCCATATCGTCTGTGCACGCACT
 TCGACTACTAGCTGTACATAGACATCCCTGGAGCAGATACTCTGGATAAAATTATTTGACCATGCTGTAGC
 CAAGTTTGGGAAGAAGGACAGCCTGGGGACCCGGGAGATCCTGAGCGAAGAAAATGAAATGCAGCCAAAT
 GGAAAGGTTTTAAGAAGTTAATCTTGGGAATTATAAATGGATAAACTATCTTGAAGTGAAGTGGCGAG
 TGAATAACTTTGGAAGTGGCCTCACTGCCTGACTGGGACTGAAACCAAGAACACCATTGCCATTTCTGTGA
 GACCAGGGCGGAGTGGATGATTGCAGCGCAGACCTGCTTAAAGTACAACCTTCCGCTTGTGACTTTATAT
 GCTACCCTTGGCAAAGAAGCTGTCGTTTCAATGATTAAATGAGTCTGAGGCTTCTATCTGATTACTAGTG
 TTGAACCTCTGGAAAGCAAACCTGAAGGCGGCATTATTAGATATCAATTGTGTTAAACATATCATTATGT
 GGATAACAAGACTATCAATAGAGCGGAGTACCCCGAGGGGCTTGAGATTCACAGCATGCAGTCAGTAGAG
 GAGCTGGGATCCAAGCCAGAAAACCTCAAGCATTCTCCAAGTAGACCAACTCCTTCGGACATGGCCATTG
 TCATGTACACCAGTGGCTCTACTGGCCGCCCAAGGGAGTGTATGCACCATAGCAATCTGATAGCTGG
 GATGACAGGCCAGTGTGAGCGCATACCTGGATTAGGACCAAAGGACACATATATTGGCTACTTACCTTTG
 GCTCATGTGCTGGAAGTACAGCAGAGATCTCCTGCTTACCTACGGCTGTAGGATTGGATATTCGTCAC
 CACTCACACTGTCTGACCAGTCCAGCAAATCAAGAAGGGAAGCAAGGGTATTGTACTGTACTGAAACC
 TACACTTATGGCGGCCGTTCCGGAAATCATGGATAGAAATTTACAAGAATGTTATGAGCAAGGTTCAAGAG
 ATGAATTATTCAGAAGACTCTATTTAAAATTTGGGTATGATTATAAATAGAGCAAATCAAGAAGGAT
 ATGATGCCCTCTTTGTAATCTGATACTGTTTAAAGAAGTGAAGGCTCTCTAGGAGGAAATGTCCGCAT
 GATGCTGTCCGGCGGTGCCCACTGTCCCCCAGACACACCGATTCAATGAATGTCTGCTTCTGCTGCCCC
 ATTGGTACAGGCTATGGGCTGACAGAATCATGCGGTGCTGGAACAGTTACTGAAGTTACCGACTACACTA
 CTGGAAGAGTTGGCGCTCCTCTTATTTGCTGTGAAATTAAGTGAAGGACTGGCAGGAAGTGGTTATAC
 AGTTTCATGATAAGCCAAACCCAGAGGTGAAATTTGTGATTGGAGGCCAGAATATCTCCATGGGATTTTT
 AAAAATGAAGAGAAAACAGCAGAAGATTATTCTGTGGATGAAAATGGACAAAGGTTGGTTTGCCTGGTG
 ATATTGGAGAATCCACCCTGATGGATGCTTACAGATTATCGATCGTAAGAAAGATCTGGTGAAGCTGCA
 AGCCGGAGAGTACGTGTCTCTTGGGAAAGTCAAGCCGCACTGAAGAATTGTCCACTGATCGACAACATC
 TGTGCTTTTGCCAAAAGTGACCAGTCTTATGTGATCAGTTTTGTGTTCCCAACCAGAAAAGTTGACTC
 TTTTGGCACAACAGAAGGGGTAGAAGGATCTTGGGTTGATATTTGCAATAATCCTGCCATGGAAGCTGA
 AATACTGAAAGAAATTCGAGAAGCTGCAATGCCATGAAATTGGAACGATTTGAAATTCCAATCAAAGTT
 CGATTGAGCCCAGAGCCATGGACCCCTGAAACTGGTTTGGTAACAGATGCCTTCAAGCTGAAAAGGAAGG
 AACTGAAGAACCATTATCTTAAAGACATTGAGCGGATGTATGGGGCAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2737_h05.zip

Restriction Sites: SgfI-MluI

ACCN: NM_053623

Insert Size: 2013 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 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](#)

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_053623.1](#), [NP_446075.1](#)

RefSeq Size: 4862 bp

RefSeq ORF: 2013 bp

Locus ID: 113976

UniProt ID: [O35547](#)

Cytogenetics: Xq33

Gene Summary: catalyzes the ligation of a fatty acid to produce acyl Co-A; acts on a wide range of fatty acids with preferential activity for arachidonate and eicosapentaenoate; plays a role in fatty acid metabolism [RGD, Feb 2006]