

Product datasheet for **RR210351**

Acss3 (NM_001108091) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acss3 (NM_001108091) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acss3
Synonyms:	RGD1307051
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210351 representing NM_001108091
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGCCCTCCTGGTTGCAATGTCGCAAAGTAAACAGGCGCCGGGACGCTTGGGGCACCTCTGCCAGGAT
 CCCCTTCAGTAAGAGGAGCTGGTGTGGCCGAAGGCTTTGGTGGCCGGGTTCCGGGGCAGGGGCTGCAG
 GGCTCTGACCACAAGCAGCGGTGGTGGCGAGTACAAGACCCACTTTGCAGCCTCTGTGGCTGACCCGGAG
 AGATTCTGGGGTAAAGCTGCTGAGCAGATCAGTTGGTACAAGCCCTGGACCAAAACTAGAGAACAGAT
 ACCCGCCTTCCACTAGTTGGTTTGTGGAAGGGATGCTCAACATTTGTTACAATGCTATTGATCGGCACAT
 CGAAAAATGGCCAAGGGGATAAGATCGCTATCATCTATGACAGTCCCGTTACAGACACCAAAGCAACTATC
 TCCTATAAGGAAGTCTTGAGCAGGTCTCTAAGCTGGCTGGTGTCTTGGTCAAGCAAGGTGTCAAGAAAG
 GTGATACTGTGGTCATCTACATGCCATGATCCACAAGCAATATACGCCATGTTGGCATGTGCGAGGAT
 AGGCGCAATTCACAGTCTCATATTCGGCGGGTTTGCATCCAAGGAATTAAGTACACGCATTGATCATGTG
 AAGCCTAAGGTGGTTGTTACAGCATCATTCCGGCATTGAGCCTGGGAGGAAGGTAGAGTACATGCCCTTC
 TAGAAGAAGCTCTCAGAATAGGACAACACAAACCAGACAGACTCCTCATTACAACCGTCCAAATATGGA
 GAAAGTTCCTTTGATGTCAGGTCGTGATCTTGATTGGGAAGAAGAAATGGCAAAAGCCAGTCACATGAC
 TGGCTGCCTGTTCTCAGAGCATCCCTTGTACATTCTCTACACATCTGGAACAACTGGCCTGCCTAAGG
 GTGTAGTTAGACCCTGGGGGATAGCTGTAATGTTGAACTGGACAATGTCTTCCATATATGGACTTAA
 ACCTGGAGAGGTATGGTGGGAGCTTCTGACTTAGGCTGGGTTGTCGGACATTCCTATATTTGCTATGGT
 CCTCTTCTACATGGAAACACAACAGTTTATATGAGGGGAAACCTGTGGGAACACCGGATGCTGGCGCTT
 ATTTCCGTGTGCTCGCAGAGCATGGAGTGGCTGCCTTGTTCACAGCACCAACCGCAATTAGAGCCATCCG
 TCAACAGGACCCTGGGGCAGCCTTGGGGAAGCAGTACTCTGACAAGGTTCAAGACACTGTTTGTGGCT
 GGGGAAAGATGTGATGTGGAGACCCTAGAGTGGTCCAAAAAAGTCTTCCGCGTTCCTGTCTAGACCACT
 GGTGGCAACAGAGACTGGATCCCCATCACAGCATCATGTATCGGACTAGGCAACTCCAAAAACCCCC
 ACCAGGACAAGCAGGAAATGTGTTCCAGGATACAATGGAAGCTACCTGTCTTATAATTCTGTGATGTCT
 CTGACTTCTCCTGCTATGAAAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210351 representing NM_001108091
 Red=Cloning site Green=Tags(s)

MKPSWLQCRKVTGAGTLGAPLPGSPSVRGAGVARRALVAGFGGRGCRALTTSSGGGEYKTHFAASVADPE
 RFWGKAAEQISWYKPWTKLENRYPPSTSWFVEGMLNICYNAIDRHIENGQGDKIAIYDSPVTDKATI
 SYKEVLEQVSKLAGVLVKQGVKKGDTVVIYMPMIPQAIYAMLACARIGAIHSLIFGGFASKELSTRIDHV
 KPKVVVTASFIEPGRKVEYMPLEELRIGQHKPDRLLIYNRPNMEKVPLMSGRDLDWEEEMAKAQSHD
 CVPVLSEHPLYILYTSGTTGLPKGVVRPTGGYAVMLNWTMSSIYGLKPGEVWVAASDLGWVVGHSYICYG
 PLLHGNTTVLYEGKPVGTPDAGAYFRVLAEHGVAALFTAPTAIRAIRQQDPGAALGKQYSLTRFKTLFVA
 GERCDVETLEWSKVFVRVPLDHHWQTETGSPITASCIIGLNSKTPPPGQAGKCVPGYNGSYLSYNSVMS
 LTSPAMKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

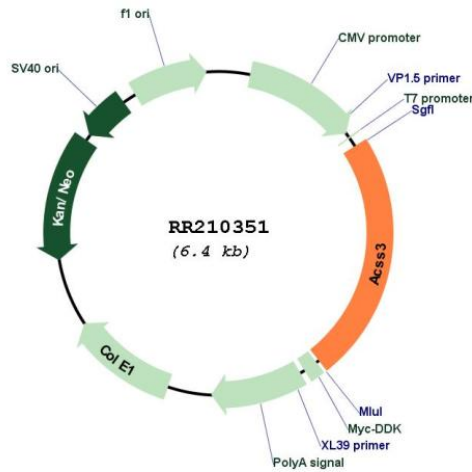
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001108091

ORF Size: 1494 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001108091.1, NP_001101561.1

RefSeq Size: 2442 bp

RefSeq ORF: 1497 bp

Locus ID: 314800

Cytogenetics: 7q21

MW: 54.2 kDa

Gene Summary: Catalyzes the synthesis of acetyl-CoA from short-chain fatty acids (PubMed:28003429). Propionate is the preferred substrate but can also utilize acetate and butyrate with a much lower affinity (PubMed:28003429).[UniProtKB/Swiss-Prot Function]