

Product datasheet for **MR209248**

Acot11 (NM_025590) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Acot11 (NM_025590) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Acot11
Synonyms:	1110020M10Rik; 2010309H15Rik; AW060409; BFIT; BFIT1; mKIAA0707; Thea; Them1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR209248 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCAAGATGTGGGCAACCACTTGCAGGGGCTTCGCCTCTATGTTCTCTAATCGCACATCCCGGA
 AGTCAATCTCCATCCGAGTCTGGAGACCCTCCTACCATGGCAGAGGGTGAAGGATACCGAACCAC
 GGAGGTGCAGATGAGCCAGCTGGTACTGCCCTGCCACACCAACCACCGTGGGGAGCTGAGCATTGGACAG
 TTGCTCAAGTGGATCGACACCACAGCCTGCCTATCAGCGGAGAGGCATGCTGGCTGTCCCTGCGTCACAG
 CCTCTATGGATGACATCTACTTCGACCATACCATTAGTGTGGCCAAAGTGGTGAATCAAGGCCAAGGT
 GAACCGGGCCTTCAACTCCAGCATGGAGGTGGGAATCCAGGTGGTCTCTGAGGATCTGTGCTCTGAGAAG
 CAGTGGAGTGTCTGCAAGGCCTTGGCCACCTTTGTGGCCACCGGGAGCTCTCAAGGTGAAGCTGAAGC
 AGGTCATCCATTGACCGAGGAGGAGAAGACTGAACATGGGGTGGCGGCTGAGCGCCGGCGTATCGGACT
 GGTCTATGCAGACACCATCAAAGATCTCCTAACCCACTGTGTATCCAGGACGATTTGGACAAGGACTGC
 AGCAATATGGTGGCAGCCGAGAAGACCCGAGTGGAGAGTGTGGAGCTGGTGTGCTCCTCACGCCAATC
 ATCAGGGCAATACCTTCGGGGGACAGATCATGGCTTGGATGGAGAATGTGGCCACCATTGCAGCCAGCCG
 GCTCTGTACGCCACCCTACGCTCAAGGCCATCGAGATGTTCCATTTCCGAGGCCCGTCTCAGGTGGGG
 GACCGTCTGGTGTCAAGGCCATCGTGAATAACGCCTTTAAGCACAGCATGGAGGTGGGTGTGTGTGTGG
 AGGCGTACCGCCAGGAAGCTGAGACCCAGCGCCGGCACATCAACAGCGCCTTCATGACCTTCGTGGTCTCT
 GGACAAAGATGACCAGCCTCAGAAGCTGCCCTGGATTCTGCCAGCCTGGAGAGGGTGAACGGCGATAC
 CGAGAAGCCAGTCCAGGAAGAAGATCCGCCTGGACAGGAAATACCTTGTGTCTGTAAGCAGGCAGAAG
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 GACGCTCATGGCCAAGGACAACCTGGGTGCTGTCCGTGGAGATCAGCGAGGTCCGCCTGTACATCCTAGAA
 GAGGACTTCTCTCTTTCACTTGGAGATGGTGGTAAATGTGGATGCCGCCAGGTCTTTTCACTGCTGT
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 GGATGACGCCATCTACCACGTATCAGCCCCGCCCTGAGCGGGAACACCAAGCCCCAGGACTTTGTGATC
 CTGGCCTCTAGGCGGAAGCCTTGTGACAATGGGACCCCTATGTCATTGCCCTGAGGTGGTGCAGCTGC
 CCACGCACCATGAGACACCGGAATACCAACGTGGGAGACTCTCTGTTCAAGGCTTCTGTCTGTGGCGTGA
 GGGGGACCAGATGACTAAGTTTTCTACTACAACCAAGGCCACCCCGGCTTTCTCAACTATGTGACCACC
 AATGTGTCCGGCCTGTCTCAGAATTCTACAACACTTTCAAGGCTTGTGAGAGTTTTCTGTTGGACAACC
 GGATGACCTAGCTCCAGCCTCCAGACCCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209248 protein sequence
 Red=Cloning site Green=Tags(s)

MIQVGNHLRRGFASMF SNRTRSRKISHPESGDPPTMAEGEGYRNPTEVQMSQLVLPCHTNHRGELSIGQ
 LLKWIWDTTACL SAERHAGPCVTA SMDDIYFDHTISVGQV VNIKAKVNR AFNSSMEVGIQV VSEDL CSEK
 QWSVCKALATFVAHREL SKVKLQVIPLTEEEKTEHGVA AERRRMR L VYADTIKDLLTHC VIQDDL DKDC
 SNMVPAEKTRVESVELVLP PHANHQNTFGGQIMAWMENVATIAASRLCHA HPTLKA IEMFHRGPSQVG
 DRLVLKAI VNNAFKHSMEVGVCEAYRQE AETQRRHINS AFMTFVVL DKDDQPQKLPWIRPQPGEGERRY
 REASARKKIRLDRKYLVSCKQAEVALSVPWDPSNQVYLSYNNVSSLKTLMAKDNWVLSVEISEVRLYILE
 EDFLSFHLEMVNVDAQVQQLSDLRRRPEWDKHYRSVELVQQVDEDDAIYHVISPALSGNTKPDQFVI
 LASRRKPCDNGDPYVIALRSVTLPTHETPEYQRGETLCSGFCLWREGDQMTKVSYYNQATPGFLNYVTT
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

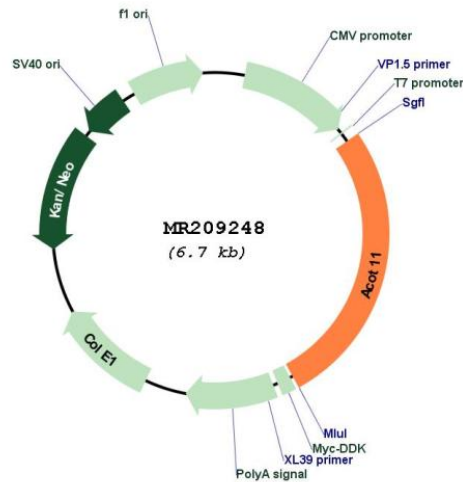
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025590

ORF Size: 1785 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:	<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:	NM_025590.4 , NP_079866.2
RefSeq Size:	5668 bp
RefSeq ORF:	1785 bp
Locus ID:	329910
UniProt ID:	Q8VHQ9
Cytogenetics:	4 C7
MW:	67.4 kDa
Gene Summary:	Has an acyl-CoA thioesterase activity with a preference for the long chain fatty acyl-CoA thioesters hexadecanoyl-CoA/palmitoyl-CoA and tetradecanoyl-CoA/myristoyl-CoA which are the main substrates in the mitochondrial beta-oxidation pathway.[UniProtKB/Swiss-Prot Function]