

Product datasheet for **RG222250**

ACOT11 (NM_015547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ACOT11 (NM_015547) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ACOT11
Synonyms:	BFIT; STARD14; THEA; THEM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG222250 representing NM_015547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCCAGAATGTCGGAATCACCTGCGACGGGCTTGGCCTCTGTGTTCTCCAACCGCACATCCCGGA
 AGTCAGCCTTACGTGCGGGAAACGACAGTGCCATGGCAGACGGCGAGGGATACCGGAACCCACGGAGGT
 GCAGATGAGCCAGCTGGTGTGCCTGCCACACCAACCAACGTGGTGAGCTGAGCGTCGGGCAGCTGCTC
 AAGTGGATTGACACCACGGCTTGCCTGTCCGCGGAGAGGCACGCTGGCTGCCCTGTGTACAGCTTCCA
 TGGATGACATCTATTTTGGACACACCATAGTGTGGACAAGTGGTGAATATCAAGGCCAAGGTGAACCG
 GGCCTTCAACTCCAGCATGGAGGTGGGCATCCAGGTGGCCTCGGAGGACCTGTGCTCTGAGAAGCAGTGG
 AATGTGTGCAAGGCCCTTGGCCACCTTCGTGGCCCGGAGAGATACCAAGGTGAAGCTGAAGCAGATCA
 CGCCGCGGACAGAAGAGGAGAAGATGGAGCACAGTGTGGCGGCTGAGCGCCGGCGCATGCGCCTTGTCTA
 TGCAGACACCATCAAGGACCTCTGGCCAACTGCGCCATTCAGGGCGATCTGGAGAGCAGAGACTGTAGC
 CGCATGGTGCCGCTGAGAAGACCCGTGTGGAGAGTGTGGAGCTGGTCTGCCTCCCCACGCCAATCACC
 AGGGCAACACCTTTGGGGCCAGATCATGGCCTGGATGGAGAATGTGGCCACCATTGCAGCCAGCCGGCT
 CTGCCGTGCCACCCTACGCTGAAGGCCATTGAAATGTTCCACTTCCGAGGCCCGTCCCAGGTCCGGCAGC
 CGTCTGGTGCTCAAAGCCATCGTGAACAATGCCTTCAAACATAGCATGGAGGTGGGCGTGTGCGTGGAGG
 CCTATCGCCAGGAGGCTGAGACCCACGGCGCCACATCAACAGTGCCTTTATGACCTTTGTGGTCTGGA
 CGCAGATGACAGCCCAAGTGTGCTGCCCTGGATTTCGGCCCCAGCCGGCGATGGTGAAGCAGACAGAGTGC
 GAGGCCAGTCCAGAAAGAAGATCCGCCCTGGACAGGAAGTACATCGTGTCTGTAAGCAGACAGAGGTGC
 CCCTCTCCGTCCCCTGGGACCCTAGCAACCAGGTGTACCTGAGCTACAATAACGTCTCCTCTTGAAGAT
 GCTTGTGGCCAAGGACAACCTGGGTGCTGTCTCGGAGATCAGTCAGGTCCGCTGTACACTCTGGAGGAT
 GACAAGTTCCTCTCCTTCCACATGGAGATGGTGGTGCATGTGGATGCAGCCAGGCTTCTGCTGCTCT
 CGGACCTGCGTCAGAGGCCAGAGTGGGACAAGCACTACCGGAGCGTGGAGCTAGTGCAGCAGGTAGACGA
 GGACGACGCCATCTACCACGTCACCAGCCCTGCCCTCGGAGGTACACAAAGCCCCAGGACTTCTGTGATC
 CTGGCCTCGAGGCGGAAGCCTTGTGACAATGGGACCCCTATGTCATCGCGCTGAGGTGGTCCAGCTGC
 CCACACCCGAGAGACGCCAGAGTACAGACCGGAGAGACCTCTGCTCAGGCTTCTGCCTTGGCGGA
 GGGGACCAGCTGACCAAGTGTGCTGGGTTAGGGTCTCCCTGACTGAGCTGGTCTCGGCAAGTGGCTTC
 TATTCCTGGGGGCTCGAATCCAGGTCAAAGGTCGCAGGAGCGACGGTTGGAATGAAAACTAGCTGGAG
 GACACCTGAGTACTCTTAAAGCAATCCCGTGGCCAAAATCAACAGCCGATTTGGATACCTCAAGACAC
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG222250 representing NM_015547
 Red=Cloning site Green=Tags(s)

MIQNVGNHLRRLASVFSNRTRSRSALRAGNDSAMADGEGYRNPTEVQMSQLVLPCHTNQRGELSVGQLL
 KWIDTTAACL SAERHAGCPCVTASMDIIFEHTISVGQVNIKAKVNRANSSMEVGIQVASEDLCEKQW
 NVCKALATFVARREITKVKLKQITPRTEEEKMEHSVAAERRRMRLVYADTIKDLLANCAIQGDLESRDSC
 RMVPAEKTRVESVELVLPphanHQNTFGGQIMAWMENVATIAASRLCRAHPTLKAIEMFHRGPSQVGD
 RLVLKAI VNNAFKHSMEVGVCEAYRQEAETHRRHINS AFMTFVVL DADDQPQLLPWIRPQPGDGERRYR
 EASARKKIRLDRKYIVSCKQTEVPLSVPWDP SNQVYLSYNNVSSLKMLVAKDNWVLSSEISQVRLYTLED
 DKFLSFHMEMVVHVDAQAFLLLSDLRQRPEWDKHYRSVELVQQVDEDDAIYHVTSPALGGHTKPDQFVI
 LASRRKPCDNGDPYVIALRSVTLPTHRETPYRRGETLCSGFCLWREGDQLTKCCWVRVSLTELVSASGF
 YSWGLESRSKGRSDGWNGKLAGGHLSTLKAIPVAKINSRFGYLQDT

TRTRPLE - GFP Tag - V

Restriction Sites:

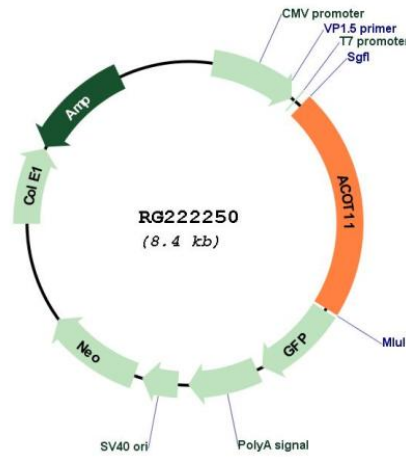
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_015547
 ORF Size: 1821 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_015547.4
RefSeq Size:	1921 bp
RefSeq ORF:	1824 bp
Locus ID:	26027
UniProt ID:	Q8WXI4
Cytogenetics:	1p32.3
Gene Summary:	This gene encodes a member of the acyl-CoA thioesterase family which catalyse the conversion of activated fatty acids to the corresponding non-esterified fatty acid and coenzyme A. Expression of a mouse homolog in brown adipose tissue is induced by low temperatures and repressed by warm temperatures. Higher levels of expression of the mouse homolog has been found in obesity-resistant mice compared with obesity-prone mice, suggesting a role of acyl-CoA thioesterase 11 in obesity. Alternative splicing results in transcript variants. [provided by RefSeq, Nov 2010]