

## Product datasheet for **SC111742**

### Acyl coenzyme A Thioesterase 8 (ACOT8) (NM\_005469) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Acyl coenzyme A Thioesterase 8 (ACOT8) (NM_005469) Human Untagged Clone                           |
| Tag:                      | Tag Free  |
| Symbol:                   | Acyl coenzyme A Thioesterase 8  |
| Synonyms:                 | hACTE-III; HNAACTE; hTE; NAP1; PTE-1; PTE-2; PTE1; PTE2   |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>  |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| Fully Sequenced ORF:      | >OriGene ORF within SC111742 sequence for NM_005469 edited (data generated by NextGen Sequencing) |

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ATGTCGTCCTCCCGCAGGCCCCAGAAGATGGGCAGGGCTGTGGCAGCCGCGGATCCCCCT
GGGGACCTCCGTAGCGTCTTGGTCACGACCGTGCTCAACCTCGAGCCGCTGGACGAGGAT
CTCTTCAGAGGAAGGCATTACTGGGTACCGGCCAAGAGGCTGTTTGGTGGTCAGATCGTG
GGCCAGGCCCTGGTGGCTGCAGCCAAGTCTGTGAGTGAAGACGTCCACGTGCACTCCCTG
CACTGCTACTTTGTTTCGGGCAGGGGACCCGAAGCTGCCAGTACTGTACCAAGTGGAGCGG
ACACGAACAGGGTCGAGCTTCTCGGTGCGCTCTGTGAAGCCGTGCAACATGGGAAGCCC
ATCTTCATCTGCCAGGCCTCCTCCAGCAGGCCAGCCAGCCCATGCAGCACCAGTTC
TCCATGCCCACTGTGCCACCACCAGAAGAGCTGCTTGACTGTGAGACCCTCATTGACCAG
TATTTAAGGGACCCTAACCTCCAAAAGAGGTACCCATTGGCGCTCAACCGAATTGCTGCT
CAGGAGGTCCCCATTGAGATCAAGCCAGTAAACCCATCCCCCTGAGCCAGCTGCAGAGA
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CTGCCTCACCAGTGGCAGCACAAGGTGCACTTCATGGTCTCACTGGACCATTCATGTGG
TTCCACGCCCCCTCCGAGCTGACCACTGGATGCTCTATGAATGCGAGAGCCCCTGGGCC
GGTGGCTCTCGGGGGCTGGTCCATGGGCGGCTGTGGCGTCAGGATGGAGTCTAGCTGTG
ACCTGTGCCAGGAGGGCGTGATCCGAGTGAAGCCCCAGGTCTCAGAGAGCAAGCTGTAG
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Clone variation with respect to NM\_005469.3



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|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_005469 unedited<br/>           NNNCGTTCGAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGGAGCG<br/>           GGTGTGCAGGGCCTGCAGCATTGAACTAGATGTCGTCCCCGAGGCCCCAGAAGATGGGC<br/>           AGGGCTGTGGCGACCGCGGCATCCCCCTGGGGACCTCCGTAGCGTCTTGGTCACGACCG<br/>           TGCTCAACCTCGAGCCGTGGACGAGGATCTCTCAGAGGAAGGCATTACTGGGTACCGG<br/>           CCAAGAGGCTGTTTGGTGGTCAGATCGTGGGCCAGGCCCTGGTGGCTGCAGCCAAGTCTG<br/>           TGAGTGAAGACGTCCACGTGCACTCCCTGCACTGCTACTTTGTTTCGGGCAGGGGACCCGA<br/>           AGTGCCAGTACTGTACCAAGTGGAGCGGACACGAACAGGGTCGAGCTTCTCGGTGCGCT<br/>           CTGTGAAGGCCGTGCAACATGGGAAGCCATCTTCATCTGCCAGGCCCTCCTCCAGCAGG<br/>           CCCAGCCAGCCCATGCAGCACCAGTTCTCCATGCCACTGTGCCACCCNCAGAAGAGC<br/>           TGCTTGACTGTGAGACCCTCATTGACCAGATTTTAAGGGACCCTAACCTCCAAAAGAGGT<br/>           ACCCATTTGGCGCTCAACCGAATTGCTGCTCANGGAGGTCCCCATTGGAGATCAAGCCAGT<br/>           AAACCCATCCCCCTGAGCCAGCTGCAGNAGAATGGAGCCNAACAGATGTTTCTGGGGT<br/>           GCGAGCCCGGGCTATATTGGGCGAGGGGCGACATGGAAGATGCACTGGCCTGCGTGGC<br/>           CGCTATATCTNCGACTATGCCCTTCTGGGGCACTGCACTGCTGCCTCACCAGTGGCAG<br/>           NACAAGGTGCCCTTCATGGGCTCACTGGACCATCCCATGGGGTTTCACGCCCCCTCCG<br/>           AGCTGACACCTGGAGCTCTATGAAG</p>      |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_005469 unedited<br/>           ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCCGTGGTATCAGTCTCT<br/>           TTATTGGATGTGAGGGCCAAAAGGGACTGTAACCTCTGTCTCAGGAATGGGGATAGATGG<br/>           GAGGTTCTTGAAGCCCCAGGCGAAGCTGGTACCTCTGGCTACAGCTTGCTCTCTGAGACC<br/>           TGGGGCTTCACTCGGATCAGCCCTCCTGGGCACAGGTCACAGCTAGGACTCCATCCTGA<br/>           CGCCACAGCCGCCATGGACCAGCCCCGAGAGCCACCGCCAGGGGCTCTCGCATTCA<br/>           TAGAGCATCCAGTGGTCAGCTCGGAAGGGGGCGTGAACACATGGAATGGTCCAGTGAG<br/>           ACCATGAAGTGCACCTTGTGCTGCCACTGGTGAGGCAGCAGTGCAGTGCCCAAGAAGGCA<br/>           TAGTCGGAGATATAGGCGGCCACGCAGCAGTGCATCTTCATGTGCCCTCGCCAATATAG<br/>           CCCCAGGCTCGCACCCAGAACATCTGTTTGGGCTCCATTTCTGCACTGGCTCAGGGGG<br/>           GATGGGTTTACTGGCTTGATCTAATGGGGACCTCCTGAGCAGCAATTCGGTTGAGCGCCA<br/>           ATGGGTACCTCTTTTGGAGGTTAGGGTCCCTTAAATACTGGTCAATGAGGGTCTCACAGT<br/>           CAAGACGCTCTTCTGGTGGTGGCACAGTGGGCATGGAGAACTGGTGTGCATGGGGCTGG<br/>           GCTGGGCTGCTGAAGGAGGCCTGNCANAGAANATGGGCTTNCCATGTGCACGCCTCAC<br/>           AGAGCGCCCGAAAAGCTCGACCTGGTCGGGTCGGTCCACTGGTCAGACTGGCGCTTTGGGT<br/>           CCCTGCCGAACAAATACATGCAGGGATGCCGTGGCGTTTACCTCAGACTGGTGGACCCCA<br/>           AGGCTGGCCAGAATGACACAAAG</p> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_005469   |
| <b>Insert Size:</b>                 | 1200 bp   |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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).  |

|                               |   |
|-------------------------------|---|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u><a href="#">NM_005469.2</a></u> , <u><a href="#">NP_005460.2</a></u>   |
| <b>RefSeq Size:</b>           | 1157 bp   |
| <b>RefSeq ORF:</b>            | 960 bp  |
| <b>Locus ID:</b>              | 10005   |
| <b>UniProt ID:</b>            | <u><a href="#">O14734</a></u>   |
| <b>Cytogenetics:</b>          | 20q13.12  |
| <b>Domains:</b>               | Acyl_CoA_thio   |
| <b>Gene Summary:</b>          | The protein encoded by this gene is a peroxisomal thioesterase that appears to be involved more in the oxidation of fatty acids rather than in their formation. The encoded protein can bind to the human immunodeficiency virus-1 protein Nef, and mediate Nef-induced down-regulation of CD4 in T-cells. [provided by RefSeq, Oct 2010]   |