

## Product datasheet for MC210295

### Acer3 (NM\_025408) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Acer3 (NM\_025408) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Acer3  
**Synonyms:** 1110057L18Rik; 5430429L08Rik; AV015045; Phca  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Fully Sequenced ORF:** >MC210295 representing NM\_025408  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**C

ATGGCTCCGGCTGTGGACCGCAAAGGCTATTGGGGCCCCACGACCTCCACATTGGACTGGTGTGAGGAGA  
ACTATGTGGTGACCTTGTTTCGTCGCTGAGTTCTGGAATACAGTGAGTAACCTGATTATGATCATACCTCC  
AATTTTTGGTGCAATTCAAGGCATTAGAGACAGACTGGAGAAGCGGTACATTGCTGCTTACTTAGCACTC  
ACAGTGGTAGGAATGGGATCCTGGTGTTCCACATGACTCTGAAATATGAAATGCAGCTGTTGGATGAGC  
TCCCCATGATTTACAGCTGCTGCATATTTGTATACTGCATGTTTGAGTGTTCAGACAAAGAGCTCAAT  
AACTACCATCTTCTTTTACCCTATTTCTATACAGTTTAAACAGTAACTACGATTACCTAAAAGTCAAA  
GAACCTATATTCCATCAGGTCATGTATGGAATGTTGGTCTTTACATTAGTACTTCGTTCTATTTATATTG  
TTACATGGGTTTATCCATGGCTTAGAGGACTAGGTTATACATCCTTAACTGTCTTTTATTGGGGTTTTT  
ATTGTGGAATATAGATAACATCTTTGTGATTCAGTGGAACTTTGAAAGAGAGTGCCCCCGTCCTA  
GGTGTTACAACACAGTTTCATGCATGGTGGCATATTCTAACTGGCCTGGGTTCTTATCTTCACATCCTTT  
TCAGTTTATATAACAAGACATTTACCTGAGGTACAGGCCAAAAGTGAAGTTTCTTTGGAATCTGGCC  
AGCAGTCATGTTTGAACCTCAGAGGAAGCAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_025408  
**Insert Size:** 804 bp



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<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_025408.2, NP_079684.2</u>
<b>RefSeq Size:</b>	4058 bp
<b>RefSeq ORF:</b>	804 bp
<b>Locus ID:</b>	66190
<b>UniProt ID:</b>	<u>Q9D099</u>
<b>Cytogenetics:</b>	7 E1
<b>Gene Summary:</b>	<p>Endoplasmic reticulum and Golgi ceramidase that catalyzes the hydrolysis of unsaturated long-chain C18:1-, C20:1- and C20:4-ceramides, dihydroceramides and phytoceramides into sphingoid bases like sphingosine and free fatty acids at alkaline pH (PubMed:26474409). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (PubMed:26474409). Controls the generation of sphingosine in erythrocytes, and thereby sphingosine-1-phosphate in plasma (By similarity). Through the regulation of ceramides and sphingosine-1-phosphate homeostasis in the brain may play a role in neurons survival and function (PubMed:26474409). By regulating the levels of proinflammatory ceramides in immune cells and tissues, may modulate the inflammatory response (PubMed:26938296).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>