

## Product datasheet for **MC209242**

### Cyth3 (NM\_001163548) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyth3 (NM\_001163548) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cyth3  
**Synonyms:** A1648983; ARNO3; CLM3; Grp1; Pscd3  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC209242 representing NM\_001163548  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACGGAGATTGACAACCTGACTTCAGTGGAGGAGAGCAAACTACTCAGAGGAACAAGCAAATAGCCA  
TGGGAAGGAAGAAATTCAACATGGACCCCAAAAGGGCATTTCAGTTCCTAATTGAGAACGACCTGCTGCA  
GAGCTCCCGAGAGGATGTCGCCAGTTTCTGTACAAAGGAGAGGGCCTGAACAAGACCGTCATCGGAGAC  
TACCTGGGTGAGAGGGATGACTTTAATATCAAAGTTCCTCAGGCTTTTGTGAGCTGCATGAGTTTGCTG  
ATCTCAACCTTGTCCAGGCCTTAAGGCAGTTCCTATGGAGCTTCAGACTTCTGGAGAGGCACAGAAGAT  
CGACCGCATGATGGAGGCCTTTGCATCCCGATACTGCCTGTGCAACCCTGGGGTCTTCCAGTCCACAGAT  
ACATGCTACGTGCTCTCCTTTGCCATCATGCTCAACACCAGCTTGCACAACCACAACGTGCGCGACA  
AGCCACCGCTGAGCGCTTCATCACCATGAACCGAGGCATCAACGAGGGTGGGGACCTTCTGAGGAGCT  
GCTGAGGAACCTTGTATGAAAGTATCAAGAATGAGCCGTTAAGATCCCAGAAGACGACGGAATGACCTG  
ACACACACGTTCTTCAACCCAGACCGAGAAGGCTGGCTGCTGAAGCTGGGGGTCTGTGAAGACCTGGA  
AACGGCGCTGTTTCATCCTCACAGATAACTGCCTCTACTTTGAGTACACCACGACAAGGAGCCAG  
GGGCATCATCCCCTGGAGAACCCTCAGCATCAGGGAGGTGGAGGACCCCGGAAGCCGAAGTCTTTGAG  
CTGTATAACCCAGTCACAAAGGTCAAGTCATCAAGGCCTGCAAGACGGAGGCCGATGGCCGTGTGGTGG  
AGGGCAACCACGTTGTGTACCGATCTCTGCCCCAGCCCGGAGGAAAAGGAGGAGTGGATGAAGTCCAT  
CAAAGCAAGCATCAGTAGGGACCCGTTCTATGACATGTTGGCCACGAGGAAAAGGAGGATTGCCAATAAG  
AAATAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001163548



<b>Insert Size:</b>	1056 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>NM_001163548.1, NP_001157020.1</u>
<b>RefSeq Size:</b>	4073 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	19159
<b>Cytogenetics:</b>	5 82.36 cM
<b>Gene Summary:</b>	<p>Promotes guanine-nucleotide exchange on ARF1. Promotes the activation of ARF factors through replacement of GDP with GTP (PubMed:18042453). Play a role in the epithelial polarization (PubMed:20080746).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>