

## Product datasheet for MC218759

### Cyth2 (NM\_001112701) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth2 (NM_001112701) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cyth2
Synonyms:	ARNO; CLM2; Pscd2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC218759 representing NM_001112701 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGACGGTGTCTACGAGCCCCAGACTTGACTCCAGAGGAGCGCATGGAGTTGGAGAACATCCGGC  
GGCGCAAGCAGGAGCTGCTGGTGGAGATCCAGCGCCTGCGAGAAGAGCTAAGTGAAGCTATGAGCGAGGT  
GGAGGGTCTGGAGCCAATGAGGGCAGTAAGACCTTGCAGCGGAACCGGAAGATGGCAATGGGCAGGAAG  
AAATTC AACATGGACCCAAAAAGGGGATCCAATTCTTGGTGGAGCATGAACTTCTGCAGAACACGCCTG  
AGGAAATTGCCCGCTTCCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATTGGGGACTACCTAGGGGA  
AAGGGAAGAGCTGAACCTGTCTGTCTCCATGCTTTTGTGGATCTCCATGAGTTCACCGACCTCAACCTG  
GTGCAGGCCCTCCGGCAATTCCTATGGAGCTTTCGCCTCCCTGGAGAGGCTCAGAAAAATTGATCGAATGA  
TGGAGGCCCTTGGCCAGAGATACTGCTTATGCAACCCTGGGGTCTTCCAGTCTACAGACACCTGCTACGT  
GTTGTCTTTGCCGTGATCATGCTGAACACCAGCCTTCACAATCCAATGTCAGGGACAAGCCGGGCCTG  
GAGCGCTTTGTGGCCATGAACCGGGGCATCAACGAGGGTGGGGATCTGCCTGAGGATCTTCTCAGGAACC  
TCTACGACAGCATCCGGAACGAGCCCTTCAAAATCCCAGAGGATGATGGGAATGATCTCACCCACACCTT  
CTTCAACCCAGACCGAGAGGGCTGGCTCCTAAAGCTGGGGGCGGGTGAAGACTTGAAGCGGGCCTGG  
TTCATCCTTACAGACAACCTGCCTCTACTACTTTGAATACACTACGGACAAGGAGCCCGAGGGATTATCC  
CCCTAGAGAACCTGAGCATCCGGGAGGTGGACGATCCTCGGAAGCCGAAGCTGCTTTGAGCTTTACATTCC  
CAACAATAAGGGACAGCTCATCAAAGCCTGCAAAAACAGAGGCTGACGGCCGGGTAGTGGAGGGGAACAC  
ATGGTGTACCGAATCTCAGCACCCACCCAGGAGGAGAAAGATGAGTGGATCAAATCCATCCAGGCTGCTG  
TAAGTGTGGACCCCTTCTATGAGATGTTGGCAGCAAGAAAGAAGCGAATTTCTGTGAAGAAGAAGCAAGA  
ACAACCC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001112701
<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_001112701.1</a></u> , <u><a href="#">NP_001106171.1</a></u>
<b>RefSeq Size:</b>	2524 bp
<b>RefSeq ORF:</b>	1200 bp
<b>Locus ID:</b>	19158
<b>UniProt ID:</b>	<u><a href="#">P63034</a></u>
<b>Cytogenetics:</b>	7 B3
<b>Gene Summary:</b>	<p>Acts as a guanine-nucleotide exchange factor (GEF). Promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Activates ARF factors through replacement of GDP with GTP (PubMed:18042453). The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane (By similarity). Involved in neurite growth (PubMed:25326380). [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an in-frame short exon of 3 nt compared to variant 1. The resulting isoform (2) is shorter by 1 aa compared to isoform 1.</p>