

## Product datasheet for MR206241

### Cyth1 (NM\_001112699) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth1 (NM_001112699) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyth1
Synonyms:	CLM1; CTH-1; CYTIP; Pscd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206241 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGGACGATGACAGCTATGTCCCCAGTGACCTGACTGCAGAAGAGCGTCAAGAACTGGAGAACATCC  
GGCGGAGGAAGCAGGAGCTGCTGGCTGACATCCAGAGGCTAAAGGAAGAGATAGCAGAAGTTGCTAATGA  
AATTGAAAGCCTGGGATCCACAGAGGAAAGGAAAAACATGCAGAGGAACAACAGGTAGCCATGGGCAGA  
AAGAAATTAACATGGATCCTAAAAAGGGGATCCAGTTCTTAATCGAGAATGGCCTGCTGAAGAACACTT  
GTGAGGACATCGCCAGTTCCTGTATAAAGGGGAGGGGCTCAACAAGACAGCCATCGGCGACTACCTTGG  
GGAGAGGGATGAGTTCAGCATCCAGTCCATGCGTTTGTGGAAGTGCACGAGTTCACCGACCTGAAC  
CTCGTCCAGGCCTTGCGGCAGTTCCTGTGGAGCTTCCGGCTCCCTGGAGAGGCCAGAAAGATTGACCGGA  
TGATGGAGGCCTTGGCCAGCGTACTGTGAGTCAACTACTGGGGTGTCCAGTCTACAGACACCTGCTA  
TGTCTGTCTTCGCAATCATAATGCTGAACACCAGCCTACACAACCCCAATGTCAAAGACAAGCCTACG  
GTGGAGAGATTTCATCGCCATGAACCGAGGCATCAACGACGGAGGAGACCTGCCGGAGGAGCTGCTCCGGA  
ATCTCTATGAGAGCATCAAAAACGAGCCCTTTAAATCCCCGAAGATGATGGGAATGACCTCACACACAC  
TTTCTTCAATCCAGACCGAGAGGGCTGGCTGCTCAAGCTCGGTGGCAGGGTAAAGACCTGGAAGAGGCGC  
TGGTTCATTCTGACTGACAACCTGCCTTTACTACTTTGAATACACCAGGACAAAGAGCCCGCGGGATTA  
TCCCCTGGAGAACCTGAGTATCCGAGAAGTGGAGGACTCCAAAAAGCCGAAGTCTTTGAGCTTTATAT  
CCCTGACAATAAAGACCAGGTGATTAAGCCTGTAAAGACAGAGGCGGACGGGCGAGTGGTGAAGGGAAC  
CACACTGTGTACCGCATCTCAGCCCAACTCCGGAAGAGAAGGAAGACTGGATCAAATGCATCAAGGCTG  
CCATCAGCAGAGACCCTTCTACGAGATGCTTGCAGCACGAAAAAGAAGGTCTCTCCACAAGAGACA  
C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206241 protein sequence  
Red=Cloning site Green=Tags(s)

MEDDDSYVPSDLTAEERQELNIRRRKQELLADIQRLKEEIAEVANEIESLGSTEERKNMQRNKQVAMGR  
 KKFNMDPKKGIFLIENGLLKNTCEDIAQFLYKGEGLNKTAIGDYLGERDEFSIQVLHAFVELHEFTDLN  
 LVQALRQFLWSFRLPGEAQKIDRMMEAFQRYCQCNTGVFQSTDTCYVLSFAIIMLNTSLHNPVNDKPT  
 VERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNDLTHTFNPDREGWLLKLGGRVKTWKRR  
 WFILTDNCLYYFEYTTDKPRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQVIKACKTEADGRVVEGN  
 HTVYRISAPTPEEKEDWIKCIKAAISRDPFYEMLAARKKKVSSTKRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_00112699

**ORF Size:** 1194 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:**

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\\_001112699.2](#)

**RefSeq Size:** 3176 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 19157

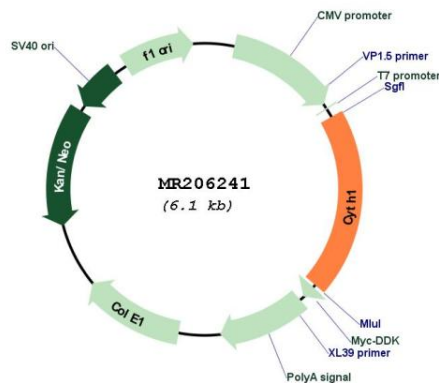
**UniProt ID:** [Q9QX11](#)

**Cytogenetics:** 11 E2

**MW:** 46.2 kDa

**Gene Summary:** Promotes guanine-nucleotide exchange on ARF1, ARF5 and ARF6 (PubMed:18042453, PubMed:20080746). Promotes the activation of ARF factors through replacement of GDP with GTP (PubMed:18042453). Plays an important role in membrane trafficking, during junctional remodeling and epithelial polarization, through regulation of ARF6 activity (PubMed:20080746, PubMed:29420262).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR206241