

Product datasheet for **MG222514**

Cyth1 (NM_001112700) Mouse Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Cyth1 (NM_001112700) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Cyth1 |
| Synonyms: | CLM1; CTH-1; CYTIP; Pscd1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG222514 representing NM_001112700 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTCTTAAAGAAGAAGGGGAGGATGTCCCCAGTGACCTGACTGCAGAAGAGCGTCAAGAAGTGGAGA
ACATCCGGCGGAGGAAGCAGGAGCTGCTGGCTGACATCCAGAGGCTAAAGGAAGAGATAGCAGAAGTTGC
TAATGAAATTGAAAGCCTGGGATCCACAGAGGAAAGGAAAACATGCAGAGGAACAACAGGTAGCCATG
GGCAGAAAGAAATTTAACATGGATCCTAAAAAGGGGATCCAGTTCTTAATCGAGAATGGCCTGCTGAAGA
ACACTTGTGAGGACATCGCCAGTTCCTGTATAAAGGGGAGGGGCTCAACAAGACAGCCATCGGCGACTA
CCTTGGGGAGAGGGATGAGTTCAGCATCCAGGTCCTGCATGCGTTTGTGGAAGTGCACGAGTTCACCGAC
CTGAACCTCGTCCAGGCCTTGGCGAGTTCCTGTGGAGCTCCGGCTCCCTGGAGAGGCCAGAAGATTG
ACCGGATGATGGAGGCCCTTGGCCAGCGGTAAGTGTGCAATACTGGGGTGTCCAGTCTACAGACAC
CTGCTATGTCCTGCTTCGCAATCATAATGCTGAACACCAGCCTACACAACCCCAATGTCAAAGACAAG
CCTACGGTGGAGAGATTCATCGCCATGAACCGAGGCATCAACGACGGAGGAGACCTGCCGGAGGAGCTGC
TCCGGAATCTCTATGAGAGCATCAAAAACGAGCCCTTTAAATCCCCGAAGATGATGGGAATGACCTCAC
ACACACTTCTCAATCCAGACCGAGAGGGCTGGCTGCTCAAGCTCGGAGGTGGCAGGGTAAAGACCTGG
AAGAGGCGCTGGTTCATTCTGACTGACAAGTGCCTTTACTACTTTGAATACACCAGGACAAAGAGCCCC
CGGGATTATCCCCCTGGAGAACCCTGAGTATCCGAGAAGTGGAGGACTCCAAAAGCCGAAGTGCCTTGA
GCTTTATATCCCTGACAATAAAGACCAGGTGATTAAGGCCTGTAAGACAGAGGCGGACGGCGAGTGGTG
GAAGGGAACCACTGTGTACCGCATCTCAGCCCCAAGTCCGGAAGAGAAGGAACTGGATCAAATGCA
TCAAGGCTGCCATCAGCAGAGACCCTTTCTACGAGATGCTTGACGACCGAAAAAGAAGTCTCCTCCAC
AAAGAGACAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222514 representing NM_001112700
 Red=Cloning site Green=Tags(s)

MVLKEEGEDVPSDLTAEERQELNIRRRKQELLADIQRLKEEIAEVANEIESLGSTEERKNMQRNKQVAM
 GRKKFNMDPKKGIQFLIENGLLKNTCEDIAQFLYKGEGLNKTAIGDYLGGERDEFSIQVLHAFVELHEFTD
 LNLVQALRQFLWSFRLPGEAQKIDRMMEAFARQYQCQNTGVFQSTDTCYVLSFAIIMLNTSLHNPVVKDK
 PTVERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNDLTHTFFNPDREGWLLKLGGRVKTW
 KRRWFILTDNCLYFHEYTTDKEPRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQVIKACKTEADGRVY
 EGNHTVYRISAPTPEEKEDWIKCIIKAAISRDPFYEMLAARKKKVSSTKRH

TRTRPLE - GFP Tag - V

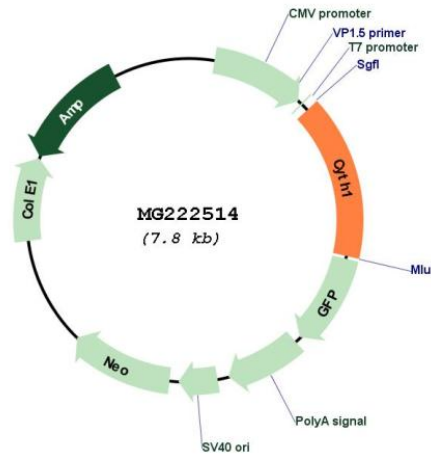
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001112700

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|-------------------------------|---|
| ORF Size: | 1200 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: | <ol style="list-style-type: none">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_001112700.2 |
| RefSeq Size: | 3119 bp |
| RefSeq ORF: | 1203 bp |
| Locus ID: | 19157 |
| Cytogenetics: | 11 E2 |
| 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] |