

Product datasheet for **MG222512**

Cyth1 (NM_011180) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth1 (NM_011180) 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:	>MG222512 representing NM_011180 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACGATGACAGCTATGTCCCCAGTGACCTGACTGCAGAAGAGCGTCAAGAACTGGAGAACATCC
GGCGGAGGAAGCAGGAGCTGCTGGCTGACATCCAGAGGCTAAAGGAAGAGATAGCAGAAGTTGCTAATGA
AATTGAAAGCCTGGGATCCACAGAGGAAAGGAAAAACATGCAGAGGAACAACAGGTAGCCATGGGCAGA
AAGAAATTAACATGGATCCTAAAAAGGGGATCCAGTTCTTAATCGAGAATGGCCTGCTGAAGAACACTT
GTGAGGACATCGCCAGTTCCTGTATAAAGGGGAGGGGCTCAACAAGACAGCCATCGGCGACTACCTTGG
GGAGAGGGATGAGTTCAGCATCCAGTCTGCATGCGTTTGTGGAAGTGCACGAGTTCACCGACCTGAAC
CTCGTCCAGGCCTTGCGGCAGTTCCTGTGGAGCTTCCGGCTCCCTGGAGAGGCCAGAAAGATTGACCGGA
TGATGGAGGCCTTTGCCAGCGTACTGTCACTGCAACTACTGGGGTGTCCAGTCTACAGACACCTGCTA
TGTCTGTCTTCGCAATCATAATGCTGAACACCGCCTACACAACCCCAATGTCAAAGACAAGCCTACG
GTGGAGAGATTTCATCGCCATGAACCGAGGCATCAACGACGGAGGAGACCTGCCGGAGGAGCTGCTCCGGA
ATCTCTATGAGAGCATCAAAAACGAGCCCTTTAAATCCCCGAAGATGATGGGAATGACCTCACACACAC
TTTCTTCAATCCAGACCGAGAGGGCTGGCTGCTCAAGCTCGGTGGCAGGGTAAAGACCTGGAAGAGGCGC
TGGTTCACTTCTGACTGACAACCTGCCTTTACTACTTTGAATACACCAGGACAAAGAGCCCGCGGGATTA
TCCCCCTGGAGAACCTGAGTATCCGAGAAGTGGAGGACTCCAAAAAGCCGAAGTCTTTGAGCTTTATAT
CCCTGACAATAAAGACCAGGTGATTAAGCCTGTAAAGACAGAGGCGGACGGGCGAGTGGTGAAGGGAAC
CACACTGTGTACCGCATCTCAGCCCAACTCCGGAAGAGAAGGAAGACTGGATCAAATGCATCAAGGCTG
CCATCAGCAGAGACCCTTTCTACGAGATGCTTGCAGCACGAAAAAGAAGGTCTCTCCACAAGAGACA
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222512 representing NM_011180
 Red=Cloning site Green=Tags(s)

MEDDDSYVPSDLTAEERQELNIRRRKQELLADIQRLKEEIAEVANEIESLGSTEERKNMQRNKQVAMGR
 KKFNMDDPKKGIQFLIENGLLKNTCEDIAQFLYKGEGLNKTAIGDYLGERDEFSIQVLHAFVELHEFTDLN
 LVQALRQFLWSFRLPGEAQKIDRMMEAFQRYCQCNTGVFQSTDTCYVLSFAIIMLNTSLHNPVNDKPT
 VERFIAMNRGINDGGDLPEELLRNLYESIKNEPFKIPEDDGNLTHTFNPDREGWLLKLGGRVKTWKRR
 WFILTDNCLYYFEYTTDKPRGIIPLENLSIREVEDSKKPNCFELYIPDNKDQVIKACKTEADGRVVEGN
 HTVYRISAPTPEEKEDWIKCIKAAISRDPFYEMLAARKKKVSSTKRH

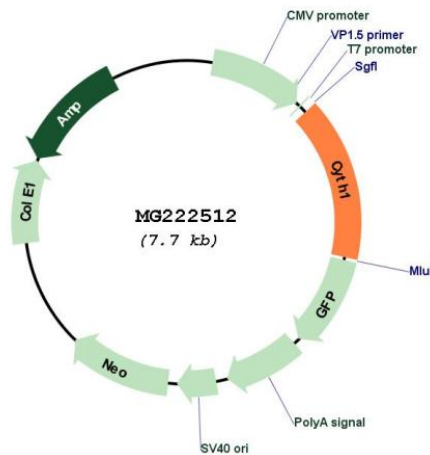
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011180

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:	<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_011180.3 , NP_035310.2
RefSeq Size:	3179 bp
RefSeq ORF:	1197 bp
Locus ID:	19157
UniProt ID:	Q9QX11
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]