

Product datasheet for **MG216043**

Cyth3 (NM_001163548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth3 (NM_001163548) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyth3
Synonyms:	A1648983; ARNO3; CLM3; Grp1; Pscd3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216043 representing NM_001163548 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGAAGGCGGTGGCGGTGAGGGCGGCAGCGTGCCTGAAGACCTGTCATTAGAAGAGCGAGAAGAAC
TTTTGGACATTCGTAGAAGAAAAAGGAACTTATTGATGACATTGAGAGGCTGAAATATGAAATTGCAGA
AGTGATGACGGAGATTGACAACCTGACTTCAGTGGAGGAGAGCAAACTACTCAGAGGAACAAGCAAATA
GCCATGGGAAGGAAGAAATTCACATGGACCCAAAAAGGGCATTTCAGTTCCTAATTGAGAACGACCTGC
TGCAGAGCTCCCCAGAGGATGTCGCCAGTTTCTGTACAAGGAGAGGGCCTGAACAAGACCGTCATCGG
AGACTACCTGGGTGAGAGGGATGACTTTAATATCAAAGTTCCTCAGGCTTTTGTGAGCTGCATGAGTTT
GCTGATCTCAACCTTGTCCAGGCCTTAAGGCAGTTCCTATGGAGCTTCAGACTTCCTGGAGAGGCACAGA
AGATCGACCGCATGATGGAGGCCTTTCATCCCGATACTGCCTGTGCAACCCTGGGGTCTCCAGTCCAC
AGATACATGCTACGTGCTCTCCTTTGCCATCATCATGCTCAACACCAGCTTGACAACCACAACGTGCGC
GACAAGCCACCCTGAGCGCTTCATCACCATGAACCGAGGCATCAACGAGGGTGGGGACCTTCTGAGG
AGCTGCTGAGGAACCTGTATGAAAGTATCAAGAATGAGCCGTTAAGATCCCAGAAGACGACGGAATGA
CCTGACACACACGTTCTCAACCCAGACCGAGAAGGCTGGCTGCTGAAGCTGGGGGTGCTGTGAAGACC
TGGAAACGGCGCTGGTTTCATCCTCACAGATAACTGCCTCTACTTTGAGTACACCACGGACAAGGAGC
CCAGGGGCATCATCCCCCTGGAGAACCTCAGCATCAGGGAGGTGGAGGACCCCGGAAGCCGAACCTGCTT
TGAGCTGTATAACCCAGTCACAAGGTCAAGTCATCAAGGCCTGCAAGACGGAGCCGATGGCCGTGTG
GTGGAGGGCAACCACGTTGTGTACCGGATCTCTGCCCCAGCCCGGAGGAAAAGGAGGAGTGGATGAAGT
CCATCAAAGCAAGCATCAGTAGGACCCGTTCTATGACATGTTGGCCACGAGGAAAAGGAGGATTGCCAA
TAAGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG216043 representing NM_001163548
 Red=Cloning site Green=Tags(s)

MDEGGGGEGGSPEDLSLEEREELLDIRRRKELIDDIERLKYEIAEVMTEIDNLSVEESKTTQRNKQI
 AMGRKKFNMDPKKGIQFLIENDLLQSSPEDVAQFLYKGEGLNKTVIGDYLGERDDFNKVLQAFVELHEF
 ADLNLVQALRQFLWSFRLPGEAQKIDRMMEAFASRYCLCNPGVFQSTDTCYVLSFAIIMLNTSLHNHNVR
 DKPTAERFITMNRGINEGGDLPEELLRNLYESIKNEPFKIPEDDGNDLTHTFNPDREGWLLKLGGRVKT
 WKRRWFILTDNCLYYFEYTTDKPRGIIPLENLSIREVEDPRKPNCFELYNPSHKGQVIKACKTEADGRV
 VEGNHVYRISAPSPEEKEEWMKSIKASISRDPFYDMLATRKRRIANKK

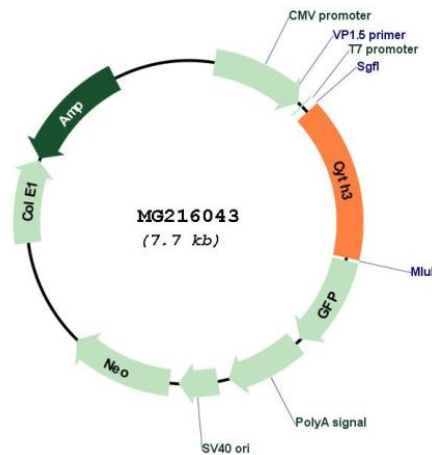
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163548

ORF Size:	1053 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_001163548.1 , NP_001157020.1
RefSeq Size:	4073 bp
RefSeq ORF:	1056 bp
Locus ID:	19159
Cytogenetics:	5 82.36 cM
Gene Summary:	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]