

Product datasheet for MR216043

Cyth3 (NM_001163548) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth3 (NM_001163548) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyth3
Synonyms:	A1648983; ARNO3; CLM3; Grp1; Pscd3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR216043 representing NM_001163548 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGACGAAGGCGGTGGCGGTGAGGGCGGCAGCGTGCCTGAAGACCTGTCATTAGAAGAGCGAGAAGAAC
TTTTGGACATTCGTAGAAGAAAAAGAACTTATTGATGACATTGAGAGGCTGAAATATGAAATTGCAGA
AGTGATGACGGAGATTGACAACCTGACTTCAGTGGAGGAGAGCAAACTACTCAGAGGAACAAGCAAATA
GCCATGGGAAGGAAGAAATCAACATGGACCCAAAAAGGCATTCAATTGAGAACGACCTGC
TGACAGAGCTCCCCAGAGGATGTCGCCAGTTTCTGTACAAGGAGAGGGCCTGAACAAGACCGTCATCGG
AGACTACCTGGGTGAGAGGGATGACTTTAATATCAAAGTCTTTCAGGCTTTTGTGAGCTGCATGAGTTT
GCTGATCTCAACCTTGTCCAGGCCTTAAGGCAGTTCCTATGGAGCTTCAGACTTCTGGAGAGGCACAGA
AGATCGACCGCATGATGGAGGCCTTTGCATCCCGATACTGCCTGTGCAACCCTGGGGTCTCCAGTCCAC
AGATACATGCTACGTGCTCTCCTTTGCCATCATCATGCTCAACACCAGCTTGACAACCACAACGTGCGC
GACAAGCCACCCTGAGCGCTTCATCACCATGAACCGAGGCATCAACGAGGGTGGGGACCTTCTGAGG
AGCTGCTGAGGAACCTTGTATGAAAGTCAAGAATGAGCCGTTTAAAGATCCAGAAGACGACGGAATGA
CCTGACACACAGTTCTTCAACCCAGACCGAGAAGGCTGGCTGCTGAAGCTGGGGGTCTGTGTGAAGACC
TGGAAACGGCGCTGGTTCATCCTCACAGATAACTGCCTCTACTACTTTGAGTACACCACGACAAGGAGC
CCAGGGGCATCATCCCCCTGGAGAACCTCAGCATCAGGGAGGTGGAGACCCCGGAAGCCGAACTGCTT
TGAGCTGTATAACCCAGTCACAAAGTCAAGTCAAGGCCTGCAAGACGGAGCCGATGGCCGTGTG
GTGGAGGGCAACCAGTTGTGTACCGATCTCTGCCCCAGCCCGGAGGAAAAGGAGGAGTGGATGAAGT
CCATCAAAGCAAGCATCAGTAGGACCCGTTCTATGACATGTTGGCCACGAGGAAAAGGAGGATTGCCAA
TAAGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR216043 representing NM_001163548
 Red=Cloning site Green=Tags(s)

MDEGGGGEGGSPEDLSLEEREELDIRRRKELIDDIERLKYEIAEVMTEIDNLSVEESKTTQRNKQI
 AMGRKKFNMDPKKGIQFLIENDLLQSSPEDVAQFLYKGEGLNKTVIGDYLGERDDFNKVLQAFVELHEF
 ADLNLVQALRQFLWSFRLPGEAQKIDRMMEAFASRYCLCNPVGFQSTDTCYVLSFAIIMLNTSLHNHNVR
 DKPTAERFITMNRGINEGGDLPEELLRNLYESIKNEPFKIPEDDGNDLTHFFNPDREGWLLKLGGRVKT
 WKRRWFILTDNCLYYFEYTTDKPRGIIPLENLSIREVEDPRKPNCFELYNPSHKGQVIKACKTEADGRV
 VEGNHVYRISAPSPEEKEEWMKSIKASISRDPFYDMLATRKRRIANKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

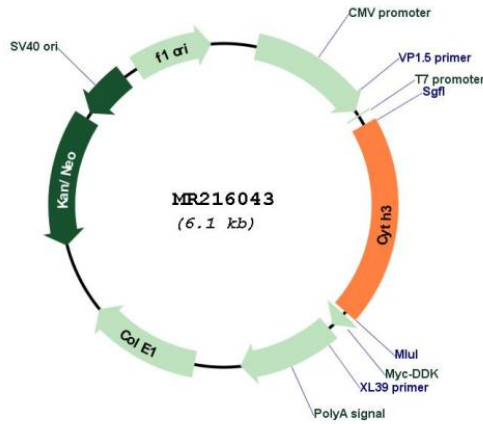
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163548

ORF Size:	1197 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 Size:	4073 bp
RefSeq ORF:	1056 bp
Locus ID:	19159
Cytogenetics:	5 82.36 cM
MW:	41.3 kDa
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]