

Product datasheet for **MG215825**

Cyth4 (NM_028195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Cyth4
Synonyms:	2510004M07Rik; 5830469K17Rik; AI467541; mFLJ00017; Pscd4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >MG215825 representing NM_028195
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGTGTGTCACACAGATCCAGCTGAGCTCAGCAGTGGGGAGGCCAAGGAGCTACAGCAGATCAAAT
GGCACAGGAAGCAGCTACTGGAAGACATCCAGAACTGAAGGATGAGATTGCAGATGTGTTTGCCCAAAT
CGACTGCTTTGAAAGCACTGAGGAGAGCCGGATGGCGCAGAAAGAGAAGGAGATGTGCATCGGGAGAAAG
AAATTCACATGGACCCATAAAGGGCATCCAGTATCTCATTGAGCACAAGCTGCTGACCTCTGATGTCC
AGGACATCGCCAGTTTCTGTACAAGGGTGACGGTCTCAACAAGACAGCCATTGGCACCTACTTGGGGGA
AAAGGACCCCATCAACTTGCAGGCTCTGCAGGCCCTTTGTGGACTGCCATGAGTTTGCCAACCTCAACCTC
GTTCAGGCCCTCAGGCAGTTTCTGTGGAGCTTCAAGGCTGCCGGGTGAGGCCAGAAGATTGACCCGATGA
TGGAGGCCCTTCGTCGCTACTGCCTCTGTAAACCCGGAGTCTTCCGGTCCACAGACACCTGCTACGT
GCTGTCTTCTCCGTATCATGCTCAACACCCGGCTACACAACCCCAACGTGCCGGGACAGACCACCTTC
GAGCGCTTTGTGACCATGAATCGCGCATCAACAGCGGAGTACCTGCCCGAGGAGCAGCTACGGAACC
TGTTTGACAGCATCAAGAGTGAGCCCTTCTCCATCCCTGAGGATGATGGCGGTGACCTCACTCACACCTT
CTTTAACCCGACCGTGAAGGCTGGCTACTCAAGCTGGGGGCGGTGTGAAGACATGGAAGCGGCCGCTGG
TTCATTCTCACTGACAACCTGTCTCTACTACTTTGAGTTCAACCATGACAAAGAACCTCGGGGGATCATTC
CCCTGGAAAACCTCTCCGTGCAGAAGGTAGAGGACCCCAAGAAGCCGTTCTGCCTGGAGCTGTACAACCC
CAGCTGCCGGGGCCAGAAGATAAAGGCATGCAAGACAGACGGGGACGGCAAGGTGTTAGAAGGCAAAACAT
GAATCTACCGCATCTCAGCTGCCAATGCCGAGGAACCGACAGTGGATCGAGGCCATCAGGGCCAGCA
TCACCCGAGTCCCTTCTACGACCTGTTGTCTGCTCGGAAAAAGAAGATTGTCGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >MG215825 representing NM_028195
 Red=Cloning site Green=Tags(s)

MDVCHTDPaelSSGEAKELQQIKWHRKQLLEDIQKDKDEIADVFAQIDCFESTEEsrMAQKEKEMCIgrK
 KFNMDPNkGIQYLIEHKLLTSDVQDIAQFLYKGDGLNKTAIGTYLGEKDPINLQVLQAFVDCHEFANLNL
 VQALRQFLWSFRLPGEAQKIDRMMEaFAARYCLcNPGVFRSTDTcyVLSFSVIMLNTGLHNPVNRDRPPF
 ERFVTMNRGINSgDLPEEQLRNLfDSIKSEPFsIPEDDGGDLTHTFFNPDREGWLLKLGGRVKTWKRRW
 FILDnCLYYFEFTTDKEPRGIIPLENLSVQKVEDPKKPFcLELYNPSCRgQKIKACKTDGDGKVVegKH
 ESYRISAANAeERDQWIEAIRASITRVPFYDLLSARKKKIVGK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028195

ORF Size: 1179 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_028195.3](#), [NP_082471.2](#)

RefSeq Size: 2791 bp

RefSeq ORF: 1182 bp

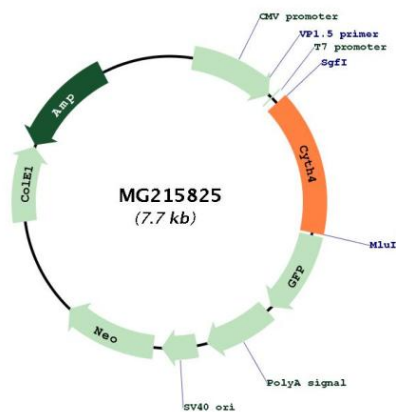
Locus ID: 72318

UniProt ID: [Q80YW0](#)

Cytogenetics: 15 E1

Gene Summary: Promotes guanine-nucleotide exchange on ARF1 and ARF5. Promotes the activation of ARF factors through replacement of GDP with GTP (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG215825