

Product datasheet for **MR215825**

Cyth4 (NM_028195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Cyth4
Synonyms:	2510004M07Rik; 5830469K17Rik; AI467541; mFLJ00017; Pscd4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR215825 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGATGTGTGTACACAGATCCAGCTGAGCTCAGCAGTGGGGAGGCCAAGGAGCTACAGCAGATCAAAT
GGCACAGGAAGCAGCTACTGGAAGACATCCAGAACTGAAGGATGAGATTGCAGATGTGTTTGCCCAAT
CGACTGCTTTGAAAGCACTGAGGAGAGCCGGATGGCGCAGAAAGAGAAGGAGATGTGCATCGGGAGAAAG
AAATTCAACATGGACCCATAAAGGGCATCCAGTATCTCATTGAGCACAAGCTGCTGACCTCTGATGTCC
AGGACATCGCCGAGTTCTGTACAAGGGTGACGGTCTCAACAAGACAGCCATTGGCACCTACTTGGGGGA
AAAGGACCCCATCAACTGCAGGTCTGCAGGCCCTTTGTGGACTGCCATGAGTTTGCCAACCTCAACCTC
GTTCAGGCCCTCAGGCAGTTCTGTGGAGCTTCAGGCTGCCGGGTGAGGCCCAGAAGATTGACCGCATGA
TGGAGGCCCTTCGCTGCTCGCTACTGCCTCTGTAAACCCGGAGTCTTCGGTCCACAGACACCTGCTACGT
GCTGTCTTCTCCGTCATCATGCTCAACACCGGCCTACACAACCCCAACGTGCGGGACAGACCACCTTC
GAGCGCTTTGTGACCATGAATCGCGGCATCAACAGCGGCAGTGACCTGCCGAGGAGCAGCTACGGAACC
TGTTTGACAGCATCAAGAGTGAGCCCTTCTCCATCCCTGAGGATGATGGCGGTGACCTCACTCACACCTT
CTTTAACCCCGACCGTGAAGGCTGGCTACTCAAGCTGGGGGGCCGTGTGAAGACATGGAAGCGCGCTGG
TTCATTCTCACTGACAACTGTCTCTACTCTTTGAGTTCAACACTGACAAAGAACCTCGGGGATCATTC
CCCTGGAACCTCTCCGTGCAAGGTAGAGGACCCCAAGAGCCGTTCTGCCTGGAGCTGTACAACCC
CAGCTGCCGGGGCAGAAGATAAAGGCATGCAAGACAGACGGGGACGGCAAGGTGTTAGAAGGCAACAT
GAATCTACCGCATCTCAGTGCCAAATGCCGAGGAACGCGACCAAGTGGATCGAGGCCATCAGGGCCAGCA
TACCCGAGTCCCCTTCTACGACCTGTTGTCTGCTCGGAAAAAGAAGATTGTCGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>MR215825 protein sequence
Red=Cloning site Green=Tags(s)

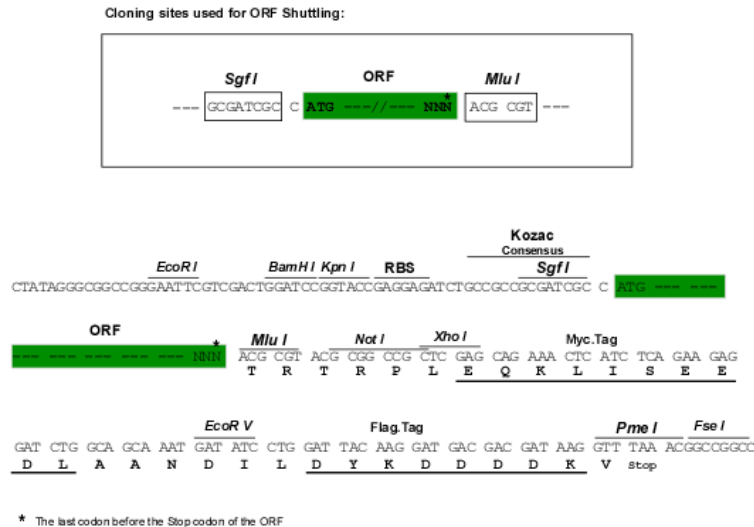
MDVCHTDP AELSSGEAKELQQIKWHRKQLLEDIQKLKDEIADVFAQIDCFESTEESRMAQKEKEMCIGRK
 KFNMDPNKGIQYLIEHKLLTSDVQDIAQFLYKGDGLNKTAIGTYLGEKDPINLQVLQAFVDCHEFANLNL
 VQALRQFLWSFRLPGEAQKIDRMMEAFAARYCLNPGVFRSTDTCYVLSFSVIMLNTGLHNPVNRDRPPF
 ERFVTMNRGINSGLPEEQLRNLFDSEIKSEPFSEPDGDDLTHTFNPDREGWLLKLGGRVKTWKRRW
 FILTDNCLYYFEFTTDKEPRGIIPLENLSVQKVEDPKKPFCELYNPSCRQKIKACKTDGDGKVVEGKH
 ESYRISAANAERDQWIEAIRASITRVPFYDLLSARKKKIVGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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_028195.2](#), [NM_028195.3](#), [NP_082471.2](#)

RefSeq Size: 2791 bp

RefSeq ORF: 1182 bp

Locus ID: 72318

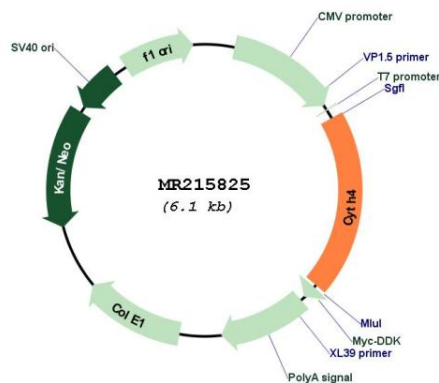
UniProt ID: [Q80YW0](#)

Cytogenetics: 15 E1

MW: 45.3 kDa

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 MR215825