

Product datasheet for **MG206279**

Cyth2 (NM_011181) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth2 (NM_011181) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cyth2
Synonyms:	ARNO; CLM2; Pscd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206279 representing NM_011181 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGACGGTGTCTACGAGCCCCAGACTTGACTCCAGAGGAGCGCATGGAGTTGGAGAACATCCGGC
GGCGCAAGCAGGAGCTGCTGGTGGAGATCCAGCGCCTGCGAGAAGAGCTAAGTGAAGCTATGAGCGAGGT
GGAGGGTCTGGAGGCCAATGAGGGCAGTAAGACCTTGACGCGGAACCGGAAGATGGCAATGGGCAGGAAG
AAATTCACATGGACCCAAAAAGGGGATCCAATTCCTGGTGGAGCATGAACTTTCGAGAACACGCCTG
AGGAAATTGCCCGCTTCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATTGGGGACTACCTAGGGGA
AAGGGAAGAGCTGAACCTGTCTGTGCTCCATGCTTTTGTGGATCTCCATGAGTTCACCGACCTCAACCTG
GTGCAGGCCCTCCGCAATTCCTATGGAGCTTTCGCTCCCTGGAGAGGCTCAGAAAATTGATCGAATGA
TGGAGGCCCTTGGCCAGAGATACTGCTTATGCAACCCTGGGGTCTTCCAGTCTACAGACACCTGCTACGT
GTTGTCTTTGCCGTGATCATGTGAACACCAGCCTTCAAAATCCCAATGTCAAGGACAAGCCGGGCCTG
GAGCGCTTTGTGGCCATGAACCGGGGCATCAACGAGGGTGGGATCTGCCTGAGGATCTTCTCAGGAACC
TCTACGACAGCATCCGGAACGAGCCCTTCAAAATCCCAGAGGATGATGGGAATGATCTCACCCACACCTT
CTTCAACCCAGACCGAGAGGGCTGGCTCCTAAAGCTGGGGGCCGGGTGAAGACTTGAAGCGGCCTGG
TTCATCCTTACAGACAACTGCCTACTACTTTGAATACTACGACAAGGAGCCCGAGGGATTATCC
CCCTAGAGAACCTGAGCATCCGGGAGGTGGACGATCCTCGAAGCCGAAGTCTTTGAGCTTTACATTCC
CAACAATAAGGGACAGCTCATCAAAGCCTGCAAAAACAGAGGCTGACGGCCGGGTAGTGGAGGGGAACCAC
ATGGTGTACCGAATCTCAGCACCCACCCAGGAGGAGAAAGATGAGTGGATCAAATCCATCCAGGCTGCTG
TAAGTGTGGACCCCTTCTATGAGATGTTGGCAGCAAGAAAGAAGCGAATTTCTGTGAAGAAGAAGCAAGA
ACAACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206279 representing NM_011181
 Red=Cloning site Green=Tags(s)

MEDGVYEPPDLTPEERMELNIRRRKQELLVEIQRLREELSEAMSEVEGLEANEKSKTLQRNRKMMAMGRK
 KFNMDPKKGIQFLVEHELLQNTPEEIAFLYKGEGLNKTAIGDYLGEREELNLSVLHAFVDLHEFTDLNL
 VQALRQFLWSFRLPGEAQKIDRMFAAQRKYCLCNPVGFQSTDTCYVLSFAVIMLNTSLHNPVNRDKPGL
 ERFVAMNRGINEGGDLPEDLLRNLYDSIRNEPFKIPEDDGNDLTHTFNPDREGWLLKLGGRVKTWKRRW
 FILTDNCLYYFEYTTDKPEPRGIIPLENLSIREVDDPRKPNCFELYIPNNKGQLIKACKTEADGRVVEGNH
 MYRISAPTQEEKDEWIKSIQAAVSVDPFYEMLAARKKRISVKKKQEQP

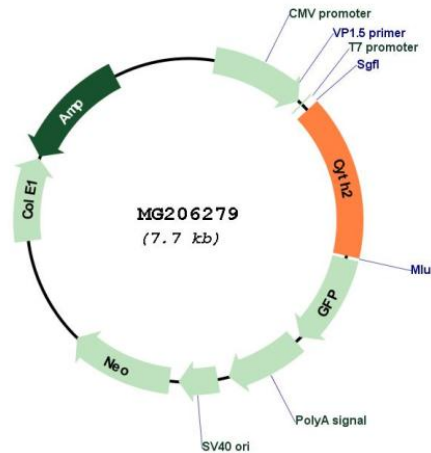
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_011181

ORF Size:	1200 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_011181.2 , NP_035311.1
RefSeq Size:	2496 bp
RefSeq ORF:	1203 bp
Locus ID:	19158
UniProt ID:	P63034
Cytogenetics:	7 B3
Gene Summary:	Acts as a guanine-nucleotide exchange factor (GEF). Promotes guanine-nucleotide exchange on ARF1, ARF3 and ARF6. Activates ARF factors through replacement of GDP with GTP (PubMed:18042453). The cell membrane form, in association with ARL4 proteins, recruits ARF6 to the plasma membrane (By similarity). Involved in neurite growth (PubMed:25326380). [UniProtKB/Swiss-Prot Function]