

## Product datasheet for **RR213576**

### Cyth2 (NM\_053911) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cyth2 (NM_053911) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyth2
Synonyms:	Arno; Pscd2; Sec7; Sec7B
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213576 representing NM_053911 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGC**C

ATGGAGGACGGTGTCTACGAGCCCCAGACTTGACTCCAGAGGAGCGCATGGAGCTGGAGAACATCCGTC  
GGCGAAAGCAGGAGCTGCTGGTGGAGATCCAGCGCCTCCGGGAAGAGCTAAGTGAAGCTATGAGCGAAGT  
GGAGGGTCTGGAGGCAATGAGGGCAGTAAGACCTTGCAGCGGAACCGGAAGATGGCAATGGGCCGGAAG  
AAATTC AACATGGACCCAAAAAGGGGATCCAATTCCTGGTGGAGCATGAACTTCTACAGAACACACCTG  
AGGAAATTGCCCGCTTCCTGTACAAGGGCGAGGGGCTGAACAAGACAGCCATTGGGGACTACCTAGGGGA  
AAGGGAAGAGCTGAACCTGTCTGTGCTCCATGCTTTTGTGGATCTACATGAGTTCACCGACCTCAATCTG  
GTTCAGGCCCTCCGGCAATTCCTGTGGAGCTTTCGCTCCCTGGAGAGGCTCAGAAAATTGACCGAATGA  
TGGAGGCCCTTGGCCAGAGATATTGCTTATGTAATCCCGGGTCTTCCAGTCCACAGACACCTGCTACGT  
GTTGTCTTCGCTGTGATCATGCTGAACACCAGCCTTCAAAATCCAATGTCAGGGACAAGCCGGGCCTG  
GAGCGCTTGTGGCCATGAACCGAGGCATCAATGAGGGTGGGACCTGCCTGAGGACCTTCTCAGGAACC  
TCTATGACAGCATCCGAAACGAGCCCTTCAAAATCCCTGAGGATGATGGGAATGATCTCACCCACACCTT  
CTTCAACCCAGACCGAGAGGGCTGGCTCCTAAAGCTGGGAGGGGCCGGGTGAAGACTTGAAGCGTCCG  
TGGTTCATCCTCACAGACAACCTGCTCTACTACTTTGAGTACACTACGGACAAGGAGCCAGAGGGATCA  
TCCCCCTAGAGAACCTGAGCATTGCTGAGGTGGATGATCCTCGGAAGCCGAACTGCTTTGAGCTTTACAT  
TCCCAACAATAAGGGACAGCTCATCAAAGCCTGCAAAACGGAGGCTGATGGTCCGGTGTAGAGGGGAAC  
CACATGGTGTACCGAATCTCAGCACCCACAGGAGGAGAAAGACGAGTGGATCAAGTCCATCCAGGCTG  
CTGTAAGCGTGGACCCCTTCTACGAGATGTTGGCAGCAAGAAAGAAGCGGATTTCTGTGAAGAAGAAGCA  
AGAACAACCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR213576 representing NM\_053911  
 Red=Cloning site Green=Tags(s)

MEDGVYEPPDLTPEERMELNIRRRKQELLVEIQRLREELSEAMSEVEGLEANEKSKTLQRNRKMMAMGRK  
 KFNMDPKKGIQFLVEHELLQNTPEEIAFLYKGEGLNKTAIGDYLGEREELNLSVLHAFVDLHEFTDLNL  
 VQALRQFLWSFRLPGEAQKIDRMMEFAQRYCLCNPGVFQSTDTCYVLSFAVIMLNTSLHNPVNRDKPGL  
 ERFVAMNRGINEGGDLPEDLLRNLYDSIRNEPFKIPEDDGNDLTHTFNPDREGWLLKLGGRVKTWKRR  
 WFILTDNCLYYFEYTTDKPRGIIPLENLSIREVDDPRKPNCFELYIPNNKGQLIKACKTEADGRVVEGN  
 HMVYRISAPTQEEKDEWIKSIQAAVSVDPFYEMLAARKKRISVKKKQEQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

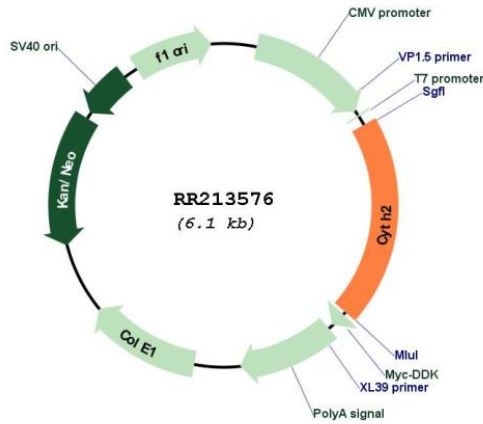
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_053911

<b>ORF Size:</b>	1200 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053911.2</a> , <a href="#">NP_446363.1</a>
<b>RefSeq Size:</b>	1574 bp
<b>RefSeq ORF:</b>	1203 bp
<b>Locus ID:</b>	116692
<b>UniProt ID:</b>	<a href="#">P63035</a>
<b>Cytogenetics:</b>	1q22
<b>MW:</b>	46.6 kDa
<b>Gene Summary:</b>	may play a role in transport from the Golgi apparatus to secretory vesicles [RGD, Feb 2006]