

## Product datasheet for **MG202676**

### Yeats4 (NM\_026570) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Yeats4 (NM_026570) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Yeats4
Synonyms:	4930573H17Rik; B230215M10Rik; GAS41; NuBI-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202676 representing NM_026570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGTTCAAGAGAATGGCGGAATTTGGACCTGACTCCGGCGGGAGAGTGAAGGGGTTACCATCGTTAAGC  
 CAATCGTTTATGGCAATGTTGCCAGGTACTTTGGAAAGAAGAGAGAAGAAGACGGGCACACTCACCAGTG  
 GACTGTGTACGTGAAGCCCTACAGAAACGAGGATATGTCAGCATATGTGAAGAAGATCCAGTTTAAATTA  
 CACGAAAGCTACGGCAATCCTCTAAGAGTCGTCACCAAGCCTCCATATGAAATCACAGAAACAGGATGGG  
 GTGAATTTGAAATCATCATCAAGATATTTTTCATTGACCCCAACGAGAGACCTGTGACTCTGTACCACTT  
 ACTGAAGCTCTTCCAGTCTGACACCAATGCCATGCTGGGGAAGAAAACAGTGGTTTCAGAGTTCTATGAC  
 GAAATGATATTTCAAGACCAACGGAATGATGCAGCAGCTGCTTACGACGTCTCGCCAGCTGACATTGG  
 GAGCCTATAAGCACGAAACAGAGTTTGCAGAACTTGAAGTGAAAACAGAGAAAAATTAGAAGCTGCCAA  
 GAAAAAACAAGCTTTGAGATTGCGGAGCTTAAGGAGAGATTAAGCAAGTCGTGAAACTATAAACTGT  
 TTAATAAATGAAATCAGGAAGCTTGAAGAAGACGATCAGACGAAAGACATT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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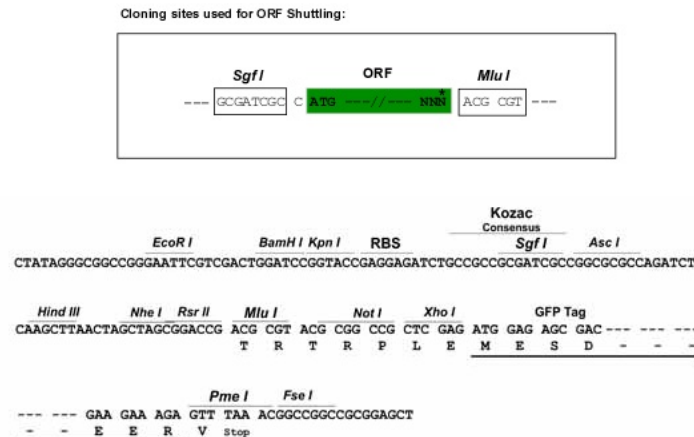
**Protein Sequence:** >MG202676 representing NM\_026570  
 Red=Cloning site Green=Tags(s)

MFKRMAEFGPDSGGRVKGVTIVKPIVYGNVARYFGKKREEDGHTHQWTVYVKPYRNEDMSAYVKKIQFKL  
 HESYGNPLRVVTKPPYEITETGWGEFEIIKIFFIDPNERPVTLYHLLKLFQSDTNAMLGKKTIVSEFYD  
 EMIFQDPTAMMQQLTTSRQLTLGAYKHETFAELVKTREKLEAAKKKTSFEIAELKERLKASRETINC  
 LKNEIRKLEEDDQTKDI

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_026570

**ORF Size:** 681 bp

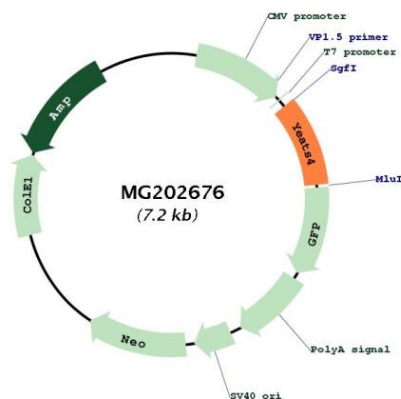
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u><a href="#">NM_026570.4</a></u>
<b>RefSeq Size:</b>	1374 bp
<b>RefSeq ORF:</b>	684 bp
<b>Locus ID:</b>	64050
<b>UniProt ID:</b>	<u><a href="#">Q9CR11</a></u>
<b>Cytogenetics:</b>	10 D2
<b>Gene Summary:</b>	<p>Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage (By similarity). [UniProtKB/Swiss-Prot Function]</p>

## Product images:



Circular map for MG202676