

Product datasheet for **MC224331**

Yeats2 (NM_001033237) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Yeats2 (NM_001033237) Mouse Untagged Clone
Tag: Tag Free
Symbol: Yeats2
Synonyms: BC042768; mKIAA1197
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224331 representing NM_001033237
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAGAATAAGGAACATGAGATTGATGTCATTGACCAGCGACTGATTGAAGCCAGGAGGATGATGGATA
 AGCTCCGGCCTGCATTGTAGCAAATATTATGCCTCCGCTGGTCTCCTGAAGTTTCTGAGGGATTA
 GACATTTGATCCGATGGCTTTAATCACCTGCTATCAAGAAATTTTGGAAATCACCTTCTAGGTCA
 TCTCTACCAATCAGAGATCAGAAACACCATCTGCCAATCACTCTGAAAGTGACTCTTTATCTCAGCACA
 ATGACTTCCTGTCTGACAAAGACAATAACAGCAACGTGGATGTGGAGGAAAGACCCCAAGCACCGGGGA
 ACAGCGACCGAGCCGAAAGGCAGGAAGGGACACGTCTAGTATCAGTGGCTCCACAAAACGGAACTACGG
 AATGCTGACCTCACAGGAGATGAGACTTACGACTGTTTGTCAAGAAAACGATAGTAGTCGGCAACGTGT
 CCAAGTACATACCTCCAGATAAGCGGGAAGAAAATGACCAGTCAACCCATAAGTGGATGGTATATGTCCG
 AGGGTCGCGTAGAGAGCCAGCATTAACTACTTTGTCAAGAAAGTTTGGTTTTTCCTTCATCCTAGCTAT
 AAACCAAACGATCTTGTGAAGTTAGAGAGCCCCCTTTCATCTGACTAGAAGAGGCTGGGTGAGTTTC
 CTGTCAGAGTGCAAGTTCACCTTTAAGGACAGCCAGAACAAGCGGATAGATATCATACAACTGAAAGT
 GGATAGAACCTACACTGGCCTACAGACCTGGGTGCAGAGACGGTGGTGGACGTCGAGCTTCATCGGCAC
 TCGCTTGGTGAAGACTCCGTTTATCCTCAGTCGTCGGAATCAGACGTATGTGATGCCCGCCTCCAAACC
 TGACGCTTCCAGCCGCCGTGAAAGCCTCAGCAGTGGCACAGTCCCCTGAGCCGGCAGCTGCTGCCCTGT
 GGGGGAAGGATCCAGAGACCACTGAAGCTGAGAGACACAGTACATTTTATTCTTTACCATCTTCGTTG
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 AGCCTATCGCATCAAGCTGCAAAATGTGCCACAAAGTCAGGTGCCTAATCCCGAGTCACCTGGCAAGTC
 CTTTCAGCCAATCACCATGAGCTGTAAGATTGTCTCAGGTTCTCCAATATCAACTCCAAGCCATCACCA
 TTACCTCGCACACCAACTCCACTCCAGTTCATTTGAAGCAAGGCACTGCCAGTTCGGTGTGAGCAACC
 CTATGTTATTGTGGATAAGCCTGGGCAGGTCATTGGAGCCTCCACTCCAAGTACAGGAAGTCTACAAG
 CAAGCTCCAGTGGCCTCTCAGGCTTCCAAGGAACAGGGTCCCCTATTCCCTAAGATTATGGAAGTAGT
 TTTTGTACATCTACTGTGAAGCAGGAGGAGTCTTTATTGCGATCTATGCCACCTCTTTGCCCAATTGGTA



GTCACCCTAAAGTGCAGAGCCCCAAGCTGTGACTGGAGGACTTGGGGCTTTCACAAAGGTGATCATCAA
 ACAGGAACCTGGAGAAGCTCCTCATGTGTCCACAACAGGAGCTGCGAGCCAGTCAGCATTCCCTCAGTAT
 GTGACCGTGAAAGGGGGTACATGATAGCTGTGTCCCCTCAAAGCAGGTCATAAGTGTGGAGAAGGGA
 CCACTCAGTCACCAAAGATTGCACCCTCCAAGGTTGTTGGTGTGCCTGTTGGCTCGCCTTACCTCCAC
 AGTGAAGCAGGCTGTAGCAATCAGTAGTGGCCAAATCCTGTGCGCAAGGCCAGCTTCTGTACCCAAA
 GCTGTTGGTCCAAAACAAGTTGTGACCCAAGGAGTTGCCAAAGCAATCGTGAGTGGAGGTGGAGGGACCA
 TTGTGCCTCAGCCAGTGCAGACCTTAACCAAGACTCAGGTCACAGCTGCTGGGCCGAGAAGAGTGGCTC
 CCAGGGCTCAGTAATGGCCACCTTGCAACTACCAGCCACTAATTTGGCCAACTGGCGAACTTGCCTCCG
 GGCACTAAACTGTACCTTACCACGAACAGCAAGAACCCTCAGGAAAAGGGAAGTGTGCTGCTGATTCCCTC
 AAGGAGCCATCCTGCGAGCTACCAACAATGCCAACCTGCAGTCTGGCTCGGCTGTGCTGGTGGCAGTGG
 CAGCAGTGGTGCAGGGGAGGAGTGGAGGTGGCGGTGGCAGCGGAGCAGGAGGAACCCCAAGCACCTCT
 GGCCAGGAGGGGGCCCCAGCACCTGACTTACACATCTACATCCTCAAGCAAACCCCCAGGGTACAT
 TTTTAGTTGGCCAACCATCACCCAAACACCTGGAAAACAAGTACTACTGCATCGGTGGTTCAAGGAAC
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 TTGTTTACACAGGCAGCCACTGTGGGCAGGCATCGCTGTGAAGTTACCAGACAACACCCTGAAGTCAG
 TGCCAGCAGCTCCACAGCTCGCCAAGCCTGGGACCACGATGCTTCGAGTGGCAGGGGGGGTATCACAGC
 TGCTCCCTCCCCTGCAGTGGCCTTCTCAGCAAATGGTGTGTACACCAGTCTGAAGGATCAACCCCTGTG
 TCATCCTCTGTTGTTCTATAATCAAAACTCCTGGTGCAGCCACAAGTGTGTGTAAGCCAGGCCACCATGG
 CAACCTGCAAGGGCCCCGCTGCTGTTGCCGGCACTGCCGCGTCCCTGGTATCTGCACCAAGCTCCATCTC
 TGGGAAAGCCACAGTGTGAGGGTTGCTAAAAGTTCATTCGCTCAGTCCAGTCCCAGCAGGCTGTCTGT
 ACAATCCCAGTCAACTCAAGCCACTAAGCATCAATACCTCTGGTGGCGTGCAGACTGTCTTGATGCCTG
 TGAATAAAGTGGTTCAGTCGTTTTCTACCAGCAAATTACCTACTGTCTGCCATAAGTGTTCAAA
 TCAAGTGCCTCCAGCTGTCTCCAGTAGCAATTGCCAAAGTGAAGACTGAACCAGAAAACCTCTGGGCCA
 AACTGCATCTCACAGGAGAACCAGGTAGCAGTGAACACAGAAGAGAGCTCTGAGCTAAGCAACTAGTCA
 TTAAGGTAGACCATTTGGAGACCATCCAGCAGCTCCTGACAGCAGTAGTGAAGAAGATCCCATAATTAC
 TGCAAAAGGTGATGATGCCAGCTGTTTTCTGCGAAGTCTTGGAGCAGTATTACGGCTGGAACATTGGG
 AAGAGGAGAGCTGCTGAGTGGCAAAGAGCAATGACAGTACGAAAAGTGTACAAGAAATCCTGGAGAAGA
 ATCCAAGATTCCACCACTTACTCCCCTCAAGACCAAGCACATTGCTCACTGGTGGCGCTGCCACGGTTA
 CACCCACAGACCCCGAGAGCCTGCGACATGATGGAGACTCCATTGAGGATGTGCTGACCCAGATTGAC
 AGTGAACCAGAGTGCCTGTCATCCTTCTCCACTGCTGATGACCTCTGCCGGAAGCTGGAGGATCTGCAGC
 AGTTCAGAAAAGGGAGCCTGAGAACGAGGAAGAAGTGGATATCCTCAGCCTGTCAGAGCCACTGAAGAC
 AAACATTA AAAAGGAGCAGGAAGAAAAGCAGGAAGAAAATGAGATTCTACCTCCACCAACCCAGGCTCT
 GGATTTGTTGGTACATTACACAGAAGATTGGAATCACCCCTGCAGCCTGTGGCGTGCACAGGAACATGT
 ATGCCTCAGTGGTAGAGGACATGATCTTAAAGGCCACGGAACAGCTGGTGTGAGTACATCCTGAGACAGGC
 ACTGGCAGTTGGATACCAGACAGCATCTCCAACAGGATCCCAAAGAAATTACAGTGTGATTAATTCAT
 CAGGCCATTTGCAACATTCCTTTTCTGGATTTCTTACAAACAAACACATGGGGAGACTGAATGAGGATC
 AGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001033237

Insert Size: 4065 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_001033237.2, NP_001028409.2</u>
RefSeq Size:	6024 bp
RefSeq ORF:	4065 bp
Locus ID:	208146
UniProt ID:	<u>Q3TUF7</u>
Cytogenetics:	16 A3
Gene Summary:	<p>Chromatin reader component of the ATAC complex, a complex with histone acetyltransferase activity on histones H3 and H4. YEATS2 specifically recognizes and binds histone H3 crotonylated at 'Lys-27' (H3K27cr). Crotonylation marks active promoters and enhancers and confers resistance to transcriptional repressors.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) is missing an exon found in transcript variant 1, which results in translation initiation from an in-frame downstream AUG, and an isoform (2) with a shorter N-terminus compared to isoform 1.</p>