

Product datasheet for SC103692

ADO (NM_032804) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ADO (NM_032804) Human Untagged Clone
Tag:	Tag Free
Symbol:	ADO
Synonyms:	C10orf22
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC103692 sequence for NM_032804 edited (data generated by NextGen Sequencing)

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ATGCCCCGAGACAACATGGCCTCCTTGATCCAACGGATCGCCCGCAGGCTTGCCTCACC
TTCCGGGCGAGCGGGGGCGCCGCGCGCTTCCGATCGCGACGCGCTTCTGGCCCGGAG
GCGCCGATGCAGCCGGGCTTCCCGAGAACCTGAGCAAGCTGAAGAGCCTCCTGACCCAG
CTCCGCGCCGAGGACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCC
AACCTGCCGCCAGTCACCTACATGCACATCTACGAGACGGACGGCTTACGCCTGGGCGTG
TTCCTGCTCAAGAGCGGCACGTCCATCCCCTGCACGACCACCCGGGCATGCACGGCATG
CTCAAGGTGCTGTACGGCACCGTGCATCAGCTGCATGGACAAGCTAGACGCGGGCGGC
GGCAACGGCCGCGGGCCTTGGCCCGGAGCAGAGTTTCGAGCCCGCTGCAGCCCGG
GAGCGAGAAGCCGTGCGCCGGGCGTGCTGCGTTCGCGGGCCGAGTACACCGAGGCCAGC
GGCCCCTGCATCCTCACACCGCACCGGGACAACCTGCACCAAGATCGACGCGTGAAGGG
CCTGCCGCTTCTGGACATCCTGGCCCCGCCCTACGACCCGGACGATGGCCGGGACTGC
CACTATTACCGGGTGTGGAGCCGGTCAGGCCCAAGGAGGCTCCAGCTCGGCCTGTGAC
CTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTTCTGGTGCGAGGGA
GAACCCTATCCAGGTCCCAAGTCTTCCCTTGA

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Clone variation with respect to NM_032804.5



[View online »](#)

5' Read Nucleotide Sequence: >OriGene 5' read for NM_032804 unedited
 CGCGTGC GCGCTCAGAGGGGGCTCAAGGCGAGCGCGCCGGGCAGTTGCGGGCGCGTGGCT
 GCTGAGTTGGCGGGCGGTGCCGCGCGCCGACGGGCGCGTGGTTGCGGGGCTCCCGCT
 CGACCCGGGTGGGGGACGCCGTGGCGGCCCGGGGACCGCAAGGGGCGGAGGAAAGGA
 GGGGGCCGGTCCCGGCACGCAGAGGAGCAGCCGACCATGCCCCGAGACAACATGGCCTCC
 TTGATCCAACGGATCGCCCGCCAGGCTTGCTCACCTTCCGGGGCAGCGGGGCGGCCG
 GGCGCTTCCGATCGCGACGCGGCTTCTGGCCCGAGGCGCCGATGCAGCCGGCTTCCCC
 GAGAACCTGAGCAAGCTGAAGAGCTCCTGACCCAGCTCCGCGCCGAGGACTTGAACATC
 GCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCAACCTGCCGCCAGTCACCTACATG
 CACATCTACGAGACGGACGGCTTCAGCCTGGGCGTGTTCTGCTCAAGAGCGGCACGTNC
 ATCCCGCTGCACGACCACCGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCGTG
 CGCATCAGCTGCATGGACAAGCTAGACGCGGGCGGCGNCAACGGCCGCGGGCTTGCCG
 NCCGAGCAGCAGTTCCGAGCCCGCTGCAGCCCCGGGAGCGAAAACGGTGGCGCCNGGCG
 TGCTGCGTTCGCGGGCCGAGTACACCGAGGCCANNGGCCCTGCTNCTCACACCGNACCG
 GGACACCTGCACANATCACACCCNGGGGAAAGCCCTGCGGCTTCTTGCC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_032804 unedited
 CTATGGAACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTGGGCAAT
 TATTGCATTTATTATCCACATAAAAGTGATTAATATCATTGTGCTCATTAGTCTTTCCA
 AGGGGAAGATAACTTTTATCCACAGTTGTTATTAACATTATCTATATTGGACGGAGT
 ATATAGAAACACAATAGCAACACACCAAGTCAGTCAGACTAACAGTTTATGCACACAGG
 TGCAAGATAGTTTCTGCACCACATTTTGTCTTTGTAATAAGCATATTCTTCTCAGTGG
 CTCACTAAAACAAGTTATATTTTGTCTTACCCTAATTTACTCAGAATTTATTAGTGAA
 CCAAAAGTTTCACTGTTCTTATTGAACTAAATCTGAGATATCATATTGCTGTTTTGGCCT
 GCAACAATTTCACTTACTTTTTGAAAAGCACCTTAGTTTTTTCTTCAAATTTGCTCGT
 AATTGAAAACTTTAAAACCTTTTTTTTTCATAATGAAGTCATAATTTCTTCTTTATTACT
 ATCCTACAGCCAGGATGAGTTTTTCGTAGCTTTAATGTACTAAGTTGTATTATAACACATA
 CATTGCTATTAATAATCTTGGTAAGCTAATCAACTTTTTGCTACAATATAATCCAAAAA
 GTATGTGATTGATAACCACATTCATTACTGTGCTATGGAAAAAAAACAAGATCTTTTAT
 TTTGTGAAGTTTTCTAAGAAAATCATTTGCATATCTAAGAATTTATTTTCAAACCTAAGTG
 GCATGAAGAAGTGCCTCAAACCTGCCCCAAAGGGCATTTTAACTACCCAAAATGTGGA
 AGCTACCATAAAACACATTTAGCCACAATGGCGGGAAAAACTTGGTACATGGCCCGTGGT
 CGGGTTTATAAAAAAGTGGCTGGCCCGGGGAAAAACCTTTTGGGTTTGGTTGGGGTAAA
 TAAAAAACTCACAGTGTGGTGGT

Restriction Sites: NotI-NotI

ACCN: NM_032804

Insert Size: 4000 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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.

RefSeq: [NM_032804.5](#), [NP_116193.2](#)

RefSeq Size: 3739 bp

RefSeq ORF: 813 bp

Locus ID: 84890

UniProt ID: [Q96SZ5](#)

Cytogenetics: 10q21.3

Protein Pathways: Metabolic pathways, Taurine and hypotaurine metabolism

Gene Summary: Human thiol dioxygenases include cysteine dioxygenase (CDO; MIM 603943) and cysteamine (2-aminoethanethiol) dioxygenase (ADO; EC 1.13.11.19). CDO adds 2 oxygen atoms to free cysteine, whereas ADO adds 2 oxygen atoms to free cysteamine to form hypotaurine (Dominy et al., 2007 [PubMed 17581819]).[supplied by OMIM, Mar 2008]