

Product datasheet for SC118914

ENO3 (NM_001976) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENO3 (NM_001976) Human Untagged Clone
Tag:	Tag Free
Symbol:	ENO3
Synonyms:	GSD13; MSE
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>OriGene ORF within SC118914 sequence for NM_001976 edited (data generated by NextGen Sequencing)

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ATGGCCATGCAGAAAATCTTTGCCCGGGAAATCTTGACTCCAGGGGCAACCCACGGTG
GAGGTGGACCTGCACACGGCCAAGGGCCGATTCCGAGCAGCTGTGCCAGTGGGGCTTCC
ACGGGTATCTATGAGGCTCTGGAATAAGAGACGGAGACAAGGCCGCTACCTGGGGAAA
GGAGTCTGAAGGCTGTGGAGAATCAACAGTACTCTGGGCCCTGCTCTGCTGCAAAAG
AAACTAAGCGTTGCGGATCAAGAAAAAGTTGACAAATTTATGATTGAGCTAGATGGGACC
GAGAATAAGTCCAAGTTTGGGGCCAATGCCATCCTGGGCGTGTCTTGGCCGTGTGTAAG
GCGGGAGCAGCTGAGAAGGGGTCCCCCTGTACCGCCACATCGCAGATCTCGCTGGGAAC
CCTGACCTCATACTCCCAGTGCCAGCCTTCAATGTGATCAACGGGGGCTCCCATGCTGGA
AACAAAGCTGGCCATGCAGGAGTTCATGATTCTGCCTGTGGGAGCCAGCTCCTTCAAGGAA
GCCATGCGCATTGGCGCCGAGGTCTACCACCACCTCAAGGGGGTCAAGGCCAAGTAT
GGGAAGGATGCCACCAATGTGGGTGATGAAGGTGGCTTCGCACCCAACATCCTGGAGAAC
AATGAGGCCCTGGAGCTGCTGAAGACGGCCATCCAGGGCGCTGGTTACCCAGACAAGGTG
GTGATCGGCATGGATGTGGCAGCATCTGAGTTCATCGCAATGGGAAGTACGATCTTGAC
TTCAAGTCGCCTGATGATCCCGCACGGCACATCACTGGGAGAAGCTCGGAGAGCTGTAT
AAGAGCTTTATCAAGAACTATCCTGTGGTCTCCATCGAAGACCCCTTTGACCAAGGATGAC
TGGGCCACTTGGACCTCCTTCTCCTCGGGGTGAACATCCAGATTGTGGGGATGACTTG
ACAGTCAACAACCCCAAGAGGATTGCCAGGCCGTTGAGAAGAAGGCCTGCAACTGTCTG
CTGCTGAAGGTCAACCAGATCGGCTCGGTGACCGAATCGATCCAGGCGTGCAAACTGGCT
CAGTCTAATGGCTGGGGGTGATGGTGAGCCACCGCTCTGGGAGACTGAGGACACATTC
ATTGCTGACCTTGTGGTGGGGCTCTGCACAGGACAGATCAAGACTGGCGCCCCCTGCCGC
TCGGAGCGTCTGGCCAAATAACAACCACTCATGAGGATCGAGGAGCTCTGGGGACAAG
GCAATCTTTGCTGGACGCAAGTCCGTAACCCGAAGGCCAAGTGA
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Clone variation with respect to NM_001976.4
212 a=>g;254 t=>c



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5' Read Nucleotide Sequence: >OriGene 5' read for NM_001976 unedited
TGTAATACGACTCACTATAGGGCGGCNCGCGATTTCGGCACGAGGCTCACTCACTCACAC
CTCCTGTCTGCAGCCATGGCCATGCAGAAAATCTTTGCCCGGAAATCTTGGACTCCAG
GGGCAACCCACGGTGGAGGTGGACCTGCACACGGCCAAGGGCCGATTCCGAGCAGCTGT
GCCAGTGGGGCTTCCACGGGTATCTATGAGGCTCTGGAATAAGAGACGGAGACAAAGG
CCGCTACCTGGGAAAGGAGTCTGAAGGCTGTGGAGAACATCAACAGTACTCTGGGCC
TGCTCTGCTGCAAAAGAACTAAGCGTTGCGGATCAAGAAAAAGTTGACAAATTTATGAT
TGAGCTAGATGGGACCGAGAATAAGTCCAAGTTTGGGGCCAATGCCATCCTGGGCGTGTC
CTTGGCCGTGTGAAGGCGGGAGCAGCTGAGAAGGGGGTCCCCCTGTACCGCCACATCGC
AGATCTCGCTGGGAACCTGACCTCATACTCCCAGTGCCAGCCTTCAATGTGATCAACGG
GGGCTCCCATGCTGAAACAAGCTGGCCATGCAGGAGTTCATGATTCTGCCTGTGGGAGC
CAGCTCCTCAAGGAAGCCATGCGCATTGGCGCCGAGGTCTACCACCACCTCAAGGGGT
CATCAAGGCCAAGTATGGGAAGGATGCCACCAATGTGGGTGATGAAGGTGGCTTCGCACC
CAACATCTGGAGAACATGAGGCCCTGNAGCTGCTGAAGACGGCCATCCAGGCGGCTGGT
TACCCAGACAAGTGGTGTATNCGCATGGGATGTGCAGCATCTGAGTTCTATCGCAATGGG
AGTACGATCTTGACTTCAGTCGCCTGATGATCCCGCACGCACATACTGGGAGAGCTCGG
AGACTGNATAGAGCTTATCAGAACATNCTGTGTC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001976 unedited
CTGGCCAGTGTTNTATTTTCAGGAAGCAGTCTGGNAGNACTGGGTCTGTCCAGTGGAGTC
CTGGAGCCTCCAGCTTCTCACTTGGCCTTCGGGTTACGGAACTTGCCTCCAGCAAAGATT
GCCTTGTCCCAAGACCTCCTCGATCCTCATGAGTTGGTTGTATTTGGCCAGACGCTCC
GAGCGGCAGGGGGCGCCAGTCTTGATCTGTCTGTGCAGAGCCCCACCACAAGGTCAGCA
ATGAATGTGTCTCAGTCTCCCCAGAGCGGTGGCTCACCATCACCCCCAGCCATTAGAC
TGAGCCAGTTTGCACGCCTGGATCGATTCCGTCACCGAGCCGATCTGGTTGACCTTCAGC
AGCAGACAGTTGCAGGCCTTCTTCTCAACGGCCTGGGCAATCCTTTGGGGTTGGTGACT
GTCAAGTCATCCCCACAATCTGGATGTTACCCCCGAGAGGAAGGAGGTCCAAGTGGCC
CAGTCATCCTGGTCAAAGGGGTCTTCGATGGAGACCACANGATAGTTCTTGATAAAGCTC
TTATACAGCTCTCCGAGCTTCTCCCCAGTATGTGCCGTGCGGGATCATCAGGCGACTTG
AAGTCAAGATCGTACTTNCATTGCGATAGAACTCAGATGCTGCCACATCCATGCCGATC
ACCACCTTGTCTGGGTAACCAGCCGCTGGATGGCCGTCTCTAACAGCTCCAAGGCCTAA
TTGGTTTCCAAGATGCTGGGGGCAAAACCCCTTAATACCCACATTGGGGGCATCCCTCC
CTACCTCGCCCTTGAGACCCCTGAGGGGGGGAGTACCTTCGGGCCAATGCGAATGGG
CTTCTTGCAAGACCTGCGCTCCACGGCGCAACCATCACCCCGCTTGCCCGCTTGCCCC
AACTGGCCCCCCTCTACACCAATGCC

Restriction Sites: NotI-NotI

ACCN: NM_001976

Insert Size: 1560 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](#)

RefSeq: [NM_001976.2](#), [NP_001967.1](#)

RefSeq Size: 1494 bp

RefSeq ORF: 1305 bp

Locus ID: 2027

UniProt ID: [P13929](#)

Domains: enolase

Protein Pathways: Glycolysis / Gluconeogenesis, Metabolic pathways, RNA degradation

Gene Summary: This gene encodes one of the three enolase isoenzymes found in mammals. This isoenzyme is found in skeletal muscle cells in the adult where it may play a role in muscle development and regeneration. A switch from alpha enolase to beta enolase occurs in muscle tissue during development in rodents. Mutations in this gene have been associated with glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Jul 2010]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same protein.