

Product datasheet for RC231202

ENO3 (NM_001193503) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENO3 (NM_001193503) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ENO3
Synonyms:	GSD13; MSE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC231202 representing NM_001193503 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGCCATGCAGAAAATCTTTGCCCGGAAATCTTGGACTCCAGGGGCAACCCACGGTGGAGGTGGACC
TGCACACGGCCAAGGGCCGATTCGAGCAGCTGTGCCAGTGGGGCTTCCACGGGTATCTATGAGGCTCT
GGAACAAGAGACGGAGACAAAGCCGCTACCTGGGAAAGCCAAGTTGGGGCCAATGCCATCCTGGC
GTGTCTTGGCCGTGTGAAGGCGGAGCAGCTGAGAAGGGGTCCCCGTACC GCCACATCGCAGATC
TCGCTGGGAACCTGACCTCATACTCCAGTGCCAGCCTTCAATGTGATCAACGGGGCTCCCATGCTGG
AAACAAGCTGGCCATGCAGGAGTTCATGATTCTGCCTGTGGGAGCCAGCTCCTCAAGGAAGCCATGCGC
ATTGGCGCCGAGGTCTACCACCCTCAAGGGGTTCATCAAGGCCAAGTATGGGAAGGATGCCACCAATG
TGGGTGATGAAGGTGGCTTCGCACCCAACATCCTGGAGAACAATGAGGCCCTGGAGCTGTGAAGACGGC
CATCCAGGCGGCTGGTTACCCAGACAAGGTGGTATCGGCATGGATGTGGCAGCATCTGAGTTCTATCGC
AATGGGAAGTACGATCTTGACTTCAAGTCGCCTGATGATCCCGCACGGCACATCACTGGGGAGAAGCTCG
GAGAGCTGTATAAGAGCTTTATCAAGAATACTCTGTGGTCTCCATCGAAGACCCCTTTGACCAGGATGA
CTGGGCCACTTGGACCTCCTTCTCGGGGTGAACATCCAGATTGTGGGGATGACTTGACAGTCACC
AACCCAAAGAGGATTGCCAGGCCGTTGAGAAGAAGGCCTGCAACTGTCTGCTGAAGGTCAACCAGA
TCGGCTCGGTGACCGAATCGATCCAGGCGTGCAAACTGGCTCAGTCTAATGGCTGGGGGGTGATGGTGAG
CCACCGCTCTGGGGAGACTGAGGACACATTCAATTGCTGACCTTGTGGTGGGGCTGTCACAGGACAGATC
AAGACTGGCGCCCCCTGCCGCTCGGAGCGTCTGGCCAAATACAACCAACTCATGAGGATCGAGGAGGCTC
TTGGGGACAAGGCAATCTTTGCTGGACGCAAGTTCGTAACCCGAAGGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC231202 representing NM_001193503
Red=Cloning site Green=Tags(s)

MAMQKIFAREILDSRGNPTVEVDLHTAKGRFRAAVPSGASTGIYEALERDGDKGRYLGKAKFGANAILG
VSLAVCKAGAAEKGVPLYRHIADLAGNPDILPVPFNVINGGSHAGNKLAMQEFMILPVGASSFKEAMR
IGAEVYHHLKGVIKAKYKDATNVGDEGGFAPNILENNEALELLKTAIQAAAGYDPKVVIGMDVAASEFYR
NGKYDLDFKSPDDPARHITGEKLGELYKSFIKNYPVVSIEDPFDQDDWATWTSFLSGVNIQIVGDDLTVT
NPKRIAQAVEKKACNCLLLKVNQIGSVTESIQACKLAQSNQWGMVSHRSGETEDTFIADLVVGLCTGQI
KTGAPCRSERLAKYNQLMRIEEALGDKAIFAGRKFRNPKAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8056_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001193503

ORF Size: 1173 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).

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_001193503.2](#)

RefSeq ORF: 1176 bp

Locus ID: 2027

UniProt ID: [P13929](#)

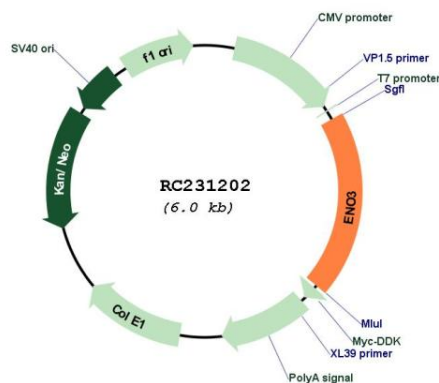
Cytogenetics: 17p13.2

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

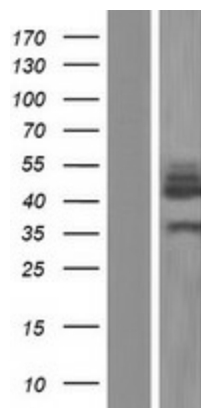
MW: 42.7 kDa

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]

Product images:



Circular map for RC231202



Western blot validation of overexpression lysate (Cat# [LY434201]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231202 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).