

Product datasheet for **SC119247**

Non Neuronal Enolase (ENO1) (NM_001428) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Non Neuronal Enolase (ENO1) (NM_001428) Human Untagged Clone
Tag:	Tag Free
Symbol:	Non Neuronal Enolase
Synonyms:	ENO1L1; HEL-S-17; MPB1; NNE; PPH
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001428, the custom clone sequence may differ by one or more nucleotides

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ATGTCTATTCTCAAGATCCATGCCAGGGAGATCTTTGACTCTCGCGGGAATCCCCTGTTGAGGTTGATC
TCTTCACCTCAAAGGTCTCTTCAGAGCTGCTGTGCCAGTGGTCTCAACTGGTATCTATGAGGCCCT
AGAGCTCCGGGACAATGATAAGACTCGTATATGGGGAAGGGTGTCTCAAAGGCTGTTGAGCACATCAAT
AAAATATTGCGCTGCCCTGGTTAGCAAGAACTGAACGTCACAGAACAAGAGAAGATTGACAACTGA
TGATCGAGATGGATGGAACAGAAAATAAATCTAAGTTTGGTGCAGAACGCCATTCTGGGGTGTCCCTTG
CGTCTGCAAAGCTGGTCCGTTGAGAAGGGGTCCCCGTGTACCGCCACATCGCTGACTTGGCTGGCAAC
TCTGAAGTCATCCTGCCAGTCCCGCGTTCAATGTCATCAATGGCGGTTCTCATGCTGGCAACAAGCTGG
CCATGCAGGAGTTCATGATCCTCCAGTCGGTGCAGCAAATTCAGGGAAGCCATGCGCATGGAGCAGA
GGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAAATATGGGAAAGATGCCACCAATGTGGGGATGAA
GGCGGGTTTGGTCCCAACATCCTGGAGAATAAAGAAGGCCTGGAGCTGCTGAAGACTGCTATTGGGAAA
CTGGCTACACTGATAAGGTGGTTCATCGGCATGGACGTAGCGGCCCTCCGAGTTCTTCAGGTCTGGGAAGTA
TGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCAGCTGGCTGACCTGTAC
AAGTCCTTCATCAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGACTGGGGAGCTT
GGCAGAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGATGATCTCACAGTGACCAACCCAAAGAG
GATCGCCAAGGCCGTGAACGAGAAGTCTGCAACTGCCTCCTCAAAGTCAACCAGATTGGCTCCGTG
ACCGAGTCTCTTCAGGCTGCAAGCTGGCCAGGCAATGGTTGGGGCGTCATGGTGTCTCATCGTTCCGG
GGGAGACTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGCACTGGGCAGATCAAGACTGGTGC
CCCTTGCCGATCTGAGCGCTTGGCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAAG
GCTAAGTTTCCCGCAGGAACCTCAGAAACCCCTTGGCCAAGTAA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_001428 unedited
 ATACGACTCACTTAGGGCGGCCGCGACTTCGGCACGAGGCGCGGAAAGTATCTGTGGGTA
 CCCGGAGCCGGAGATCTCGCCGGCTTTACGTTACCTCGGTGTCTGCAGCACCCCTCCGCT
 TTCCTCTCTAGGCGACGAGACCCAGTGGCTAGAAGTTCACCATGTCTCTTCTCAAGCTC
 CATGCCAGGGAGCTCTTTGACTCTCGCGGAATCCCAGTGTGAGGTTGATCTCTTACC
 TCAAAAAGTCTCTCAGAGCTGCTGTGCCAGTGGTCTCAACTGGTATCTATGAGGCC
 CTAGAGCTCCGGGACAATGATAAGACTCGCTATATGGGGAAGGGTGTCTCAAAGCTGTT
 GAGCACATCAATAAAACTATTGCGCCTGCCTGGTTAGCAAGAACTGAACGTCACAGAA
 CAAGAGAAGATTGACAACTGATGATCGAGATGGATGGAACAGAAAATAAATCTAAGTTT
 GGTGCGAACGCCATTCTGGGNGTGTCCCTTGCCGTCTGCAAAGCTGGTCCGTTGAGAA
 GGGGGTCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAACTCTGAAGTCATCCTGCC
 AGTCCCGCGTTCAATGTCATCAATGGCGTCTCATGCTGGCAACAAGCTGGCCATGCA
 GGAGTTTATGATCCTNCCAGTCGGTGCAGCAAACCTCAGGGAAGCCATGCGCATTGGAGC
 AGAGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAAATGGGAANAGAGCCACCAAT
 GTGGGGATGAAGGGCGGTTTGTCCCAACATNNCTGAGATAAAGAANGNCTGNNACTG
 CTGAAGACTGCTATTGGGAAAACGGCTAACTGAATAAGGTGGCAATCGCATGGACGTAC
 CGCCTTCGATTTTTTTAGGTTGGGAATTAGACCTTGATTTAAACTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_001428 unedited
 NNTTTTTACTCTGGCCCGCGCCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTTTCTCAGGGGCCACTGAGGCTTTTTATTTTGAGCACA
 AAACCACCGGGGATCTACCCTGGGGCCACCCCGAAATGACACGAGGCTCACATGACTCT
 AAACACTTGGGGAAAGGAGGGCAAAAAACAATGACTTGGGCAATTACACAAGTCA
 AAGCTAGAGCTGCCAACAGGGCTCCAGGGAGCTTGGCTTCTGTAAGGTTCTAAGGAAGC
 GGTACAACTCCACGGGGGGGGCGCTAACTAGCAGGGACCCCTGCAAGTGTGGTTCGG
 GGGCCTCAAGCTGCCTGAGCTGACACGAGGGGAGGGTCTGTGTACCCAAGGTGACCG
 AAGGGCTTGCTGCCACAGTTTACTTGGCCAAGGGTTTCTGAAGTTCTGCCGGCAA
 CTTACCCTTGCTGCCAGCTCCTTTTCAATTCTGAGGAGCTGGTGTACTTGGCCAAGCG
 CTCAGATCGGCAAGGGGACCACTTGTATCTGCCAGTGCACAGCCCCACAACCAAGGTC
 AGCGATGAAGGTATCTTCAGTCTCCCCGAACGATGAGACACCATGACGCCCCAACCAAT
 GGCTGGGCCAGCTTGCACGCTGAAGAGACTCGGCCACGAAGCCAATCTGTTTGAATTT
 GACCAGGAAGCCATTGCAGGACTTTTCGTTACAGGCCTTGAAGATCCTTTTTGGTTTGGC
 ACTGGGAGATCATCCCCATACCTGAATTCCGCTGGTGGAAACCTTTGCCAAGCTCCC
 AATATCTGGAAGGAATCCTTAATAACCCCACTGGTAACCCTGGAAGAGGG

Restriction Sites:

NotI-NotI

ACCN:

NM_001428

Insert Size:

1770 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:

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_001428.2](#), [NP_001419.1](#)

RefSeq Size: 1812 bp

RefSeq ORF: 1305 bp

Locus ID: 2023

UniProt ID: [P06733](#)

Cytogenetics: 1p36.23

Domains: enolase

Protein Families: Druggable Genome, Transcription Factors

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

Gene Summary: This gene encodes alpha-enolase, one of three enolase isoenzymes found in mammals. Each isoenzyme is a homodimer composed of 2 alpha, 2 gamma, or 2 beta subunits, and functions as a glycolytic enzyme. Alpha-enolase in addition, functions as a structural lens protein (tau-crystallin) in the monomeric form. Alternative splicing of this gene results in a shorter isoform that has been shown to bind to the c-myc promoter and function as a tumor suppressor. Several pseudogenes have been identified, including one on the long arm of chromosome 1. Alpha-enolase has also been identified as an autoantigen in Hashimoto encephalopathy. [provided by RefSeq, Jan 2011]

Transcript Variant: This variant (1) encodes isoform (1), which is localized to the cytosol, and has alpha-enolase activity. It has been reported that the monomeric form of this isoform functions as a structural lens protein (tau-crystallin), and the dimeric form as an enolase (PMID:2462567).