

Product datasheet for **RG232529**

Non Neuronal Enolase (ENO1) (NM_001201483) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Non Neuronal Enolase (ENO1) (NM_001201483) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENO1
Synonyms:	ENO1L1; HEL-S-17; MPB1; NNE; PPH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232529 representing NM_001201483 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCGAGATGGATGGAACAGAAAATAAATCTAAGTTTGGTGCGAACGCCATTCTGGGGGTGTCCCTTG
CCGTCTGCAAAGCTGGTGCCGTTGAGAAGGGGGTCCCCCTGTACCGCCACATCGCTGACTTGGCTGGCAA
CTCTGAAGTCATCCTGCCAGTCCCGCGTTCAATGTCAATGGCGGTTCTCATGCTGGCAACAAGCTG
GCCATGCAGGAGTTCATGATCCTCCAGTCGGTGCAGCAAATTCAGGGAAGCCATGCCATTGGAGCAG
AGGTTTACCACAACCTGAAGAATGTCATCAAGGAGAAATATGGGAAAGATGCCACCAATGTGGGGATGA
AGGCGGGTTTGCTCCCAACATCCTGGAGAATAAAGAAAGGCTGGAGCTGCTGAAGACTGCTATTGGGAAA
GCTGGCTACACTGATAAGGTGGTCATCGGCATGGACGTAGCGGCCTCCGAGTTCTTCAGGTCTGGGAAGT
ATGACCTGGACTTCAAGTCTCCCGATGACCCAGCAGGTACATCTCGCCTGACCAGCTGGCTGACCTGTA
CAAGTCTTCAACAAGGACTACCCAGTGGTGTCTATCGAAGATCCCTTTGACCAGGATGACTGGGGAGCT
TGGCAGAAGTTCACAGCCAGTGCAGGAATCCAGGTAGTGGGGATGATCTCACAGTGACCAACCCAAAGA
GGATCGCAAGGCCGTGAACGAGAAGTCTGCAACTGCCTCCTGCTCAAAGTCAACCAGATTGGCTCCGT
GACCGAGTCTCTCAGGCGTGAAGCTGGCCCAGGCCAATGGTTGGGGCGTCATGGTGTCTCATCGTTTCG
GGGGAGCTGAAGATACCTTCATCGCTGACCTGGTTGTGGGGCTGTGACTGGGAGATCAAGACTGGTG
CCCCTTGCCGATCTGAGCGCTTGCCCAAGTACAACCAGCTCCTCAGAATTGAAGAGGAGCTGGGCAGCAA
GGCTAAGTTTGCCGCGCAGGAATTCAGAAACCCCTTGCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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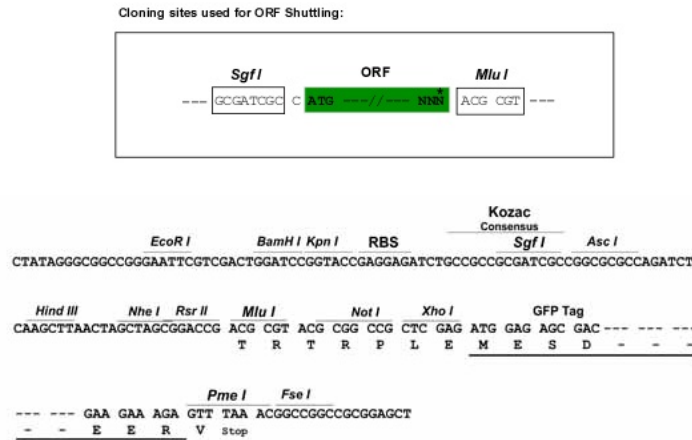
Protein Sequence: >RG232529 representing NM_001201483
Red=Cloning site Green=Tags(s)

MIEMDGTENKSKFGANAILGVSLAVCKAGAVEKGVPLYRHIADLAGNSEVILPVPFNVINGGSHAGNKL
 AMQEFMILPVGAANFREAMRIGAEVYHNLKNVIKEYGKDATNVGDEGGFAPNILENKEGLELLKTAIGK
 AGYTDKVVIGMDVAASEFFRSGKYDLDFKSPDDPSRYISPDQLADLYKSF IKDYPVVSIEDPFDQDDWGA
 WQKFTASAGIQVVGDDLTVTNPKRIAKAVNEKSCNCLLLKVNQIGSVTESLQACKLAQANGWGMVSHRS
 GETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLLRIEEELGSKAKFAGRNFNRPLAK

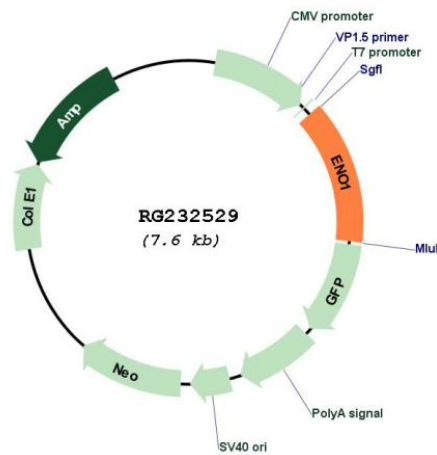
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001201483

ORF Size: 1023 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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:	<p>NM_001201483.4</p>
RefSeq Size:	<p>2567 bp</p>
RefSeq ORF:	<p>1026 bp</p>
Locus ID:	<p>2023</p>
UniProt ID:	<p>P06733</p>
Cytogenetics:	<p>1p36.23</p>
Protein Families:	<p>Druggable Genome, Transcription Factors</p>
Protein Pathways:	<p>Glycolysis / Gluconeogenesis, Metabolic pathways, RNA degradation</p>
Gene Summary:	<p>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]</p>