

Product datasheet for **RG205684**

ENO3 (NM_053013) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ENO3 (NM_053013) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ENO3
Synonyms:	GSD13; MSE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205684 representing NM_053013 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATGCAGAAAATCTTTGCCCGGAAATCTTGGACTCCAGGGGCAACCCACGGTGGAGGTGGACC
TGCACACGGCCAAGGGCCGATTCCGAGCAGCTGTGCCAGTGGGGCTTCCACGGGTATCTATGAGGCTCT
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TGATTGAGCTAGATGGGACCGAGAATAAGTCCAAGTTTGGGGCCAATGCCATCCTGGGCGTGTCTTGGC
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CCTGACCTCATACTCCCAGTGCCAGCCTTCAATGTGATCAACGGGGGCTCCCATGCTGGAACAAGCTGG
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GGTCTACCACCACCTCAAGGGGTCAAGGCCAAGTATGGGAAGGATGCCACCAATGTGGGTGATGAA
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GGGAGACTGAGGACACATTCATTGCTGACCTTGTGGTGGGGCTCTGCACAGGACAGATCAAGACTGGCGC
CCCCTGCCGCTCGGAGCGTCTGGCAAATAACAACCACTCATGAGGATCGAGGAGGCTCTTGGGGACAAG
GCAATCTTTGCTGGACGCAAGTCCGTAACCCGAAGGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205684 representing NM_053013
 Red=Cloning site Green=Tags(s)

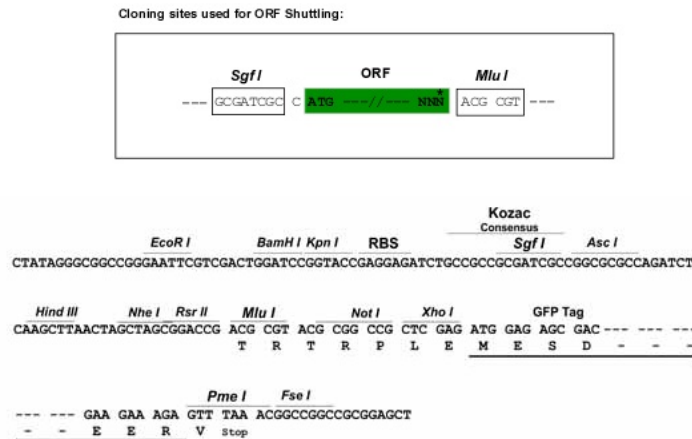
MAMQKIFAREILDSRGNPTVEVDLHTAKGRFRAAVPSGASTGIYEALERDGDGKGRYLGKGVLKAVENIN
 STLGPALLQKKLSVADQEKVDKFMIELDGTENKSKFGANAILGVSLAVCKAGAAEKGVPL YRHIADLAGN
 PDLILPVPFNVINGGSHAGNKLAMQEFMILPVGASSFKEAMRIGAEVYHHLKGVIKAKYKGDATNVGDE
 GGFAPNILENNEALELLKTAIQAAAGYDPKVVIGMDVAASEFYRNGKYDLDFKSPDDPARHITGEKLGELY
 KSFYKKNYPVVSIEDPFDQDDWATWTSFLSGVNIQIVGDDLTVTNPKRIAQAVEKKACNCLLLKVNQIGSV
 TESIQAACKLAQSNWGMVMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIIEALGDK
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TRTRPLE - GFP Tag - V

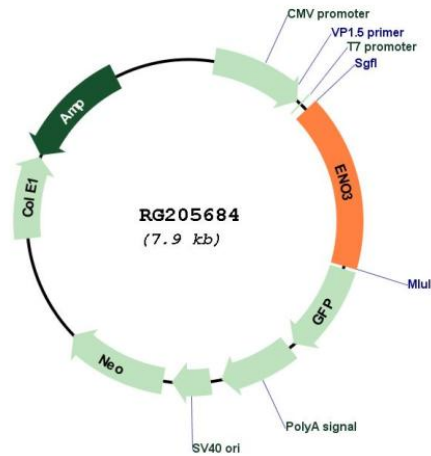
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053013

ORF Size:	1302 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:	<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:	NM_053013.2
RefSeq Size:	1452 bp
RefSeq ORF:	1305 bp
Locus ID:	2027
UniProt ID:	P13929
Cytogenetics:	17p13.2
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]