

Product datasheet for **RG201085**

NSE (ENO2) (NM_001975) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NSE (ENO2) (NM_001975) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NSE
Synonyms:	HEL-S-279; NSE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201085 representing NM_001975 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCATAGAGAAGATCTGGGCCGGGAGATCCTGGACTCCCGCGGGAACCCACAGTGGAGGTGGATC
TCTATACTGCCAAAGGTCTTTCCGGGCTGCAGTGCCAGTGGAGCCTCTACGGGCATCTATGAGGCCCT
GGAGCTGAGGGATGGAGACAAACAGCGTTACTTAGGCAAAGGTGTCTGAAGGCAGTGGACCACATCAAC
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TGCTGGAGTTGGATGGGACTGAGAACAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTCTCTGGC
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TCAGACCTCATCCTGCTGTGCCGGCCTTCAACGTGATCAATGGTGGCTCTCATGCTGGCAACAAGCTGG
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GGTCTACCATACTCAAGGGAGTCATCAAGGACAAATACGGCAAGGATGCCACCAATGTGGGGATGAA
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TGACTTGGACTTCAAGTCTCCACTGATCCTTCCCGATACACTGCGGACCAGCTGGGGCACTCTAC
CAGGACTTGTGAGGACTATCCTGTGGTCTCCATTGAGGACCCATTTGACCAGGATGATTGGGCTGCCT
GGTCCAAGTTCACAGCCAATGTAGGGATCCAGATTGTGGGTGATGACCTGACAGTGACCAACCCAAACCG
TATTGAGCGGGCAGTGGAAAGAAAAGCCTGCAACTGTCTGCTGCTCAAGGTCAACCAGATCGGCTGTGC
ACTGAAGCCATCCAAGCGTGCAAGCTGGCCAGGAGAATGGTGGGGGTGATGGTGAAGTATCGCTCAG
GAGAGACTGAGGACACATTATTGCTGACCTGGTGGTGGGGCTGTGCACAGGCCAGATCAAGACTGGTGC
CCCGTGCCGTTCTGAACGTCTGGCTAAATAACAACAGCTCATGAGAATTGAGGAAGAGCTGGGGATGAA
GCTCGCTTTCGCCGACATAAATTCCGTAATCCAGTGTGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201085 representing NM_001975
Red=Cloning site Green=Tags(s)

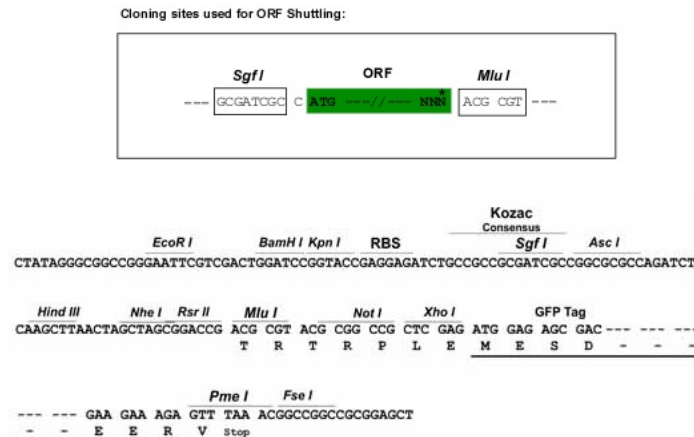
MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALERDGDQRYLKGKVLKAVDHN
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 SDLILPVPFNVINGGSHAGNKLAMQEFMILPVGAE SFRDAMRLGAEVYHTLKGVIKDKYKDATNVGDE
 GGFAPNILENSEALELVKEAIDKAGYTEKIVIGMDVAASEFYRDGKYDLDFKSPDPSRYITGDQLGALY
 QDFV RDYPVVSIEDPFDQDDWAWSKFTANVGIQIVGDDLTVTNPKRIERA VEEKACNCLLLKVNQIGSV
 TEAIQACKLAQENGWGMVSHRSGETEDTFIADLVVGLCTGQIKTGAPCRSERLAKYNQLMRIEELGDE
 ARFAGHNFRNPSVL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001975

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:

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_001975.2](#), [NP_001966.1](#)

RefSeq Size: 2423 bp

RefSeq ORF: 1305 bp

Locus ID: 2026

UniProt ID: [P09104](#)

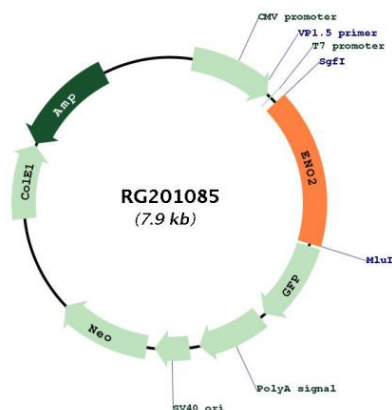
Cytogenetics: 12p13.31

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, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG201085