

Human enolase 2 (gamma, neuronal) (ENO2) (NM_001975) ORF clone, TurboGFP Tagged

Cat. No.: NEP-0521-R0304

This is a human NSE TurboGFP tagged ORF clone expression plasmid, ready for transfecting into mammalian cells.

PRODUCT OVERVIEW

Gene/Insert Name	NSE
Species	Human
Insert Size (bp)	1302 bp
Tag	TurboGFP
Type	Expression Vector/ Viral Particle
Vector	pCMV6
Vector Type	CMV
Virus Type	CMV
E. coli Selection	Ampicillin (100 ug/mL)
Cell Selection	Neomycin
ORF Nucleotide Sequence	<pre> TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTAC CGAGGAGATCTGCCGCCGCGATCGCCATGTCCATAGAGAAGATCTGGGCCCGGGA GATCCTGGACTCCC GCGGGAACCCACAGTGGAGGTGGATCTCTATACTGCCAAA GGTCTTTTCCGGGCTGCAGTGCCAGTGGAGCCTCTACGGGCATCTATGAGGCC TGGAGCTGAGGGATGGAGACAAACAGCGTTACTTAGGCAAAGGTGTCCTGAAGGC AGTGGACCACATCAACTCCACCATCGCGCCAGCCCTCATCAGCTCAGGTCTCTCT GTGGTGGAGCAAGAGAACTGGACAACCTGATGCTGGAGTTGGATGGGACTGAGA ACAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCTCTGGCCGTGTGTAA GGCAGGGGCAGCTGAGCGGGAAGTGGCCCTGTATCGCCACATTGCTCAGCTGGCC GGGAAGTCAAGCCTCATCCTGCCTGTGCCGGCCTTCAACGTGATCAATGGTGGCT CTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCCAGTGGGAGC TGAGAGCTTTCGGGATGCCATGCGACTAGGTGCAGAGGTCTACCATACTCAAG GGAGTCATCAAGGACAAATACGGCAAGGATGCCACCAATGTGGGGGATGAAGGTG GCTTTGCCCCCAATATCCTGGAGAACAGTGAAGCCTTGGAGCTGGTGAAGGAAGC CATCGACAAGGCTGGCTACACGGAAAAGATCGTTATTGGCATGGATGTTGCTGCC TCAGAGTTTTATCGTGATGGCAAATATGACTTGGACTTCAAGTCTCCCAGTATC CTTCCCAGATACATCACTGGGGACCAGCTGGGGGCACTCTACCAGGACTTTGTGAG GGACTATCCTGTGGTCTCCATTGAGGACCCATTTGACCAGGATGATTGGGCTGCC TGGTCCAAGTTCACAGCCAATGTAGGGATCCAGATTGTGGGTGATGACCTGACAG TGACCAACCCAAAACGTATTGAGCGGGCAGTGAAGAAAAGGCCTGCAACTGTCT GCTGCTCAAGGTCAACCAGATCGGCTCTGTCACTGAAGCCATCCAAGCGTGCAAG CTGGCCCAGGAGAATGGCTGGGGGGTTCATGGTGAAGTCACTGAGGAGACTG AGGACACATTCATTGCTGACCTGGTGGTGGGGCTGTGCACAGGCCAGATCAAGAC TGGTGCCCGTGCCGTTCTGAACGTCTGGCTAAATACAACCAGCTCATGAGAATT </pre>

Protein Sequence	GAGGAAGAGCTGGGGGATGAAGCTCGCTTTGCCGGACATAACTTCCGTAATCCCA GTGTGCTGACGCGTACGCGGCCGCTCGAG- GFP Tag- GTTTAA MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALELRDGDQQR YLGKGV LKAVDHINSTIAPALISSGLSVVEQEKLNDLMELDGTENKSKFGANAI LGVSLAVCKAGAAERELPLYRHIAQLAGNSDLILPVPAFNVINGGSHAGNKLAMQ EFMILPVGAESFRDAMRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENS EAELELVKEAIDKAGYTEKIVIGMDVAASEFYRDGKYDLDFKSPTDPSRYITGDQL GALYQDFVRDYPVVSIEDPFDQDDWAAWSKFTANVGIQIVGDDLTVTNPKRIERA VEEKACNCLLLKVNQIGSVTEAIQACKLAQENGWGVMSHRSGETEDTFIADLVV GLCTGQIKTGAPCRSERLAKYNQLMRIEEELGDEARFAGHNFRNPSVLTRTRPLE - GFP Tag- V
Restriction Sites	Sgfl-Mlul
Application Notes	The clone can express a complete ORF with a certain tag. Different ways of expression depend on the specific nature of the gene.
Purification	Ion-exchange column purified
Research Areas	Neurotransmission
Relevant Diseases	Traumatic Brain Injury
Key Components	Transfection-ready dried plasmid DNA

PROPERTIES

Soluble In	Sterile water
Appearance	Solid
Shipping	Keep in suitable, closed containers for shipping.
Handling Advice	Avoid breathing vapors, mist or gas.
Storage	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
Research Use Only	For research use only

TARGET DETAILS

Target	NSE
Official Name	ENO2
Full Name	Enolase 2
Alternative Names	ENO2; HEL-S-279; NSE; Enolase 2
Gene ID	2026 (H uman); 13807 (Mouse); 24334 (Rat)
Uniprot ID	P09104 (Human); P17183 (Mouse); P07323 (Rat)