

Mouse enolase 2, gamma neuronal (Eno2) (NM_013509) ORF clone, TurboGFP Tagged

Cat. No.: NEP-0521-R0307

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

PRODUCT OVERVIEW

Gene/Insert Name	NSE
Species	Mouse
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 CGAGGAGATCTGCCGCCGCGATCGCCATGTCTATAGAGAAGATTTGGGCCCGAGA GATCTTGGACTCCCGTGGGAATCCCACCGTGGAGGTGGATCTCTATACTGCCAAA GGTCTTTTCCGGGCTGCAGTCCCCAGTGGAGCCTCCACCGGCATCTATGAGGCC TGGAATAAGGGATGGGGACAAACAGCGTTACTTAGGCAAAGGTGTCCTGAAGGC AGTGGACCACATCAACAGCAGGATTGCACCAGCCCTCATCAGCTCAGGTATCTCC GTGGTGGAGCAGGAGAACTGGACAACCTGATGTTGGAAGTGGATGGGACTGAGA ATAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCCCTGGCCGTGTGTAA GGCTGGGGCAGCTGAGAGGGACTTGCCCTCTATCGCCACATTGCTCAGCTAGCT GGGAATCCGACCTCATCCTGCCTGTGCCGGCCTTTAATGTGATCAATGGTGGCT CTCATGCTGGGAACAAGTTGGCCATGCAGGAGTTCATGATCCTCCCAGTGGGTGC TGAGAGCTTTCGGGATGCCATGCGACTTGGGGCAGAGGTGTACCACACCCTCAAG GGGGTCATCAAGGACAAGTATGGCAAGGATGCCACTAACGTGGGGGATGAAGGCG GCTTTGCCCCCAATATCCTGGAGAACAGCGAAGCCTTGGAGCTGGTGAAGGAAGC CATCGACAAGGCTGGCTACACGGAAAAGATGGTGTGCGGTATGGATGTGGCTGCC TCTGAGTTTTACCGCGATGGCAAATACGACTTGGATTTCAAGTCTCCCCTGATC CTTCCCATAACATCACTGGGGACCAGCTGGGGGCACTCTACCAGGACTTTGTCCG GAACTATCCTGTGGTCTCCATTGAAGACCCATTTGACCAGGACGACTGGGCAGCT TGGTCCAAGTTCACAGCCAACGTCGGCATCCAGATAGTGGGCGATGACCTGACGG TGACCAACCCCAAGCGCATCGAGCGGGCAGTGGAGGAGAAGGCCTGCAACTGTTT GCTGCTCAAGGTCAATCAGATCGGCTCGGTACAGAAGCCATCCAAGCGTGCAAG CTGGCCCAGGAGAATGGCTGGGGGGTTATGGTGTGAGCCATCGCTCTGGAGAAACGG AGGACACGTTCAATTGCTGATCTTGTGTCGGACTGTGTACAGGCCAGATCAAGAC TGCGGCCCATGCAGATCTGAACGTCTGGCGAAGTACAACCAGCTCATGAGAATT </pre>

Protein Sequence	GAGGAAGAGCTGGGGGACGAAGCTCGCTTCGCGGGACATAATTTCCGAAATCCCA GTGTGCTGACGCGTACGCGGCCGCTCGAG- GFP Tag- GTTTAA MSIEKIWAREILDSRGNPTVEVDLYTAKGLFRAAVPSGASTGIYEALELRDGDQQR YLGKGV LKAVDHINSRIAPALISSGISVVEQEKL DNLML ELDGTENKSKFGANAI LGVSLAVCKAGAAERDLPLYRHIAQLAGNSDLILPVPAFNVINGGSHAGNKLAMQ EFMILPVGAESFRDAMRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENS EAELELVKEAIDKAGYTEKMVIGMDVAASEFYRDGKYDLDFKSPADPSRYITGDQL GALYQDFVRNYPVVSIEDPFDQDDWAAWSKFTANVGIQIVGDDLTVTNPKRIERA VEEKACNCLLLKVNQIGSVTEAIQACKLAQENGWGV MVSHRSGETEDTFIADLVV GLCTGQIKTGAPCRSERLAKYNQLMRIEEELGDEARFAGHNFRNPSVLTRTRPLE - GFP Tag- V
Restriction Sites	Sgfl-MluI
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)