Lenti of Rat enolase 2, gamma, neuronal (Eno2) (NM_139325) ORF clone, mGFP Tagged

Cat. No.: NEP-0521-R0311

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

PRODUCT OVERVIEW

Gene/Insert Name	NSE
Species	Rat
Insert Size (bp)	1302 bp
Tag	mGFP
Type	Expression Vector/ Viral Particle
Vector	pLenti
E. coli Selection	Chloramphenicol (34 ug/mL)
Cell Selection	Puromycin
ORF Nucleotide Sequence	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTAC CGAGGAGATCTGCCGCCGCGATCGCCATGTCTATACAGAAGATCTGGGCCCGAGA GATCTTGGACTCCCGTGGGAATCCCACCGTGGAGGTGGATCTCCATACTGCCAAA GGTCTTTTCCGGGCTGCAGTCCCCAGTGGGGCCTCCACTGGCATCTATGAGGCCC TGGAGCTAAGGGATGGGGACAAACAGCGTTACTTAGGCAAAGGTGTCCTGAAGGC TGTGGACCACATCAACAGCACCATCGCACCGGCCCTCATCAGCTCAGGCCTCTCT GTGGTGGAGCAGGAGAAGCTGGACAACCTGATGCTGGAGTTGGATGGGACTGAGA ACAAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTCCCTGGCCGTGTGCAA GGCTGGGGCAGCCGAGAAGGACTTGCCCCTCTATCGCCACATTGCTCAACTGGCT GGGAACTCCGACCTCATCCTGCCCGTGCCGGCCTTTAATGTGATCAACGGTGGCT CTCATGCTGGGAACAAGTTGGCCATGCAGGAGTTCATGATCCTCCCAGTGGGTGC TGAGAGCTTTCGGGATGCCATGCGACTTGGGGCCGAGGTGTACCACACACTCAAG GGGGTCATCAAGGACAAGTACGGCAAGGATGCCACTAATGTGGGGGATGAAGGCG GCTTTGCCCCCAATATCCTGGAGAACAGCGAAGCTTTGGAGCTGGTGAAGGAAGC CATTGACAAGGCTGGCTACACGGAAAAGATGGTGATTGGTATGGATGTGGCTGCC TCTGAGTTTTACCGCGATGGCAAATACGACTTGGATTTCAAGTCTCCCGCTGACC CTTCCCGATGCATCACTGGGGACCAGCTTGGGGCACTCTACCAGGACTTTGTCCG GAACTATCCTGTGGTCTCCATTGAAGACCCATTCGACCAGGATGACTGGGCAGCT TGGTCCAAGTTCACAGCCAATGTCGGCATCCAGATAGTGGGTGATGACCTGACGG TGACCAACCCCAAGCGCATCGAGCGGGCAGTGGAGGAGAAGGCCTGCAACTGTTT GCTGCTCAAGGTCAACCAGATCGGCTCAGTCACAGAAGCCATCCAAGCGTGCAAG CTGGCCCAGGAGAACGGCTGGGGGGTTATGGTGAGTCATCGCTCTGGAGAAACCG AGGACACGTTCATTGCAGACCTCGTAGTGGGACTGTGTACAGGTCAGATCAAGAC TGGTGCCCCATGCAGATCTGAACGTCTGGCGAAGTACAACCAGCTCATGAGGATT GAAGAGGAGTTGGGGGAGGAGGCTCGCTTCGCGGGACACAACTTCCGGAATCCCA GTGTGCTGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCT

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	GGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA
Protein Sequence	MSIQKIWAREILDSRGNPTVEVDLHTAKGLFRAAVPSGASTGIYEALELRDGDKQR YLGKGVLKAVDHINSTIAPALISSGLSVVEQEKLDNLMLELDGTENKSKFGANAI LGVSLAVCKAGAAEKDLPLYRHIAQLAGNSDLILPVPAFNVINGGSHAGNKLAMQ EFMILPVGAESFRDAMRLGAEVYHTLKGVIKDKYGKDATNVGDEGGFAPNILENS EALELVKEAIDKAGYTEKMVIGMDVAASEFYRDGKYDLDFKSPADPSRCITGDQL GALYQDFVRNYPVVSIEDPFDQDDWAAWSKFTANVGIQIVGDDLTVTNPKRIERA VEEKACNCLLLKVNQIGSVTEAIQACKLAQENGWGVMVSHRSGETEDTFIADLVV GLCTGQIKTGAPCRSERLAKYNQLMRIEEELGEEARFAGHNFRNPSVLTRTRPLE QKLISEEDLAANDILDYKDDDDKV
Restriction Sites	SgfI-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)