

## Product datasheet for **SC319063**

### NSE (ENO2) (NM\_001975) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NSE (ENO2) (NM_001975) Human Untagged Clone
Tag:	Tag Free
Symbol:	NSE
Synonyms:	HEL-S-279; NSE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_001975.2  
 CAGCGCCGCCGTCGCCACCGCCACCGCCACCGCCACTACCACCGGCTGAGTCTGCAGTCC  
 CGAGATCCCAGCCATCATGTCCATAGAGAAGATCTGGGCCGGGAGATCCTGGACTCCCG  
 CGGGAACCCACAGTGGAGGTGGATCTCTATACTGCCAAAGGTCTTTCCGGGCTGCAGT  
 GCCCAGTGGAGCCTCTACGGGCATCTATGAGGCCCTGGAGCTGAGGGATGGAGACAAACA  
 GCGTTACTTAGGCAAAGGTGTCTGAAGGCAGTGGACCACATCACTCCACCATCGCGCC  
 AGCCCTCATCAGCTCAGTCTCTCTGTGGTGGAGCAAGAGAAACTGGACAACCTGATGCT  
 GGAGTTGGATGGGACTGAGAACAATCCAAGTTTGGGGCCAATGCCATCCTGGGTGTGTC  
 TCTGGCCGTGTGAAGGCAGGGGAGCTGAGCGGGAAGTCCCTGTATCGCCACATTGC  
 TCAGCTGGCCGGAACTCAGACCTCATCCTGCCTGTGCCGGCCTTCAACGTGATCAATGG  
 TGGCTCTCATGCTGGCAACAAGCTGGCCATGCAGGAGTTCATGATCCTCCAGTGGGAGC  
 TGAGAGCTTTCGGGATGCCATGCGACTAGGTGCAGAGGTCTACCATACACTCAAGGGAGT  
 CATCAAGGACAAATACGGCAAGGATGCCACCAATGTGGGGGATGAAGGTGGCTTTGCCCC  
 CAATATCCTGGAGAACAGTGAAGCCTTGGAGCTGGTGAAGGAAGCCATCGACAAGGCTGG  
 CTACACGAAAAGATCGTTATTGGCATGGATGTTGCTGCCTCAGAGTTTTATCGTGATGG  
 CAAATATGACTTGGACTTCAAGTCTCCCACTGATCCTTCCCGATACATCACTGGGGACCA  
 GCTGGGGGCACTTACCAGGACTTTGTCAGGGACTATCCTGTGGTCTCCATTGAGGACCC  
 ATTTGACCAGGATGATTGGGCTGCCTGGTCCAAGTTCACAGCCAATGTAGGGATCCAGAT  
 TGTGGGTGATGACCTGACAGTGACCAACCCAAAACGATTGAGCGGGCAGTGGAAGAAAA  
 GGCCTGCAACTGTCTGCTGCTCAAGGTCAACAGATCGGCTCTGTCACTGAAGCCATCCA  
 AGCGTGAAGCTGGCCCAGGAGAATGGCTGGGGGTTCATGGTGAAGTTCATCGCTCAGGAGA  
 GACTGAGGACACATTCATTGCTGACCTGGTGGTGGGCTGTGCACAGGCCAGATCAAGAC  
 TGGTGCCCCGTGCCGTTCTGAAGCTTGGCTAAATACAACCAGCTCATGAGAATTGAGGA  
 AGAGCTGGGGGATGAAGCTCGCTTTGCCGGACATAACTTCCGTAATCCCAGTGTGCTGTG  
 ATTCCTCTGCTTGCCTGGAGACGTGGAACCTCTGTCTCATCCTCCTGGAACCTTGTGTC  
 CTGATCTGTGATAGTTCACCCCTGAGATCCCCTGAGCCCAGGGTGGCCAGAATTCCC  
 TGATTGACCTGCTCCGCTGCTCCTTGGCTTACCTGACCTTTGCTGTCTCTGCTCGCCCT  
 CCTTTCTGTGCCCTACTCATTGGGGTCCGCACTTTCCACTTCTCCTTTCTTTCTCT  
 CTTCCCTCAGAACTAGAAATGTGAATGAGGATTATTATAAAAGGGGGTCCGTGGAAGAA  
 TGATCAGCATCTGTGATGGGAGCGTCAGGGTGGTGTGCTGAGGTGTTAGAGAGGGACCA  
 TGTGTCACCTGTGCTTTGCTCTTGTCCCACGTGCTTCCACTTTGCATATGAGCCGTGAA  
 CTGTGCATAGTGTGGGATGGAGGGGAGTGTGGGCATGTGATCACGCTGGCTAATAAG  
 GCTTTAGTGATTTATTTATTTATTTATTTATTTATTTGTTTTTCATTCATCCCATTAATCAT  
 TTCCCCATAACTCAATGGCCTAAAAGTGGCCTGACTTGGGGGAACGATGTGTCTGTATTT  
 CATGTGGCTGTAGATCCCAAGATGACTGGGGTGGGAGGTCTTGCTAGAATGGGAAGGGTC  
 ATAGAAAGGGCCTTGACATCAGTTCCTTTGTGTGTACTCACTGAAGCCTGCGTTGGTCCA  
 GAGCGGAGGCTGTGTGCCTGGGGAGTTTTCTCTATACATCTCTCCCAACCTAGGTT  
 CCCTGTTCTTCTCCAGCTGCACCAGAGCAACCTCTCACTCCCCATGCCACGTTCCACAG  
 TTGCCACCACCTCTGTGGCATTGAAATGAGCACCTCCATTAAGTCTGAATCAGTGCAAA  
 AAAAAATAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_001975

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001975.2</a> , <a href="#">NP_001966.1</a>
<b>RefSeq Size:</b>	2423 bp
<b>RefSeq ORF:</b>	1305 bp
<b>Locus ID:</b>	2026
<b>UniProt ID:</b>	<a href="#">P09104</a>
<b>Cytogenetics:</b>	12p13.31
<b>Domains:</b>	enolase
<b>Protein Pathways:</b>	Glycolysis / Gluconeogenesis, Metabolic pathways, RNA degradation
<b>Gene Summary:</b>	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]