

Product datasheet for **SC322602**

Neurogenin 2 (NEUROG2) (NM_024019) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neurogenin 2 (NEUROG2) (NM_024019) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neurogenin 2
Synonyms:	Atoh4; bHLHa8; Math4A; ngn-2; NGN2
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 SC322602
 CGCAGCCACTGAACCACAAGCAGCTTCGCGTAACTGGAGTGCCTGGGAGTCGCGTGCCA
 GGAGCCGCACGGCCAGGGACTGACTGACAGACAGACACGCACCACCACAACACACGA
 GACCCGGGCGGGCCGCCGCCGCCGCCGGGGCTTTGGCAAACCGCCGGTTCGAGAG
 GTCCCCCGGGAGCTGCGCCACAGTAGCGCCGGGCTTGCAGCTTTCACGCCGGCGAAGG
 ACCCGGGCTGCGCTCGCAGCTGCGCGGAGATCCCGGCACAGGCCAAAGTCACAGCAAC
 GCTGAGGCACAGTTAGAGCCAACCTAAGATGTTTCGTCAAATCCGAGACCTTGGAGTTGAAG
 GAGGAAGAGGACGTGTTAGTGTCTCGATCGGCCTCCCCCGCCTTGGCGGCCCTGACC
 CCGCTGTATCCAGCGCCGACGAAGAAGAGGAGGAGAGCCGGGCGCGTACAGCGGGGCG
 CGTCCGACAGCGGGGCTGAGGCCGGGAGGGGCGGGGGCGGCGTGGTGCGGGTGCG
 GAGGGTCCCGGCCCGCACGGCTGCTGGTCTGGTACACGATTGCAAACGGCGCCCTTCC
 CGGGCGCGGGCCGTCTCCGAGGCGCAAGACGGCCGAGACGGTGCAGCGCATCAAGAAG
 ACCCGTAGACTGAAGCCAACAACCGCGAGCGAAACCGCATGCACAACCTCAACGCGCA
 CTGGACGCGCTGCGCGAGGTGCTCCACGTTCCCGAGGACGCCAAGCTCACCAGATC
 GAGACCTGCGCTTCGCCACAACCTACATCTGGGCACTACCGAGACCTGCGCCTGGCG
 GATCACTGCGGGGCGGGGGCGGGGCTGCGGGGGCGCTTCTCCGAGGCAGTGTTG
 CTGAGCCCGGAGGCGCCAGCGCCGCCCTGAGCAGCAGCGGAGACAGCCCTCGCCCGCC
 TCCACGTGGAGTTGACCAACAGCCCGCGCCGTCTCCTCCGTGCTCCTCAATCCACC
 TCCCCCTACAGCTGCACTTTATCGCCCGCCAGCCCGGGCCGAGACATGGACTATTGG
 CAGCCCCACCTCCCGACAAGCACCGCTATGCACCTCACCTCCCCATAGCCAGGGATTGT
 ATCTAGAGCTGCCATTTCTGCTACCCACGCCAGGCCTTAGTGGTTCCCTTCTGTCCC
 CAGTCGAGCCCTCCTCCCTTCCCTGCCCCTCCTTCCACGCCCTGAAACCATCTCACT
 TCACAGGGCAGGTGAGCCTTTCTGATTCTCGTTGTTTCTTGCAATTTCTGGCTTTGG
 GTATCCTTCATTAGACGGGCTCTGATTTACTGAAGGTGTGATGGAGCTATTGTCAAAG
 CCAAGGTGGCGTTTTGGGGCGCTTCTGAGACGAAAAAGACCTGGGAAGAGATGATG
 GTGGCATATCTAAAGAGTTTGCAGAGCGGACTGACGCTCCTCCCTTTCTCTTAAACGCC
 GAAGGACTTGGTGCAGTTCGTGTGAATCTCACAGGGGAATGCAACTGGTTCCTGTGATC
 TCTTACCTTTGCTTCTACATAGAGATGTTAATGTCGAGTAGAAAGAAATGTATCTTAGC
 ATCTGAATGATTTGCTGGTAATAATATTATCCACAGATTTGCAATGGCTGGCATCTGCT
 TTATCCCATTTGCTGTCTGCAGGCTGTGGGAATTTACCTGTCAAACCAAACCTCCCTCT
 CTGATGTGCACTTTGTTCTGTTTCCAGATTCGTCACAATGCCTATTGCTCCTGCTTCT
 CTTTCTTTTCTTCCCATTTTCCCATCTGTCTTATGATTTATAAGGGGAAAAAAAC
 TTGTTTTGTTAGAGGGCAGGTTAGAAGTCATTGTATAATTTGTAGGCTTTGTAATGATT
 GAATGCAAGCGTGAAATTTAGGCTGAACCTCTATCAAAAGGAAAAATGTGGAGAAAA
 GGGAAAAATCAGGAGGGAGGATTGCCTCATGTATTATTTATTTGACCTTTTAGGGGAGA
 AGGAACTCCCCATTCTTTCAAGAGATTAATAATAAATCAACAGTCTGAAAACTAAGCA
 GACACGGAGCATTATCCGGATCAGCCACACACGTGTTCCCTTCTATTTATTATAAAGAAA
 TTTTTCATGGGAAAATATGTATTTTTGTATTTCTACAGAGTTTATTCTAGTATGTATT
 TACATCTTGAAGAACAAGAAAGTTGTTCTTGTGATTAACCTATAAATAAACTATCTAATT
 TTCATAA
 AA

Restriction Sites: Please inquire
ACCN: NM_024019

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>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.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none"> 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_024019.2 , NP_076924.1
RefSeq Size:	2370 bp
RefSeq ORF:	819 bp
Locus ID:	63973
UniProt ID:	Q9H2A3
Cytogenetics:	4q25
Protein Families:	Transcription Factors
Gene Summary:	<p>This gene encodes a neural-specific basic helix-loop-helix (bHLH) transcription factor that can specify a neuronal fate on ectodermal cells and is expressed in neural progenitor cells within the developing central and peripheral nervous systems. The protein product of this gene also plays a role in the differentiation and survival of midbrain dopaminergic neurons. [provided by RefSeq, Apr 2012]</p>