

## Product datasheet for SC118624

### Neogenin (NEO1) (NM\_002499) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neogenin (NEO1) (NM_002499) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neogenin
Synonyms:	IGDCC2; NGN; NTN1R2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_002499 edited  
TGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAA  
AGCACTACTATAGGGCGGCCGGAATTCGGCACGAGGCTGGAGCAGCGCGGCCGCGGG  
AGCCGAGCTTGCAGCGAGGGACCGGCTGAGGCGCGGGAGGGAAGGAGCAAGGGCTCC  
GCGGCGCTGTCGCGCCGCTGCCGCTACTCTCGGGAAGAGATGGCGGCGGAGCGGGGA  
GCCCGGCGACTCCTCAGCACCCCTCCTTCTGGCTCTACTGCCTGCTGCTCGGGCGC  
CGGGCGCGGGCGCCGCGCCGAGGAGCGGCTCCGCGCCGAGTCCCCAGGAGCCAGC  
ATTCGAACGTTCACTCCATTTTATTTTCTGGTGGAGCCGGTGGATACACTCTCAGTTAGA  
GGCTCTTCTGTTATATTAAGTGTTCAGCATATTCTGAGCCTTCCAAAAATTGAATGG  
AAAAAAGATGGAACTTTTTAACTTAGTATCAGATGATCGACGCCAGCTTCCCGGAT  
GGATCTTTATTTATCAGCAATGTGGTGCATTCCAACACAATAAACCTGATGAAGTTAT  
TATCAGTGTGTGGCCACTGTTGAGAGTCTTGAACATTTATCAGTAGAACAGCGAAGCTC  
ATAGTAGCAGGTCTTCAAGATTTACCAGCCAACCAGAACCTTCCCTCAGTTTATGCTGGG  
AACAAATGCAATTCTGAATTGTGAAGTAAATGCAGATTTGGTCCCATTGTGAGGTGGGAA  
CAGAACAGACAACCCCTTCTTCTGGATGATAGAGTTATCAAACCTCCAAGTGGAATGCTG  
GTTATCAGCAATGCAACTGAAGGAGATGGCGGGCTTTATCGCTGCGTAGTGGAAGTGGT  
GGGCCACCAAAGTATAGTGATGAAGTTGAATTGAAGTTCTTCCAGATCCTGAGGTGATA  
TCAGACTTGGTATTTTTGAAACAGCCTTCTCCCTTAGTCAGAGTCATTGGTCAGGATGTA  
GTGTTGCCATGTGTTGCTTCAGGACTTCTACTCCAACCATTAATGGATGAAAAATGAG  
GAGGCACTTGACACAGAAAGCTCTGAAAGATTGGTATTGCTGGCAGGTGGTAGCCTGGAG  
ATCAGTGTGTTACTGAGGATGATGCTGGGACTTATTTTTGTATAGCTGATAATGAAAT  
GAGACAATTGAAGCTCAAGCAGAGCTTACAGTGAAGCTCAACCTGAATTCCTGAAGCAG  
CCTACTAATATATGCTCACGAATCTATGGATATTGATTTGAATGTGAAGTACTGGA  
AAACCACTCCAAGTGTGAAGTGGGTCAAAAAATGGGGATATGGTTATCCAAGTGATTAT  
TTTAAGATTGTAAGGAACATAATCTTCAAGTTTTGGGTCTGGTGAATCAGATGAAGGG  
TTCTATCAGTGCATTGCTGAAAAATGATGTTGAAATGCACAAGCTGGAGCCCACTGATA  
ATCCTTGAACATGCACCAGCCACAACGGGACCCTGCTTCAAGTCTCGGGATGTCGTG



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GCCTCCCTGGTCTCTACCCGCTTCATCAAATTGACGTGGCGGACACCTGCATCAGATCCT  
CACGGAGACAACCTTACCTACTCTGTGTTCTACACCAAGGAAGGGATTGCTAGGGAAACGT  
GTTGAGAATACCAGTCACCCAGGAGAGATGCAAGTAACCATTCAAAACCTAATGCCAGCG  
ACCGTGTACATCTTTAGAGTTATGGCTCAAAAATAAGCATGGCTCAGGAGAGAGTTAGCT  
CCACTGCGAGTAGAAACACAACCTGAGGTTGAGTCCCTGGCCAGCACCTAACCTTCGT  
GCATATGCAGCTTCGCCTACCTCCATCACTGTTACGTGGGAAACACCAGTGTCTGGCAAT  
GGGAAATTCAGAAATTATAAATTGTACTACATGGAAAAGGGGACTGATAAAGAACAGGAT  
GTTGATGTTTCAAGTCACTCTTACACCATTAATGGGTTGAAAAATATACAGAGTATAGT  
TCCGAGTGGTGGCTACAATAAACATGGTCTGGAGTTTCCACACCAGATGTTGCTGTT  
CGAACATTGTCAGATGTTCCAGTGCTGCTCCTCAGAATCTGCTTGGAAAGTGAGAAAT  
TCAAAGAGTATTATGATTCAGTGGCAGCCACCTGCTCCAGCCACAAAAATGGGCAGATT  
ACTGGCTACAAGATTGCTACCGAAAGGCTCCCGAAAGAGTGATGCTACTGAGACCTTG  
GTAAGCGGGACACAGCTGTCTCAGCTGATTGAAGTCTTGATCGGGGGACTGAGTATAAT  
TCCGAGTGGCTGCTTAAACATCAATGGTACAGGCCCGCAACTGACTGGCTGTCTGCT  
GAAACTTTTGAAGTGACCTAGATGAAACTCGTGTTCCTGAAGTGCCTAGCTCTCTTAC  
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GTGGACTATAACAGCGCTATTACACCATTGAAAATCTGGATCCCAGCTCTCACTATGTG  
ATTACCCTGAAAGCATTATAACGTGGGTGAAGGCATCCCCCTGTATGAGAGTGTCTGTG  
ACCAGGCCCTCACAGACACTTCTGAAGTTGATTTATTTGTTATTAATGTCCATACACT  
CCAGTGCCAGATCCCCTCCATGATGCCACCAGTGGGAGTTGAGGCTCCATTCTGAGT  
CATGACACCATCAGGATTACGTGGGCAGACAACCTCGTGCCTAAGCAGCAGAAAGATTACA  
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GGGACCACCTTTGAATTAGTTCGACTTCTCCACCCAAGGATGTGACTGTTGTGAGTAA  
GAGGGGAAACCTAAGACCATAATTGTGAATTGGCAGCCTCCCTCCGAAAGCCAATGGCAAA  
ATTACAGGTTACATCATATATTACAGTACAGATGTGAATGCAGAGATACATGACTGGGTT  
ATTGAGCCTGTTGTGGGAAACAGACTGACTCACCAGATAACAAGAGTTAACTTTGACACA  
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GTCCAATTCAGAACACCTAAAGCGGACTCCTCTGATAAAATGCCTAATGATCAAGCCTCA  
GGGTCTGGAGGGAAAGGAAGCCGCTGCCAGACCTAGGATCCGACTACAACCTCCAATG  
AGCGGCAGTAACAGCCCTCATGGGAGCCCCACCTCTCCTCTGGACAGTAATATGCTGCTG  
GTCATAATTGTTTCTGTTGGCGTCATCACCATCGTGGTGGTTGTGATTATCGCTGTCTTT  
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GGCTCTCATAAGTACAAAGGGAATTCAAAAGATGTGAAACCTCCAGATCTCTGGATCCAT  
CATGAGAGACTGGAGCTGAAACCATGATAAGTCTCCAGACCCAAACCCATCATGACT  
GATACTCCAATTCCTCGCAACTCTCAAGATATCACACCAGTTGACAACTCCATGGACAGC  
AATATCCATCAAAGGCGAAATTCATACAGAGGGCATGAGTCAGAGGACAGCATGTCTACA  
CTGGCTGGAAGGCGAGGAATGAGACCAAAAATGATGATGCCCTTTGACTCCCAGCCACCC  
CAGCCTGTGATTAGTGCCATCCATCCATTCCCTCGATAAACCTCACCATCATTTCAC  
TCCAGCAGCCTCGTTCTCCAGCTCGCAGTCATCTTACCACCCGGGCAGCCCATGGCCC  
ATTGGCACATCCATGTCCCTTTCCAGACAGGGCCAATTCCACAGAATCCGTTTCAAATACC  
CCCAGCACTGACACCATGCCAGCCTCTTCGTCTCAAACATGCTGCACTGATCACCAGGAC  
CCTGAAGTGCTACCAGCTCCTTACTTGGCCAGCTCCCAAGAGGAAGATTGAGCCAG  
AGTCTTCCCACTGCCATGTTCCGCTTCCACCCATTGAAGAGCTTCGCGTGCAGCA  
ATCCCGCTCCAGACCTCCACCTATGATCCTGCATTGCCAAGCACACCATTACTGTCC  
CAGCAAGCTCTGAACCATCACATCACTCAGTGAAGACAGCCTCCATCGGGACTTAGGA  
AGGAGCCGGCCTCCTATGCCAGTGGTTGTTCCAGTGCCCTGAAGTGACAGGAGACCACA  
AGGATGTTGGAAGACTCCGAGAGTAGCTATGAACCAGATGAGCTGACCAAGAGATGGCC  
CACCTGGAAGGACTAATGAAGGACCTAAACGCTATCACAACAGCATGACGACCTTACCA  
GGACCTGACTTCAAACCTGAGTCTGGAAGTCTTGGAACTTACCCTTAAAAACAAGGAATT

GTACAGAGTACGAGAGGACAGCACTTGAGAACACAGAATGAGCCAGCAGACTGGCCAGCG  
 CCTCTGTGTAGGGCTGGCTCCAGGCATGGCCACCTGCCTTCCCCTGGTCAGCCTGGAAGA  
 AGCCTGTGTGAGGCAGCTTCCCTTTGCCTGCTGATATTCTGCAGGACTGGGCACCATGG  
 GCCAAAATTTTGTGTCCAGGGAAGAGGGCAGAAGTGCAACCTGCATTTCACTTTGTGGTC  
 AGGCCGTGCTTTGTGCTGTGACTGCATCACCTTATGGAGTGTAGACATTGGCATTAT  
 GTACAATTTTATTTGTGCTTATTTTATTTTACCTTCAAAAACAAAAACGCCATCCAAAA  
 CCAAGGAAGTCTTGGTGTCTCCACAAGTGGTGCACATTTGACTGCTTGTTCCAATTAT  
 GTATGGAAAGTCTTTGACAGTGTGGGTCGTTTCTGGGGTTGGCTGTTTTTTGGTTTCAT  
 TTTTATTTTTTAATTCTGAGTCATTGCATCCTCTACCAGCTGTTAATCCATCACTCTGAG  
 GGGGAGGAAATGTTGCATTGCTGTTTGAAGCTTTTTTTATTATTTTTTTATTATAATTA  
 TTAAGGCCTGACTCTTCTCTCATCACTGTGAGATTACAGATCTATTTGAATTGAATG  
 AAATGTAACATTGAAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCGCGGTCA  
 TAGCTGTTTCTGAACAGATCCCGGGTGGCATCCCTGTGACCCCTCCCCAGTGCCT

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002499 unedited  
 NNNNGTCCGAAATTTGTNAAACGACTCCTATAGGCGGCCCGGAATTCGCACGAGGCTGG  
 AGCAGCGCGCGCCGCGGGAGCCGAGCTTGCAGCGAGGGACCGGCTGAGGCAGCGGGGAGG  
 GAAGGAGGCAAGGGCTCCGCGGCGCTGTCGCGCCGCTGCCGCTCACTCTCGGGGAAGAG  
 ATGGCGGCGGAGCGGGAGCCCGGCGACTCCTCAGCACCCCTCCTTCTGGCTCTACTGC  
 CTGCTGCTGCTCGGGCGCCGGGCGCCGGGCGCCGCGGCCAGGAGCGGCTCCGCGCCG  
 CAGTCCCAGGAGCCAGCATTGAAACGTTCACTCCATTTATTTTCTGGTGGAGCCGGTG  
 GATACACTCTCAGTTAGAGGCTTCTCTGTTATATTAACCTGTTTCAAGCATATTCTGAGCCT  
 TCTCAAAAATGAAATGAAAAAAGATGAACTTTTTTAACTTAGTATCAGATGATCGA  
 CGCCAGCTTCTCCGGATGGATCTTTATTTATCAGCAATGTGGTGCATTCAAAACACAAT  
 AACCTGATGAAGTTATTATCAGTGTGTGGCCACTGTTGAGAGTCTTGGAACTATTATC  
 AGTAGAACAGCGAAGCTCATAGTAGCAGGCTTCCAAGATTTACCAGCCAACCAGAACCT  
 TCCTCAGTTTATGCTGGGAACAATGCAATTCTGAATTGTGAAGGTAATGCAGATTTGGTC  
 CCATTTGTGGAGTGGGGAACAGAACAGACAACCCCTTCTTGGATGGATAGAGTTATC  
 AAATTTCCAGTGGAAATGCTGGTTATCAGCAATGCAACTGAAAGAGAAGGCGGGCTTTA  
 TCGCTGCTACTGAAAGGGGGGGCCCAAGTATAGGGATGAAAGTGAATTGAAGGTA

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002499 unedited  
 ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTCAATGTTACATTTT  
 ATTCAATTCAAATAGATCTGTAATCTCACAGTGATGAGAGGAAAGAGTCAGGCCTTTAAT  
 AATTATAATAAAAAATAATAAAAAAGCTTACAAACAGCAATGCAACATTTCTCCCCC  
 TCAGAGTGATGGATTAACAGCTGGTAGAGGATGCAATGACTCAGAATAAAAATAAAAA  
 TGAAACCAAAAAACAAGCCAACCCAGGAACGACCCACACTGTCAAAGACTTTCCATACA  
 TAATTGGAACAAGCAGTCAAATGTCAACCACTTGTGGAGAACAACCAAGGACTTCTTGGT  
 TTTGGATGGCGTTTTTTGTTTTGAAGGTAATAAAAAAAGACACAAATAAAATTGTACA  
 TAAATGCCAATGTCTACTCCATAAAGGTGATGCAGTCACAGCACAAAGACACGGCCTG  
 ACCACAAAGTAAATGCAGGTTGCACTTCTCGCCTCTTCCCTGGACACAAAATTTGGCC  
 CATGGTGCCAGTCTGCAGAATATCAGCAGGCAAAGGGAAGTGCCTCGACACAGGCTT  
 CTTCCAGGCTGACCAGGGGAAGGCAGGTGGCCATGCCTGGAGCCAGCCCTACACAGAGGC  
 GCTGGCCAGTCTGCTGGCTCATTCTGTGTTCTCAAGTGTGCTCCTCTCGTACTCTGTACA  
 ATTCCTTGNTTTCAGGGTAAAGTCCAAGACTTCCAGACTCAGGTTTGAAGTCAGGGTCT  
 GGNTGAAAGTCGTATGCTGTTGTGATAGCGTTAANGTCTTTCATTAGTCTTNNCAGTG  
 GGCATCTCTTTTGGCAGCTCATCTGGTAATAGTACTCTCGGAGTCTTACATCCCTGGG  
 NTCTCTGCCTCCANGCACTGGGACAACACTGCCTNATGAGCCGCTCTCCTAAGTCCGAGG  
 GAGCTGCTACTGATGAGGGAAGGTAACCTGCTGCAAAAAGGGGGCTGCATCAGAATAAG  
 GGAGAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002499

<b>Insert Size:</b>	5310 bp
<b>OTI Disclaimer:</b>	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>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_002499.1</a> , <a href="#">NP_002490.1</a>
<b>RefSeq Size:</b>	5297 bp
<b>RefSeq ORF:</b>	4386 bp
<b>Locus ID:</b>	4756
<b>UniProt ID:</b>	<a href="#">Q92859</a>
<b>Cytogenetics:</b>	15q24.1
<b>Domains:</b>	ig, IGc2, IG, FN3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Cell adhesion molecules (CAMs)
<b>Gene Summary:</b>	<p>This gene encodes a cell surface protein that is a member of the immunoglobulin superfamily. The encoded protein consists of four N-terminal immunoglobulin-like domains, six fibronectin type III domains, a transmembrane domain and a C-terminal internal domain that shares homology with the tumor suppressor candidate gene DCC. This protein may be involved in cell growth and differentiation and in cell-cell adhesion. Defects in this gene are associated with cell proliferation in certain cancers. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>