

## Product datasheet for **SC120648**

### Nogo B receptor (NUS1) (NM\_138459) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nogo B receptor (NUS1) (NM_138459) Human Untagged Clone
Tag:	Tag Free
Symbol:	NUS1
Synonyms:	C6orf68; CDG1AA; MGC:7199; MRD55; NgBR; TANGO14
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138459, the custom clone sequence may differ by one or more nucleotides

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ATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGCACGCGCTGCTCTGTCTGCACCGCAGCTCACCT
CCTGGCTCCGCGTTCGGTTCGGCACCTGGAAGTGGATCTGGCGGGCTGCTGCCGCGCCGCTCTGCCGC
GGTCTAGCGCCGCTCGGCTTACGCTCCGCAAGCCCCGGCAGTCGGCAGGAACCGCCGTACCACCGG
CACCCGCGGGGGTTCGTGCCTGGCAGCCGCACACCACCGGATGCGCTGGCGCGGACGGTCGTTCCT
TGGAGAAGCTGCCTGTGCATATGGGCCTGGTGATCACCGAGGTGGAGCAGGAACCCAGCTTCTCGGACAT
CGCGAGCCTCGTGGTGTGGTGTATGGCCGTGGGCATCTCCTACATTAGCGTCTACGACCACCAAGGTATT
TTCAAAAGAAATAATCCAGATTGATGGATGAAATTTTAAAACAACAGCAAGAAGTCTGGGCCTAGATT
GTTCAAAATACTCACCAGAAATTTGCAAATAGTAATGACAAAGATGATCAAGTTTTAAATTGCCATTTGGC
AGTGAAGGTGCTGTCTCCGGAAGATGAAAAGCAGATATTGTAAGAGCTGCTCAGGACTTTTCCAGTTA
GTAGCCCAGAAGCAAAAGAGACCCACAGATTTGGATGTAGATACGTTAGCCAGTTTACTTAGTTCAAATG
GTTGTCCTGATCCTGATTTAGTATTGAAGTTCGGTCTGTGGACAGCACATTAGGCTTTCTCCCTGGCA
CATCAGATTGACTGAGATTGTCTTTGCCTTCCACCTAAACATCAGTTATGAGGACTTTTCTCTGCC
CTTCGTCATATGCAGCCTGTGAACAGCGTCTGGAAAGTAG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_138459 unedited</p> <pre> TTTTGCAAATTTTGTAAATACGAACTCACTATAGGGCGGCCGCAATTCGCACGAGGCCGG CCGGCCGAGGGCGGATAAAAAGCCGTCGCGCTGCGGGAGTGGGCGGGAGGGAGAGGGGG TGTCCGAGGGCCACAAGAGTATGACGGGGCTGTACGAGCTGGTGTGGCGGGTGTGCACG CGCTGTCTGTCTGCACCGCACGCTCACCTCCTGGCTCCGCGTNCGGTTTCGGCACCTGGA ACTGGATCTGGCGGGCTGTCTGCCGCGCCGCTCTGCCGCGTCCCTAGCGCCGCTCGGCT TCACGCTCCGCAAGCCCCCGCAGTCGGCAGGAACCGCCGTACCACCGGCACCCGCGCG GGGGGGCGTGCCTGGCAGNCGCACACCACCGGATGCGCTGGCGCGGACGGACGTTCTCT TGGAGAAGCTGCCTGTGCATATGGGCCTGGTGATCACCGAGGTGGAGCAGGAACCCAGCT TTNTCGGACCATCGCGAGCCTNCTGGGTGTGNGNATGGGCGNNGGCATCTNCTACATTTA GCGTCTACGACCACCAAGGTATTTTCAAAGAAATAATTCAGATTGATGGATGAAATTT TAAACAACAGCAAGAAGTCTGGGCCCTAGATTGTTAAATAACNACCAGAATTTTGCA AATAGTAATGACAAAGATGATCAAGTTTTAAATTGCCATTTGGCAGTGAAGGTGTGTCT NCGGAAGATGAAAAGCAGATATTGTAAGAGCTGCTCAGGGACTTTGCCAGTTAGTAACC CAGAAGCATAGAAAACCCAGATTTGGATTGTAACCCTCAGCCAGTTTACTTAAGTCAA ATGGGTGGCCTGATCCTAATTAATTGAAGTTCGGGCCTGTGGACAGCACATTANGCTT TTTTCCCTGCCCATCAGATTGACTGAGA </pre>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' genomic read for NM_138459 unedited</p> <pre> GCTAGAACCGGGCCCATCTANGATCGATTTTTTTTTTTTTTTTTTTAGAGTTTTTTAAA AAATCTCTTTATTAACCTGTTACAGTAGAATACATTTTTTAAATATAGTACAAAAAATT CTCGGTGATCACCAAAAATGTAATCAATAAGGTTACATTCCTTTTCTCTGAACTTCT TTTTCTATAATGAAAAGTGATTTTTTAAACCTTAAGAAATCTTTTTGCACTACCTT TTCCTATCCATTGCATCATAGTTTATGTCCACCAGTTAGGATCTTGGAGAACTGCTCAC ATTAATCTTGTTCCTGGGTTTTATTTCAAACCTGCTGAACTTTATAGTAATTTTTGCT AAAGGAAGTTCCTAGTAAGCAGTTATTTGCCTTTGGTAAACTTAATTTTAAATGAAAAC ATGCACAAAAAAAACAATTGTCTTATGATTACACCTTCAAGTTAGGAAGTGAATAGTCTA TGCAGCATAAGACAAAACAAAACACTTACCTTTAAATTTACTCATTGACAAGAATATC AAATCCCTTTTTAAAAGAATACACATATCCGTTTTCAATTTGAAATTTCCAATTCGGAA AACATCCAACCTTTAGCAACGGAGGAAATAAAAAACCCCCCATGAAAAACAAGAAATTA ATTTCCAAAAAACAATACAAAGACAGTCCCATAAAAATCCCAAGACTCTGAGCGGAT AAACCTCCAAAAAAGCCAGCCGAAAAGAAACCACAAAACGGTAAAGACACGGAAACCGA AAATACCACCCACAAAACAAAAAAGACGCCACAAATCCCATACCAAGAGACATACACAA GAATCCAATCGAAAACAGACAAAAAC </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_138459
<b>Insert Size:</b>	4700 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).

**Reconstitution Method:**

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\\_138459.2](#), [NP\\_612468.1](#)

**RefSeq Size:** 2636 bp

**RefSeq ORF:** 882 bp

**Locus ID:** 116150

**UniProt ID:** [Q96E22](#)

**Cytogenetics:** 6q22.1

**Gene Summary:** This gene encodes a type I single transmembrane domain receptor, which is a subunit of cis-prenyltransferase, and serves as a specific receptor for the neural and cardiovascular regulator Nogo-B. The encoded protein is essential for dolichol synthesis and protein glycosylation. This gene is highly expressed in non-small cell lung carcinomas as well as estrogen receptor-alpha positive breast cancer cells where it promotes epithelial mesenchymal transition. This gene is associated with the poor prognosis of human hepatocellular carcinoma patients. Naturally occurring mutations in this gene cause a congenital disorder of glycosylation and are associated with epilepsy. A knockout of the orthologous gene in mice causes embryonic lethality before day 6.5. Pseudogenes of this gene have been defined on chromosomes 13 and X. [provided by RefSeq, May 2017]