

## Product datasheet for **SC302269**

### Neuropilin 1 (NRP1) (NM\_001024629) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuropilin 1 (NRP1) (NM_001024629) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuropilin 1
Synonyms:	BDCA4; CD304; NP1; NRP; VEGF165R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC302269 representing NM\_001024629.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGAGGGGGCTGCCGCTCTCTGCGCCGTGCTCGCCCTCGTCTCGCCCCGGCCGGCGCTTTTCGC
AACGATAAATGTGGCGATACTATAAAAAATTGAAAGCCCCGGGTACCTTACATCTCCTGGTTATCCTCAT
TCTTATCACCCAAGTAAAAATGCGAATGGCTGATTGAGGCTCCGGACCCATACCAGAGAATTATGATC
AACTTCAACCCTCACTTCGATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTCTTCGATGGA
GAAAATGAAAATGGACATTTTAGGGGAAAGTTCTGTGGAAGATAGCCCCCTCCTCCTGTTGTGTCTCA
GGGCCATTTCTTTTATCAAATTTGTCTCTGACTACGAAACACATGGTGCAGGATTTTCCATACGTTAT
GAAATTTTCAAGAGAGGTCTGAATGTTCCAGAACTACACAACACCTAGTGGAGTGATAAAGTCCCCC
GGATTCCTGAAAATATCCCAACAGCCTTGAATGCATTATATTGTCTTTGCGCCAAAGATGTCAGAG
ATTATCCTGGAATTTGAAAGCTTTGACCTGGAGCCTGACTCAAATCCTCCAGGGGGGATGTTCTGTGCG
TACGACCGGCTAGAAATCTGGGATGGATTCCTGATGTTGGCCCTCACATTGGGCGTTACTGTGGACAG
AAAACACCAGGTGCAATCCGATCCTCATCGGGCATTCTCTCCATGGTTTTTACACCAGACAGCGCGATA
GCAAAAAGAAGTTTTCTCAGCAAACCTACAGTGTCTTGCAGAGCAGTGTCTCAGAAGATTTCAAATGTATG
GAAGCTCTGGGCATGGAATCAGGAGAAATTCATTTGACCAGATCACAGCTTCTTCCCAGTATAGCACC
AACTGGTCTGCAGAGCGCTCCCGCTGAACTACCTGAGAATGGGTGGACTCCCGGAGAGGATTCCTAC
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TCAAAAAGAAACCAAGAAGAAATATTATGTCAAGACTTACAAGATCGACGTTAGCTCCAACGGGGAAGAC
TGGATCACCATAAAAGAAGGAAACAACTGTTCTCTTTTCAGGGAAACACCAACCCACAGATGTTGTG
GTTGCAGTATTTCCCAAACCACTGATAAATCGATTTGTCCGAATCAAGCCTGCAACTTGGGAAACTGGC
ATATCTATGAGATTTGAAGTATACGGTTGCAAGATAACAGATTATCCTTGCTCTGGAATGTTGGGTATG
GTGCTGGAATTTTCTGACTCCAGATCACATCATCCAACCAAGGGGACAGAACTGGATGCCTGAA
AACATCCGCTGGTAACCAAGTCGCTCTGGCTGGCACTTCCACCCGACCTATTCTACATCAATGAG
TGGCTCCAAATAGACCTGGGGGAGGAGAAGATCGTGAGGGGCATCATATTAGGGTGGGAAAGCACCGA
GAGAACAAGGTGTTTCATGAGGAAGTTCAAGATCGGGTACAGCAACAACGGCTCGGACTGGAAGATGATC
ATGGATGACAGCAACGCAAGGCGAAGTCTTTTGGGGCAACAACACTATGATACACCTGAGCTGCGG
ACTTTTCCAGCTCTCTCCACGCGATTATCAGGATCTACCCCGAGAGAGCCACTCATGGCGACTGGGG
CTCAGAATGGAGCTGCTGGGCTGTGAAGTGAAGGTGGCACCCTGTGCTGGCCACAGAAAAGCCACG
GTCATAGACAGCACCATACAATCAGGTATCAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001024629

**Insert Size:** 1830 bp

**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).

**OTI Annotation:** 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.

**Components:** 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\\_001024629.2](#)

**RefSeq Size:** 2373 bp

**RefSeq ORF:** 1830 bp

**Locus ID:** 8829

**UniProt ID:** [O14786](#)

**Cytogenetics:** 10p11.22

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** Axon guidance

**MW:** 68.3 kDa

**Gene Summary:** This gene encodes one of two neuropilins, which contain specific protein domains which allow them to participate in several different types of signaling pathways that control cell migration. Neuropilins contain a large N-terminal extracellular domain, made up of complement-binding, coagulation factor V/VIII, and meprin domains. These proteins also contains a short membrane-spanning domain and a small cytoplasmic domain. Neuropilins bind many ligands and various types of co-receptors; they affect cell survival, migration, and attraction. Some of the ligands and co-receptors bound by neuropilins are vascular endothelial growth factor (VEGF) and semaphorin family members. This protein has also been determined to act as a co-receptor for SARS-CoV-2 (which causes COVID-19) to infect host cells. [provided by RefSeq, Nov 2020]

Transcript Variant: This variant (3) lacks an alternate in-frame coding region segment, uses a different splice site in the 3' end and contains a different segment for the 3' end of the coding region and the 3' UTR, compared to variant 1. The resulting protein (isoform c) has a shorter C-terminus when compared to isoform a.