

Product datasheet for **SC320747**

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-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001024629.1
 CTTTTCACCAAGACGGGCTGAGGATTGTACAGCTCTAGGCGGAGTTGGGGCTCTTCGGAT
 CGCTTAGATTCTCCTCTTTGCTGCATTTCCCCCACGTCTCGTTCTCCCGCTGCCT
 GCGGACCCGGAGAAGGGAGAATGGAGAGGGGGCTGCCGCTCTCTGCGCCGTGCTCGCCC
 TCGTCTCGCCCCGGCCGGCGCTTTTCGCAACGATAAAATGTGGCGATACTATAAAAATTG
 AAAGCCCCGGGTACCTTACATCTCCTGGTTATCCTCATTCTTATCACCCAAGTAAAAAT
 GCGAATGGCTGATTCAGGCTCCGACCCATACCAGAGAATTATGATCAACTTCAACCCCTC
 ACTTCGATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTCTTCGATGGAGAAA
 ATGAAAATGGACATTTTAGGGGAAAATTCTGTGAAAAGATAGCCCTCCTCTGTGTGT
 CTTCAGGGCCATTTCTTTTATCAAATTTGTCTCTGACTACGAAACACATGGTGCAGGAT
 TTTCCATACGTTATGAAATTTTCAAGAGAGGCTCCTGAATGTTCCAGAACTACACAACAC
 CTAGTGGAGTGATAAAGTCCCCGGATTCCCTGAAAAATATCCCAACAGCCTTGAATGCA
 CTTATATTGTCTTTGCGCAAAGATGTCAGAGATTATCCTGGAATTTGAAAGCTTTGACC
 TGGAGCCTGACTCAAATCTCCAGGGGGATGTTCTGTGCTACGACCGGCTAGAAATCT
 GGGATGGATTCCCTGATGTTGGCCCTCACATTGGGCGTTACTGTGGACAGAAAACACCAG
 GTCGAATCCGATCCTCATCGGGCATTCTCTCCATGGTTTTTACACCGACAGCGCATAG
 CAAAAGAAGGTTTCTCAGCAAACACAGTGTCTTGCAGAGCAGTGTCTCAGAAGATTTCA
 AATGTATGGAAGCTCTGGGCATGGAATCAGGAGAAATTCATTCTGACCAGATCACAGCTT
 CTTCCAGTATAGCACCAACTGGTCTGCAGAGCGCTCCCGCTGAACTACCCTGAGAATG
 GGTGGACTCCCGGAGAGGATTCTACCGAGAGTGGATACAGGTAGACTTGGGCCTTCTGC
 GCTTTGTACGGCTGTGCGGACACAGGGCGCCATTTCAAAGAAACCAAGAAGAAATATT
 ATGTCAAGACTTACAAGATCGACGTTAGCTCCAACGGGGAAGACTGGATCACCATAAAG
 AAGGAAACAAACCTGTTCTTTTCAGGGAACACCAACCCACAGATGTTGTGGTTGCAG
 TATTTCCCAAACCACTGATAAATCGATTTGTCCGAATCAAGCCTGCAACTTGGGAAACTG
 GCATATCTATGAGATTTGAAGTATACGGTTGCAAGATAACAGATTATCCTTGCTTGAA
 TGTTGGGTATGGTGTCTGGACTATTTCTGACTCCCAGATCACATCATCCAACCAAGGGG
 ACAGAACTGGATGCCTGAAAACATCCGCCTGGTAACCAAGTCTGCTCTGGCTGGGCACTT
 CACCCGCACCTCATTCTACATCAATGAGTGGCTCCAAATAGACCTGGGGGAGGAGAAGA
 TCGTGAGGGGCATCATATTCAGGGTGGGAAGCACCGAGAGAACAAGGTGTTTCATGAGGA
 AGTTCAAGATCGGTACAGCAACAACGGCTCGGACTGGAAGATGATCATGGATGACAGCA
 AACGCAAGGCGAAGTCTTTTGGGGCAACAACAATATGATACACCTGAGCTGCGGACTT
 TTCCAGCTCTCTCCACGGATTATCAGGATCTACCCGAGAGGCCACTCATGGCGGAC
 TGGGGCTCAGAATGGAGCTGCTGGGCTGTGAAGTGAAGGTGGCACCACTGTGCTGGCCA
 CAGAAAAGCCACGGTATAGACAGCACCATACAATCAGGTATCAATAAAAATACGAAAT
 GTGACAGAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001024629

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:	<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_001024629.1 , NP_001019800.1
RefSeq Size:	2005 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
Gene Summary:	<p>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]</p> <p>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.</p>