

## Product datasheet for SC117726

### Neuropilin 1 (NRP1) (NM\_003873) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neuropilin 1 (NRP1) (NM_003873) Human Untagged Clone
Tag:	Tag Free
Symbol:	Neuropilin 1
Synonyms:	BDCA4; CD304; NP1; NRP; VEGF165R
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117726 sequence for NM_003873 edited (data generated by NextGen Sequencing)

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ATGGAGAGGGGGCTGCCGCTCCTCTGCGCCGTGCTCGCCCTCGTCTCGCCCCGGCCGGC
GCTTTTCGCAACGATAAAATGTGGCGATACTATAAAAAATTGAAAGCCCCGGGTACCTTACA
TCTCCTGGTTATCCTCATTCTTATCACCCAAGTAAAAATGCGAATGGCTGATTGAGGCT
CCGGACCCATACCAGAGAATTATGATCAACTTCAACCCTCACTTCGATTTGGAGGACAGA
GACTGCAAGTATGACTACGTGGAAGTCTTCGATGGAGAAAATGAAAATGGACATTTTAGG
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TTCAAGAGAGGTCTGAATGTTCCAGAACTACACAACACCTAGTGGAGTGATAAAGTCC
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ATCAATGAGTGGCTCAAATAGACTGGGGGAGGAGAAGATCGTGAGGGGCATCATCATT

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CAGGGTGGGAAGCACCGAGAGAACAAGGTGTTTCATGAGGAAGTTCAAGATCGGGTACAGC  
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 TTTGAACTTGTGGATGGTGTGAAGTTGAAAAAGACAACTGAATACACAGAGTACTTAT  
 TCGGAGGCATGA

Clone variation with respect to NM\_003873.5  
 418 a=>c;1161 c=>t;1266 c=>t;2595 t=>c

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_003873 unedited  
 CGGCACCAGGGGAAAAGGGAGAGGAAGCCGGAGCTAAATGACAGGATGCAGGCGACTTGA  
 GACACAAAAAGAGAAGCGTTCTCTCGGATCCAGGCATTGCCTCGCTCTTTCTTTTCTC  
 CAAGACGGGCTGAGGATTGTACAGCTCTAGGCGGAGTTGGGGCTCTTCGGATCGCTTAGA  
 TTCTCCTCTTTGCTGCATTTCCCCCACGTCCTCGTTCTCCCGCTCTGCCTGCGGACCC  
 GGAGAAGGGAGAATGGAGAGGGGCTGCCGCTCCTCTGCCCGTGTCTCGCCCTCGTCCTC  
 GCCCCGGCCGGCGCTTTTCGCAACGATAAATGTGGCGATACTATAAAAATTGAAAGCCCC  
 GGGTACCTTACATCTCCTGGTTATCCTCATTCTTATCACCCAAGTAAAAATGCGAATGG  
 CTGATTCAGGCTCCGGACCCATACCAGAGAATTATGATCAACTTCAACCCTCACTTCGAT  
 TTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTCTTCGATGGAGAAAATGAANAT  
 GGACATTTTAGGGGAAAGTTCTGTGAAAGATAGCCCTCCTCCTGTTGTGTCTTCAGGG  
 CCATTTCTTTNTATCAAATTTGTCTCTGACTACGAAACACATGGTGCAGGATTTCCATA  
 CGTTATGAACTTTTCAAGAGAGGTCCCTGATGTTCCAGAACTACCACACACCTAGTGGA  
 GTGATAAAAGTCCCGGATTCCCTGAAAATACCCNACAGCNCTGATGCACATATTTGCTT  
 TGCGCAAGA

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_003873 unedited            GAACGCGGCACGCATCTATATCGAGTTTTTTTTTTTTTTTTTTTACCAGTAAAATGAAA            ACATTTTACTACAGAAAGTTTTATAGATTTCCATAAAGAAAAAATGTTATTTTACACCT            TAAAAAATTACAAAACAATCTAAAACAATATAAACTGAACATTTTGTAACACTGCCTTTA            CAAATTAATAACTTTATAAACATACAATTTTTAAATATATTTATCAGTGCAAGATACTTT            AAATTTTAAAGTTGCAGTATCATTTTTCTTGGCTGAAGACAACCTTAAGTCTGTTGCCT            TTAAAAACAACAACGAGTGTTCCTTATAGCTTTCCTTCTGGTAGGATTATATCAACTAA            ATGAATGTCTCTGGGACAAAAAATACTTCTTCTTCATGGAGATCAATATTTCTGGA            AACAAAAGGCATTCTCAATCCAATTTAACTAAGATGAATGGACTGTCTCATCTATGATGC            AAATGTGACTCCCAACAATGTCTTTGAGTGAGACGTCTAGCAATGTGGGAAGGAAGATC            TAAAAATCTCATGTCCAACATGGCATGATAAAAAATCCACCAAAACCAACAAAGCTTCT            TTGGGTTAATTCATAAGCTGCCTGNTAAGATATTAGCTTCCCTGTGCTGTAGAAGCTTA            AATGCTGCCAGCCTTAAAGCAGTCCTTATTTCTTTGTGAGCCGCTGGGAAGTTCTAGAA            ACACTCATTTAAGTCTATCTCTCAAGCTTGCTGTTATGAATTTTAAAACATTTGTTTGA            CTTTATGAGTTTTCCCTCTTATCTAAAATACTGACCCCAAGCTCAAGATTATAGCTT            CATTCTAATTAACAGTCCTTCTACACTCCCCTGTGGGAACATTACAAAATAGAAAGT            TCTCTGAGCCTTTTTCATATTTGGAAGAAAAATCCAGCCTTTGGATTTGAAAATTATCCG            TTCTTCTCGGCCATTGAAACCATTAT</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_003873
<b>Insert Size:</b>	5480 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<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_003873.3</a> , <a href="#">NP_003864.3</a>

RefSeq Size:	5890 bp
RefSeq ORF:	2772 bp
Locus ID:	8829
UniProt ID:	<a href="#">O14786</a>
Cytogenetics:	10p11.22
Domains:	F5_F8_type_C, CUB, MAM
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 (1) represents the longest transcript and it encodes the longest protein (isoform a).</p>