

## Product datasheet for **SC122534**

### **NRP2 (BC009222) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NRP2 (BC009222) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRP2
Synonyms:	MGC126574; neuropilin-2a(17); neuropilin-2a(22); neuropilin-2b(0); neuropilin 2; NP2; NPN2; PRO2714; receptor for VEGF165 and semaphorins class3; vascular endothelial growth factor-165 receptor 2; VEGF165R2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for BC009222 edited  
 GGCACGAGGGCAGAGCATGTTTGGGACATAACAAAGGATCTGAGTAGTAAACACCGTACG  
 CCACCAACTCCTCTTGTAAACGCCATCGCGCTGGCATTGTGTTGGGTTCTGCGTGTGTG  
 GCATCGGAGTCGTGGAATTTAGGGGAACAAGGCTTTTCCCCCGTCCCCCGGGTCTC  
 CCTTGGGTGGGGGCGACACGGCAAGGGCGGCGCCCTGGGGTGCCTGGGGGCGCTTC  
 TTCCCCAGGGCTTACGCACCGGCGCCCGCGGAGGAGCTACTCTCCTCTGGTGAG  
 GTGGAAATTCAGCAAGAATAGAGGTGAAGACAAGCCACCAGACTCAGGAGGAAACGC  
 TGACCATTAGAAAACCTTCGCATAAGACGTTGTAAGGAGGAAAATAAAGAGAGAAAAACA  
 CAAAGATTTAAACAAGAAACCTACGAACCCAGCTCTGAAAAGAGCCACCTTCTCCAAAAT  
 GGATATGTTTCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTGAG  
 AGGCCAACAGACCCACCGTGGGAGGTCGTTTGAATTCAAAGATGCTGGCTATATCAC  
 CTCTCCCGTTACCCCCAGGACTACCCCTCCACCAGAAGTGCAGTGGATTGTTTACGC  
 CCCCAGCCCAACAGAAAGATTGCTCCTCAACTTCAACCCTCACTTTGAAATCGAGAAGCA  
 CGACTGCAACTTGCTGTCTGCTTGGAAAATTTCACTCACAAAGCCGAGCTTTGCCTGACT  
 CAGTGCAATCCAAGGCCATCATCTGGTGAACCTCCCTTGACTCCTCCCTCCAGCCACT  
 TGAGAAAATGCAATCCTGGGCACCCACAGGCTGTTTGGGGCCTGTATAGAAGCTGTGG  
 GCAGAAAACAGAGGCCACTGTGGTACTGCTGGACTCCTGCAGCCAAAGGACAAAAGGGCG  
 AGACTACGGGCGCTCTGGGCAACAGAGAGAAGCCACTTTATCCCTGTGGAGTGGAGGA  
 TGCTAGGATGTTGCTGCTCCGGCAGACAGAGGCCCTTTCGCTTGAGTATCAGCCAACAGA  
 CTGAATGTTATGGTTTTAGAAAACCATACACAAAGTTGAGTGGTTTTTCCATTTCTAAA  
 ATTTAAAATGTATGATTTTTTAAACACCCACCTGCATGTAATACACAGCTTGTTCAGGA  
 GTTCTCAAACAGCCCCAGCACCCACCCATCCCAGAGGCTCAACCAAATAAAACCAAAAC  
 CAGGAGGCTGGTCTTTTTAAGCACTGGTAATTTCTACCTGTAATTCAGCCCTTTGGGA  
 GGCCGAGGCAGGCAGGTACCTGAGGTCAGGAGTTCGAGACCAGCCTGGTCAACATGGTG  
 AAACCCGCTCTACTAAAAATACAAAAAAATAGCCAAGCTTGGTGGTGCCTGCTGT  
 AATCTCAGCTACTCTGGAGGCTGAGGCAGGAGAATCACTTGAACCTGGGAGGCAGAGGCT  
 GCAGTGAGCTGAGATTGTGCCACTGCACTCCGGCCTGGGTGAAAGAGTGAGACTCTGTCT  
 CAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for BC009222 unedited  
 NAAAAGTTTAGATTTTGTNATACGACTCCTATAGCGGCACGCGAATTCGCACGAGGGCA  
 GAGCATGTTTGGGACATAACAAAGGATCTGAGTAGTAAACACCGTACGCCACCAACTCC  
 TCTTGTAAACGCCATCGCGCTGGCATTGTGTTGGGTTCTGCGTGTGTGGCATCGGAGTCG  
 TGGAAATTTAGGGGAACAAGGCTTTTCCCCCGTCCCCCGGGTCTCCCTTGGGTGGG  
 GCGACACGGCCAAGGGCGGCGCCCTGGGGTGCCTGGGGGCGCTTCTTCCCCAGGGCG  
 TTACGCACCGGCGCCCGCGGAGGAGCTACTCTCCTCTGGTGGAGTGGAAATTCAC  
 GCAAGAATAGAGGTGAAGACAAGCCACCAGGACTCAGGAGGAAACGCTGACCATTAGAA  
 ACCTCTGCATAAGACGTTGTAAGGAGGAAAATAAAGAGAGAAAAACACAAGATTTAAA  
 CAAGAAACCTACGAACCCAGCTCTGAAAAGAGCCACCTTCTCCAAAATGGATATGTTTCC  
 TCTCACCTGGGTTTTCTTAGCCCTACTTTTCAAGACACCAAGTGAAGGCCAACCCAGA  
 CCCACCGTGCGGAGGTCGTTTGAATTCAAAGATGCTGGCTATATCACCTCTCCCGTTA  
 CCCCCAGGACTACCCCTCCACCAGAACTGCGAGTGGATTGTTTACGCCCCGAACCCAA  
 CCAGAAGATTGCTCCTCAACTTCAACCCTCACTTTGAAATCGAGAAGCAGACTGCAACTT  
 GCTGTCTGCTTGGAAAATTTCACTCACAAAGCCGAGCTTTGCCTGACTCAGTGCAATCCA  
 AGGCCATCATCTGGTGAACCTTNCCTTGACTCCTCCCTCCAGCCACTTGCAAGGAATGCA  
 AATCCTGGGCAC

**Restriction Sites:** Please inquire  
**ACCN:** BC009222  
**Insert Size:** 1500 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="#">BC009222.1</a> , <a href="#">AAH09222.1</a>
<b>RefSeq Size:</b>	1587 bp
<b>RefSeq ORF:</b>	300 bp
<b>Locus ID:</b>	8828
<b>Cytogenetics:</b>	2q33.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	This gene encodes a member of the neuropilin family of receptor proteins. The encoded transmembrane protein binds to SEMA3C protein {sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3C} and SEMA3F protein {sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F}, and interacts with vascular endothelial growth factor (VEGF). This protein may play a role in cardiovascular development, axon guidance, and tumorigenesis. Multiple transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]