

## Product datasheet for **SC308008**

### **NRP2 (NM\_201279) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NRP2 (NM_201279) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRP2
Synonyms:	NP2; NPN2; PRO2714; VEGF165R2
Vector:	<u>pCMV6 series</u>



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_201279, the custom clone sequence may differ by one or more nucleotides

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ATGGATATGTTTCCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTG
AGAGGCCAACCCAGACCCACCGTGC GGAGGTCGTTTGAATTCCAAAGATGCTGGCTATATC
ACCTCTCCCGGTTACCCCAAGGACTACCCCTCCCACCAGAAGTGCAGAGTGGATTGTTTAC
GCCCCGAACCCAAACCAAGAGATTGTCTCAACTTCAACCCTCACTTTGAAATCGAGAAG
CAGGACTGCAAGTATGACTTTATCGAGATTTCGGGATGGGGACAGTGAATCCGCAGACCTC
CTGGGCAAAACACTGTGGGAACATCGCCCCGCCACCATCATCTCCTCGGGCTCCATGCTC
TACATCAAGTTCACCTCCGACTACGCCCGCAGGGGGCAGGCTTCTCTCTGCGCTACGAG
ATCTTCAAGACAGGCTCTGAAGATTGCTCAAAAACTTCAACAAGCCCAACGGGACCATC
GAATCTCCTGGGTTTCTGAGAAGTATCCACACAAGTGGACTGCACCTTACCATCCTG
GCCAAACCAAGATGGAGATCATCTGCAGTTCCTGATCTTTGACCTGGAGCATGACCCT
TTGCAGGTGGGAGAGGGGACTGCAAGTACGATTGGCTGGACATCTGGGATGGCATTCCA
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TCGACGGGGATCTCTCCCTGACCTTTACACGGACATGGCGGTGGCCAAGGATGGCTTC
TCTGCGCTTACTACCTGGTCCACCAAGAGCCACTAGAGAAGTTTCAGTGAATGTTCTCT
CTGGGCATGGAGTCTGGCCGGATTGCTAATGAACAGATCAGTGCCTCATCTACCTACTCT
GATGGGAGGTGGACCCCTCAACAAAGCCGGCTCCATGGTATGACAATGGCTGGACCCCC
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CACAAGGTATTTCAAGCCAACAACGATGCAACTGAGGTGGTCTGAACAAGCTCCACGCTC
CCACTGCTGACAAGGTTTGTAGAAATCGCCCTCAGACCTGGCACTCAGGTATCGCCCTC
CGGCTGGAGCTCTTCGGCTGCCGGTCAAGATGCTCCCTGCTCCAACATGCTGGGGATG
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GCCAGCCCGGTGAGGAGTGGCTTCAGGTAGATCTGGGAACCCCAAGACAGTGAAGGT
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CCCAGGACCCAGCAGCAAGCTGTTGGAAGGAAACATGCACTATGACACCCCTGACATC
CGAAGGTTTGACCCATTCCGGCACAGTATGTGCGGGTATACCCGGAGAGGTGGTCGCCG
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CCTTCGGGATTCAATTGCAACTTCGATTTCTCGAGGAGCCCTGTGGTTGGATGTATGAC
CATGCCAAGTGGTCCGGACCACCTGGGCCAGCAGCTCCAGCCAAACGACCCGGACGTTT
CCAGATGACAGGAATTTCTTGGGCTGCAGAGTACAGCCAGAGAGAGGGCCAGTATGCC
CGGCTCATCAGCCCCCTGTCCACCTGCCCCGAAGCCCGGTGTGCATGGAGTTCAGTAC
CAGGCCACGGGCGGCGGGTGGCGCTGCAGGTGGTGGGGAAGCCAGCCAGGAGAGC
AAGTTGCTGTGGTCATCCGTGAGGACCAGGGCGGAGTGAAGCAGGGCGGATCATC
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TCCGGAGAGATTGCCATTGATGACATTCCGATAAGCACTGATGTCCCACTGGAGAAGTGC
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GCAACCTCAGGGTCTGGCGCCCTCGACCGACAAAGAAAAGAGCTGGCTGTACACCCTG
GATCCCATCTCATCACCATCATCGCCATGAGCTACTGGGCGTCTCTGGGGGCCACC
TGTGCAGGCTCCTGCTACTGCACCTGTTCTACTCGGGCTGAGCTCCCGAAGCTGC
ACCACACTGGAGAAGTCAACTTCGAGCTTACGATGGCCTTAAGCACAAGGTCAAGATG
AACCACAAAAGTCTGCTCCGAGGCATGA

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**Restriction Sites:** Please inquire

**ACCN:** NM\_201279

<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>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_201279.1</a></u> , <u><a href="#">NP_958436.1</a></u>
<b>RefSeq Size:</b>	6605 bp
<b>RefSeq ORF:</b>	2730 bp
<b>Locus ID:</b>	8828
<b>UniProt ID:</b>	<u><a href="#">O60462</a></u>
<b>Cytogenetics:</b>	2q33.3
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3), also known as NRP2a(0), lacks an in-frame segment and a following in-frame exon in the coding region, compared to variant 1. This results in a shorter isoform (3), compared to isoform 1.</p>