

Product datasheet for **SC308002**

NRP2 (NM_201264) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRP2 (NM_201264) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRP2
Synonyms:	NP2; NPN2; PRO2714; VEGF165R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC308002 representing NM_201264.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGATATGTTTCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTGAGAGGCCAA
CCAGACCACCGTGGGAGGTCGTTTGAATTCAAAGATGCTGGCTATATCACCTCTCCCGTTACCCC
CAGGACTACCCCTCCACCAGAAGTGCAGTGGATTGTTTACGCCCCGAACCAACCAGAAGATTGTC
CTCAACTTCAACCCTCACTTTGAAATCGAGAAGCAGACTGCAAGTATGACTTTATCGAGATTCCGGAT
GGGACAGTGAATCCGCAGACCTCTGGGCAAACACTGTGGGAACATCGCCCCGCCACCATCATCTCC
TCGGGCTCCATGCTCTACATCAAGTTCACCTCCGACTACGCCCGCAGGGGGCAGGCTTCTCTGCGC
TACGAGATCTTCAAGACAGGCTCTGAAGATTGCTCAAAAACTTCAAGCCCAACGGGACCATCGAA
TCTCTGGGTTTCTGAGAAGTATCCACACAAGTGGACTGCACCTTTACCATCTGGCCAAACCAAG
ATGGAGATCATCTGCAGTTCCTGATCTTTGACCTGGAGCATGACCTTTGCAGGTGGGAGAGGGGGAC
TGCAAGTACGATTGGCTGGACATCTGGGATGGCATTCCACATGTTGGCCCTGATTGGCAAGTACTGT
GGGACAAAACACCTCTGAACCTCGTTTACGACGGGGATCCTCTCCCTGACCTTTACACGGACATG
GCGGTGGCCAAGGATGGCTTCTCTGCGCGTACTACCTGGTCCACCAAGGCCACTAGAGAACTTTCAG
TGCAATGTTTCTCTGGGCATGGAGTCTGGCCGGATTGCTAATGAACAGATCAGTGCCTCATCTACCTAC
TCTGATGGGAGGTGGACCCCTCAACAAAGCCGGCTCCATGGTGTGACAAATGGCTGGACCCCAACTTG
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GGAGCGATTTCCAGGGAAACACAGAATGGCTACTATGTCAAATCTACAAGCTGGAAGTCAGCACTAAT
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GAGGTGGTCTGAACAAGCTCCACGCTCCACTGCTGACAAGGTTGTTAGAATCCGCCCTCAGACCTGG
CACTCAGGTATCGCCCTCCGGCTGGAGCTCTCGGCTGCCGGTACAGATGCTCCTGCTCCAACATG
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AGCCCCAGTGCAGCCCGCTGGTCAGCAGCCGCTCGGGCTGGTCCCTCGAATCCCTCAGGCCAGCCC
GGTGAGGAGTGGCTTCCAGGTAGATCTGGGAACACCAAGACAGTGAAGGTGTCATCATCCAGGGAGCC
CGCGGAGGAGACAGTATCACTGCTGTGGAAGCCAGAGCATTGTGCGCAAGTTCAAAGTCTCTACAGC
CTAAACGGCAAGGACTGGGAATACATTCAGGACCCAGGACCCAGCAGCCAAAGTAGGCTGTTCTTGG
AGGCCTCTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
  
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- Restriction Sites:** Sgfl-Mlul
- Plasmid Map:** □
- ACCN:** NM_201264
- Insert Size:** 1668 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_201264.1](#)

RefSeq Size: 2601 bp

RefSeq ORF: 1668 bp

Locus ID: 8828

UniProt ID: [O60462](#)

Cytogenetics: 2q33.3

Protein Families: Druggable Genome, Transmembrane

MW: 62.4 kDa

Gene Summary: 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]
Transcript Variant: This variant (6), also known as S9NRP2b, lacks several 3' exons and uses an alternate segment in the 3' coding region and 3' UTR, compared to variant 1. This results in a shorter, potentially soluble isoform (6) with a distinct C-terminus, compared to isoform 1.