

Product datasheet for SC121198

NRP2 (NM_003872) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRP2 (NM_003872) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRP2
Synonyms:	NP2; NPN2; PRO2714; VEGF165R2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC121198 sequence for NM_003872 edited (data generated by NextGen Sequencing)

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ATGGATATGTTTCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTG
AGAGGCCAACCCAGACCCACCGTGCAGGAGTCGTTTGAATTCCAAAGATGCTGGCTATATC
ACCTCTCCCGGTTACCCCCAGGACTACCCCTCCCACCAGAACTGCGAGTGGATTGTTTAC
GCCCCGAACCCAACCAAGATTGTCCTCAACTTCAACCCTCACTTTGAAATCGAGAAG
CACGACTGCAAGTATGACTTTATCGAGATTCGGGATGGGGACAGTGAATCCGCAGACCTC
CTGGGCAAACACTGTGGGAACATCGCCCCGCCACCATCATCTCCTCGGGCTCCATGCTC
TACATCAAGTTCACCTCCGACTACGCCCGCAGGGGGCAGGCTTCTCTGCGCTACGAG
ATCTTCAAGACAGGCTCTGAAGATTGCTCAAAAACTTACAAGCCCCAACGGGACCATC
GAATCTCCTGGGTTTTCTGAGAAGTATCCACACAATTGGACTGCACCTTACCATCCTG
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TCGACGGGGATCCTCTCCCTGACCTTTCACACGGACATGGCGGTGGCCAAGGATGGCTTC
TCTGCGGTTACTACCTGGTCCACCAAGAGCCACTAGAGAATTTTCAGTGCAATGTTCTC
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AGCCCCAGTGCAGCCCGCTGGTCAGCAGCCGCTCGGGCTGGTTCCCTCGAATCCCTCAG
GCCAGCCCGGTGAGGAGTGGCTTCAGGTAGATCTGGGAACCCAAGACAGTGAAGGT

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GTCATCATCCAGGGAGCCCGGAGGAGACAGTATCACTGCTGTGGAAGCCAGAGCATTT
 GTGCGCAAGTTCAAAGTCTCCTACAGCCTAAACGGCAAGGACTGGGAATACATTACAGGAC
 CCCAGGACCCAGCAGCCAAAGCTGTTTGAAGGGAACATGCACTATGACACCCCGGACATC
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 GAGAACTACAACCTCGAGCTCTACGATGGCCTTAAGCACAAAGTCAAGATGAACCACCAA
 AAGTGCTGCTCCGAGGCATGA

Clone variation with respect to NM_003872.2
 1071 t=>c;1674 t=>g

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_003872 unedited
 CCGCGGAATCGGCACGAGGCACCAGCCTGCAGCCGGCCCCAGCACATCCTCAGCCGCAC
 AGACACTCGGCGAGGTGGAGGTGAGGGCGGGCCAGCGAACTCGGAGAGGGGCTCGCTC
 ACTCCCAGGCGATCCCAGCCGCCACCGCCGCGCACAGCAGCAGCAACAGCAGCAGCAG
 CTTCTTCTCAGACTCCCTCGAGAGGCTGGCCAAGCGGGTGTAGCCGTTGGGGGAGGC
 TCCCGCCGGGGAAACCCGGCAGGACAAGAGCAGGGCGGCCCTTCACTCGGGCTGTC
 CGGCGGGCGCTGCCTCCGCCCGGTGTCCGTCAAGGGTGCAGGGGATGTGTGTCAGTTT
 ACGCCTCTGAGATCACACAGCTGCCTGGGGCCGTGTGATGCCAAGGCAAGTCTTGTT
 TTAATTATTATTATCATTATTGTTACGTTGGCTTTCGGGAAATACTCGTGATATTT
 GTAGGATAAAGGAAATGACACTTTGAGGAACTGGAGAGAACATATGCGTTTTGTTTTT
 AAGAGGAAAACCGTGTCTCTTCCCGGCTTGTCCCTCTTGCTGATTTTCAGGAGCTACT
 CTCTCTGGTGAGGTGGAATTCAGCAAGAATAGAGGTGAAGACAAGCCACCAGGACT
 CAGGAGGGAAACGCTGACCATTAGAAACCTCTGCATAAGACGTTGTAAGGAGGAAAATAA
 TAGAGAGAAGAACACATAGATTTAAACAAGAACTACGAACCCAGCTCTGGAAAGAGCC
 ACCTTCTNCAATGGATATGTTTCTCTCACCTGGGATGTCTAGCCCTCTACTTTTCAGA
 CACCAGTGAGAGGCCACCAGACCACGTGCGGNAGTCGNTTGAATCC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003872 unedited NGACTTTTGTGGTTGTTTATCCAATTTTAACTTAAAAGGCTTTATACAAATCATATAAA CACAGTTTGACATTGTTGTTTATTTTTAACATTGAAGAATCACAGTAAAAGCTCTCAAG TTCCCCTGATCTGGCTCAGCCAGTGAATGGTGAATACCTCTAACTGCAAACCTGAAAA AGTTAACCTGCTATGTGACAGGTTAACTCTTCCCTTGTTTTCTGTGCATTATGCTTAT TCCTTGGACCCCTCATCCCTGTCAACTCCCCTGCCCCACCAAAGACAGAAAGCAACCCTGT GGCCCTGTTGACCACCTAGTCCGGGAGAGTGTGGAGGTAATGTGTCATTCAAGTACAAGGC AAAAAGGAGATCAATACTGGCAGTGGGGTTTCCCAAAGGAATGACTCAAGGAGATGGGT CAGCTAGCCTACCCACAGATAAAGATAAACAACACACCAAGGTGTCCCCTGGCCAAGTCA AAATTGGGCCAGCGTCTTCTTCTGTCTTACGACAGAGCAGCCTCCAGCCTTGGTGTG GTATCTACATGTAGCCCTCCGTACCCTGCTTCTTTTTAGCATTCAAGGCCACTCAGGGC CTCAAATTAGCCAATGGTGAATATGGATATAGGACTTTTAGAGGGATGCAGGTTGAGTTG TACATAACTTATAGGTGAAGTGAAGTCCGAAACAGGGCTAGACTTTGGAGAAGTGGTAA ATGGCTACTGAGCATGACAGCATCAGGGACCCCTGAGAGTGGCTTTCAAACCTTACCTT CCTTTTGAAGCTACCTTCTGGGAAAATCGCTAAGGACTTACCCAGCCTTCTGAACACT GTCGCATCATGGGTAGTGTGAAGAGGAAAAGGGCCCTAGTTAAATACTTGCTTCTACTGT GGGCCGCAACTCAGGAAGGAGCCCTATAACCTAATCCCTTGGGCC
Restriction Sites:	NotI-NotI
ACCN:	NM_003872
Insert Size:	6550 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).
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_003872.2 , NP_003863.2
RefSeq Size:	6656 bp
RefSeq ORF:	2781 bp
Locus ID:	8828
UniProt ID:	O60462
Cytogenetics:	2q33.3
Protein Families:	Druggable Genome, Transmembrane

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 (2), also known as NRP2a(17), lacks an alternate in-frame segment, compared to variant 1. This results in a shorter isoform (2), compared to isoform 1.