

Product datasheet for **SC330237**

Neuropilin 1 (NRP1) (NM_001244972) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuropilin 1 (NRP1) (NM_001244972) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRP1
Synonyms:	BDCA4; CD304; NP1; NRP; VEGF165R
Vector:	pCMV6-Entry (PS100001)



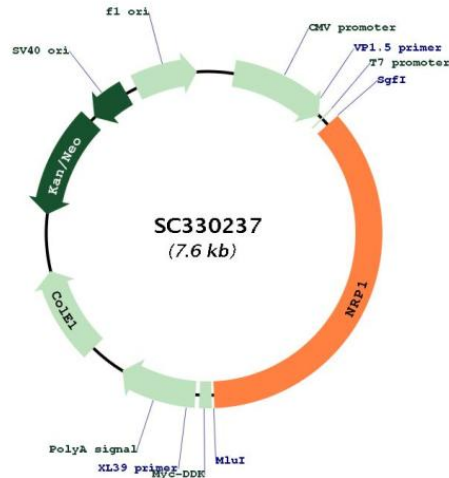
[View online »](#)

Fully Sequenced ORF: >SC330237 representing NM_001244972.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001244972

Insert Size: 2754 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:

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_001244972.1](#)

RefSeq Size: 5877 bp

RefSeq ORF: 2754 bp

Locus ID: 8829

Cytogenetics: 10p11.22

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Axon guidance

MW: 102.4 kDa

Gene Summary:

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]

Transcript Variant: This variant (4) uses two different splice sites in the coding region, compared to variant 1. The resulting protein (isoform d) is shorter when it is compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.