

Product datasheet for **RC233173**

Neuropilin 1 (NRP1) (NM_001244973) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuropilin 1 (NRP1) (NM_001244973) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neuropilin 1
Synonyms:	BDCA4; CD304; NP1; NRP; VEGF165R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC233173 representing NM_001244973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGGGGGCTGCCGCTCTGCGCCGTGCTCGCCCTCGTCTCGCCCCGGCCGGCGCTTTTCGCA
 ACGATAAATGTGGCGATACTATAAAAAATTGAAAGCCCCGGGTACCTTACATCTCCTGGTTATCCTCATTC
 TTATCACCCAAGTAAAAATGCGAATGGCTGATTAGGCTCCGGACCCATACCAGAGAATTATGATCAAC
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 ATGAAAAATGGACATTTTAGGGGAAAGTTCTGTGAAAGATAGCCCTCCTCCTGTTGTGCTTCAGGGCC
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 TTCAAGAGAGGTCTGAATGTTCCGAACTACACAACACCTAGTGGAGTGATAAAGTCCCCGGATTCC
 CTGAAAAATATCCCAACAGCCTTGAATGCACTTATATTGCTTTTGCGCCAAAGATGTCAGAGATTATCCT
 GGATTTGAAAGCTTTGACCTGGAGCCTGACTCAAATCCTCCAGGGGGGATGTTCTGTGCTACGACCGG
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 GTCGAATCCGATCCTCATCGGGCATTCTCTCCATGGTTTTTACACCGACAGCGGATAGCAAAAAGAAGG
 TTTCTCAGCAAATACAGTGTCTTGAGAGCAGTGTCTCAGAAGATTTCAAATGTATGGAAGCTCTGGGC
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 AGCGCTCCCGCTGAACCTACCCTGAGAAATGGGTGGACTCCCGGAGAGGATTCCTACCGAGAGTGGATA
 GGATAGACTTGGCCCTTCTGCGCTTTGTACGGCTGTGGGACACAGGGCGCCATTTCAAAGAAACCAAG
 AAGAAATATTATGTCAAGACTTACAAGATCGACGTTAGCTCCAACGGGGAAGACTGGATCACCATAAAAG
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 GAGGAGAAGATCGTGAGGGGCATCATCATTAGGGTGGGAAGCACCGAGAGAACAAGGTGTTTCATGAGGA
 AGTTCAAGATCGGTACAGCAACAACGGCTCGGACTGGAAGATGATCATGGATGACAGCAACGCAAGGC
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 GGCAACTGCCACAGTGGAAACAGGTGGCACCACTGTGCTGGCCACAGAAAAGCCACGGTATAGACAGC
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 TGCCCTGGAGAACTATAACTTTGAACTTGTGGATGGTGTGAAGTTGAAAAAGACAACTGAATACACAG
 AGTACTTATTCGGAGGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence: >RC233173 representing NM_001244973
 Red=Cloning site Green=Tags(s)

MERGLPLLCAVLALVLAPAGAFRNDKCGDTIKIESPGYL TSPGYPHSYHPSEKCEWLIQAPDPYQRIMIN
 FNPHFLEDRDCKYDYVEVFDGENENGFHFRGKFCGKIAPPPVSSGPFLEIKFVSDYETHGAGFSIRYEI
 FKRGPESQNYTTSPGVIKSPGFPEKYPNSELECTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDR
 LEIWDGFPDVGPHIGRYCGQKTPGRIRSSSGILSMVFYTDIAIAKEGFSANYSVLQSSVSEDFKCMALG
 MESGEIHSQDQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVTAVGTQGAISKETK
 KKYVVKTYKIDVSSNGEDWITIKEGNKPVLFQGNTNPTD VVAVFPKPLITRFVRIKPATWETGISMRFE
 VYGCKITDYPCSGMLGMVSLISDSQITSSNQGDRNWMPENIRLVTSRSGWALPPAPHSYINELWQIDLG
 EEKIVRGI IQGGKHRENKVFMRKFKIGYSNNGSDWKIMDDSKRKAKSFE GNNNYDTPELRTFPALSTR
 FIRIYPERATHGGLGRMELLGCEVEAPTAGPTTPNGNLVDECDQDQANCHSGTGGTTVLATEKPTVIDS
 TIQSEFPTYGFNCEFGWGSHTFCHWEHDNHVQLKWSVLT SKTGP IQDHTGDGNFIYSQADENQKGVAR
 LVSPVVYSQNSAHCMTFWYHMSGSHVGTLRVCLKRYQKPEEYDQLVWMAIGHQGDHWKEGRVLLHKSLKLY
 QVIFEGEIGKGNLGGIAVDDISINNHSQEDCAKPADL DKKNPEIKIDETGSTPGYEGEGEGDKNISRPK
 GNVLKTLDPILITIIAMSALGVLLGAVCGVLYCACWHNGMSERNLSALENYFELVDGVKLLKDKLNTQ
 STYSEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

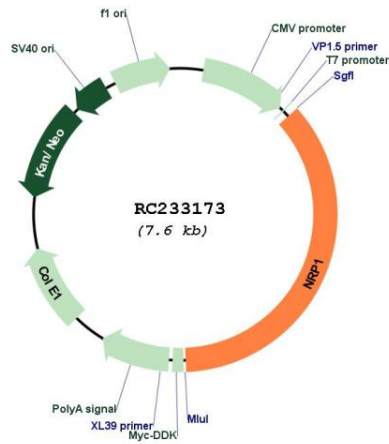


ACCN: NM_001244973

ORF Size: 2748 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001244973.1 , NP_001231902.1
RefSeq Size:	5874 bp
RefSeq ORF:	2751 bp
Locus ID:	8829
Cytogenetics:	10p11.22
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
MW:	102.8 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]

Product images:



Circular map for RC233173