

Product datasheet for **RG202952**

Neuropilin 1 (NRP1) (NM_001024629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Neuropilin 1 (NRP1) (NM_001024629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRP1
Synonyms:	BDCA4; CD304; NP1; NRP; VEGF165R
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202952 representing NM_001024629
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGAGGGGGCTGCCGCTCTGCGCCGTGCTCGCCCTCGTCTCGCCCCGGCCGGCGCTTTTCGCA
 ACGATAAATGTGGCGATACTATAAAAAATTGAAAGCCCCGGGTACCTTACATCTCCTGGTTATCCTCATT
 TTATCACCCAAGTAAAAATGCGAATGGCTGATTCAGGCTCCGGACCCATACCAGAGAATTATGATCAAC
 TTCAACCCTCACTTCGATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGCTTCGATGGAGAAA
 ATGAAAAATGGACATTTTAGGGGAAAGTTCTGTGAAAGATAGCCCTCCTCCTGTTGTGCTTCAGGGCC
 ATTTCTTTTTATCAAATTTGCTCTGACTACGAAACACATGGTGCAGGATTTCCATACGTTATGAAATT
 TTCAAGAGAGGTCCTGAATGTTCCAGAACTACACAACACCTAGTGGAGTGATAAAGTCCCCGGATTCC
 CTGAAAAATATCCCAACAGCCTTGAATGCACTTATATTGCTTTTGCCTAAAGATGTCAGAGATTATCCT
 GGATTTGAAAGCTTTGACCTGGAGCCTGACTCAAATCCTCCAGGGGGGATGTTCTGTCGCTACGACCGG
 CTAGAAATCTGGGATGGATCCCTGATGTTGGCCCTCACATTGGGCGTACTGTGGACAGAAAACACCAG
 GTCGAATCCGATCCTCATCGGGCATTCTCTCCATGGTTTTTACACCGACAGCGGATAGCAAAAGAAGG
 TTTCTCAGCAAACACAGTGTCTTGACAGCAGTGTCTCAGAAGATTTCAAATGTATGGAAGCTCTGGGC
 ATGGAATCAGGAGAAATTCATTCTGACCAGATCACAGTCTTCCAGTATAGCACCAACTGGTCTGCAG
 AGCGCTCCCGCCTGAACTACCCTGAGAAATGGGTGGACTCCCGGAGAGGATTCCTACCGAGAGTGGATA
 GGATAGACTTGGCCTTCTGCGCTTTGTACGGCTGTGGGACACAGGGCGCCATTTCAAAGAAACCAAG
 AAGAAATATTATGTCAAGACTTACAAGATCGACGTTAGCTCCAACGGGGAAGACTGGATCACCATAAAA
 AAGGAAACAACCTGTTCTTTTCAGGGAAACACCAACCCACAGATGTTGTGGTTGCAGTATTTCCCAA
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 GTATACGTTGCAAGATAACAGATTATCCTTGCTCTGGAATGTTGGGTATGGTGTCTGGACTTATTTCTG
 ACTCCCAGATCACATCATCCAACCAAGGGGACAGAAAAGTGGATGCCTGAAAACATCCGCCTGGTAACCAG
 TCGCTCTGGCTGGGCACTTCCACCCGCACCTCATTCTACATCAATGAGTGGCTCCAAATAGACCTGGGG
 GAGGAGAAGATCGTGAGGGGCATCATCATTAGGGTGGGAAGCACCGAGAGAACAAGGTGTTTCATGAGGA
 AGTTCAAGATCGGTACAGCAACAACGGCTCGGACTGGAAGATGATCATGGATGACAGCAACGCAAGGC
 GAAGTCTTTTGGGGCAACAACAACTATGATACACCTGAGCTGCGGACTTTTCCAGCTCTCTCCACGGGA
 TTCATCAGGATCTACCCGAGAGAGCCACTCATGGCGGACTGGGGCTCAGATGGAGCTGCTGGGCTGTG
 AAGTGGAAAGTGGCACCCTGTGCTGGCCACAGAAAAGCCACGGTTCATAGACAGCACCATAACAATCAGG
 TATCAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG202952 representing NM_001024629
 Red=Cloning site Green=Tags(s)

MERGLPLLCAVLALVLPAGAFRNDKCGDTIKIESPGYLTPGYPHSHYPSEKCEWLIQAPDPYQRIMIN
 FNPHFLEDRDCKYDYVEVFDGENENGFHFRGKFCGKIAPPPVSSGPFLEIKFVSDYETHGAGFSIRYEI
 FKRGPESQNYTTPSGVIKSPGFPEKYPNSLECTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDR
 LEIWDGFPDVGPHIGRYCGQKTPGRIRSSGILSMVFYTDIAIAKEGFSANYSVLQSSVSEDFKMEALG
 MESGEIHSQITASSQYSTNWSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFVAVGTQGAISKETK
 KKYVVKTYKIDVSSNGEDWITIKENKPVLFQGNTNPTDVVAVFPKPLITRFVRIKIPATWETGISMRF
 VYGCKITDYPCSGMLGMVSGLISDSQITSSNQGDNRNMPENIRLVTSRSGWALPPAPHSYINELQIDLG
 EEKIVRGIIIQGGKHRENKVFMRKFKIGYSNNGSDWKMIMDDSKRKAASFEGNNYDTPELRTPALSTR
 FIRIYPERATHGGLLRMELLGCEVEGGTTVLATEKPTVIDSTIQSGIK

TRTRPLE – GFP Tag – V

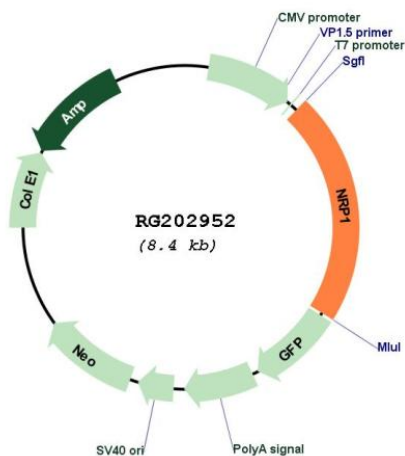
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024629

ORF Size: 1827 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_001024629.2 , NP_001019800.1
RefSeq Size:	2005 bp
RefSeq ORF:	1830 bp
Locus ID:	8829
UniProt ID:	O14786
Cytogenetics:	10p11.22
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
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]