

Product datasheet for **RC214608**

NRP2 (NM_201264) Human Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RC214608 representing NM_201264
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATGTTTCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTGAGAGGCCAAC
 CAGACCCACCGTGCAGGAGTCGTTTGAATTCCAAGATGCTGGCTATATCACCTCTCCCGTTACCCCA
 GGACTACCCCTCCACCAGAAGTGCAGTGGATTGTTTACGCCCCGAACCAACCAAGAAGATTGCCTC
 AACTTCAACCCTCACTTTGAAATCGAGAAGCAGACTGCAAGTATGACTTTATCGAGATTCGGGATGGG
 ACAGTGAATCCGCAGACCTCCTGGGCAAACTGTGGAAACATCGCCCCGCCACCATCATCTCCTCGGG
 CTCATGCTCTACATCAAGTTCACCTCCGACTACGCCCGCAGGGGGCAGGCTTCTCTGCGCTACGAG
 ATCTTCAAGACAGGCTCTGAAGATTGCTCAAAAACTTACAAGCCCCAACGGGACCATCGAATCTCCTG
 GTTTTCTGAGAAGTATCCACACAACCTGGACTGCACCTTACCATCCTGGCCAAACCAAGATGGAGAT
 CATCCTGCAGTTCCTGATCTTTGACCTGGAGCATGACCCTTTCAGGTGGGAGAGGGGGACTGCAAGTAC
 GATTGGCTGGACATCTGGGATGGCATTCCACATGTTGGCCCCCTGATTGGCAAGTACTGTGGACAAAA
 CACCCTCTGAAGTTCGTTTCATCGACGGGATCCTCTCCCTGACCTTTCACACGGACATGGCGGTGGCCAA
 GGATGGCTTCTCTGCGGTTACTACCTGGTCCACCAAGAGCCACTAGAGAAGTTTTCAGTGAATGTTCT
 CTGGGCATGGAGTCTGGCCGGATTGCTAATGAACAGATCAGTGCCTCATCTACCTACTCTGATGGGAGGT
 GGACCCCTCAACAAAGCCGGCTCCATGGTATGACAATGGCTGGACCCCAACTTGGATTCCAACAAGGA
 GTATCTCCAGTGGACCTGCGCTTTTTAACCATGCTCACGGCCATCGAACACAGGGAGCGATTTCCAGG
 GAAACACAGAATGGCTACTATGTCAAATCTACAAGCTGGAAGTCAGCACTAATGGAGAGGACTGGATGG
 TGTACCGCATGGCAAAAACCAAGGATTTTCAAGCCAACAACGATGCAACTGAGTGGTCTGAACAA
 GCTCCACGCTCCACTGCTGACAAGGTTTGTAGAATCCGCCCTCAGACCTGGCACTCAGGTATCGCCCTC
 CGGCTGGAGCTCTTCGGCTGCCGGTACAGATGCTCCCTGCTCCAACATGCTGGGGATGCTCTCAGGCC
 TCATTGCAGACTCCAGATCTCCGCTCTTCCACCCAGGAATACCTCTGGAGCCCCAGTGCAGCCCGCT
 GGTGAGCAGCCGCTCGGGCTGGTCCCTCGAATCCCTCAGGCCAGCCCGGTGAGGAGTGGCTTCAGGTA
 GATCTGGGAACACCAAGACAGTAAAGGTGTCATCATCCAGGGAGCCCGGGAGGAGACAGTATCACTG
 CTGTGGAAGCCAGAGCATTTGTGCGCAAGTCAAAGTCTCTACAGCCTAAACGGCAAGGACTGGGAATA
 CATTGAGACCCAGGACCCAGCAGCAAAAGGTAGGCTGTTCTTGAGGCCTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214608 representing NM_201264
 Red=Cloning site Green=Tags(s)

MDMFPLTWVFLALYFSRHQVRGQPDPPCGRLNSKDAGYITSPGYPDYPSHQNCEWIVYAPEPNQKIVL
 NFNPHFEIEKHDCKYDFIEIRDGSEADLLGKHCGNIAPPTIISSGSMYIKFTSDYARQGAGFSLRYE
 IFKTGSEDCSKNFTSPNGTIESPGFPEKYPHNLDCTFTILAKPKMEIILQFLIFDLEHDPLQVGECDKY
 DWLDIWDGIPHVGPLIGKYCGTKTPSELRSSTGILSLTFHTDMAVAKDGFSAARYLVHQEPLNFQCNVP
 LGMESGRIANEQISASSTYSDGRWTPQQSRLHGDDNGWTPNLDSNKEYLQVDLRFLTMLTAIATQGAISR
 ETQNGYYVKSYLEVSTNGEDWMVYRHGKNHKVFQANNDATEVVLNKLHAPLLTRFVRIRPQTHSGIAL
 RLELFGCRVTDAPCSNMLGMLSLIADSQISASSTQEYLWSPSAARLVSSRSGWFPRIQAQPGEEWLQV
 DLGTPKTVKGVIIQARGGDSITAVEARAFVRKFKVSYSLNGKDWIYIQDPRTQQPKVGCWRPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8067_a07.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_201264

ORF Size: 1665 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:

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](#), [NP_957716.1](#)

RefSeq Size: 2601 bp

RefSeq ORF: 1668 bp

Locus ID: 8828

UniProt ID: [O60462](#)

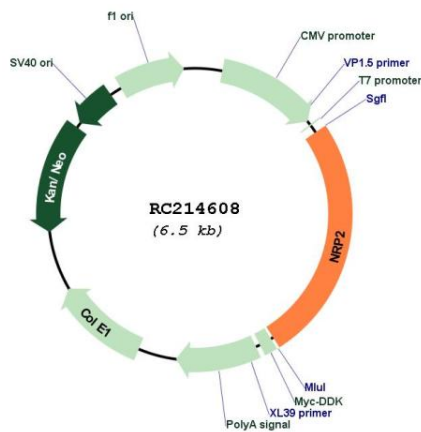
Cytogenetics: 2q33.3

Protein Families: Druggable Genome, Transmembrane

MW: 59.9 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]

Product images:



Circular map for RC214608