

Product datasheet for **RG220706**

NRP2 (NM_003872) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRP2 (NM_003872) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRP2
Synonyms:	NP2; NPN2; PRO2714; VEGF165R2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG220706 representing NM_003872
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATATGTTTCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTGAGAGGCCAAC
 CAGACCCACCGTGCAGAGTCTGTTGAATTCCAAAGATGCTGGCTATATCACCTCTCCCGTTACCCCA
 GGACTACCCCTCCACCAGAAGTGCAGTGGATTGTTTACGCCCCGAACCAACCAAGAAGATTGCCTC
 AACTTCAACCCTCACTTTGAAATCGAGAAGCAGACTGCAAGTATGACTTTATCGAGATTCGGGATGGG
 ACAGTGAATCCGCAGACCTCTGGGCAAACTGTGGAAACATCGCCCCGCCACCATCATCTCTCGGG
 CTCCATGCTCTACATCAAGTTCACCTCCGACTACGCCCGCAGGGGGCAGGCTTCTCTGCGCTACGAG
 ATCTTCAAGACAGGCTCTGAAGATTGCTCAAAAACTTACAAGCCCAACGGGACCATCGAATCTCCTG
 GGTTTCTGAGAAGTATCCACACAACCTGGACTGCACCTTACCATCCTGGCCAAACCAAGATGGAGAT
 CATCTGCAGTTCCTGATCTTTGACCTGGAGCATGACCCTTTCAGGTGGGAGAGGGGACTGCAAGTAC
 GATTGGCTGGACATCTGGGATGGCATTCCACATGTTGGCCCCCTGATTGGCAAGTACTGTGGACAAAA
 CACCCTCTGAAGTTCGTTTCATCGACGGGATCCTCTCCCTGACCTTTCACACGGACATGGCGGTGGCCAA
 GGATGGCTTCTCTGCGGTTACTACCTGGTCCACCAAGAGCCACTAGAGAAGTTTTCAGTGAATGTTCT
 CTGGGCATGGAGTCTGGCCGGATTGCTAATGAACAGATCAGTGCCTCATCTACCTACTCTGATGGGAGGT
 GGACCCCTCAACAAAGCCGGCTCCATGGTGTGACAATGGCTGGACCCCAACTTGGATTCCAACAAGGA
 GTATCTCCAGGTGGACCTGCGCTTTTTAACCATGCTCACGGCCATCGAACACAGGGAGCGATTTCCAGG
 GAAACACAGAATGGTACTACGTCAAATCTACAAGCTGGAAGTCAGACTAATGGAGAGGACTGGATGG
 TGTACCGCATGGCAAAAACACAAGGTTTGAAGTCAAGCAACAGTGAAGTGGTCTGAAACAA
 GCTCCACGCTCCACTGCTGACAAGGTTTGTAGAAATCCGCCCTCAGACCTGGCACTCAGGTATCGCCCTC
 CGGCTGGAGCTCTCGGCTGCCGGTACAGATGCTCCCTGCTCAACATGCTGGGGATGCTCTCAGGCC
 TCATTGCAGACTCCAGATCTCCGCTCTTCCACCCAGGAATACCTCTGGAGCCCAAGTGCAGCCCGCT
 GGTGAGCAGCCGCTCGGGCTGGTCCCTCGAATCCCTCAGGCCAGCCCGGTGAGGAGTGGCTTCAGGTA
 GATCTGGGAACACCAAGACAGTGAAGGTGTCATCATCCAGGGAGCCCGGAGGAGACAGTATCACTG
 CTGTGGAAGCCAGAGCATTGTGCGCAAGTCAAAGTCTCTACAGCCTAAACGGCAAGGACTGGGAATA
 CATTGAGGACCCAGGACCCAGCAGCCAAAGCTGTTGAAAGGAAACATGCACTATGACACCCCGGACATC
 CGAAGGTTTGACCCATTCCGGCACAGTATGTGCGGGTATACCCGGAGAGGTGGTCCGCCGGGGATTG
 GGATGCGGCTGGAGGTGCTGGGCTGTGACTGGACAGACTCCAAGCCACGGTAGAGACGCTGGGACCCAC
 TGTGAAGAGCGAAGAGACAACCACCCCTACCCACCGAAGAGGAGGCCACAGAGTGTGGGGAGAACTGC
 AGCTTTGAGGATGACAAAGATTTGCAGCTCCCTTCGGGATTCAATTGCAACTTCGATTTCTCGAGGAGC
 CCTGTGGTTGGATGTATGACCATGCCAAGTGGCTCCGGACCACCTGGGCCAGCAGCTCCAGCCAAACGA
 CCGGACGTTTCCAGATGACAGGAATTTCTTGGGCTGCAGAGTGCAGCCAGAGAGAGGGCCAGTATGCC
 CGGCTCATCAGCCCCCTGTCCACCTGCCCCGAAGCCCGGTGTGCATGGAGTCCAGTACCAGGCCACGG
 GCGGCCCGGGGTGGCGCTGCAGGTGGTGGGGAAGCCAGCCAGGAGAGCAAGTTGCTGTGGTTCATCCG
 TGAGACCAGGGCGGCGAGTGGAAAGCACGGGCGGATCATCTGCCAGCTACGACATGGAGTACCAGATT
 GTTTTCGAGGGAGTGATAGGGAAAAGGACGTTCCGGAGAGATTGCCATTGATGACATTGCGATAAGCACTG
 ATGTCCCACTGGAGAAGTGCATGGAACCATCTCGGCTTTTGCAGTGGACATCCCAGAAATACATGAGAG
 AGAAGGATATGAAGATGAAATTGATGATGAATACGAGGTGGACTGGAGCAATTCTTCTTCTGCAACCTCA
 GGGTCTGGCGCCCCCTCGACCGACAAAGAAAAGAGCTGGCTGTACACCCTGGATCCCATCTCATACCA
 TCATCGCCATGAGCTCACTGGGCGTCTCTGGGGCCACCTGTGCAGGCTCTGCTCTACTGCACCTG
 TTCCTACTCGGCCTGAGCTCCCGAAGCTGCACCACACTGGAGAAGTCAAACTTCGAGCTCTACGATGGC
 CTTAAGCACAAAGTCAAGATGAACCACCAAAAGTCTGCTCCGAGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220706 representing NM_003872
 Red=Cloning site Green=Tags(s)

MDMFPLTWVFLALYFSRHQVRGQDPDPPCGRLNSKDAGYITSPGYPDYPSHQNCEWIVYAPEPNQKIVL
 NFNPHFEIEKHDCKYDFIEIRDGSEADLLGKHCGNIAPPTIISSGSMLYIKFTSDYARQGAGFSRLRYE
 IFKTGSEDCSKNFTSPNGTIESPGFPEKYPHNLDCTFTILAKPKMEIILQFLIFDLEHDPLQVGECDCKY
 DWLDIWDGIPHVGPLIGKYCGTKTPSELRSSTGILSLTFHTDMAVAKDGF SARYYL VHQEPLNFQCNVP
 LGMESGRIANEQISASSTYSDGRWTPQQSRLHGDDNGWTPNLDSNKEYLQVDLRFMLTATQGAISR
 ETQNGYVYKSYKLEVSTNGEDWMVYRHGKNHKVFQANNDATEVVLNKLHAPLLTRFVRIRPQTWHSIAL
 RLELFGCRVTDAPCSNMLGMLSGLIADSQISASSTQEYLWSPAARLVSSRSGWFPRIPQAQPGEELQV
 DLGTPKTVKGVIIQGARGGDSITAVEARAFVRKFKVSYSLNGKDWEYIQDPRTPQPKLFEGNMHYDTPDI
 RRFDPIPAQYVRVYPERWSPAGIGMRLEVLGCDWTD SKPTVETLGPVKSEETTPYPTTEEEATECGENC
 SFEDDKDLQLPSGFNCNDFLEEPCGMYDHAKWLRTTWASSSPNDRTFPDDRNLRLQDSQREGQYA
 RLISPPVHLPRSPVCMFQYQATGGRGVALQVVREASQESKLLWVIREQGGGEWKHGRIILPSYDMEYQI
 VFEGVIGKGRSGEIAIDDIRISTDVPLENCMEPISAFVDIPEIHEREGYEDEIDDEYEVDWSNSSSATS
 GSGAPSTDKEKSWLYTLDPILITIIAMSSLGVLLGATCAGLLLYCTCSYGLSSRSCTTLENYNFELYDG
 LKHKVKMNHQKCCSEA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

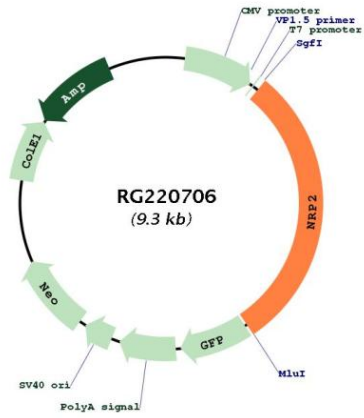
Cloning Scheme:



ACCN: NM_003872

ORF Size:	2778 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_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]

Product images:



Circular map for RG220706