

Specifications:

Gene:	mNrp2
Accession:	NP_001070871
Insert size:	2809bp
Concentration:	10µg at 0.2µg/µL

**mNeuropilin-2 cDNA
Plasmid**

Nrp2 neuropilin 2 [*Mus musculus* (house mouse)]

Also known as: Np2; Np-2; Npn2; Npn-2; 1110048P06Rik

Summary:

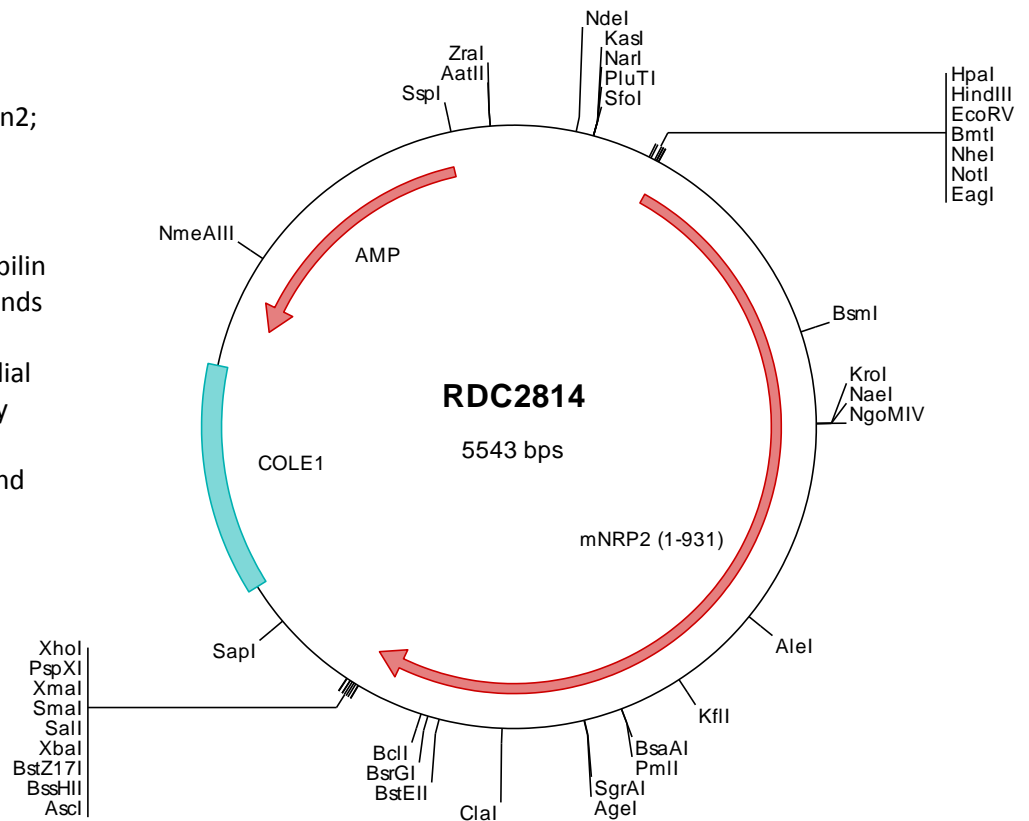
NRP2 is a member of the neuropilin family of receptor proteins. It binds to SEMA3C and SEMA3F and interacts with vascular endothelial growth factor (VEGF). NRP2 may play a role in cardiovascular development, axon guidance, and tumorigenesis.

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping Ships at ambient temperature
Stability 1 year from date of receipt when stored at -20°C to -80°C
Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC2814 Plasmid DNA Sequence

1 tcgcgcgcttt cgggtgatgac ggtgaaacc totgacacat gcagctccc gagacggtea cagcttgctt gtaagcggat gccggggagca gacaagcccg
101 tcagggcgccg tcagcggggtg ttggcggggtg tcggggctgg cttactatg cggcatcaga gcagattgta ctgagagtgcc accatagcgg gtgtgaaata
201 ccgcacacgat gcgtaagggag aaaataccgc atcagggccc attcgccatt caggctcgcg aactgttggg aagggcgatc ggtcggggcc tcttcgctat
301 tacgcccagct ggcgaaaggg ggatgtgctg caagggcatt aagttgggta acgcccaggtt ttccccagtc acgacggtgt aaaacgacgg ccagtgatatt
401 ggagacgctg taacaagcctt ggatccgata tcgctagcgc **ggccgccaacc atggatatgt ttccctttac ctgggttttc ttagctctgt acttttcagg**
501 **acacggaatg agaagccacg aagatccacc ctgcggagggt cggctgaatt ccaaagatgc tggtacatc acttccccag gctaccoccca ggactatccc**
601 **tcccaccaga actgtgagtg gattgtctac gcccccgaac ccaaccagaa gattgttctc aacttcaacc ctcactttga aatcgagaaa cacgactgca**
701 **agtatgactt caatgagtatt cgggtagggg acagtgagtc agctgacctc ctgggcaacc actgtgggaa catcgccccg cccaccatca tctctcagg**
801 **ctccggtgta tacatcaagt tcacctcaga ctacgccccg cagggggcag gtttctctct acgctatgag atcttcaaaa caggctctga agattgttcc**
901 **aagaacttta caagocccaa tgggaccatt ttgacctgga gcattgacct ctacaagtgg gggaaaggaga ctgtaaaat gactggctgg acatctggga**
1001 **ggatggagat catctacag ttccctgacct tgacctgga gcattgacct ctacaagtgg gggaaaggaga ctgtaaaat gactggctgg acatctggga**
1101 **tggcaattcca catgttgagc ctctgattgg caagtaactgt gggacgaaaa cacctccaa actccgctcg tcccagggga tctctctctt gaccttacc**
1201 **acggacatgg cagtggccaa ggaatggctc tcocgacgtt actatttgat ccaccaggag ccacctgaga attttcaagt caatgtctct ttgggaaatgg**
1301 **agctctggccg agtgtagctg gaaacagtcg gtgacctctc caccttctct cactttctct ctgggaggtt acagagccgg acagagctgg caatctggg**
1401 **ctggacacccc aatttggatt ccaacaagga gtatctccag gtggaactgc gcttctcaac catgtccaca gccattgcaa cacagggagc catttccagg**
1501 **gaaaccocaga aaggtacta cgtcaaatcg taacaagtgg aagtcagcac aaatgggtgaa gattggatgg tctaccggca tggcaaaaac cacaagatg**
1601 **tcgaagcgaa caatgtagcg accgtagtgg tgcataacaa gctccacatg gctccacatg ctaagtgtaa ctcggttcat caggatccgc ccacatctgg**
1701 **caattgcccct ccctggagc tctttggctg ccgggtcaca gatgcaacct gctccacatg ctctggggatg ctctcgggcc tcaattgtctg taccagatc**
1801 **tctgctctct ccacccgaga gtaacctggg agocccagtc ctgcccgcct ggttagtagc cgtctgtggg ggtttctctg gaacctcaa gcccgaccag**
1901 **gtgaagaatg gcttoaggtg gaacctgggg caocccaagc agtgaagggg gctcatatcc agggagcccg agggagagag agggagagac ccctggaagc**
2001 **cagggcgcttt gtagcgaagt tcaaatgtct ctacagccta aatggcaagg actgggaata tatccaggac cccaggactc agcagacaaa gctgtttgaa**
2101 **gggaacatgc actatgacac ccctgacatc ogaagttctg atcctgtctc agcgcagatg gtgggggtgt acccagagag gtggctgcga caggactcgc**
2201 **ggatgagctg agaggtgctg ggcctgtgact ggacagactc aaagcccaca gtggagacgc ttgggaccac cgtgaagagt cgtgaagact caacccata**
2301 **ttccatggat gaggatgcca ccgagtgtgg ggaanaatgc agctttgagg atgacaaga tttgcaactt ccttcaggat tcaactgcaa ccttgatatt**
2401 **ccggaagaga cctgtggtt ggtgtaacag cagtcocagt ccctcggag cgcctgtgat agcagcagtc aocccaatga accccaatct cttgtaga**
2501 **agaactctct gaaactcgag agtgatggcc gaocgagagg ccagtaacgc cggctcaatc gcccaccggg gcacctgcc cgaagccctg tgtgcatgga**
2601 **gttccagtag caagccatgg ccggccaacgg ggtggcaact caggtggttc ggggaagccag ccaggaaaag aaactccttt gggtcaatcc tgaggaccag**
2701 **ggcagcagtg ggaagcaggg ctgcaattatc ctgcccactg atgacatgga gtbacagatc gtgttcgagg gactgtagg gaagggaaga cccaggaaga**
2801 **tttcaatgta tgaactcagg atcagcactg atgtcccact ggagaactga atggaaccca tctcagcttt tgcaagtgag gattttaaag tggacatccc**
2901 **agaaaaccaat gggggagagg gctatgaa gaatgatgat gatgaaatga aaggagattg gagcaactct tcttctctca cctcaggggg ttgtgacccc**
3001 **tcactctgca aagaaaagag ctggctgtac aacctctgat ccaatctgat caccatcaatc cactgagctc cgctgggggt gagctctacg atggcctcaa**
3101 **cgggctctct cctttactgc acctgtctct attcgggtct gagttcgagg agctgcacca cactggagaa ctacaacttt gagctctacg atggcctcaa**
3201 **gcacaaggtc aagatcaatc atcagaagtg ctgctcggag gcataaaagg gcgccagatc actctagagt cgacaccggg ggaattcctc gacgcgctct**
3301 **ctctagcttg gcgtaactcat ggtcaatagct gtttctctgt gtttctctgt atccgctcac aattccacac aacatcacag ccggaagcat aaagtgtaaa**
3401 **gcctggggtg cctaataatgat gagctaactc acattaattg cgttgcgctc actgcccget ttccagctcg gaaacctgtc gtgccagctg cattaatgaa**
3501 **tcggccaacg ccgcggggaga ggccggtttgc gtaattggcg ctcttcctct tcctcgctca ctgactcgta gcgctcggtc gttcggctgc gccgagcggg**
3601 **atcagctcac tcaaaagcgg taatacggtt atccacgaaa tcaggggata acccagggaaa gaacatgtga gcaaaaaggc agcaaaaagg ccggaacctg**
3701 **aaaaaggccg cgttctgtgc gtttttccat aggtctccgc cccctgacga gcatcaciaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac**
3801 **tataaagata ccaagccggtt cccctctgaa gctcctctct gcgctctctc gcttcccac ccgcccctac cggatacctg tcccttcagg**
3901 **aagcgtggcg ctttctcaat ctgcaacgct taggtatctc atctcgtgtg agtctcgttg acacgactta tgcgcaact gcaagacagt atttggatc**
4001 **gaccgctcg ccttatccgg taactatcgt cttgagcca acccggtgag acacgactta tgcgcaact gcaagacagt atttggatc**
4101 **cgaggtatgt agggcgtgct acagagttct tgaagtgtg gcctaactac ggctacacta gaaggacagt atttggatc**
4201 **taccttcgga aaaagagctg gtatgctctg atccggcaaa caaaccacgc ctggtagcgg atcctcagctg ttgtttttt gtttgcgaag**
4301 **aaagatctc aagaagatcc tttgatcttt tctacggggt ctgacgctca gtggaacgaa aactcagctt aagggatatt ggtcatgaga tttcaaaaa**
4401 **ggatctcac ctatagctct ttaaaataaa aatgaagttt taaatcaatc taagtataat atgagtaaac ttggtctgac agttaccaat gcttaatcag**
4501 **tgaggcaact atctcagcga tctgtctatt tcgtctatcc atcagctcct cctccagatt atcagaata aaccagccag ccggaaggcc cgagccgaga**
4601 **cccagtgct caatgatacc gcgagacca cgtcaccgg ctccagatt atcagaata aaccagccag ccggaaggcc cgagccgaga agtggctctg**
4701 **caactttatc cgtccctcat cagctctatta attgttgccg ggaagctaga gtaagtatt gcgccagtaa tagtttgccg aactgttggg caattgtctc**
4801 **agggatcgtg gtgtcacgct ctgctgtttg tatggcttca ttcagctcgc atcocaacgc gttcccaacg gttacatgat gttacatgat gttcaaaaa**
4901 **gcggttagct ccttcggctc tccgatcgtt gtcagaagta agttggcccg agtgatata ctcatggtta tggcagcact gcataattct cttactgtca**
5001 **tgccatccgt aagatgcttt tctgtgactg gtgagtaact aaccaagtea tcttgagaat agtgatagc gcgaccagat tgcctctgcc cggcgtcaat**
5101 **acgggataat acccgcccac atagcagaac tttaaaagtg ctcatcattg gaaaacgcttc ttcggggcga aaactctcaa gbatcttacc gctgttgaga**
5201 **tccagttcga tgtaaccac tcgtgcaacc aactgatctt cagcatcttt tactttacc agcgttctg ggtgagcaaa aacagggaag caaaatgccc**
5301 **caaaaaaggg aataagggcg acacggaaa gttgaaatc catactctc ctttttcaat attattgaag catttatcag ggttattgtc tcatgagccg**
5401 **atacatattt gaatgtattt agaaaaataa acaaataggg tctccgcgca catttcccgg aaaaagtcca cctgacgtct aagaaacctat tattatcatg**
5501 **acattaacct ataaaaatag gcgtatcac aggcctcttc gtc**

> RDC2814 Translated Insert Sequence

1 mdmfpltwvf lalyfsghev rsqqdppcgg rlnskdagyi tspgypqdy shqncewiv apepnqkivl fnphfeiek hdckydfie rdgdsesadl
101 lgkhhcgniap ptiissgsvl yikfstdydr qgagfslrye ifktsedcs knftspngti espqgfpeky hndctftil akprmeilq fltfdlehdp
201 lqvgegdcky dwdldwqip hvqpligkyc gktpsklrs stgillsfth tdmavakdgf saryylihqe ppenfqcnvp lgmesgrian eqisasstfs
301 dgrzwtppqsr lhgddngwpt nldsnkeylg vdrfltmlt aiatggaisr etqkgyyvk yklevnstnge dwmvyrhgkn hkifqanna tevvlklhm
401 plltrfirir pqtwhlgial rlelfgcrvt dapesnmlgm lsqliadtqi sasstreylw spsaarlvs rsgwfrnpq aqpgewlvq dlgtpktvk
501 viiqgarggd sitavearaf vrkfkvsy sl ngkdweiyid prtqtklfe gnmhydtpdi rrfdpvpaqy vrvyperwsp agigmrlevl gcdwtkskpt
601 vetlpgtvks eettpppmd edatecgen c sfeddkdlql psgfncnfd f peetcgvwyd hakwlrstwi ssanpndrtf pdknflklq sdgrregqyy
701 rlispvphlp rspvcmeqy qamggghval qvvreasqes kllwiredq gsewkhgrii lpsydmeqyi vfevvgkgr sgeisididr istdvplenc
801 mepisafage dfkvdipeth ggegyedeid deyegdwsns sstsgagdp ssgkewswly tldpilitii amsslgvllg atcaglllyc tcsygs1ssr
901 scttlennyf elydg1khhv kinhqkccse a