

Product datasheet for **MR211197**

Nrp1 (NM_008737) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrp1 (NM_008737) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrp1
Synonyms:	C530029I03; NP-1; NPN-1; Npn1; Nrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>MR211197 representing NM_008737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGAGGGGGCTGCCGTTGCTGTGCGCCACGCTCGCCCTTGCCTCGCCCTGGCGGGCGCTTCCGCA
 GCGACAAATGTGGCGGGACCATAAAAAATCGAAAACCCAGGGTACCTCACATCTCCCGTTACCCTCATT
 TTACCATCCAAGTGAGAAGTGTGAATGGCTAATCCAAGCTCCGGAACCTACCAGAGAATCATGATCAAC
 TTCAACCCACATTTTCGATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTAATCGATGGGAGA
 ATGAAGGCGGCCCTGTGGGGAAGTTCTGTGGGAAGATTGCACCTTCTCTGTGGTGTCTTCAGGGCC
 CTTTCTTTTCATCAAATTTGCTCTGACTATGAGACACATGGGGCAGGGTTTTCCATCCGCTATGAAATC
 TTCAAGAGAGGGCCGAATGTTCTCAGAACTATACAGCACCTACTGGAGTGATAAAGTCCCTGGTTCC
 CTGAAAAATACCCCAACAGCTTGGAGTGCACCTACATCATTTTGACCAAAAGATGTCTGAGATAATCT
 GGAGTTTGAAGTTTTGACCTGGAGCAAGACTCGAATCCTCCCGAGGAATGTTCTGTGCTATGACCGG
 CTGGAGATCTGGGATGGATTCCCTGAAGTTGGCCCTCACATTGGGCGTTATTGTGGGCAGAAAACCTCTG
 GCCGGATCCGCTCCTCTCAGGCGTTCTATCCATGGTCTTTTACACTGACAGCGCAATAGCAAAAGAAGG
 TTTCTCAGCCAACTACAGTGTGCTACAGAGCAGCATCTCTGAAGATTTTAAAGTGTATGGAGGCTCTGGG
 ATGGAATCTGGAGAGATCCATTCTGATCAGATCACTGCATCTTCACAGTATGGTACCAACTGGTCTGTAG
 AGCGCTCCCGCTGAACTACCCTGAAAAATGGGTGGACTCCAGGAGAAGACTCCTACAAGGAGTGGATCCA
 GGTGGACTTGGCCCTCCTGCGATTCGTTACTGCTGTAGGGACACAGGGTCCATTTCCAAGGAAACCAAG
 AAGAAATATTATGTCAAGACTTACAGAGTAGACATCAGCTCCAACGGAGAGGACTGGATCTCCCTGAAAG
 AGGAAATAAAGCCATTATCTTTCAGGGAAACCAACCCACAGATGTTGTCTTAGGATTTTCCAA
 ACCACTGATAACTCGATTTGTCGGAATCAAACCTGTATCCTGGGAACTGGTATATCTATGAGATTTGAA
 GTTTATGGCTGCAAGATAACAGATTATCCTTGCTCTGGAATGTTGGGCATGGTGTCTGGACTTATTTGAG
 ACTCCAGATTACAGCATCCAATCAAGCCGACAGGAATTGGATGCCAGAAAAACATCCGCTCTGGTACCAG
 TCGTACCGGCTGGGCACTGCCACCCTCACCCACCCATACACCAATGAATGGCTCCAAGTGGACCTGGGA
 GATGAGAAGATAGTAAGAGGTGCATCATTAGGGTGGGAAGCACCGAGAAAAACAAGGTGTTTCATGAGGA
 AGTTCAAGATCGCTATAGTAACAATGGCTCTGACTGGAAAATCATGGATGACAGCAAGCGCAAGGC
 TAAGTCGTTCAAGGCAACAACAATATGACACACCTGAGCTTCGGACGTTTTACCTCTCTCCACAAGG
 TTCATCAGGATCTACCCTGAGAGAGCCACACACAGTGGGCTTGGGCTGAGGATGGAGCTACTGGGCTGTG
 AAGTGGAAAGCACCTACAGCTGGACCAACCAACCAATGGGAACCCAGTGGATGAGTGTGACGACGACCA
 GGCAACTGCCACAGTGGCACAGGTGATGACTTCCAGCTCACAGGAGGCACCACTGTCCTGGCCACAGAG
 AAGCAACCATTATAGACAGCACCATCCAATCAGAGTCCCGACATACGGTTTTAACTGCGAGTTTGGCT
 GGGGCTCTCACAAGACATTCTGCCACTGGGAGCATGACAGCCATGACAGCTCAGGTGGAGTGTGCTGAC
 CAGCAAGACAGGGCCGATTGAGGACCATACAGGAGATGGCAACTCATCTATTTCCAAAGCTGATGAAAA
 CAGAAAGGCAAAGTAGCCCGCTGGTGAACCTGTGGTCTATTTCCAGAGCTCTGCCACTGTATGACCT
 TCTGGTATCACATGTCCGGCTCTCATGTGGTACACTGAGGGTCAAACACTACGCTACCAGAAGCCAGAGGA
 ATATGATCAACTGGTCTGGATGGTGGTTGGGCACCAAGGAGACCCTGGAAAGAAGGACGTTCTTGCTG
 CACAAATCTCTGAAACTATATCAGGTTATTTTTGAAGGTGAAATCGGAAAAGGAAACCTTGGTGGAAATG
 CTGTGGATGATATCAGTATTAACAACCATATTTCTCAGGAAGACTGTGCAAAACCAACAGACCTAGATAA
 AAAGAACACAGAAATTAATTTGATGAAACAGGGAGCACTCCAGGATATGAAGGAGAAGGGGAAGGTGAC
 AAGAACATCTCCAGGAAGCCAGGCAATGTGCTTAAAGCCCTGGATCCCATCCTGATCACCATCATAGCCA
 TGAGTGCCTGGGAGTACTCCTGGGTGCAGTCTGTGGAGTTGTGCTGTACTGTGCTGTTGGCACAATGG
 GATGTCAGAAAGGAACCTATCTGCCCTGGAGAATAACTTTGAACTTGTGGATGGTGTAAAGTTGAAA
 AAAGATAAACTGAACCCACAGAGTAATTACTCAGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATTAAGTTTAA

Protein Sequence: >MR211197 representing NM_008737
 Red=Cloning site Green=Tags(s)

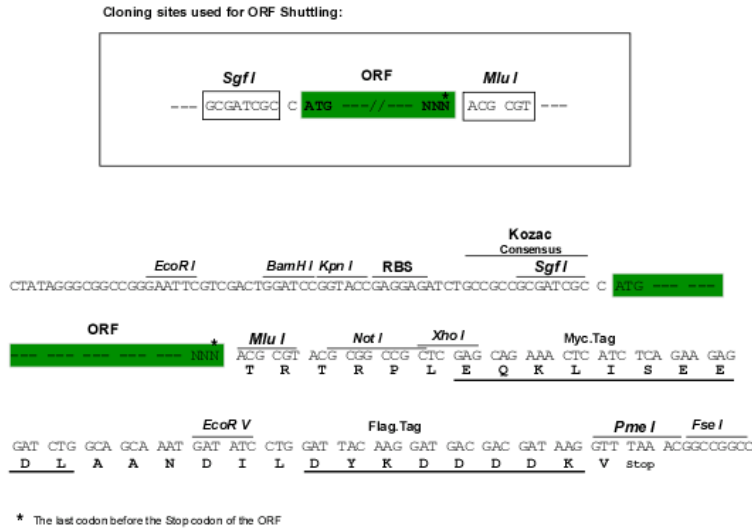
MERGLPLLCATLALALAGAFRSKCGGTIKIENPGYL TSPGYPHSYHPSEKCEWLIQAPEPYQRIMIN
 FNPHFLEDRDCKYDYVEVIDGENEGRLWGKFCGKIAPSPVVSSGPFLFIKFSVDYETHGAGFSIRYEI
 FKRGPESQNYTAPTGVIKSPGFPEKYPNSELECTYIIFAPKMSEIILEFESFDLEQDSNPPGGMFCRYDR
 LEIWDGFPEVGPPIHGRYCGQKTPGRIRSSSGVLSMVFYTDIAIAKEGFSANYSVLQSSISEDFKCMEALG
 MESGEIHSQDITASSQYGTNWSVERSRLNYPENGWTPGEDSYKEWIQVDLGLLRFVAVGTQGAISKETK
 KKYVVKTYRVDISSNGEDWISLKEGNKAIIFQGNTNPTDVVLGVFSKPLITRFVRIKPVSWETGISMRFE
 VYGCKITDYPCSGMLGMVSLISDSQITASNQADRNWMPENIRL VTSRTGWALPPSPHPYTNEWLQVDLG
 DEKIVRGVVIQGGKHRENKVFMRKFKIAYSNNGSDWKTIMDDSKRKAKSFEGNNDYDTPELRTFSPLSTR
 FIRIYPERATHSGLGRMELLGCEVEAPTAGPTTPNGNPVDEDDDQANCHSGTGDDFQLTGTTVLATE
 KPTIIDSTIQSEFPTYGFNCFEFGWGSHTFCHWEHDSHAQLRWSVLT SKTGPIQDHTGDGNFIYSQADEN
 QKQKVARLVSPVVYSQSSAHCMTFWYHMSGSHVGLRVKLRVYQKPEEYDQLVWMVVGHQGDHWKEGRVLL
 HKSLKLYQVIFEGEIGKGNLGGIAVDDISINNHISQEDCAKPTDLDKKNTEIKIDETGSTPGYEGEGEGD
 KNISRPKGNVLKTLDPILITIIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENYNFELVDGVKLL
 KDKLNPQSNYSEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

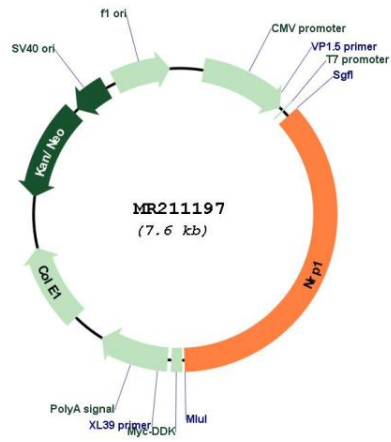


ACCN: NM_008737

ORF Size: 2769 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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_008737.2 , NP_032763.2
RefSeq Size:	5921 bp
RefSeq ORF:	2772 bp
Locus ID:	18186
UniProt ID:	P97333
Cytogenetics:	8 75.78 cM
MW:	103.5 kDa
Gene Summary:	Receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. Mediates the chemorepulsant activity of semaphorins. Binds to semaphorin 3A, the PLGF-2 isoform of PGF, the VEGF165 isoform of VEGFA and VEGFB. Coexpression with KDR results in increased VEGF165 binding to KDR as well as increased chemotaxis. Regulates VEGF-induced angiogenesis (By similarity). Binding to VEGFA initiates a signaling pathway needed for motor neuron axon guidance and cell body migration, including for the caudal migration of facial motor neurons from rhombomere 4 to rhombomere 6 during embryonic development (PubMed:26503042).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211197