

Product datasheet for **MG211197**

Nrp1 (NM_008737) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrp1 (NM_008737) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrp1
Synonyms:	C530029I03; NP-1; NPN-1; Npn1; Nrp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG211197 representing NM_008737
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGAGAGGGGGCTGCCGTTGCTGTGCGCCACGCTCGCCCTTGCCCTCGCCCTGGCGGGCGCTTCCGCA
 GCGACAAATGTGGCGGGACCATAAAAAATCGAAAACCCAGGGTACCTCACATCTCCCGTTACCCTCATT
 TTACCATCCAAGTGAGAAGTGTGAATGGCTAATCCAAGCTCCGGAACCTACCAGAGAATCATGATCAAC
 TTCAACCCACATTTTCGATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTAATCGATGGGAGA
 ATGAAGGCGGCCCTGTGGGGAAGTTCTGTGGGAAGATTGCACCTTCTCCTGTGGTGTCTTCAGGGCC
 CTTTCTTTTCATCAAATTTGCTCTGACTATGAGACACATGGGGCAGGGTTTTCCATCCGCTATGAAATC
 TTCAAGAGAGGGCCGAATGTTCTCAGAACTATACAGCACCTACTGGAGTGATAAAGTCCCTGGTTCC
 CTGAAAAATACCCCAACAGCTTGGAGTGCACCTACATCATCTTTGCACCAAGATGTCTGAGATAATCCT
 GGAGTTTGAAGTTTTGACCTGGAGCAAGACTCGAATCCTCCCGAGGAATGTTCTGTGCTATGACCGG
 CTGGAGATCTGGGATGGATTCCCTGAAGTTGGCCCTCACATTGGGCGTTATTGTGGGCAGAAAACCTCTG
 GCCGGATCCGCTCCTCTCAGGCGTTCTATCCATGGTCTTTTACACTGACAGCGCAATAGCAAAAGAAGG
 TTTCTCAGCCAACACAGTGTGCTACAGAGCAGCATCTCTGAAGATTTTAAAGTGTATGGAGGCTCTGGG
 ATGGAATCTGGAGAGATCCATTCTGATCAGATCACTGCATCTTCACAGTATGGTACCAACTGGTCTGTAG
 AGCGCTCCCGCTGAACTACCCTGAAAAATGGGTGGACTCCAGGAGAAGACTCCTACAAGGAGTGGATCCA
 GGTGGACTTGGGCTCCTGCGATTGTTACTGCTGTAGGGACACAGGGTCCATTTCCAAGGAAACCAAG
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 AGGAAATAAAGCCATTATCTTTACGGGAAACACCAACCCACAGATGTTGCTTAGGAGTTTTTCCAA
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 GTTTATGGCTGCAAGATAACAGATTATCCTTGCTCTGGAATGTTGGGCATGGTGTCTGGACTTATTTGAG
 ACTCCAGATTACAGCATCCAATCAAGCCGACAGGAATTGGATGCCAGAAAAACATCCGCTCTGGTACCAG
 TCGTACCGGCTGGGCACTGCCACCCTCACCCACCCATACACCAATGAATGGCTCCAAGTGGACCTGGGA
 GATGAGAAGATAGTAAGAGGTGTCATCATTAGGGTGGGAAGCACCGAGAAAAACAAGGTGTTTCATGAGGA
 AGTTCAAGATCGCTATAGTAACAATGGCTCTGACTGGAAAATCATGGATGACAGCAAGCGCAAGGC
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 TTCATCAGGATCTACCCTGAGAGAGCCACACACAGTGGGCTTGGGCTGAGGATGGAGCTACTGGGCTGTG
 AAGTGGAAAGCACCTACAGCTGGACCAACCAACCAATGGGAACCAAGTGGATGAGTGTGACGACGACCA
 GGCAACTGCCACAGTGGCACAGGTGATGACTTCCAGCTCACAGGAGGCACCACTGTCCTGGCCACAGAG
 AAGCAACCATTATAGACAGCACCATCCAATCAGAGTCCCGACATACGGTTTTAACTGCGAGTTTGGCT
 GGGGCTCTCACAAGACATTCTGCCACTGGGAGCATGACAGCCATGACAGCTCAGGTGGAGTGTGCTGAC
 CAGCAAGACAGGGCCGATTACAGGACCATACAGGAGATGGCAACTCATCTATCCCAAGCTGATGAAAAAT
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 TCTGGTATCACATGTCCGGCTCTCATGTGGTACACTGAGGGTCAAACACGCTACCAGAAGCCAGAGGA
 ATATGATCAACTGGTCTGGATGGTGGTTGGGCACCAAGGAGACCCTGGAAAGAAGGACGCTGTCTTGCTG
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 CTGTGGATGATATCAGTATTAACAACCATATTTCTCAGGAAGACTGTGCAAAACCAACAGACCTAGATAA
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 AAGAACATCTCCAGGAAGCCAGGCAATGTGCTTAAGACCCTGGATCCCATCCTGATCACCATCATAGCCA
 TGAGTGCCTGGGAGTACTCCTGGGTGACGTCTGTGGAGTTGTGCTGTACTGTGCTGTTGGCACAATGG
 GATGTCAGAAAGGAACCTATCTGCCCTGGAGAATAAATTTGAACTTGTGGATGGTGTAAAGTTGAAA
 AAAGATAAAGTGAACCCACAGAGTAATTAAGTACTCAGAGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211197 representing NM_008737
 Red=Cloning site Green=Tags(s)

MERGLPLLCATLALALAGAFRSKCGGTIKIENPGYL TSPGYPHSYHPSEKCEWLIQAPEPYQRIMIN
 FNPHFLEDRDCKYDYVEVIDGENEGRLWGKFCGKIAPSPVVSSGPFLFIKFVSDYETHGAGFSIRYEI
 FKRGPECSQNYTAPTGVIKSPGFPEKYPNSLECTYIIFAPKMSEIILEFESFDLEQDSNPPGGMFCRYDR
 LEIWDGFPEVGPPIGRYCGQKTPGRIRSSGVL SMVFYTD SAI AKEGFSANYSVLQSSISED FKMEALG
 MESGEIHSDQITASSQYGTNWSVERSRLNYPENGWTPGEDSYKEWIQVDLGLLRFVTAVGTQGAISKETK
 KKYVVKTYRVDISSNGEDWISLKEGNKAIIFQGNTNPTDVVLGVFSKPLITRFVRIKPVSWETGISMRFE
 VYGCKITDYPCSGMLGMVSLISDSQITASNQADRNWMPENIRL VTSRTGWALPPSPHPYTNELQVDLG
 DEKIVRGVIIQGGKHRENKVFMRKFKIAYSNNGSDWKTIMDDSKRKAKSFEGNNDYDTPELRTFSPLSTR
 FIRIYPERATHSGLGRMELLGCEVEAPTAGPTTPNGNPVDECDQDQANCHSGTGDDFQLTGTTVLATE
 KPTIIDSTIQSEFPTYGFNCFGWGSHKTFCHWEHDSHAQLRWSVLT SKTGPIQDHTGDGNFIYSQADEN
 QKQKVARLVSPVVYSQSSAHCMTFWYHMSGSHVGLRVLKRYQKPEEYDQLVWMVVGHQGDHWKEGRVLL
 HKSLKLYQVIFEGEIGKGNLGGIAVDDISINNHISQEDCAKPTDLDKNTEIKIDETGSTPGYEGEGEGD
 KNISRPKGNVLKTLDPILITIIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENYNFELVDGVKLL
 KDKLNPQSNYSEA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

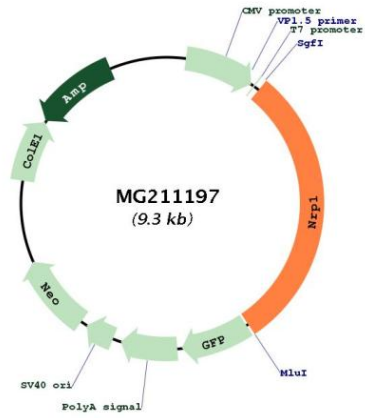
Cloning Scheme:



ACCN: NM_008737

ORF Size:	2769 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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
Gene Summary:	<p>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]</p>

Product images:



Circular map for MG211197