

Product datasheet for MR205398

Nov (NM_010930) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nov (NM_010930) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nov
Synonyms:	C130088N23Rik; CCN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205398 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAGCCTCTTCTCGCAAAGCGATGCCTCTGCCTAGGCTTCTGCTCTTCCATCTCTTAAGTCAAGTCTCTGCATCTCTGCGCTGCCCTTCTCGGTGCCACCCAAGTCCCCAGTATATCACCGACCTGCGCCCCGGGGTGGCTCGGTGCTGGACGGCTGCTCCTGCTGTCCGGTGTGCGCCGCCAGCGCGGGGAGAGTTGTTCTGAGATGAGACCCTGTGACCAGAGCAGTGGTCTCTACTGTGACCGCAGCGCAGACCCCAACAACCAGACTGCATTTGCATGGTCCAGAGGGAGACAAGTGTGTTCGATGGGGTCATTTACCGCAACGGAGAGAAGTTGAGCCGAAGTGTGAGTACTTCTGCACCTGCAGAGATGGGCAGATTGGCTGTCTGCCCCGCTGCCAGCTAGCCTGCTACTGCCGGTCTGACTGCCAGCTCCGAGAAAAGTCGCAAGTCCAGGGGAGTGTGCGAAAAGTGGACCTGTGGCTCAGACGAGCAGGGGACGCAGGGGACGCTGGGAGGCTTGGCCCTTCCAGCCTATAGACCGGAAGCCACCGTAGGAGTTGAAGTCTGACTCCAGCATTAACTGCATTGAGCAGACGACGGAGTGGAGCGCATGTTCCAAGAGCTGTGGAATGGGCGTGTCCACCCGGGTCAACACAGGAATCGCCAGTGTGAGATGGTAAAAACAGACTCGTCTCTGCATCGTTCGGCCTTGTGAACAAGAGCCCGAGGAAGTAAACAGACAAGAAAGGTAAAAAGTGTCTCCGCACCAAGAAGTCCCTGAAAGCCATCCACCTACAGTTTCGAGAATTGCCTAGCTGTACACCTATAAGCCCGGTTCTGTGGGGTCTGCAGTGTGGCCGCTGCTGTACCCCCACAACACCAAAACCATCCAGGTGGAGTTTCAGTGTCTCCCGGGGAAAATCATCAAGAAACCAGTATGGTTCATTGGAACTGTACTGCTACTCCAAGTCCCTCAGAACAAATGAGGCCTTCTCCAAGATCTGGAGCTGAAGACAAGAGAGGAGAAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205398 protein sequence
 Red=Cloning site Green=Tags(s)

MSLFLRKRCLCLGFLLFHLLSQVSASLRCPSPKPKPSISPTCAPGVRSVLDGCSCCPVCARQGESCS
 EMRPCDQSSGLYCDRSADPNNQTGICMVPEGDNCVFDGVIYRNGEKFEPNCQYFCTCRDGGQIGCLPRCQL
 DVLLPGPDCPAPRKVAVPGECCCKWTGSDGDEQGTQGTGGLALPAYRPEATVGVESDSSINCIEQTTEW
 SACSKSCGMGVSTRVTNRNRQCEMVKQTRL CIVRPCEQEPEEVDKKGKKCLRTKKSLKAIHLQFENCTS
 LYTYKPRFCGVCSDRCCPTHNTKTIQVEFQCLPGEI IKKPVVIGTCTCYSNCPQNNEAFLQDLELKTS
 RGEI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_010930

ORF Size: 1065 bp

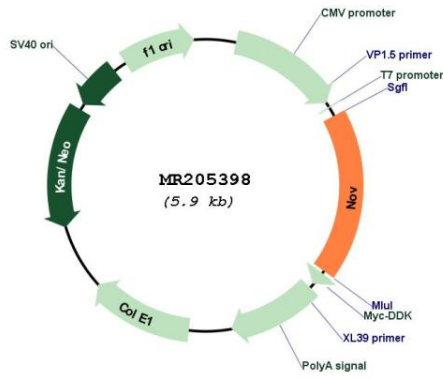
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_010930.1 , NM_010930.2 , NM_010930.3 , NM_010930.4 , NP_035060.1
RefSeq Size:	2366 bp
RefSeq ORF:	1065 bp
Locus ID:	18133
UniProt ID:	Q64299
Cytogenetics:	15 21.49 cM
MW:	38.9 kDa
Gene Summary:	<p>Immediate-early protein playing a role in various cellular processes including proliferation, adhesion, migration, differentiation and survival. Acts by binding to integrins or membrane receptors such as NOTCH1. Essential regulator of hematopoietic stem and progenitor cell function. Inhibits myogenic differentiation through the activation of Notch-signaling pathway. Inhibits vascular smooth muscle cells proliferation by increasing expression of cell-cycle regulators such as CDKN2B or CDKN1A independently of TGFB1 signaling. Ligand of integrins ITGAV:ITGB3 and ITGA5:ITGB1, acts directly upon endothelial cells to stimulate pro-angiogenic activities and induces angiogenesis. In endothelial cells, supports cell adhesion, induces directed cell migration (chemotaxis) and promotes cell survival. Plays also a role in cutaneous wound healing acting as integrin receptor ligand. Supports skin fibroblast adhesion through ITGA5:ITGB1 and ITGA6:ITGB1 and induces fibroblast chemotaxis through ITGAV:ITGB5. Seems to enhance bFGF-induced DNA synthesis in fibroblasts (By similarity). Involved in bone regeneration as a negative regulator (PubMed:23653360). Enhances the articular chondrocytic phenotype, whereas it repressed the one representing endochondral ossification (By similarity). Impairs pancreatic beta-cell function, inhibits beta-cell proliferation and insulin secretion (PubMed:23705021). Plays a role as negative regulator of endothelial pro-inflammatory activation reducing monocyte adhesion, its anti-inflammatory effects occur secondary to the inhibition of NF-kappaB signaling pathway (By similarity). Contributes to the control and coordination of inflammatory processes in atherosclerosis (PubMed:24722330). Attenuates inflammatory pain through regulation of IL1B- and TNF-induced MMP9, MMP2 and CCL2 expression. Inhibits MMP9 expression through ITGB1 engagement (By similarity). [UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for MR205398