

Product datasheet for **MC200106**

Nov (NM_010930) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nov (NM_010930) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nov
Synonyms:	C130088N23Rik; CCN3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003774 sequence for NM_010930
 GTGAAGGGGCAGTCCCATCTCCAGCCTGTAACAGCCCTAGCAGGCAGAACATGAGCCTCTTCTCGCGAAA
 GCGATGCCTCTGCCTAGGCTTCCCTGCTCTTCCATCTCTTAAGTCAAGTCTCTGCATCTCTGCGCTGCCCT
 TCTCGGTGCCACCCAAGTGCCCAAGTATATCACCGACCTGCGCCCCGGGGTGCCTCGGTGCTGGACG
 GCTGCTCTGTGTCCGGTGTGCGCCGCCAGCGCGGGGAGAGTTGTTCTGAGATGAGACCCTGTGACCA
 GAGCAGTGGTCTCTACTGTGACCGCAGCGCAGACCCCAACAACCAGACTGGCATTGTCATGGTCCAGAG
 GGAGACAACCTGTGTTCGATGGGGTCATTTACCGCCAACGGAGAGAAGTTTGAGCCGAACCTGCAGTACT
 TCTGCACCTGCAGAGATGGGCAGATTGGCTGTCTGCCCCGCTGCCAGCTAGACGTGCTACTGCCGGGTCC
 TGAAGTCTCTGACTCCAGCATTAACTGCATTGAGCAGACGACGGAGTGGAGCGCATGTTCCAAGAGCTG
 TGAATGGGCGTGTCCACCCGGTCAACAACAGGAATCGCCAGTGTGAGATGGTAAAAACAGACTCGTCTC
 TGCATCGTTCCGCTTGTGAACAAGAGCCCGAGGAAGTAAACAGACAAGAAAGTAAAAAGTCTCCGCA
 CCAAGAAGTCCCTGAAAGCCATCCACCTACAGTTCGAGAATTGCACTAGCTTGTACACCTATAAGCCCCG
 GTTCTGTGGGGTCTGCAGTGTGCGCGTGTGTACCCCCACAACACCAAAACCATCCAGTGGAGTTT
 CAGTGTCTCCCGGGGAAATCATCAAGAAACCAGTCATGGTCATTGGAACCTGTACTGCTACTCCAAC
 GCCCTCAGAACAATGAGGCCTTCTCCAAGATCTGGAGCTGAAGACAAGCAGAGGAGAAATTTAACAGGT
 GCTCAGGGAAGCATATTGGTTGAGGCAATGGTTGCTGCGGCATGGCCCACCATCTGTATATAGGAAACA
 TAATGAAGTTGTCCCACATATGTTGCTGTGATCATATGAGGCCATTTATATTTGCTTTTTTTTTTAAAT
 GAAAGATGTTCCGAATGTAACTTAGAATCAAGGTAAGCTCAGGATATGGCTTAAAGGTGACTTCCCTTC
 CTGTGCTGTTTATTACAAGAGCAAATTTATATAAATTTAAGTACATAAATGATCTAGTTAGTAGAATGT
 GTCACATCACATTCATTTTCTGTGCACTAGTTAAATCCCAATAAATGTTACAGAAATGATTGACACAGTG
 AAATCTAAGATCATGTTGAATATATATATATAAATACCAAGTTGACTTGAGGGATCTCTACTGAGTTC
 CTGTTGGGGTAGGTCAACTTGTGCTTCCAAGTGAAGATCAAAGAAAACATACATCTCTTGAACATGAA
 GTTCAGAGACTGATTTTCTACTTGTGACCCAGGAAATGCTATAGTTACAGCAGTAGAGTGTCTCTTA
 ATTACGTGGGCTAGTGTGATGAACCTTCTCCATTATAGACAAACCGACTCCTTTCCAATAGAAAAGAGCT
 GAACCAAAAACCTCCAATGCAGAGATGACGGGGCCTCTCAGTCTATGGTTGTACCCAGAGGCTGCTGA
 GGCCCACTTTTTCAAATTAACAGGGACTCTTTCATAGTTAAAGTACACTGAAGACCAAGCCACCTAAT
 TTACAATCTGTGATGATTTTCAAATGTGCTTTTGTGCAATTTTAAAAGGAAGAGCAGAATCTACAAAA
 TTTTATGAAAGTTTAAAGTAGCTGAAGACCTGCTCAAAAATACATCTTTTGGTCATAGTTATGAAAACACA
 AGTTATACATGTGACCTATGTATGCTTAATAACAAAGTTCACAAAATGTGCTAGAAAAACAATTTGT
 ACATCACCATACACATCCCACTTTTCTTTTAAAGTATTTATGAAAATATAAATTATACATTTTGTAAAA
 TATTCTCTTAATTTCCCTAGTTGTTACAACAACCTTTTAAAAAGTATGATGTTATCAGTGAGTGACTCT
 GGTATTAGTTTTGTGTTATCAGTTAATGCTGTTTACTGAAAATAAAAATCCATGAATTAATAAAAAAAAAA AAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010930

Insert Size: 1065 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:

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: [BC003774](#), [AAH03774](#)

RefSeq Size: 2314 bp

RefSeq ORF: 1065 bp

Locus ID: 18133

UniProt ID: [Q64299](#)

Cytogenetics: 15 21.49 cM

Gene Summary: 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]