

Product datasheet for **MR217230**

Notum (NM_175263) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Notum (NM_175263) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Notum
Synonyms:	5730593N15Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217230 representing NM_175263
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGGAGAGGTGCGCGTGTCTACTGCTGGCCCTGTGCATTGGGTTGGGGCAGCGAGGGCAGGA
 AGACCTGGAGGCCCGTGGCCAGCAGCCACCCAGCCGCGCCCGCCGCTCCCGCAGCGGGCTGA
 GGTGGAGCCGGCGCCGGCAGCCGGTGGAGAGCTTCCCGCTGGACTTACCGCAGTGGAGGGCAACATG
 GACAGCTTTATGGCGCAAGTCAAGAGCCTGGCACAGTCCCTGTATCCCTGCTCTGCGCAGCAGCTCAATG
 AGGACCTGCGCCTTACCTCCTGCTGAACACGTCGGTGACCTGCAATGACGGCAGCCCCGCGGCTACTA
 TTTGAAGGAGTCCAAGGGCAGTCGGCGGTGTTACTCTTTCTGGAAGGCGGCTGGTATTGCTTCAACCGG
 GAGAACTGTGATTCCAGATACAGCACCATGCGGCGCTCATGAGCTCAAAGACTGGCCACACACACGCA
 CAGGTAAGTGTATTCTATCCTCCAGCCAGAGGAGAACCCCACTGGTGGAAATGCCAATATGGTCTTCAT
 CCCTTACTGCTCCAGTGACGTTTGGAGTGGGGTTCACCCAAGTCTGACAAGAATGAATATGCCTTCATG
 GGCTCCCTCATATCCAGGAGTGGTACGGGAGCTCCTGGGCAAAGGGCTGAGCGGGGCAAAGGTGCTGC
 TGTGGCCGGGAGCAGCGCTGGGGCACCGGGTGTGTTGAATGTAGACCGCGTGGCTGAGCTGCTGGA
 GGAGTTGGGCTACCCGTCTATCCAGGTGCGGGGCTGGCTGACTCAGGCTGGTTCCTGGACAACAAGCAG
 TACCGGCATCAGACTGCATTGATACTATCAACTGTGCACCCACAGACGCCATCCGCCGTGGCATCAGGT
 ACTGGAGTGGGATGGTCCCAGAGCGTTGCCAGCGCCAGTCAAGGAAGGAGAGGAATGGAATTGCTTCTT
 TGGCTACAAAGTATATCCGACTCTGCGCTGTCCGGTGTTCGTGGTACAGTGGCTTTTCGATGAGGCCAG
 CTTACCGTGGATAACGTGCATCTCACCGACAGCCGGTTCAGGAAGGCCAGTGGCTATACATCCAGAATC
 TGGGCCGAGAAGTGGTGGTACACTCAAGGATGTGCAGGCCAGCTTTGCCCGCCCTGCCTGTCTCATGA
 GATCATACATACGGAGCTATTGGACGGACGTCAGGTGAAGGGGACCTCACTGCCACAGGGCACTGCACTGC
 TGGACCGGAGCTTCCATGACAGCCATAAGGCCAGCAAAACCCCATGAAGGGCTGCCCTTTCACCTGG
 TAGACAGCTGCCCTGGCCCACTGCAATCCCTCATGCCCTACCATCCGGGACCAGTTACAGGGCAAGA
 GATGAACGTGGCACAGTTCCTTATGCATATGGGCTTCGATGTGCAGACGGTGGCTCAGCAGCAGGGGATG
 GAGCCAGCAAGCTGCTAGGGATGCTGAGTAATGGGAAC

**ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>MR217230 representing NM_175263
 Red=Cloning site Green=Tags(s)

MGGEVRVLLLLGLLHWVGGSEGRKTWRRRGQPPQPPPPPLPQRAEVEPGAGQPVESFPLDFTAVEGNM
 DSFMAQVKSLAQSLYPCSAQQLNEDLRHLHLLNTSVTCNDGSPAGYYLKESKGSRRWLLFLEGGWYCFNR
 ENCDSRYSTMRRMLMSSKDWPHTRTGTGILSSQPEENPHWWANMVFIPYCSSDVWSGASPKSDKNEYAFM
 GSLIIQEVVRELLGKLSGAKVLLLAGSSAGGTGVLNVDRVAELLEELGYPSIQVRGLADSGWFLDNKQ
 YRRSDCIDTINCAPTDAIRRGIRYWSGMVPERCQRQFKEGEEWNCFFGYKYVPTLRCPVFVQWLFDEAQ
 LTVDNVHLTGQPVQEGQWLYIQNLGRELRTLKDQVQASFAPAELSHEIIIRSYWTDVQVKGTSLPRALHC
 WDRSFHDSHKASKTPMKGCPFHLVDSCPWPHCNPSCTIRDQFTGQEMNVAQFLMHMGFDVQVAQQQGM
 EPSKLLGMLSNGN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_175263

ORF Size: 1509 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).

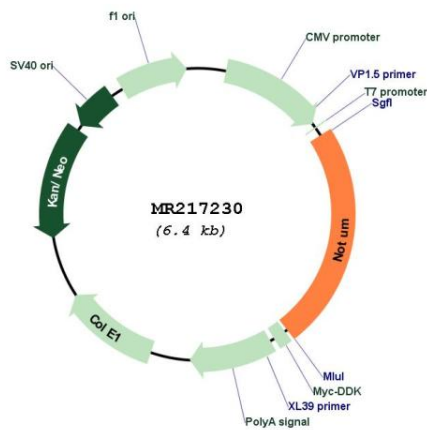
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_175263.4](#), [NP_780472.3](#)

RefSeq Size: 2020 bp
 RefSeq ORF: 1512 bp
 Locus ID: 77583
 UniProt ID: [Q8R116](#)
 Cytogenetics: 11 E2
 MW: 56.6 kDa

Gene Summary: Carboxylesterase that acts as a key negative regulator of the Wnt signaling pathway by specifically mediating depalmitoleoylation of WNT proteins. Serine palmitoleoylation of WNT proteins is required for efficient binding to frizzled receptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217230