

Product datasheet for **RC206463**

CD177 (NM_020406) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CD177 (NM_020406) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CD177
Synonyms:	HNA-2a; HNA2A; NB1; NB1 GP; PRV-1; PRV1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC206463 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCCGGTATTACTGCTGGCCCTCCTGGGGTTCATCCTCCCACTGCCAGGAGTGCAGGCGCTGCTCT
GCCAGTTTGGGACAGTTCAGCATGTGTGAAGGTGTCCGACCTGCCCGCAATGGACCCCTAAGAACAC
CAGCTGCGACAGCGGCTTGGGGTGCCAGGACACGTTGATGCTCATTGAGAGCGGACCCCAAGTGAGCCTG
GTGCTCTCCAAGGGCTGCACGGAGGCCAAGGACCAGGAGCCCGCGTCACTGAGCACCAGGATGGGCCCCG
GCCTCTCCCTGATCTCTACACCTTCGTGTGCCGCCAGGAGGACTTCTGCAACAACCTCGTTAACTCCCT
CCCCTTTGGGCCACAGCCCCAGCAGACCCAGGATCCTTGAGGTGCCAGTCTGCTTGTCTATGGAA
GGCTGTCTGGAGGGGACAACAGAAGAGATCTGCCCAAGGGGACCACACTGTTATGATGGCCTCTCA
GGCTCAGGGGAGGAGGCATCTTCCAATCTGAGAGTCCAGGGATGCATGCCACAGCAGTTGCAACCT
GCTCAATGGGACACAGGAAATTTGGGCCGTGGGTATGACTGAGAAGTGAATAGGAAAGATTTTCTGACC
TGTGCATCGGGGGACCACATTATGACACACGGAACCTTGCTCAAGAACCCTGATTGGACCACATCGA
ATACCGAGATGTGCGAGGTGGGGCAGGTGTGTCAGGAGACGCTGCTGCTCCTAGATGTAGGACTCACATC
AACCTGGTGGGGACAAAAGGCTGCAGCACTGTTGGGGCTCAAAATCCCAGAAGACCACCATCCACTCA
GCCCTCCTGGGGTGCTTGTGGCCTCCTATACCACTTCTGCTCCTCGGACCTGTGCAATAGTGCCAGCA
GCAGCAGCCTTCTGCTGAACTCCCTCCCTCCTCAAGCTGCCCTGTCCCAGGAGACCGGCAGTGTCTAC
CTGTGTGCAGCCCTTGGAACTGTTCAAGTGGCTCCCCCGAATGACCTGCCACAGGGGACCACACTCAT
TGTTATGATGGGTACATTCACTCTCAGGAGGTGGGCTGTCCACAAAATGAGCATTGAGGGCTGCGTGG
CCCAACCTCCAGCTTCTTGTGAACACACAGACAAAATCGGGATCTTCTGCGCGTGAGAAGCGTGA
TGTGCAGCCTCCTGCCTCTCAGCATGAGGGAGGTGGGGCTGAGGGCCTGGAGTCTCTCACTTGGGGGTG
GGGCTGGCACTGGCCCCAGCGCTGTGGTGGGGAGTGGTTTGCCTTCTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206463 protein sequence
Red=Cloning site Green=Tags(s)

MSPVLLLALLGFILPLPGVQALLCQFGTVQHVWVSDLPQWTPKNTSCDSGLGCQDTLMLIESGPQVSL
VLSKGCTEAKDQEPRVTEHRMGPLSLISYTFVCRQEDFCNNLVNSLPLWAPQPPADPGSLRCPVCLSM
GCLGTTTEEICPKGTTTHCYDGLRLRGGGIFSNLRVQGCMPQPGCNLLNGTQEIGPVGMTENCNRKDFLT
CHRGTTIMTHGNLAQEPTDWTTSNTEMCEVGVQVQETLLLLDVGLTSTLVGTKGCSTVGAQNSQKTTIHS
APPGVLVASYTHFCSSDLNCSASSSVLLNSLPPQAAPVPGDRQCPTCVQPLGTCSSGSPRMTCPRGTTT
CYDGYIHLSSGGLSTKMSIQGCVAQPSFLLNHTRQIGIFSAREKRDVQPPASQHEGGGAEGLESWTGW
GLALAPALWWGVVCPSC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6016_e12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_020406

ORF Size: 1311 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:

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_020406.4](#)

RefSeq Size: 2238 bp

RefSeq ORF: 1314 bp

Locus ID: 57126

UniProt ID: [Q8N6Q3](#)

Cytogenetics: 19q13.31

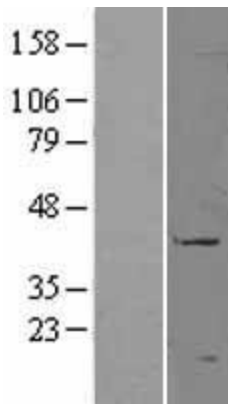
MW: 46.4 kDa

Gene Summary: This gene encodes a glycosyl-phosphatidylinositol (GPI)-linked cell surface glycoprotein that plays a role in neutrophil activation. The protein can bind platelet endothelial cell adhesion molecule-1 and function in neutrophil transmigration. Mutations in this gene are associated with myeloproliferative diseases. Over-expression of this gene has been found in patients with polycythemia rubra vera. Autoantibodies against the protein may result in pulmonary transfusion reactions, and it may be involved in Wegener's granulomatosis. A related pseudogene, which is adjacent to this gene on chromosome 19, has been identified. [provided by RefSeq, Apr 2014]

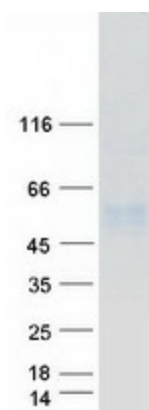
Product images:



Circular map for RC206463



Western blot validation of overexpression lysate (Cat# [LY402785]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206463 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CD177 protein (Cat# [TP306463]). The protein was produced from HEK293T cells transfected with CD177 cDNA clone (Cat# RC206463) using MegaTran 2.0 (Cat# [TT210002]).