

Product datasheet for **RC204077**

DIABLO (NM_019887) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIABLO (NM_019887) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DIABLO
Synonyms:	DFNA64; SMAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204077 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCTGAAGAGTTGGCTGTCGCGCAGCGTAACTTCATTCTTCAGGTACAGACAGTGTGGTGTG
TTCCTGTTGGCTAACTTTAAGAAGCGGTGTTTCTCAGAATTGATAAGACCATGGCACAAAACCTGTGAC
GATTGGCTTTGGAGTAACCCTGTGTGCGGTTCTATTGCACAGAAATCAGAGCCTCATTCCCTTAGTAGT
GAAGCATTGATGAGGAGAGCAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCAGACCACAT
ATGCGTTGATTGAAGCTATTACTGAATATACTAAGGCTGTTTATACCTTAACTTCTTTACCGACAATA
TACAAGTTTACTTGGGAAAATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAGGAGCCAGA
GCTGAGATGACTTCAAAACACCAAGAGTACTTGAAGCTGGAAACCACTTGATGACTGCAGTTGGTCTTT
CAGAGATGGCAGCAGAAGCTGCATATCAAACCTGGCGCAGATCAGGCTCTATAACCGCCAGGAATCACAT
TCAGCTGGTGAACCTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGGAAAGCAGAAACCAAGCTGGCAGAA
GCACAGATAGAAGAGCTCCGTAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCCGAGCAGGAGG
CTACCTGCGTGAGGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204077 protein sequence
Red=Cloning site Green=Tags(s)

MAALKSWLSRSVTSFFRYRQCLCVPVAVNFKKRCFSELIRPWHKTVTIGFGVTLCAVPIAQKSEPHSLSS
 EALMRRVAVSLVTDSTSTFLSQTYYALIEAITEYTKAVYTLTSLYRQYTSLLGKMNSEEEDEVWQVIIGAR
 AEMTSKHQEYLLKLETTWMTAVGLSEMAEAAYQTGADQASITARNHIQLVKLQVEEVHQLSRKAETKLAE
 AQIEELRQKTQEEGEERAESEQEAYLRED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6059_e10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019887

ORF Size: 717 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_019887.6](#)

RefSeq Size: 2278 bp

RefSeq ORF: 720 bp

Locus ID: 56616

UniProt ID: [Q9NR28](#)

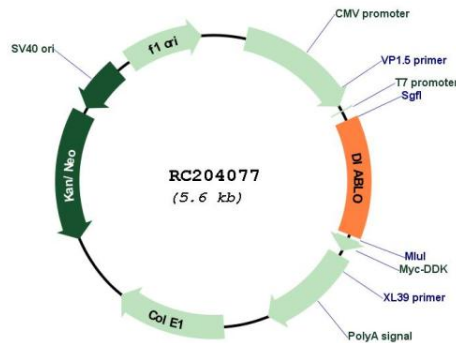
Cytogenetics: 12q24.31

Protein Families: Transmembrane

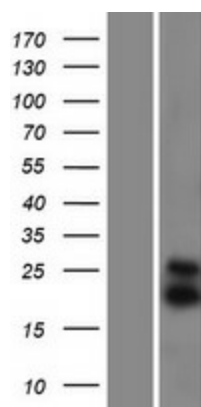
MW: 27.1 kDa

Gene Summary: This gene encodes an inhibitor of apoptosis protein (IAP)-binding protein. The encoded mitochondrial protein enters the cytosol when cells undergo apoptosis, and allows activation of caspases by binding to inhibitor of apoptosis proteins. Overexpression of the encoded protein sensitizes tumor cells to apoptosis. A mutation in this gene is associated with young-adult onset of nonsyndromic deafness-64. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, May 2013]

Product images:



Circular map for RC204077



Western blot validation of overexpression lysate (Cat# [LY412673]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204077 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).