

## Product datasheet for RC236382

### DIABLO (NM\_001278304) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DIABLO (NM\_001278304) 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:** >RC236382 representing NM\_001278304  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAATCTGACTTCTACTTCCAGAAATCAGAGCCTCATTCCCTTAGTAGTGAAGCATTGATGAGGAGAG  
 CAGTGTCTTTGGTAACAGATAGCACCTCTACCTTCTCTCTCAGACCACATATGCGTTGATTGAAGCTAT  
 TACTGAATATACTAAGGCTGTTTATACCTTAACCTTCTCTTACCAGACAATATAACAAGTTTACTTGGGAAA  
 ATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAGGAGCCAGAGCTGAGATGACTTCAAAC  
 ACCAAGAGTACTTGAAGCTGAAACCACCTGGATGACTGCAGTTGGTCTTTCAGAGATGGCAGCAGAAGC  
 TGCATATCAAACCTGGCGCAGATCAGGCCTCTATAACCGCCAGGAATCACATTGAGCTGGTAAACTGCAG  
 GTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGCTGGCAGAAGCACAGATAGAAGAGCTCC  
 GTCAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGAGCAGGAGGCCTACCTGCGTGAGGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236382 representing NM\_001278304  
 Red=Cloning site Green=Tags(s)  
 MKSDFYFQKSEPHLSSEALMRRVSLVTDSTSTFLSQTYYALIEAITEYTKAVYTLTSLYRQYTSLLGK  
 MNSEEEDEVQVIIGARAEMTSKHQEYLKLETTWMTAVGLSEMAEAAYQTGADQASITARNHIQLVKLQ  
 VEEVHQLSRKAETKLAEAQIEELRQKTQEEGEERAESEQEAYLRED

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1432\\_f11.zip](https://cdn.origene.com/chromatograms/ja1432_f11.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001278304

ORF Size: 558 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\\_001278304.2](#)

RefSeq Size: 2483 bp

RefSeq ORF: 561 bp

Locus ID: 56616

UniProt ID: [Q9NR28](#)

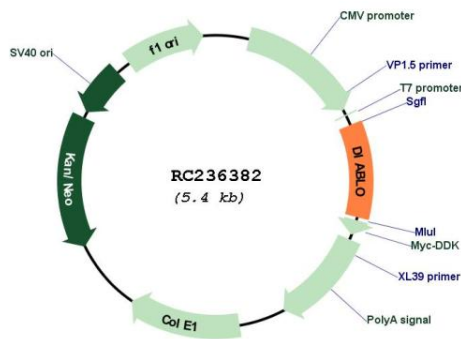
**Cytogenetics:** 12q24.31

**Protein Families:** Transmembrane

**MW:** 21.2 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 RC236382