

Product datasheet for **RC236476**

DIABLO (NM_001278342) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DIABLO (NM_001278342) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: DIABLO
Synonyms: DFNA64; SMAC
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236476 representing NM_001278342
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCGGCTCTGAAGAGTTGGCTGTCGCGCAGCGTAACTTCATTCTTCAGGTACAGACAGTGTGGTG
TTCTGTTGGTAACCTTAAGAAGCGGTGTTTCTCAGAATTGATAAGACCATGGCACAAAAGTGTGAC
GATTGGCTTTGGAGTAACCTGTGTGCGGTTCCATTGCACAGGCTGTTTATACCTTAAGTCTCTTTAC
CGACAATATAAGTTTACTTGGGAAAAATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAG
GAGCCAGAGCTGAGTACTTCAAACACCAAGAGTACTTGAAGCTGGAACCACTTGGATGACTGCAGT
TGGTCTTTAGAGATGGCAGCAGAAGCTGCATATAAACTGGCGCAGATCAGGCCTCTATAACCGCCAGG
AATCACATTCAGCTGGTAAACTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGC
TGGCAGAAGCACAGATAGAAGAGCTCCGTGAGAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGA
GCAGGAGGCCTACCTGCGTGAGGAT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236476 representing NM_001278342
Red=Cloning site Green=Tags(s)

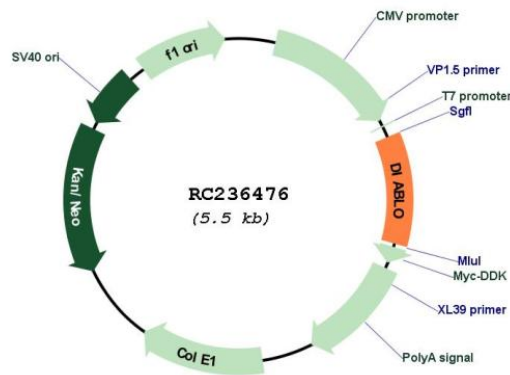
MAALKSWLSRSVTSFFRYRQCLCVPVAVFKKRCFSELIRPWHKTVTIGFVTLCAVPIAQAVYTLTSLY
RQYTSLLGKMNSEEEDEVQVIIGARAEMTSKHQEYLLKLETTWMTAVGLSEMAEAAAYQTGADQASITAR
NHIQLVKLQVEEVHQLSRKAETKLAEAQIEELRQKTQEEGEERAESEQEAYLRED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001278342

ORF Size: 585 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_001278342.1](#), [NP_001265271.1](#)

RefSeq Size: 1882 bp

RefSeq ORF: 588 bp

Locus ID: 56616

UniProt ID: [Q9NR28](#)

Cytogenetics: 12q24.31

Protein Families: Transmembrane

MW: 22.7 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]