

Product datasheet for **RG236476**

DIABLO (NM_001278342) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: DIABLO (NM_001278342) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: DIABLO
Synonyms: DFNA64; SMAC
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG236476 representing NM_001278342.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCTCTGAAGAGTTGGCTGTGCGCAGCGTAACCTCATTCTTCAGGTACAGACAGTGTGTTGTGT
GTTCTCTGTTGGCTAACTTTAAGAAGCGGTGTTTCTCAGAATTGATAAGACCATGGCACAAAATGTG
ACGATTGGCTTTGGAGTAACCTGTGTGCGGTTCTATTGCACAGGCTGTTTATACCTTAACTTCTCTT
TACCGACAATATAACAAGTTTACTTGGGAAATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATC
ATAGGAGCCAGAGCTGAGATGACTTCAAAACACCAAGAGTACTTGAAGCTGGAAACCACTGGATGACT
GCAGTTGGTCTTTCAGAGATGGCAGCAGAAGCTGCATATCAAACGGCGCAGATCAGGCCTATAACC
GCCAGGAATCACATTAGCTGGTAAACTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAA
ACCAAGCTGGCAGAAGCAGATAGAAGAGCTCCGTGAGAAAACACAGGAGGAAGGGGAGGAGCGGGCT
GAGTCGGAGCAGGAGGCCTACCTGCGTGAGGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236476
Blue=ORF Red=Cloning site Green=Tag(s)

```
MAALKSWLSRSVTSFFRYRQCLCVPVVFANFKKRCFSELIRPWHKTVTIGFGVTLCAVPIAQAVYTLTSL
YRQYTSLLGKMNSEEEDEVQVIIGARAEMTSKHQEYLLKLETTWMTAVGLSEMAAEAAAYQTGADQASIT
ARNHIQLVKLQVEEVHQLSRKAETKLAEAQIEELRQKTQEEGEERAESEQEAYLRED
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-MluI

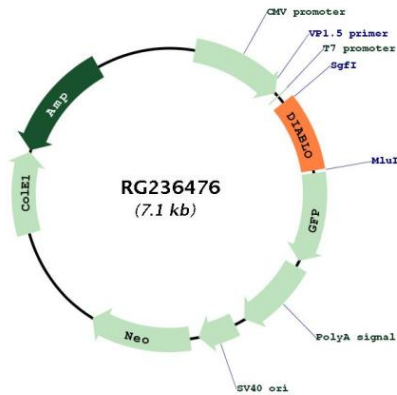


Cloning Scheme:


- 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).
- 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]

Product images:


Circular map for RG236476