

## Product datasheet for **RG236209**

### DIABLO (NM\_001278303) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DIABLO (NM\_001278303) 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:** >RG236209 representing NM\_001278303.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGGAGAGCAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCTCAGACCACATATGCGTTG
ATTGAAGCTATTACTGAATATACTAAGGCTGTTTATACCTTAACCTCTCTTTACCGACAATATACAAGT
TTACTTGGGAAAATGAATTCAGAGGAGGAAGATGAAGTGTGCCAGGTGATCATAGGAGCCAGAGCTGAG
ATGACTTCAAAACACCAAGAGTACTTGAAGCTGGAAACCACTGGATGACTGCAGTTGGTCTTTCAGAG
ATGGCAGCAGAAGCTGCATATCAAACCTGGCGCAGATCAGGCCTCTATAACCGCCAGGAATCACATTCAG
CTGGTGAACCTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGCTGGCAGAAGCA
CAGATAGAAGAGCTCCGTAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGAGCAGGAGGCC
TACCTGCGTGAGGAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236209  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MRRAVSLVTDSTSTFLSQTYYALIEAITEYTKAVYTLTSLYRQYTSLLGKMNSEEEDEVQVIIGARAE
MTSKHQEYKLETTWMTAVGLSEMAAEAAAYQTGADQASITARNHIQLVKLQVEEVHQLSRKAETKLEAA
QIEELRQKTQEEGEERAESEQEAYLRED
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLVHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** Sgfl-MluI



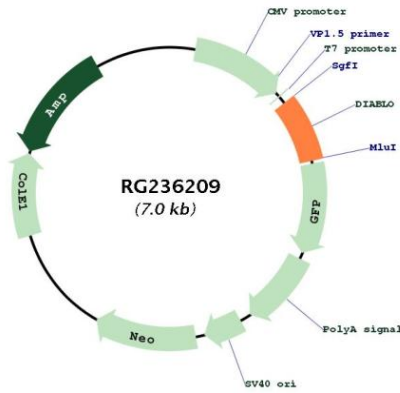
**Cloning Scheme:**


- ACCN:** NM\_001278303
- ORF Size:** 498 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\\_001278303.1](#), [NP\\_001265232.1](#)
- RefSeq Size:** 1881 bp
- RefSeq ORF:** 501 bp
- Locus ID:** 56616
- UniProt ID:** [Q9NR28](#)
- Cytogenetics:** 12q24.31
- Protein Families:** Transmembrane
- MW:** 19.4 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 RG236209