

## Product datasheet for **SC334103**

### DIABLO (NM\_001278303) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DIABLO (NM_001278303) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIABLO
Synonyms:	DFNA64; SMAC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC334103 representing NM_001278303. Blue=Insert sequence Red=Cloning site Green=Tag(s)

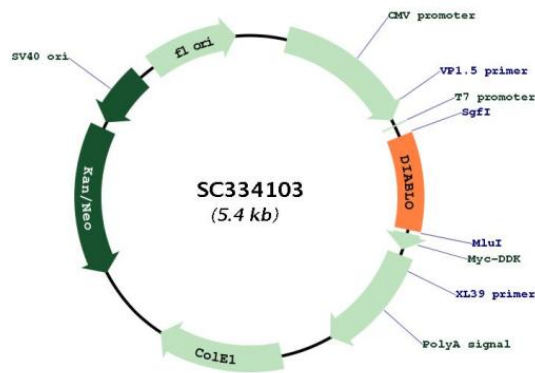
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGGAGAGCAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCTCAGACCACATATGCGTTG
ATTGAAGCTATTACTGAATATACTAAGGCTGTTTATACCTTAACCTTCTCTTTACCGACAATATAAAGT
TTACTTGGGAAAATGAATTCAGAGGAGGAAGATGAAGTGTGCCAGGTGATCATAGGAGCCAGAGCTGAG
ATGACTTCAAACACCAAGAGTACTTGAAGCTGGAAACCACTTGGATGACTGCAGTTGGTCTTTTCAGAG
ATGGCAGCAGAAGCTGCATATCAAACCTGGCGCAGATCAGGCCTCTATAACCGCCAGGAATCACATTCAG
CTGGTGAAGCTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGCTGGCAGAAGCA
CAGATAGAAGAGCTCCGTCAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGAGCAGGAGGCC
TACCTGCGTGAGGATTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

Restriction Sites: Sgfl-Mlul



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## Plasmid Map:



ACCN: NM\_001278303

Insert Size: 501 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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\\_001278303.1](#)

RefSeq Size: 1881 bp

RefSeq ORF: 501 bp

Locus ID: 56616

UniProt ID: [Q9NR28](#)

Cytogenetics: 12q24.31

Protein Families: Transmembrane

MW: 18.9 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]  
Transcript Variant: This variant (6) differs in the 5' UTR, lacks a portion of the 5' coding region, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (5, also known as Smac-gamma) has a shorter N-terminus, compared to isoform 1.