

Product datasheet for **SC334276**

DIABLO (NM_001278304) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIABLO (NM_001278304) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIABLO
Synonyms:	DFNA64; SMAC
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001278304, the custom clone sequence may differ by one or more nucleotides

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ATGAAATCTGACTTCTACTTCCAGAAATCAGAGCCTCATTCCCTTAGTAGTGAAGCATTGATGAGGAGAG
CAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCTCAGACCACATATGCGTTGATTGAAGCTAT
TACTGAATATACTAAGGCTGTTTATACCTTAACCTTCTCTTTACCGACAATATAACAAGTTTACTTGGGAAA
ATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAGGAGCCAGAGCTGAGATGACTTCAAAC
ACCAAGAGTACTTGAAGCTGGAACCCTTGGATGACTGCAGTTGGTCTTTCAGAGATGGCAGCAGAAGC
TGCAATCAAACCTGGCGCAGATCAGGCCTCTATAACCGCCAGGAATCACATTGAGCTGGTAAACTGCAG
GTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGCTGGCAGAAGCACAGATAGAAGAGCTCC
GTCAGAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGAGCAGGAGGCCTACCTGCGTGAGGATTG
A
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Restriction Sites:	Sgfl-MluI
ACCN:	NM_001278304
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).



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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_001278304.1](#), [NP_001265233.1](#)

RefSeq Size: 2483 bp

RefSeq ORF: 561 bp

Locus ID: 56616

UniProt ID: [Q9NR28](#)

Cytogenetics: 12q24.31

Protein Families: Transmembrane

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 (7) differs in its 5' UTR and 5' coding region, and uses an alternate start codon, compared to variant 1. The encoded isoform (2, also known as Smac-beta and Smac/DIABLO-S) has a shorter and distinct N-terminus, compared to isoform 1. Isoform 2 has a cortical, instead of a mitochondrial, subcellular distribution, and lacks the inhibitor of apoptosis protein-binding domain but maintains the ability to potentiate apoptosis (PMID: 11285287). Variants 2 and 7 encode the same isoform.