

Product datasheet for **SC110581**

DIABLO (NM_138929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIABLO (NM_138929) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIABLO
Synonyms:	DFNA64; DIABLO-S; SMAC; SMAC3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_138929, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGCTCTGAAGAGTTGGCTGTCGCGCAGCGTAACTTCATTCTTCAGGTACAGACAGTGTGGTGTG
TTCCTGTTGTGGCTAACTTTAAGAAGCGGTGTTTCTCAGAATTGATAAGACCATGGCACAAAAGTGTGAC
GATTGGCTTTGGAGTAACCCTGTGTGCGGTTCTATTGCACAGGCTGTTTATACCTTAACTTCTCTTTAC
CGACAATATAAAGTTTACTTGGGAAAATGAATTCAGAGGAGGAAGATGAAGTGTGGCAGGTGATCATAG
GAGCCAGAGCTGAGATGACTTCAAACACCAAGAGTACTTGAAGCTGGAACCACTTGGATGACTGCAGT
TGGTCTTTCAGAGATGGCAGCAGAAGCTGCATATCAAAGTGGCGCAGATCAGGCCTCTATAACCGCCAGG
AATCACATTCAGCTGGTGAAGTGCAGGTGGAAGAGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGC
TGGCAGAAGCACAGATAGAAGAGCTCCGTCAAAAACACAGGAGGAAGGGGAGGAGCGGGCTGAGTCGGA
GCAGGAGGCTACCTGCGTGAGGATTGA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_138929 unedited TCAAATTTTGTAAATACGACTCACTATTAGGGCGGCCGCGATTTCGGCACGAGGGTCTGGCG TCCGCGCCTGCACAATGGCGGCTCTGAAGATTGGCTGTCGCGCAGCGTAACTTCATTCT TCAGGTACAGACAGTGTTTGTGTTCCTGTTGTGGCTAACTTTAAGAAGCGGTGTTTCT CAGAATTGATAAGACCATGGCACAAAACGTGACGATTGGCTTTGGAGTAACCCTGTGTG CGGTTCTATTGCACAGAAATCAGAGCCTCATTCCCTTAGTAGTGAAGCATTGATGAGGA GAGCAGTGTCTTTGGTAACAGATAGCACCTCTACCTTTCTCTCAGACCACATATGCGT TGATTGAAGCTATTACTGAATATACTAAGGCTGTTTATACCTTAACTTCTCTTTACCGAC AATATACAAGTTTACTTGGGAAAATGAATTTCAGAGGAGGAAGATGAAGTGTGGCAGGTGA TCATAGGAGCCAGAGCTGAGATGACTTCAAACACCAAGAGTACTTGAAGCTGGAACCA CTTGGATGACTGCAGTTGGTCTTTCAGAGATGGCAGCAGAAAGCTGCATATCAAACGGCG CAGATCAGGCCTCTATAACCGCCAGGAATCACATTGAGTGGTAAAACGAGGTGGAAG AGGTGCACCAGCTCTCCCGAAAGCAGAAACCAAGCTGGCAGAAGCACAGATAGAAGAGC TCCGTGAGAAACACAGNANGAAAGGGGAGGAGCGGGCTGAGTCNGAGCAGGAGGCCTACC TGCGTGAGGATTGAGGGCTGAGCCACTGCCCTGTCTCCACTCAGTGGGAAAGCAGGNG CAGATGCCACCCTGCCANGGGTTGCATGACTGTCTGTGCACCGAGAGAGGCCGAGATCC TGNCTGGNCATCAGCGAGAGCCTTTGNAGCTTGAGTGTCTGTGGTCTAGGCTGCCT GGACCTGGTCTTANCCTTGCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_138929 unedited TCTGAACCGCGGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TT CACCAGGTAACACTCTGCACCCCTTTTTTTTTAAAAAAGGTTTTTCACTCCTTGCC TCAGCTGTCTCAGAGCAGGGGGGAGATCAAAAAACATTCAAAAATACCTACAA AAAAATCGTACAACTGGACAGGTTCCCTCCCTGCCCAACTGGCATCCCAACAGAG GGAACAAGTCTAAATCTTTTTGACGCGTAAATAAACTGAAAACAGGTAAACAGTT GCTGAACCTAAGGGCATGACAAAAGGACTCCTTTCTTTGACCCAGGTAGGCAAAATGCT TTGGGGGGGAGGAAAAAATGGGTAAAACAGCTGTCAAAGGGGGGGAAATGTTAA ACAGGGTGCAGGGCCCAAGGGCTAAAACAGGTCCAGCGCAAGCCTGAAACACAGGAG GCACTCACAGCTCACAAGGCGTTTTGCCTGATTGGCCAGGCAAGATCTGCCGCTCTT TTTGGTGCACAAACAGTCATGCCAACCTGGGCAGGGTGAATTTGCCCTGTTTTCCCT ACTGAGTGGGAAACAGGGCAGTGTGCCTCAGCCCTAATTCCTAACGCAGGTAGGCCCTC CTGTTCCAAATAAAACCCGTTTCTCCCTTCTCTGTGTTTTTTGAGGGAGCTCTTTTA TTTGGGCTCCGGCCACTGTTTTTCTTTTTCGGGAAAAGTGGGGCACCCTTTTCCCT CGGAGTCCACCACCGAGAAGGAATCCCGCCGGTTATAAACGCCCTGACTGCCCCATT TAAATCCACCTTTGTTGCCCTTTCTAAAACACCTGGACTCCCCAGGTGTTCCCACTTC AAACCTTTGAGGTTTGAAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_138929
Insert Size:	1320 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_138929.2](#), [NP_620307.1](#)

RefSeq Size: 1366 bp

RefSeq ORF: 588 bp

Locus ID: 56616

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 (3) lacks an in-frame segment, compared to variant 1. The resulting isoform (3) is shorter than isoform 1 and retains only a small portion of the IAP-binding domain. The isoform was previously identified as Smac-delta.