

Product datasheet for **SC315877**

DIAPH1 (NM_001079812) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DIAPH1 (NM_001079812) Human Untagged Clone
Tag: Tag Free
Symbol: DIAPH1
Synonyms: DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001079812 edited
GCCAGCGTGAACCGGGACATGGAGCCGCCCGGGAGCCTGGGGCCCGCCGGGGACC
CGGGACAAGAAGAAGGGCCGGAGCCAGATGAGCTGCCCTCGGGCGGCGGACGGCGGC
AAATCTAAGAAATTTCTGGAGAGATTTACCAGCATGAGAATTAAGAAGGAGAAGGAAAAG
CCCAATTCTGCTCATAGAAATTTCTGTCATCATATGGGGATGATCCACAGCACAGTCA
TTGCAAGATGTTTCAGATGAACAAGTGCTGTTTCTTTGAACAGATGCTGCTGGATATG
AACCTGAATGAGGAGAAACAGCAACCTTTGAGGGAGAAGGACATCATCAAGAGGGAG
ATGGTGTCCCAATACTTGTACACCTCCAAGGCTGGCATGAGCCAGAAGGAGAGCTCTAAG
TCTGCCATGATGATATTCAGGAGTTGAGGTGAGGCTTGGGGATATGCCTCTGCTCAGC
TGCTGGAGTCCCTTCGTGTCTCTCAACAACAACCCTGTCAGTTGGGTGCAAACATTT
GGTGTGAAGGCTTGGCCTCCTTATTGGACATTCTTAAACGACTTCATGATGAGAAAGAA
GAGACTGCTGGGAGTTACGATAGCCGGAACAAGCATGAGATCATTGCTGCTTGAAGCT
TTTATGAACAACAAGTTTGAATCAAGACCATGTTGGAGACAGAAGAAGGAATCCTACTG
CTGGTCAGAGCCATGGATCCTGCTGTTCCCAACATGATGATTGATGCAGCTAAGCTGCTT
TCTGCTCTTTGTATTCTACCGCAGCCAGAGGACATGAATGAAAGGGTTTTGGAGGCAATG
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AGTGAACCACTATTGCACTGAAGTTGGATGCCTACAGCTGATCAATGCTCTCATCACA
CCAGCGGAGGAACCTTACTTCCGAGTTCACATCAGAAGTGAAGTGAAGTGAAGTGAAGT
CATCAGGTGTTGCAGGACCTTCGAGAGATTGAAAATGAAGATATGAGAGTGAAGTGAAGT
GTGTTTATGAAACAAGGGGAAGGATTCTATGACCTGAAGGGACGGCTGGATGACATT
CGCATGGAGATGGATGACTTTAATGAAGTCTTTGAGTCTCTTAAACACAGTGAAGGAT
TCAAAGGCAGAGCCACACTTCCTTTCCATCCTGCAGCACTTACTCTTGGTCCGAAATGAC
TATGAGGCCAGACCTCAGTACTATAAGTTGATTGAAGAATGATTTCCAGATAGTTCTG
CACAAGAACGGGGCTGATCCTGACTTCAAGTGCCGGCACCTCCAGATTGAGATTGAGGGA
TTAATTGATCAAATGATTGATAAGACAAAGGTGGAGAAAATCTGAAGCCAAAGCTGCAGAG
CTGGAAAAGAAGTTGACTCAGAGTTAACAGCCGACATGAGCTACAGGTGGAATGAAA
AAGATGGAAGTGAAGTCTTGGAGCAGAAGCTTCAAGATCTTCAAGGGAGAAAAGATGACTG



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CATTCTGAAAAGCAGCAAATTGCCACAGAGAAACAGGACCTGGAAGCAGAGGTGTCCAG
 CTCACAGGAGAGGTTGCCAAGCTGACAAAGGAAGCTGGAAGATGCCAAGAAAGAAATGGCT
 TCCCTCTCTGCGGCAGCTATTACTGTACCTCCTTCTGTTCCCTAGTCGTGCTCCTGTTCCC
 CCTGCCCTCCTTTACCTGGTACTCTGGCACTATTATCCACCACCACCTGCTCCTGGG
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 GTTTGCATCTCCTCACCCTTCTTTACCTGGAGTACTGCTATCTCTCCACCCCCTCCT
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 GCTAGAATCCCCCACCACCACCTCCTTTGCCTGGGAGTCTGGAATCCCCCCCCACCT
 CCTCCCTTGCCTGGAGAAGCAGGAATGCCACCTCCTCCTCCCCCTCTTCTGGTGGTCT
 GGAATCCCTCCACCTCCTCCATTTCCGGAGGCCCTGGCATTCTCCACCTCCACCCGGA
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 TTTGGATTAACCCCCAAAAGCTTTATAAGCCAGAGGTGCAGCTCCGGAGGCCAACTGG
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 GGTTCCTTCCGCATGCCCTATCAAGAGATTAAGAATGTCATCCTGGAGGTGAATGAGGCT
 GTTCTGACTGAGTCTATGATCCAGAACCTCATTAAAGCAATGCCAGAGCCAGAGCAGTTA
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 AATTACATGAATGCTGGCTCCAGAAATGCTGGTGTCTTTGGCTTCAATATCAGCTTCCTC
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 GAGTTGTGTGAGAATGACTATCCCGATGTCTCAAGTTTCCAGACGAGCTTGCCCATGTG
 GAGAAAGCCAGCCGAGTTTCTGTGAAAAGCTTGCAAAAGAACCTAGATCAGATGAAGAAA
 CAAATTTCTGATGTGGAACGTGATGTTTCAAGATTTCCAGCTGCCACAGATGAAAAGAC
 AAGTTTGTGAAAAAATGACCAGCTTTGTGAAGGATGCACAGGAACAGTATAACAAGCTG
 CGGATGATGCATTCTAACATGGAGACCCTCTATAAGGAGCTGGGCGAGTACTTCTCTTT
 GACCCCAAGAAGTTGTCTGTTGAAGAATTTTTCATGGATCTTCAATTTTTCGGAATATG
 TTTTTCGAAAGCAGTCAAGGAGAACCAGAAAGCGGGGAGACAGAAAGAAAGATGAGGCGA
 GCAAACTAGCCAAGGAGAAGGCAGAGAAGGAGCGGCTAGAGAAGCAGCAGAAGAGAGAG
 CAACTCATAGACATGAATGCAGAGGGCGATGAGACAGGTGTGATGGACAGTCTTCTAGAA
 GCCCTGCAGTCAGGGGCAGCATTCCGACGGAAGAGAGGGCCCCGTCAAGCCAACAGGAAG
 GCCGGGTGTGAGTACATCTCTGCTAGCTTCGGAGCTGACCAAGGATGATGCCATGGCT
 GCTGTTCTGCCAAGGTGTCCAAGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG
 AAGGAGTTGGTTGGCCGTGAAGCTAATGTGGTCTGTGACCGCGCAGCTCCTCAGCG
 GAGCCGACAGCTGCTCTGCA

- Restriction Sites:** Please inquire
- ACCN:** NM_001079812
- Insert Size:** 3900 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).
- OTI Annotation:** The ORF of this clone is found to be a good match to NM_001079812.1 except for 3bp deletion.

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:	<ol style="list-style-type: none">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:	<u>NM_001079812.1</u> , <u>NP_001073280.1</u>
RefSeq Size:	5718 bp
RefSeq ORF:	3792 bp
Locus ID:	1729
UniProt ID:	<u>O60610</u>
Cytogenetics:	5q31.3
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Focal adhesion, Regulation of actin cytoskeleton
Gene Summary:	<p>This gene is a homolog of the <i>Drosophila</i> diaphanous gene, and has been linked to autosomal dominant, fully penetrant, nonsyndromic sensorineural progressive low-frequency hearing loss. Actin polymerization involves proteins known to interact with diaphanous protein in <i>Drosophila</i> and mouse. It has therefore been speculated that this gene may have a role in the regulation of actin polymerization in hair cells of the inner ear. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) lacks an in-frame exon in the 5' coding region, as compared to variant 1, which results in a shorter isoform (2).</p>