

Product datasheet for SC315303

DIAPH1 (NM_005219) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DIAPH1 (NM_005219) Human Untagged Clone
Tag:	Tag Free
Symbol:	DIAPH1
Synonyms:	DFNA1; DIA1; DRF1; hDIA1; LFHL1; SCBMS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_005219 edited
 ATGGAGCCGCCCGCGGGAGCCTGGGGCCCGCGGGACCCGGGACAAGAAGAAGGGC
 CGGAGCCAGATGAGCTGCCCTCGGCGGGCGGACGGCGGCAAATCTAAGAAATTTACT
 CTGAAGCGGCTCATGGCAGATGAGCTGGAGAGATTTACCAGCATGAGAATTAAGAAGGAG
 AAGGAAAAGCCCAATTCTGCTCATAGAAATTTCTTCTGCATCATATGGGGATGATCCACA
 GCACAGTCATTGCAAGATGTTTCAGATGAACAAGTGTGGTTCTCTTTGAACAGATGCTG
 CTGGATATGAACCTGAATGAGGAGAAACAGCAACCTTTGAGGGAGAAGGACATCATCATC
 AAGAGGGAGATGGTGTCCAATACTTGTACACCTCCAAGGCTGGCATGAGCCAGAAAGAG
 AGCTCTAAGTCTGCCATGATGTATTCAGGAGTTGAGGTGAGGCTTGCAGGATATGCCT
 CTGCTCAGCTGCCTGGAGTCCCTTCGTGTGTCTCTCAACAACAACCTGTCAGTTGGGTG
 CAAACATTTGGTGTGAAGGCTTGGCCTCCTTATTGGACATTCTTAAACGACTTCATGAT
 GAGAAAGAAGAGACTGCTGGGAGTTACGATAGCCGGAACAAGCATGAGATCATTCCGCTGC
 TTGAAAGCTTTTATGAACAACAAGTTTGAATCAAGACCATGTTGGAGACAGAAGAAGGA
 ATCCTACTGCTGGTCAGAGCCATGGATCCTGCTGTTCCCAACATGATGATTGATGCAGCT
 AAGCTGCTTTCTGCTCTTTGATTTCTACCGCAGCCAGAGGACATGAATGAAAGGGTTTTG
 GAGGCAATGACAGAAAGAGCTGAGATGGATGAAGTGGAACGTTTCCAGCCGCTGCTGGAT
 GGATTA AAAAGTGAACCACTATTGCACTGAAGTTGGATGCCTACAGCTGATCAATGCT
 CTCATCACACCAGCGGAGGAACCTGACTCCGAGTTCACATCAGAAGTGAACCTGATGCGT
 TTGGGGCTACATCAGGTGTTGCAGGACCTTCGAGAGATTGAAAATGAAGATATGAGAGTG
 CAACTAAATGTGTTTATGAACAAGGGGAAGAGGATTCCTATGACCTGAAGGGACGCTG
 GATGACATTGCGATGGAGATGGATGACTTTAATGAAGTCTTTCAGATTCTCTTAAACACA
 GTGAAGGATTCAAAGGCAGAGCCACACTTCCTTTCCATCCTGCAGCACTTACTCTTGGTC
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 ATAGTTCTGCACAAGAACGGGGCTGATCCTGACTTCAAGTGCCGGCACCTCCAGATTGAG
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 GCTGCAGAGCTGGAAAAGAAGTTGGACTCAGAGTTAACAGCCGACATGAGCTACAGGTG
 GAAATGAAAAGATGAAAAGTACTTTGAGCAGAAGCTTCAAGATCTTCAGGGAGAAAAA



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GATGCACTGCATTCTGAAAAGCAGCAAATTGCCACAGAGAAACAGGACCTGGAAGCAGAG
 GTGTCCCAGCTCACAGGAGAGGTTGCCAAGCTGACAAAGGAACTGGAAGATGCCAAGAAA
 GAAATGGCTTCCCTCTCTGCGGCAGCTATTACTGTACCTCCTTCTGTTCCTAGTCGTGCT
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 GCTCCTGGGGATAGTACCACTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
 TTGCCCTGGGGTGTGGTGCATCTCCTCACCCCTTCTTTACCTGGAGGTAAGTGTATCTCT
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 GTTGGCATCCCTCACCTCCTTCTTTGCCTGGAGGTAAGTGCATCCCCCACCTCCTCCT
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 CCTGGTGGTCTGGAATCCCTCCACCTCCTCCATTTCCCGGAGGCCCTGGCATTCTCCA
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 GTGAAGGAGGACCGCTTTGAGAACAATGAACCTTTTCGCCAACTTACCCTTACCTTCTCT
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 GTGCAAAAAGAAAAAGTAAAAGAGTTAAAGGTGTTGGATTCAAAGACAGCCAGAATCTC
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 GAGCAGTTTGGCGTGGTATGGGCACTGTGCCCGACTGCGGCCCTCGCCTCAATGCCATT
 CTCTTCAAGCTACAATTCAGCGAGCAAGTGGAGAATATCAAGCCAGAGATTGTGTCTGTC
 ACTGCTGCATGTGAGGAGTTACGTAAGAGTGAGAGCTTTTCCAATCCTCCTAGAGATTACC
 TTGCTTGTGGAAATTACATGAATGCTGGCTCCAGAAATGCTGGTGTCTTTGGCTTCAAT
 ATCAGTTCCTCTGTAAGCTTCGAGACCAAGTCCACAGATCAGAAGATGACGTTGTTA
 CACTTCTTGGCTGAGTTGTGTGAGAATGACTATCCCGATGCTCCTCAAGTTTCCAGACGAG
 CTTGCCCATGTGGAGAAAGCCAGCCGAGTTTCTGCTGAAAACCTGCAAAAAGAACCTAGAT
 CAGATGAAGAAACAAATTTCTGATGTGGAACGTGATGTTCAGAATTTCCAGCTGCCACA
 GATGAAAAGACAAGTTTGTGAAAAAATGACCAGCTTTGTGAAGGATGCACAGGAACAG
 TATAACAAGCTGCGGATGATGCATTCTAACATGGAGACCCTCTATAAGGAGCTGGGCGAG
 TACTTCTCTTTGACCCCAAGAAGTTGTCTGTTGAAGAATTTTTCATGGATCTTACAAT
 TTTTCGGAATATGTTTTGCAAGCAGTCAAGGAGAACCAGAAGCGCGGGAGACAGAAGAA
 AAGATGAGGCGAGCAAACTAGCCAAGGAGAAGGCAGAGAAGGAGCGGCTAGAGAAGCAG
 CAGAAGAGAGAGCAACTCATAGACATGAATGCAGAGGGCGATGAGACAGGTGTGATGGAC
 AGTCTTCTAGAAGCCCTGCAGTCAGGGGCAGCATTCCGACGGAAGAGAGGGCCCCGTCAA
 GCCAACAGGAAGGCCGGGTGTGCAGTCACATCTCTGCTAGCTTCGGAGCTGACCAAGGAT
 GATGCCATGGCTGCTGTTCTCCTGCCAAGGTGTCCAAGAACAGTGAGACATCCCCACAATC
 CTTGAGGAAGCCAAGGAGTTGGTTGGCCGTGCAAGCTAA

- Restriction Sites:** NotI-NotI
- ACCN:** NM_005219
- Insert Size:** 5800 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:** It is not a variant.
- 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_005219.2](#), [NP_005210.2](#)

RefSeq Size: 5662 bp

RefSeq ORF: 3747 bp

Locus ID: 1729

UniProt ID: [O60610](#)

Cytogenetics: 5q31.3

Domains: FH2

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Focal adhesion, Regulation of actin cytoskeleton

Gene Summary: This gene is a homolog of the *Drosophila* 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 *Drosophila* 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]

Transcript Variant: This variant (1) encodes the longest isoform (1).