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Product datasheet for SC318580

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
Vector:	pCMV6 series

Fully Sequenced ORF:

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>NCBI ORF sequence for NM_005219, the custom clone sequence may differ by one or more
nucleotides
ATGGAGCCGCCCGGCGGGAGCCTGGGGCCCGGCCGCGGGACCCGGGACAAGAAGAAGGGC
CGGAGCCCAGATGAGCTGCCCTCGGCGGGCGGCGACGGCGGCAAATCTAAGAAATTTACT
CTGAAGCGGCTCATGGCAGATGAGCTGGAGAGATTTACCAGCATGAGAATTAAGAAGGAG
AAGGAAAAGCCCAATTCTGCTCATAGAAATTCTTCTGCATCATATGGGGATGATCCCACA
GCACAGTCATTGCAAGATGTTTCAGATGAACAAGTGCTGGTTCTCTTTGAACAGATGCTG
CTGGATATGAACCTGAATGAGGAGAAACAGCAACCTTTGAGGGAGAAGGACATCATCATC
AAGAGGGAGATGGTGTCCCAATACTTGTACACCTCCAAGGCTGGCATGAGCCAGAAGGAG
AGCTCTAAGTCTGCCATGATGTATATTCAGGAGTTGAGGTCAGGCTTGCGGGATATGCCT
CTGCTCAGCTGCCTGGAGTCCCTTCGTGTGTCTCTCAACAACAACCCTGTCAGTTGGGTG
CAAACATTTGGTGCTGAAGGCTTGGCCTCCTTATTGGACATTCTTAAACGACTTCATGAT
GAGAAAGAAGAGACTGCTGGGAGTTACGATAGCCGGAACAAGCATGAGATCATTCGCTGC
TTGAAAGCTTTTATGAACAACAAGTTTGGAATCAAGACCATGTTGGAGACAGAAGAAGGA
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AAGCTGCTTTCTGCTCTTTGTATTCTACCGCAGCCAGAGGACATGAATGAAAGGGTTTTG
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GTGAAGGATTCAAAGGCAGAGCCACACTTCCTTTCCATCCTGCAGCACTTACTCTTGGTC
CGAAATGACTATGAGGCCAGACCTCAGTACTATAAGTTGATTGAAGAATGTATTTCCCAG
ATAGTTCTGCACAAGAACGGGGCTGATCCTGACTTCAAGTGCCGGCACCTCCAGATTGAG
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GTGTCCCAGCTCACAGGAGAGGTTGCCAAGCTGACAAAGGAACTGGAAGATGCCAAGAAA
GAAATGGCTTCCCTCTCTGCGGCAGCTATTACTGTACCTCCTTCTGTTCCTAGTCGTGCT
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CCTGTTCCCCCTGCCCCTCCTTTACCTGGTGACTCTGGCACTATTATTCCACCACCACCT
GCTCCTGGGGATAGTACCACTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCACCTCCT
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CTTGCCCATGTGGAGAAAGCCAGCCGAGTTTCTGCTGAAAACTTGCAAAAGAACCTAGAT
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TTTCGGAATATGTTTTTGCAAGCAGTCAAGGAGAACCAGAAGCGGCGGGAGACAGAAGAA
AAGATGAGGCGAGCAAAACTAGCCAAGGAGAAGGCAGAGAAGGAGCGGCTAGAGAAGCAG
CAGAAGAGAGAGCAACTCATAGACATGAATGCAGAGGGCGATGAGACAGGTGTGATGGAC
AGTCTTCTAGAAGCCCTGCAGTCAGGGGCAGCATTCCGACGGAAGAGAGGGCCCCGTCAA
GCCAACAGGAAGGCCGGGTGTGCAGTCACATCTCTGCTAGCTTCGGAGCTGACCAAGGAT
GATGCCATGGCTGCTGTTCCTGCCAAGGTGTCCAAGAACAGTGAGACATTCCCCACAATC
CTTGAGGAAGCCAAGGAGTTGGTTGGCCGTGCAAGC

Restriction Sites: Please inquire

ACCN: NM_005219

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_005219.3, NP_005210.3
RefSeq Size:	5745 bp
RefSeq ORF:	3819 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).

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