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Product datasheet for SC301379

Desmoplakin (DSP) (NM_001008844) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Desmoplakin (DSP) (NM_001008844) Human Untagged Clone

Tag: Tag Free

Symbol: DSP

Synonyms: DCWHKTA; DP

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_001008844, the custom clone sequence may differ by one or more nucleotides

ATGAGCTGCAACGGAGGCTCCCACCCGCGGATCAACACTCTGGGCCGCATGATCCGCGCC
GAGTCTGGCCCGGACCTGCGCTACGAGGTGACCAGCGGCGGCGGGGGCACCAGCAGGATG
TACTATTCTCGGCGCGGCGTGATCACCGACCAGAACTCGGACGGCTACTGTCAAACCGGC
ACGATGTCCAGGCACCAGAACCAGAACACCATCCAGGAGCTGCTGCAGAACTGCTCCGAC
TGCTTGATGCGAGCAGAGCTCATCGTGCAGCCTGAATTGAAGTATGGAGATGGAATACAA
CTGACTCGGAGTCGAGAATTGGATGAGTGTTTTGCCCAGGCCAATGACCAAATGGAAATC
CTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGCCAGCCCTGTGATGCTTACCAGAAA
AGGCTTCTTCAGCTCCAAGAGCAAATGCGAGCCCTTTATAAAGCCATCAGTGTCCCTCGA
GTCCGCAGGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTCAGAGTGGCTCTGGCTGG
GATGAGTTCACCAAACATGTCACCAGTGAATGTTTGGGGTGGATGAGGCAGCAAAGGGCG
GAGATGGACATGGTGGCCTGGGGTGTGGACCTGGCCTCAGTGGAGCAGCACATTAACAGC
CACCGGGGCATCCACAACTCCATCGGCGACTATCGCTGGCAGCTGGACAAAATCAAAGCC
GACCTGCGCGAGAAATCTGCGATCTACCAGTTGGAGGAGGAGTATGAAAACCTGCTGAAA
GCGTCCTTTGAGAGGATGGATCACCTGCGACAGCTGCAGAACATCATTCAGGCCACGTCC
AGGGAGATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGAC
AAGAACACCAACATCGCTCAGAAACAGGAGGCCTTCTCCATACGCATGAGTCAACTGGAA
GTTAAAGAAAAAGAGCTCAATAAGCTGAAACAAGAAAGTGACCAACTTGTCCTCAATCAG
CATCCAGCTTCAGACAAAATTGAGGCCTATATGGACACTCTGCAGACGCAGTGGAGTTGG
ATTCTTCAGATCACCAAGTGCATTGATGTTCATCTGAAAGAAAATGCTGCCTACTTTCAG
TTTTTTGAAGAGGCGCAGTCTACTGAAGCATACCTGAAGGGGCTCCAGGACTCCATCAGG
AAGAAGTACCCCTGCGACAAGAACATGCCCCTGCAGCACCTGCTGGAACAGATCAAGGAG
CTGGAGAAAGAACGAGAGAAAATCCTTGAATACAAGCGTCAGGTGCAGAACTTGGTAAAC
AAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGCAATAAACCC
ATTATTCTCAGAGCTCTCTGTGACTACAAACAAGATCAGAAAATCGTGCATAAGGGGGAT
GAGTGTATCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCCGGGAGGC
GTTGACATGCTTGTTCCCTCTGTGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTG
GACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCCATCTTGGCTCTGTGGAACCAGCTC
TACATCAACATGAAGAGCCTGGTGTCCTGGCACTACTGCATGATTGACATAGAGAAGATC
AGGGCCATGACAATCGCCAAGCTGAAAACAATGCGGCAGGAAGATTACATGAAGACGATA

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GCCGACCTTGAGTTACATTACCAAGAGTTCATCAGAAATAGCCAAGGCTCAGAGATGTTT
GGAGATGATGACAAGCGGAAAATACAGTCTCAGTTCACCGATGCCCAGAAGCATTACCAG
ACCCTGGTCATTCAGCTCCCTGGCTATCCCCAGCACCAGACAGTGACCACAACTGAAATC
ACTCATCATGGAACCTGCCAAGATGTCAACCATAATAAAGTAATTGAAACCAACAGAGAA
AATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAGATTCGCAGGCAGATAGAG
CACTGCGAGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGACCAGGGGTCTTCTCAC
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CTGGAGAAACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAG
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CGAGACAAATCAGAGGAAGTACAAAAAATTGCTGAACTTTGCGCCAATTCAATTAAGGAT
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TTCGATGACCGTCAGCAGATATATGCAGCAGAAAAAGCTATCACTGGTTTTGATGATCCA
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ACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACTGTCAATGAACTGGAATCTGGT
CAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCCTCCAGGGTTCAAGCTGC
ATAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTTATGAGGCCATGAAA
ATTGGCTTAGTCCGACCTGGTACTGCTCTGGAGTTGCTGGAAGCCCAAGCAGCTACTGGC
TTTATAGTGGATCCTGTTAGCAACTTGAGGTTACCAGTGGAGGAAGCCTACAAGAGAGGT
CTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCAGAACGAGCTGTCACTGGGTAT
AATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAACTCATC
GAAAAGGGCCACGGTATTCGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGAC
CCAAAGGAGAGCCATCGTTTACCAGTTGACATAGCATATAAGAGGGGCTATTTCAATGAG
GAACTCAGTGAGATTCTCTCAGATCCAAGTGATGATACCAAAGGATTTTTTGACCCCAAC
ACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGATGCATTAAGGATGAGGAAACA
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CAGGAGGCCTACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAACTGTGTGAGCAG
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GTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGATGCTATTGACAAGGGCCTTGTT
GACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTTGCTGAC
ATGATCTCCTTGAAAAATGGTGTCGGCACCAGCAGCAGCATGGGCAGTGGTGTCAGCGAT
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AGGAATTTAACCATAAGGAGCAGCTCTTTTTCAGACACCCTGGAAGAATCGAGCCCCATT
GCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCCATTACAGAAGGTATAGAGCGG
GGCATCGTTGACAGCATCACGGGTCAGAGGCTTCTGGAGGCTCAGGCCTGCACAGGTGGC
ATCATCCACCCAACCACGGGCCAGAAGCTGTCACTTCAGGACGCAGTCTCCCAGGGTGTG
ATTGACCAAGACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAG
GGTGTGAAGGGAAAGAAGAAGATGTCAGCAGCAGAGGCAGTGAAAGAAAAATGGCTCCCG
TATGAGGCTGGCCAGCGCTTCCTGGAGTTCCAGTACCTCACGGGAGGTCTTGTTGACCCG
GAAGTGCATGGGAGGATAAGCACCGAAGAAGCCATCCGGAAGGGGTTCATAGATGGCCGC
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CTGCGCCTTCTGGAAGCCGCCTCCGTGTCGTCCAAGGGCTTACCCAGCCCTTACAACATG
TCTTCGGCTCCGGGGTCCCGCTCCGGCTCCCGCTCGGGATCTCGCTCCGGATCTCGCTCC
GGGTCCCGCAGTGGGTCCCGGAGAGGAAGCTTTGACGCCACAGGGAATTCTTCCTACTCT
TATTCCTACTCATTTAGCAGTAGTTCTATTGGGCACTAG

Restriction Sites: Please inquire

ACCN: NM_001008844

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).

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_001008844.1, NP_001008844.1
RefSeq Size:	7933 bp
RefSeq ORF:	6819 bp
Locus ID:	1832
UniProt ID:	P15924
Cytogenetics:	6p24.3
Protein Families:	Druggable Genome
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC)
Gene Summary:	This gene encodes a protein that anchors intermediate filaments to desmosomal plaques and forms an obligate component of functional desmosomes. Mutations in this gene are the cause of several cardiomyopathies and keratodermas, including skin fragility-woolly hair syndrome. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region compared to variant 1. The resulting isoform (II) is shorter than isoform I.