

Product datasheet for RC220397

Desmoplakin (DSP) (NM_004415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Desmoplakin (DSP) (NM_004415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Desmoplakin
Synonyms:	DCWHKTA; DP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220397 representing NM_004415 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC220397 representing NM_004415
Red=Cloning site Green=Tags(s)

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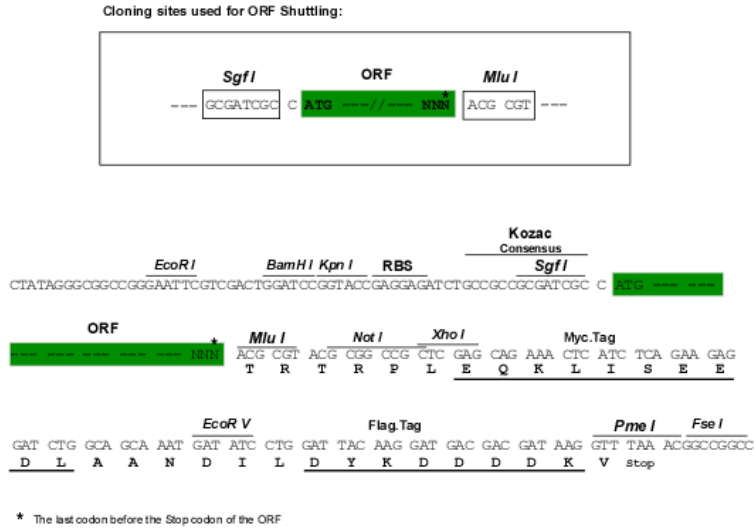
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Chromatograms:

https://cdn.origene.com/chromatograms/mk8020_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004415

ORF Size: 8613 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_004415.2](#), [NP_004406.2](#)

RefSeq Size: 9730 bp

RefSeq ORF: 8616 bp

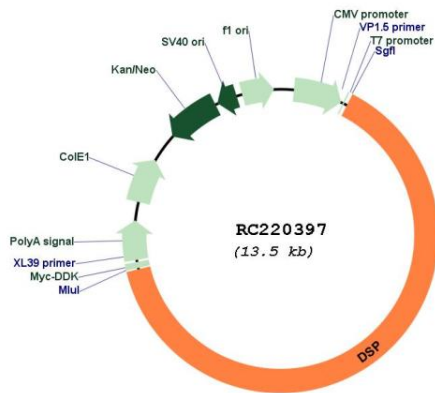
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UniProt ID: [P15924](#)
Cytogenetics: 6p24.3
Domains: Plectin, Pox_A_type_inc
Protein Families: Druggable Genome

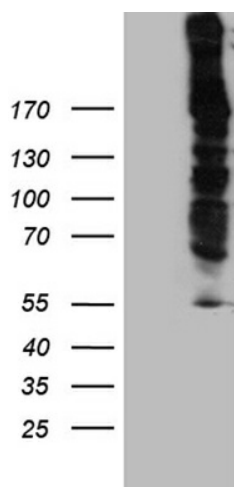
Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC)
MW: 331.6 kDa

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]

Product images:



Circular map for RC220397



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY DSP (Cat# RC220397, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-DSP rabbit polyclonal antibody (Cat# [TA890114]).