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Product datasheet for RC227424

Protocadherin 23 (DCHS2) (NM_001142553) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Protocadherin 23 (DCHS2) (NM_001142553) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Protocadherin 23
Synonyms:	CDH27; CDHJ; CDHR7; PCDH23; PCDHJ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC227424 representing NM_001142553
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCCTTGTGGGCGGAAGATGGGCGAAGGGCGTCAGCAGCGGCGGGCTCCGGTCGGGAAGCTCCTTC
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GCTCTGGCTCTTGGTGCACGTGTGGCTGTGGGCGGCCTCGGGCTCCTCTGCCCAGTTGTTCAACCTCACC
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CCTGCCAGTTGCCCACGATCCGGACGCCGGACTGTTCAGCACTCAGGGCTACACCCTGGTGCAACCGTCC
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GGCGACGCGGCCTACTTCGCGGTGGAGGAGCTGAGCGGCGTGGTGCGAGTGTGGAGACCTCTGGACCGCG
AGGCACAGGCCTGGCACCAGTTGGTGGTGGAGGCCCGCGATGGAGGCGCCGAGCCTGAGGTTGCCACGGT
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GAAATACAGGAAAAACAAAATCTTGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227424 representing NM_001142553
Red=Cloning site Green=Tags(s)

MSPCGRKMGEGRQQRRAPVGKLLLLPGRRDTPHGRSGSSGARTQRSLLWLLVHVWLWAASGSSAQLFNLT
LSVDEGLPPDTLVGDIRAGLPAAQQQEGSGFFLSEDSDDSPLLDDFHVHPDTGIIRTARRLDRERRDHYS
FVAATLLGAVVQVEIRVNDVNDHSPRFPLDSLQLDVSELSPPGTAFRLPVAHDPDAGLFSTQGYTLVQPS
DLPKDPAGPFFQLRYRTPGPLPSPLLPGSSSPLEPLDLVLLRRLDREEAAAHRLQIEAWDGGRPRRTGLL
SVELRVLDENDNPPVFEQDEYRAAVREDAQPGAEVCRVRATDRDLGPNGFVRYSVRARQVPGAGSGGGAL
GDAAYFAVEELSGVVRVWRPLDREAQAWHQLVVEARDGGAEPEVATVRVSIAVLDVNDNRPAIHVLFLTE
GGVARVSEGARPGDYVARVSVSDADGDWEKEDEATGELGVGLGDGSISLSLEGGEGDFALLPGGPPGVFF
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VSASDADEAGSDHAWLRYTVVQLSAPCNLGSLQSKMVHTAECGPSFAIDSESGAISTIRTLDREVQEAVE
LKVVAQDLGEPPLSATCLVSITVDDVNDNEPIFWRQVYNATIAEHAPVGHCFLQLISAQVAFVKIKQKQK
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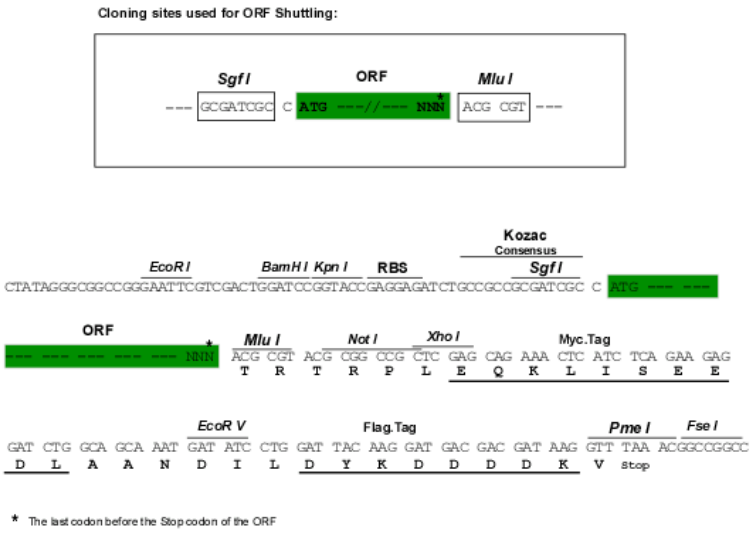
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001142553

ORF Size: 2127 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_001142553.1, NP_001136025.1

RefSeq ORF: 2130 bp

Locus ID: 54798

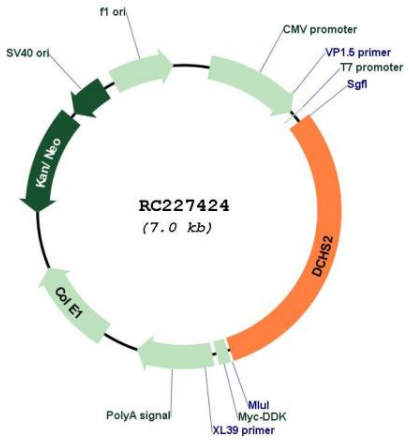
Cytogenetics: 4q31.3

Protein Families: Druggable Genome, Transmembrane

MW: 76.5 kDa

Gene Summary: This gene encodes a large protein that contains many cadherin domains and likely functions in cell adhesion. Genome-wide association studies suggest that this gene may be important in Alzheimer's disease, compressive strength index, and appendicular lean mass. [provided by RefSeq, May 2017]

Product images:



Circular map for RC227424