

Product datasheet for MR201440

Mesdc2 (BC014742) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mesdc2 (BC014742) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Mesdc2
Synonyms: 2210015O11Rik; AW537813; mesd; mKIAA0081; msd
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201440 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGACTTCTGGAGCAGTGGGAGAAAGATGATGACATAGAAGAAGGAGACCTCCAGAACACAAGA
 GACCTCAGCACCTATCGACTTCTCAAAGCTAGACCCAGGCAAACCTGAGAGCATCTTGAAAATGACAAA
 GAAAGGGAAGACTCTGATGATGTTTGTACCGTGTCTGGGAACCCACCGAGAAGGAGACAGAGGAGATC
 ACCAGCCTGTGGCAGGTAGCCTGTTCAACGCCAACTATGACGTTCAAGGTTTCATCGTGGGATCCGACC
 GCGCCATCTTCATGCTCCGGGATGGGAGCTATGCCTGGGAGATCAAGGACTTTTTGGTCAGTCAAGACCG
 GTGTGCTGAAGTCACTCTAGAGGACAGATGTATCCTGGCAAAGGAGGAGGAAGCAAGGAGAAAAATAAA
 ACAAAGCCAGAGAAGGCTAAAAAGAAGGAGGGAGATCCCAAACCGTGTCTCCAAGGAAGACAATCGAG
 CTGGGAGCAGAAGAGAAGACCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201440 protein sequence
 Red=Cloning site Green=Tags(s)
 MARLLEQWEKDDDIIEGDLPCHKRPSAPIDFSKLDPGKPESILKMTKKGKTLMMFVTVSGNPTEKETEEI
 TSLWQGSFLNANYDVQRFIVGSDRAIFMLRDGSYAWAIKDFLVSQDRCAEVTLEGQMYPGKGGGSKEKNK
 TKPEKAKKKEGDPKPRASKEDNRAGSRREDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: BC014742

ORF Size: 513 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: [BC014742](#), [AAH14742](#)

RefSeq Size: 1876 bp

RefSeq ORF: 515 bp

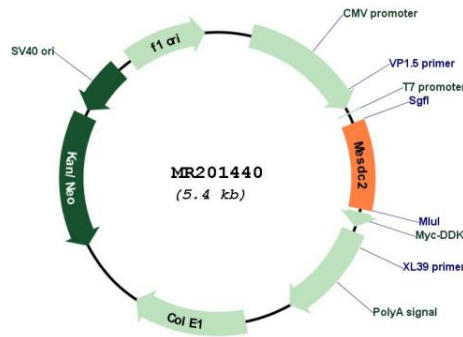
Locus ID: 67943

Cytogenetics: 7 D3

MW: 19.4 kDa

Gene Summary:

Chaperone specifically assisting the folding of beta-propeller/EGF modules within the family of low-density lipoprotein receptors (LDLRs). Acts as a modulator of the Wnt pathway through chaperoning the coreceptors of the canonical Wnt pathway, LRP5 and LRP6, to the plasma membrane. Essential for specification of embryonic polarity and mesoderm induction (PubMed:12581525). Plays an essential role in neuromuscular junction (NMJ) formation by promoting cell-surface expression of LRP4 (PubMed:24140340). May regulate phagocytosis of apoptotic retinal pigment epithelium (RPE) cells (PubMed:27184668).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR201440