

Product datasheet for **MG201985**

Dnajc5 (NM_016775) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Dnajc5 (NM_016775) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Dnajc5
Synonyms: 2610314I24Rik; AU018536; Csp
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201985 representing NM_016775
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCGACCAGAGGCAGCGCTCACTCTACTTCCGGGAATCATTATACCATGTTCTTGGACTGGACA
 AGAATGCAACCTCAGATGACATTCTAAAGTCTATCGGAAGCTGGCCCTGAAGTATCACCCCTGACAAGAA
 CCCTGACAACCCAGAGGCTGCAGACAAGTTTAAGGAGATTAACAACGCACACGCCATCCTGACAGACGCC
 ACGAAAAGAAACATTTATGACAAGTATGGCTCGCTGGGGCTCTATGTGGCGGAGCAGTTTGGGGAGGAGA
 ACGTCAACACCTACTTCTGACTCTCCAGCTGGTGGCCAAGGCGCTGTTTGTGTTGTGGCCTCCTCAC
 CTGCTGCTACTGCTGCTGCTGTTTGTGCTGTTGCTTTAACTGCTGCTGTGGGAAATGCAAGCCCAAGGCA
 CCTGAGGGTGAGGAGACAGAATTCTACGTATCCCTGAAGACTTGAGGACACAGCTGCAGTCTGATGAAA
 GGGAGGCTACAGACACCCGATCGTCATACAGCCAGCATCTGCCACAGAGACCACCCAGCTGACAGCTGA
 CTCCCACCCAGCTATCACACCGACGGGTTTCAGTAAAATTCAGGAGAGGCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201985 representing NM_016775
 Red=Cloning site Green=Tags(s)

MADQRQRSLSTSGESLYHVLGLDKNATSDILKSYRKLALKYHPDKNPDPNEAADKFKEINNAHAILTDA
 TKRNIYDKYGLGLYVAEQFGEENVNTYFVLSWWAKALFVVCGLLTCCYCCCLCCCFNCCGKCKPKA
 PEGEETEFYVSPEDLEAQLQSDEREATDTPIVIQPASATETTQLTADSHPSYHTDGFSKIQERL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

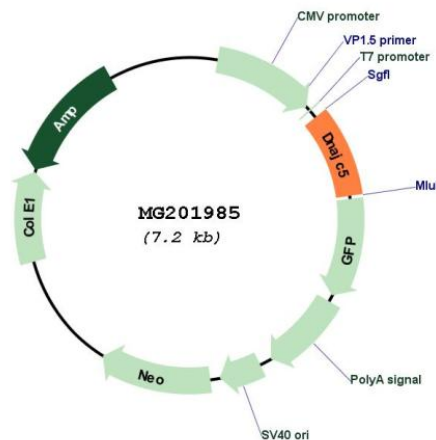


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Cloning Scheme:



Plasmid Map:



ACCN: NM_016775

ORF Size: 594 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_016775.2](#), [NP_058055.1](#)

RefSeq Size: 3674 bp

RefSeq ORF: 597 bp

Locus ID: 13002

UniProt ID: [P60904](#)

Cytogenetics: 2 103.63 cM

Gene Summary: Acts as a co-chaperone for the SNARE protein SNAP-25 (PubMed:22187053). Involved in the calcium-mediated control of a late stage of exocytosis (PubMed:20847230). Acts as a general chaperone in regulated exocytosis (By similarity). May have an important role in presynaptic function (By similarity). May be involved in calcium-dependent neurotransmitter release at nerve endings (By similarity).[UniProtKB/Swiss-Prot Function]