

Product datasheet for **MG201415**

Sdhc (NM_025321) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sdhc (NM_025321) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Sdhc
Synonyms: 0610010E03Rik; AI316496; AU019277
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201415 representing NM_025321
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCGCTCTTGCTGAGACATGTCGGCCGTCCTGCCTCCGAGCCACCTGAATGCTCAGCTTTGTA
TCAGAAATGCTGCTCCTTTGGGAACCACAGCTAAGGAGGAGATGGAGCGTTCTGGAAGAAGAACACGAG
TTCAAACCGTCTCTGTCTCCCCATTTGACTATCTACAAATGGTCTCTTCTATGGCACTGTCCGTTTG
CACCGAGGCTCTGGAATAGCCTTGAGTGGAGGGTCTCTCTTTTGGCCTGTCCGCACTGGTCTCCTG
GGAACCTTTGAGTCGTATTTGATGTTTGAAGTCCCTGTGTTTGGGCAACACTGATCTACTCGGCTAA
GTTTGTGCTTGTCTCCCGCTCATGTACCACTCACTGAATGGGATCCGACTTGTATGGACCTAGGA
AAAGGCCTGGCAATACCCAGGTCTGGTGTCTGGAGTGGCGGTCGTGGTCTTGTCTGTGTTGCTCTG
GCGGGCTGGCCGCCCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201415 representing NM_025321
Red=Cloning site Green=Tags(s)

MAALLLRHVGRHCLRAHLNAQLCIRNAAPLGTTAKEEMERFWKKNTSSNRPLSPHLTIYKWSLPMALSVC
HRGSGIALSGGVSFLFGLSALVLPNPFESYLMFVKSLCLGPTLIYSAKFVLFVPLMYHSLNGIRHLLWDLG
KGLAIPQVWLSGVAVVVLAVLSSGGLAAL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

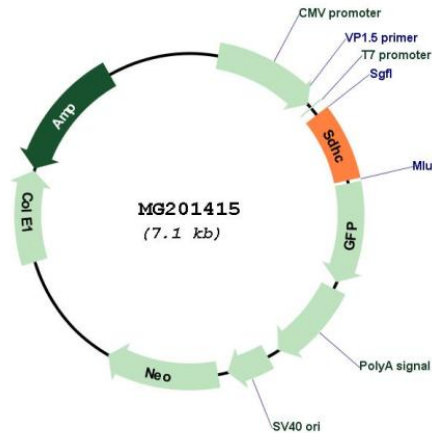


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Cloning Scheme:



Plasmid Map:



ACCN: NM_025321

ORF Size: 507 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:	<ol style="list-style-type: none">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:	<u>NM_025321.1</u> , <u>NP_079597.1</u>
RefSeq Size:	1173 bp
RefSeq ORF:	510 bp
Locus ID:	66052
UniProt ID:	<u>Q9CZB0</u>
Cytogenetics:	1 H3
Gene Summary:	Membrane-anchoring subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).[UniProtKB/Swiss-Prot Function]