

Product datasheet for **MG202692**

Chchd3 (BC021941) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chchd3 (BC021941) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chchd3
Synonyms:	0610041L09Rik; 1700039J09Rik; AW558177
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG202692 representing BC021941 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGGGACCGCTAGCACCCCGGGTCACCTTCGAGGCGGACGAGAACGAGAACATCACCGTGGTGA
AGGGCATCCGGCTTTCAGAAAATGTGATCGACCGGATGAAGGAGTCTCTCCATCTGGCTCTAAGTCTCA
GCGATATCCAGCGTTTATGGTGCTTCAGTTTCTGATGAAGATTTGAAAAGAAGAGTAGCTGAGGAGCTG
GCATTGGAGCAAGCCAAAAGGAGTCAGAACACCAGAGACGCCTTAAGCAAGCAAGGGACCTAGAAAAG
AAAGGGCTGCAGCCAATGAGCAGCTGACCAGAGCTGTCTTCGGGAAAGAATATCCAGTGAAGAGGAGCG
CATGAAGGCAAGCATCTGGCTCGGCAGCTGGAAGAGAAAAGACCGAGTGTGCGGAAGCAGGATGCATTC
TACAAAGAGCAGCTGGCCAGACTGGAGGAGAGGAGCTCAGAGTTCTACAAAGTCACCACCGAGGAGTATC
AGAAAGCTGCTGAAGAGGTGGAAGCCAAGTTCAAGCGGTATGAATATCATCCAGTCTGTGCAGATCTGCA
GACCAAAATCCTCCAGTGTACCCTGTCAGAACACCAGCAGACTCTCAGCTGCTCTGCTCTGGCTAGCCAA
TACATGCACTGTGTCAACCATGCCAAACAGAGCATGCTGGAGAAGGGAGGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202692 representing BC021941
Red=Cloning site Green=Tags(s)

MGGTASTRRVTFEADENENITVVKGIRLSENVIDRMKESSPSGSKSQRYSSVYGASVSDEDLKRRVAEEL
 ALEQAKKESEHQRRKQARDLERERAAAANEQL TRAVLRERISSEERMKAKHLARQLEEKDRVMRKQDAF
 YKEQLARLEERSSEFYKVTTEEYQKAAEEVEAKFKRYEYHPVCADLQTKILQCYRQNTQQTLSCSALASQ
 YMHCNVNHAQSMLEKGG

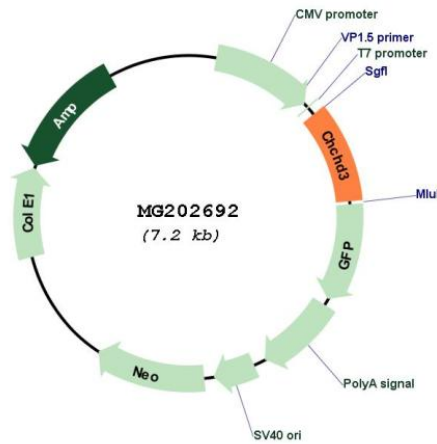
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC021941

ORF Size: 683 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:	BC021941 , AAH21941
RefSeq Size:	1084 bp
RefSeq ORF:	683 bp
Locus ID:	66075
Cytogenetics:	6 A3.3
Gene Summary:	Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane. Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription. Plays an important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology.[UniProtKB/Swiss-Prot Function]