

Product datasheet for **MG204801**

Ech1 (NM_016772) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ech1 (NM_016772) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ech1
Synonyms:	AA617331
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204801 representing NM_016772 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTACCGCGATGACAGTTTCCAGTAACTCCGCGGCCTGCTGATGCAGCAGCTGAGAGGTACCAGCC
AGCTGTACTTCAACATCAGCCTTCGATCTCTGAGCTCCTCTGCACAAGAGGCCTCAAGAGAGCCCCGA
GGAAGTCTCAGACCACAACTATGAGTCTATTCAAGTCACAAGTGGCCAGAAGCATGTTCTCCACGTGCAG
CTAAACCGGCCAGAGAAGAGGAATGCCATGAACAGGGCTTCTGGAGGGAGTTGGTGAATGCTTCCAAA
AGATATCCAAAGACTCGGACTGCCGGGCTGTTGTAGTCTCCGGTGCAGGAAAGATGTTCACTTCAGGTAT
TGACCTCATGGACATGGCCTCCGAACATGCAGCCCTCAGGAGATGATGCGGCCCGCATAGCCTGGTAC
CTCCGTGACCTCATCAGCAAGTACCAGAAGACCTTCACTGTCAATTGAGAAGTGCCCAAGCCAGTGATTG
CTGCCATTCACGGAGGCTGCATTGGCGGAGGTGTGGACCTCGTTTCTGCCTGTGACATTCGCTACTGCAC
TCAGGATGCTTTTTTCCAGATCAAGGAGGTAGATATGGGCTTGGCTGCTGATGTAGGAACACTGCAGAGA
CTGCCAAGGTCATCGGGAACCAGAGCCTGGTCAACGAGCTGACCTTCTTGCCCGCAAGATGATGGCTG
ACGAGGCCCTGGACAGTGGGCTGGTCAGCCGCGTGTCCAAGATAAGGACGCCATGCTGAATGCAGCCTT
TGCCCTGGCGGCTGATATTTCCAGCAAGAGCCCTGTGGCTGTGCAGGGGTCAAAAATCAATCTCATCTAC
TCCCGAGACCATCTGTGGACGAGAGCCTTGACTACATGGCCACCTGGAACATGAGCATGCTGCAGACCC
AGGACATCATCAATCAGTCCAGGCAGCCATGGAGAAGAGGGACAAAAAGCATCACCTTCTCCAAGCT
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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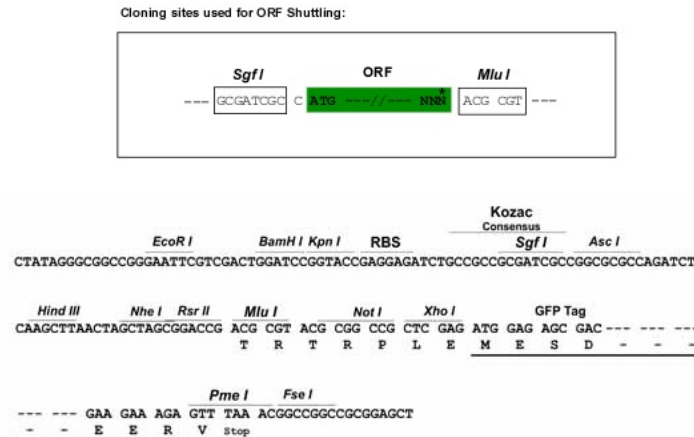
Protein Sequence: >MG204801 representing NM_016772
 Red=Cloning site Green=Tags(s)

MATAMTVSSKLRGLLMQQLRGTSQLYFNISLRLSSSAQEASKRAPEEVSDHNYESIQVTSQKHVLHVQ
 LNRPEKRNAMNRAFWRELVECFQKISKSDSCRAVVVSGAGKMFTSGIDLMDASELMQPSGDDAARIWY
 LRDLSKYQKTFTVIEKCPKPVIAAIHGGCIGGVVDLVSACDIRYCTQDAFFQIKEVDMGLAADVGTQR
 LPKVIGNQSLVNETFSARKMMADEALDSGLVSRVFQDKDAMLNAAFALAADISSKSPVAVQGSKINLIY
 SRDHSVDES LDYMATWNMSMLQTQDIKSVQAAMEKRDTKSITFSKL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016772

ORF Size: 981 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_016772.1](#), [NP_058052.1](#)

RefSeq Size: 1138 bp

RefSeq ORF: 984 bp

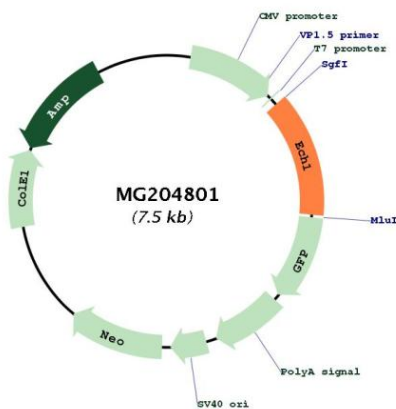
Locus ID: 51798

UniProt ID: [O35459](#)

Cytogenetics: 7 B1

Gene Summary: Isomerization of 3-trans,5-cis-dienoyl-CoA to 2-trans,4-trans-dienoyl-CoA.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204801