

Product datasheet for **MG203962**

Echs1 (NM_053119) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Echs1 (NM_053119) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Echs1
Synonyms:	C80529
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203962 representing NM_053119 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTGCGTGCTCTGCTGCCAGAGCCTGTAGCTCACTGTTGTCCCTCAGTCCGCTGCCAGAAC
TACGGCGCTTCGCTCGGGTGCTAACTTTCAGTACATCATCACAGAAAAGAAAGAAAGAATAGCAGCGT
GGGGCTGATCCAGTTGAACCGCCCCAAAGCACTCAATGCACTTTGCAATGGCCTGATTGAGGAGCTCAAC
CAAGCACTGGAGACCTTTGAGCAAGATCCTGCTGTGGGTGCCATTGTGCTCACTGGTGGGATAAGGCCT
TTGCAGCTGGAGCTGACATCAAGGAAATGCAGAACCGAACATTTTCAGGACTGTTACTCCAGCAAGTTCCT
GAGCCACTGGGACCACATCACCCGGTCAAGAAACCGGTATCGCAGCTGTCAATGGTTATGCTCTTGTT
GGGGTTGTGAACCTTGCCATGATGTGTGATATCATCTATGCTGGCGAGAAAGCCAGTTCGGACAGCCAG
AAATCCTCCTGGGGACCATCCCACGTGCTGGAGGCACTCAGAGACTCACCCGAGCAGTCGGCAAATCGCT
AGCAATGGAGATGGTCTCACTGGTGACCGCATCTCAGCTCAGGATGCAAAGCAGGCAGGCTTTGTAAGC
AAGATTTTCTGTTGAAAACTGGTTGAAGAAGCCATCCAATGTGCAGAAAAAATTGCCAGCAATTCTA
AAATCGTAGTAGCCATGGCGAAAGAATCTGTGAATGCAGCCTTTGAGATGACGTTAACAGAAGGAAATAA
GCTGGAGAAGAGGCTTTTCTATTCCACCTTTGCCACCGATGACCCGAGAGAAGGGATGACTGCATTTGTA
GAGAAAAGGAAGGCAACTTCAAAGACCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203962 representing NM_053119
Red=Cloning site Green=Tags(s)

MAALRALLPRACSSLLSSVRCPELRRFASGANFQYIITEKKGKNSVGLIQLNRPKALNALCNGLIEELN
 QALETFEQDPVAGAIVL TGGDKAFAAGADIKEMQNRTFQDCYSSKFLSHWDHITRVKKPVIAAVNGYALG
 GGCELAMMCDIIYAGEKAQFGQPEILLGTIPRAGGTQRLTRAVGKSLAMEMVLTGDRI SAQDAKQAGLVS
 KIFPVEKLVEEAIQCAEKIASNSKIVVAMAKESVNAAFEMTLTEGNKLEKRLFYSTFATDDRRREGMTAFV
 EKRRKANFKDH

TRTRPLE - GFP Tag - V

Restriction Sites:

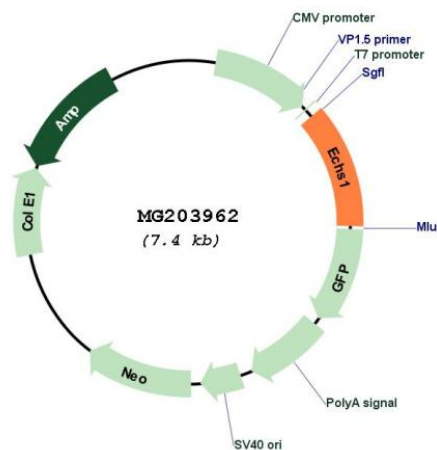
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_053119

ORF Size: 870 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:	NM_053119.1 , NP_444349.1
RefSeq Size:	1492 bp
RefSeq ORF:	873 bp
Locus ID:	93747
UniProt ID:	Q8BH95
Cytogenetics:	7 F4
Gene Summary:	Straight-chain enoyl-CoA thioesters from C4 up to at least C16 are processed, although with decreasing catalytic rate (By similarity). Has high substrate specificity for crotonyl-CoA and moderate specificity for acryloyl-CoA, 3-methylcrotonyl-CoA and methacrylyl-CoA. It is noteworthy that binds tiglyl-CoA, but hydrates only a small amount of this substrate (By similarity).[UniProtKB/Swiss-Prot Function]