

Product datasheet for MR203962

Echs1 (NM_053119) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Echs1 (NM_053119) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Echs1
Synonyms:	C80529
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203962 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCCTGCGTGCTCTGCTGCCAGAGCCTGTAGCTCACTGTTGTCCTCAGTCCGCTGCCAGAAC
TACGGCGCTTCGCTCGGGTGCTAACTTTCAGTACATCATCACAGAAAAGAAAGAAAGAATAGCAGCGT
GGGGCTGATCCAGTTGAACCGCCCAAAGCACTCAATGCACTTTGCAATGGCCTGATTGAGGAGCTCAAC
CAAGCACTGGAGACCTTTGAGCAAGATCCTGCTGTGGGTGCCATTGTGCTCACTGGTGGGATAAGGCCT
TTGCAGCTGGAGCTGACATCAAGGAAATGCAGAACCGAACATTTTCAGGACTGTTACTCCAGCAAGTTCCT
GAGCCACTGGGACCACATCACCCGGTCAAGAAACCGGTATCGCAGCTGTCAATGGTTATGCTCTTGTT
GGGGTTGTGAACCTTGCCATGATGTGTGATATCATCTATGCTGGCGAGAAAGCCAGTTCGGACAGCCAG
AAATCCTCCTGGGGACCATCCCACGTGCTGGAGGCACTCAGAGACTCACCCGAGCAGTCGGCAAATCGCT
AGCAATGGAGATGGTCTCACTGGTGACCGCATCTCAGCTCAGGATGCAAAGCAGGCAGGCTTTGTAAGC
AAGATTTTCTGTTGAAAACTGGTTGAAGAAGCCATCCAATGTGCAGAAAAAATTGCCAGCAATTCTA
AAATCGTAGTAGCCATGGCGAAAGAATCTGTGAATGCAGCCTTTGAGATGACGTTAACAGAAGGAAATAA
GCTGGAGAAGAGGCTTTTCTATTCCACCTTTGCCACCGATGACCCGAGAGAAGGGATGACTGCATTTGTA
GAGAAAAGGAAGGCCAACTTCAAAGACCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203962 protein sequence
Red=Cloning site Green=Tags(s)

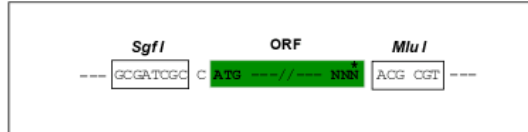
MAALRALLPRACSSLLSSVRCPELRRFASGANFQYIITEKKGKNSVGLIQLNRPKALNALCNGLIEELN
 QALETTEQDPAVGAIVL TGGDKAFAAGADIKEMQNRTFQDCYSSKFLSHWDHITRVKPPVIAAVNGYALG
 GGCELAMMCDIIYAGEKAQFGQPEILLGTIPRAGGTQRL TRAVGKSLAMEMVL TGDRISAQDAKQAGLVS
 KIFPVEKLVEEAIQCAEKIASNSKIVVAMAKESVNAAFEMTLTEGNKLEKRLFYSTFATDDRREGMTAFV
 EKRRKANFKDH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_053119

ORF Size: 873 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_053119.1](#), [NM_053119.2](#), [NP_444349.1](#)

RefSeq Size: 1491 bp

RefSeq ORF: 873 bp

Locus ID: 93747

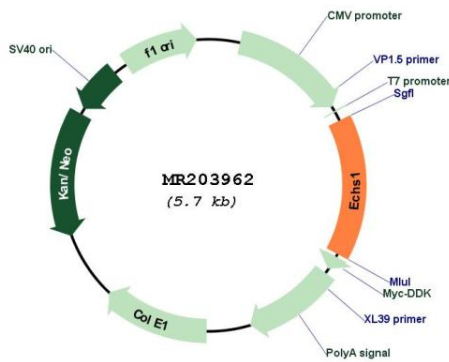
UniProt ID: [Q8BH95](#)

Cytogenetics: 7 F4

MW: 31.6 kDa

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]

Product images:



Circular map for MR203962