

Product datasheet for MR231792

Edc4 (NM_001301100) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Edc4 (NM_001301100) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: Edc4
 Synonyms: BC022641
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 ORF Nucleotide Sequence: >MR231792 representing NM_001301100
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCTCCTGCGGAGCATCGACATTGAGGACGCCACGCAGCATCTGCGGGACATACTCAAACCTGGACC
 GGCCCGCGGAGTTCCAATGCCGAAAGCCAAAGGCCATCCAGTGCCATAATGGAGACCTCAATGGCT
 CCTGGTCCCCGACCCGCTCAGTTCAGGTGATGGTAACTCAACGAACAACTGGTATACGGACCATGCCA
 CCCATTAACTGCAGGAAAAGCAGGTCAATTCCTCTCTGGAGATGACAGCTCCACCTGCATTGGGATTT
 TAGCCAAGGAAGTGGAAATTGTGGCCAGCAGTGATTCTAGCATTTCAGCAAGGCTCGGGGGAGCAACA
 GGTGAAAATCCAGCCTGTCGCAAGTATGACTGGGAGCAGAAATACTACTATGGCAACCTGATTGCAGTG
 TCTAACTCCTTCTGGCATACGCCATTAGGGCTGCCAACAATGGCTCAGCAATGGTCCGTGTGATCAGTG
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 GGTAATAATCAAGAAGAGATTTAGTCCATATCCGGCAGCCAGAGGGTACAGCGCTGAACCATCCGAA
 GGATCATCTGGTCCCTTTCATCCCCGAGGAGAGTGAGGACTGTTGTGAGGAGAGCAGCCGACATGGCC
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 CTCCTGTTCTGTGATAACCATAAGAAACAGGATCCTGAGGTCCCCTTCTGGAGGTTCTCATAACCGGCG
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 CAGTCGCTGCCGCTACGGCACACTGAGGTCTGCCTGCTGAGGAGGAGAATGACAGTCTGGGGACCGAG
 AGTTCCATGGAGCTGGAGCCTTGAATCCGCAGCTGGTGTGCTTATCAAGCTCTTTTGTGTGCACACTA



AGGCACTACAAGATGTGCAGATCCGCTTCCAGCCACAGCTGAACCCTGATGTGGTGGCCCCACTCTCTAC
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AGGCCTTCCAGCAGGCACTGACTGCTGCTGATCTCAATCTGGTGTGATGTGTGTGAAACTGTGCGACCC
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CCTGCAGGCTGATCCACACAACCTCACTTAGCAAAGCTGCCCGCCCTCAGCCTAATGTTACACGGCCTT
GTGACCCCTAGCCTCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR231792 representing NM_001301100
 Red=Cloning site Green=Tags(s)

MASCASIDIEDATQHRLDILKLRDPAGGSNAESQRPSSAYNGDLNGLLVPDPLSSGDGNSTNKPGRITMP
 PINLQEKQVICLSGDDSSSTCIGILAKEVEIVASSDSSISSKARGSNKVKIQPVAKYDWEQKYYYGNLIAV
 SNSFLAYAIRAANNGSAMVRVISVSTERTLLKGFTGSVADLAF AHLNSPQLACLDEAGNLFVWRALVK
 GKIQEEILVHIRQPEGTALNHFRRIIWCPFIP EEESEDCCEESSPTVALLHEDRAEVWDLMLRSSHNTWP
 VDVSQIKQGFIVVKGHSTCLSEGALSPDGTVLATASHDGFVKFWQIYIEGQDEPRCLHEWKPHDGRPLSC
 LLFCDNHKKQDPEVPFWRFLITGADQNRELKMWCTVSWTCLQTIRFSPDIFSSVSVPSSLKVCCLDL SAEY
 LILSDVQRKVLVYMELLQNQDEGRACFSSISEFLLTHPVL SFGIQVSRCLRHRTEVLP AE EENDSLGTE
 SSHGAGALESAAGVLIKLFCVHTKALQDVQIRFPQLNPDVVAPLSTHTAHEDFTFGESRPELGSEGLAS
 AAHGSQPDLRRIVELPAPADFLS SSETKPKLMPDAFMTPTASLQQISAPSSSSSSSSSSSSSSSSSSSS
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 PGQVSTAASALSLDLQEVEPLGLPQASPSRTRSPDVISSASTALSQDIPEIASEALSRGFGSSVPEGLIE
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 ETCSTLTESPRNGLQEKHKSLAFHRPPYHLLQQRDSQDTSAEQSDHDDEVASLASASGGFGSKIPTPRLP
 SKDWKTKGSPRTSPKLRKSKKDDGDSAVGSRLETHQVAEPPEDWPALIWQQRELAELWHNQEELLQRL
 CAQLEGLQSTVTDHVERALETRHEQEQRRLERALEGQQRGGQLQEQLTQQLSQUALSSAVAGRLERSVRD
 EIKKTVPVCVSRSLPEPVAGQLSNSVATKLTAVEGSMKENISKLLKSKNLTDAIARAAADTLQGPMQAAYR
 EAFQSVVLP AFEKSCQAMFQQINDSFRLGTQEYLQQLESHMKS RKAREQEAREPVL AQLRGLVSTLQSAT
 EQMAATVSSSVRAEVQHQLHVAVGSLQESILAQVQRIVKGEVSVALKEQQATVTS SIMQAMRSAAGTPVP
 SAHLDCQAQQAHLQLLQQGHLNQAFQQALTAADLNLVLYVCETVDP AQVFGQPPCPLSQPVLLSLIQQL
 ASDLGT RSDLKL SYLEAVMHL DSDPI TRDHMG SVMAQVRQKLFQFLQADPHNSLSKAARRLSMLHGL
 VTPSLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

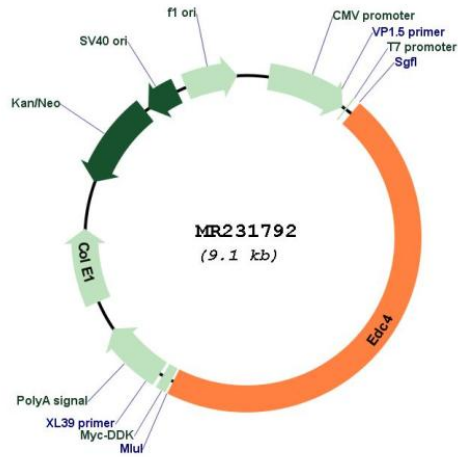
Sgfi-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001301100

ORF Size: 4218 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_001301100.1](#), [NP_001288029.1](#)

RefSeq Size: 4803 bp

RefSeq ORF: 4221 bp

Locus ID: 234699

UniProt ID: [Q3UJB9](#)

Cytogenetics: 8 D3

MW: 152.9 kDa

Gene Summary: The protein encoded by this gene is thought to promote mRNA decay, and is known to interact with several mRNA decapping proteins. In humans, decreased expression of this gene prevents the accumulation of mRNA decapping proteins to mRNA processing bodies (P-body). Alternative splicing results in multiple protein isoforms. [provided by RefSeq, Jul 2014]