

Product datasheet for **RG200030**

MECR (NM_001024732) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MECR (NM_001024732) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MECR
Synonyms:	CGI-63; DYTOABG; ETR1; FASN2B; NRBF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200030 representing NM_001024732 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGGTCTGCAGTACCCTGTGGCGGGTGCAGACCCCGCCCGGCAGTGGCGGGGGTCTCCAGCTT
CTGGCTGTACGGACCTGCCCTCCTCTACTCCGCATCCGCCGAGCCTGCCCGGGTCCGGGCGTTGT
CTATGGGCACCACGGGGATCCAGCCAAGGTCGTCGAACCAAGAACCTGGAGCTAGCTGCTGTGAGAGGA
TCAGATGTCGGTGAAGATGCTGGCGGCCCTATCAATCCATCTGACATAAATATGATCCAAGGAACT
ACGGACTCCTTCCTGAAGTGCCTGCTGTTGGAGGGAACGAAGGTGTTGCACAGGTGGTAGCGGTGGGCAG
CAATGTGACCGGGCTGAAGCCAGGAGACTGGGTGATTCCAGCAAATGCTGGTTTAGGAACCTGGCGGACC
GAGGCTGTGTTACGCGAGGAAGCACTGATCCAAGTTCGAGTGACATCCCTCTTCAGAGCGCTGCCACCC
TGGGTGTCAATCCCTGCACAGCCTACAGGATGTTGATGGACTTCGAGCAACTGCAGCCAGGGGATTCTGT
CATCCAGAATGCATCCAACAGCGGAGTGGGGCAAGCGGTATCCAGATCGCCGACGCCCTGGGCCTAAGA
ACCATCAATGTGGTCCGAGACAGACCTGATATCCAGAAGCTGAGTGACAGACTGAAGAGTCTGGGGGCTG
AGCATGTCATCACAGAAGAGGAGCTAAGAAGGCCCGAAATGAAAACTTCTTTAAGGACATGCCCCAGCC
ACGGCTTGCTCTCAACTGTGTTGGTGGGAAAAGCTCCACAGAGCTGCTGCGGCAGTTAGCGCGTGGAGGA
ACCATGGTAACCTATGGGGGATGGCCAAGCAGCCCGTCTGAGCCTCTGTGAGCCTGCTCATTTTAAGG
ATCTCAAACCTTCGAGGCTTTTGGTTGTCCAGTGGGAAGAAGGATCACAGTCCAGACCAGTTCAAGGAGCT
GATCCTCACACTGTGCGATCTATCCGCCGAGGCCAGCTCACAGCCCTGCCTGCTCCAGGTCCCGCTG
CAGGACTACCAGTCTGCCTTGGAAAGCCTCCATGAAGCCCTTCATATCTTCAAAGCAGATTCTCACCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200030 representing NM_001024732
 Red=Cloning site Green=Tags(s)

MWVCSTLWRVRTPARQWRGLLPASGCHGPAASSYSASAEPARVRALVYGHGDPKVVVELKNLELAAVRG
 SDVRVKMLAAPINPSDINMIQGNVYGLLPELPAVGGNEGVAQVVAVGSNVTGLKPGDWWIPANAGLTWRT
 EAVFSEEALIQVPSDIPLQSAATLGVNPTAYRMLMDFEQLQPGDSVIQNASNSGVGQAVIQIAAALGLR
 TINVVRDRPDIQKLSDRLKSLGAEHVITEEELRRPEMKNFFKDMPPQRLALNCVGGKSSTELLRQLARGG
 TMVTYGGMAKQPVVASVLLIFKDLKLRGFWLSQWKKDHSPDQFKELILTLCDLIRRQLTAPACSQVPL
 QDYQSALEASMKPFISSKQILTM

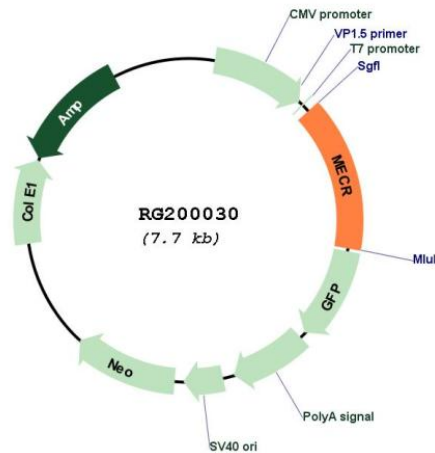
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001024732

ORF Size:	1122 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_001024732.1 , NP_001019903.1
RefSeq Size:	2666 bp
RefSeq ORF:	894 bp
Locus ID:	51102
UniProt ID:	Q9BV79
Cytogenetics:	1p35.3
Protein Families:	Druggable Genome
Protein Pathways:	Fatty acid elongation in mitochondria, Metabolic pathways
Gene Summary:	The protein encoded by this gene is an oxidoreductase that catalyzes the last step in mitochondrial fatty acid synthesis. Defects in this gene are a cause of childhood-onset dystonia and optic atrophy. [provided by RefSeq, Mar 2017]