

## Product datasheet for **MG209410**

### Crot (NM\_023733) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Crot (NM_023733) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Crot
Synonyms:	1200003H03Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209410 representing NM\_023733  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAAATCAATTGACTAAATCAGTTGAAGAACGGACATTTTCAGTACCAGGACTCTCTCCGTCATTGC  
 CTGTTCCCTGCACTTGAAGAATCATTAAAAAATACCTTGAATCAGTGAAACCATTCGCAATGAAGACGA  
 GTATAAGAAAACGAAGAATAGTTCAAAAAGTTTCAAGAAGGAGCTGGCAAAAGATTGCATCAGAAGTTA  
 CTTGAAAGGGCTAGAGGAAAACGAACTGGCTGGAAGAATGGTGGCTCAATGTTGCCTACCTGGACGTAC  
 GTATCCATCACAACGAATGTGAACCTTGTGGGTCCTGTCCTATTTGAGCACTACTGGCCTGCAAG  
 GGAAGGCACTCAGTTAGAAGAGGAAGCATGATGCTGTGGCACAACCTGAACTACTGGCAGCTGCTAAGA  
 AGAGAAAAATTGCCTGTACATAAATCTGGAATACTCCTCTAGACATGAACCAATCCGAATGTTGTTTT  
 CTACCTGCAAGGTTCCAGGAATTACTAGAGATTCGATTATGAATTATTTAAGACTGAGAGTGAAGGGCA  
 TTGTCCAACCCACATTGCCGTGCTGTGTCGAGGCAGAGCGTTTGTCTTTGATGTACTACATGAGGGATGT  
 TTGATCACCCACCAGAACTTCTCAGACAATTGACATATATCCACAAGAAGTGTCTGAACGAACCTGTTG  
 GACCCAGTATAGCGGCATTAACAGCGAGGAGCGAACTCGGTGGGCAAAGGCAAGAGAATATCTGATTAG  
 TCTTGATCCAGAGAACTTGACTTTATTAGAAAAAATCAAACAGTTTATTTGTGTATTCCATAGAAGAT  
 AGCAGTCCACATGCAACCCAGAAGAATATTCTCAGGTCTTTGAAATGCTTCTTGGTGGAGATCCATCAG  
 TACGCTGGGGTGACAAGTCTATAATTTGATTTCTTTGCTAATGGAATATTTGGCTGTTGCTGTGATCA  
 TGCTCCTTACGATGCAATGGTCATGGTGAACATTGCACATTATGTTGATGAGAGAGTCTAGAGACAGAA  
 GGAAGATGGAAGGGTTCAGAAAAAGTCCGGGACATACCATTGCCAGAGGAGCTGGTCTTCACTGTGGATG  
 AGAAAAACTGAATGATGTATCCCAAGCCAAAGCCCAACATCTCAAAGCTGCGTCAGATGCAGATAGC  
 AGCATCTACCTTACATCTTTTGGCAAAAAGCTCACCAGGAGGAAGCCCTTACCCTGATACCTTTATT  
 CAGCTCGCTCTTTCAGCTTGCCTACTACAGACTTATGGACGCCCTGGTTGCTGCTATGAGACAGCTATGA  
 CAAGATACTTTTACCACGGCCGAACAGAGACTGTGCGATCTTGTACAGTGGAGGCCGTCAGGTGGTGCCA  
 GTCCATGCAGGATCCCTCTGCTAGTCTCCTTGAACGTCAGCAAAAGATGCTAGAAGCTTTTGCCAAGCAT  
 AATAAGATGATGAAAGATTGTTACATGGAAGGATTTGACCGTCACCTTTTAGGTCTTTTGTCTATAG  
 CAAAAGAGGAAGGTCTCCCTGTTCCAGAACTATTTGAGGACCCACTTTTCTCCAGAAGTGGAGGAGGTGG  
 AAATTTTGTGCTCTCAACAAGTTTGGTTGGTACTTACGAGTTCAGGGTGTGTGGTTCCCATGGTACAC  
 AATGGATATGGATTTTTCTACCACATCAGAGATGACAGGTTTGTGGTGGCATGTTTCATCCTGGAGGTCAT  
 GTCCGGAGACTGATGCTGAAAAGCTTGTTCAGATGATTTTTCATGCTTTCCACGATATGATACAGCTGAT  
 GAACACCGCTCATCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209410 representing NM\_023733  
 Red=Cloning site Green=Tags(s)

MENQLTKSVEERTFQYQDSLPSLPVPALEESLKKYLESVKPFANEDEYKKTEEIVQKFQEGAGKRLHQKL  
 LERARGKRNWLEEWLNVAYLDVRIPSQNLNVNFGPCPHFEHYWPAREGTQLERGSMMMLWHNLNYWQLLR  
 REKLPVHKSGNTPLDMNQFRMLFSTCKVPGITRDSIMNYFKTESEGHCPHTHIAVLCRGRAVFVDLHEGC  
 LITPPELLRQLTYIHKKCSNEPVGPSIAALTSEERTRWAKAREYLISLDPENLTLLEKIQTSLFVYSIED  
 SSPHATPEEYSQVFEMLLGGDPSVRWGDKSYNLISFANGIFGCCDHAPYDAMVMVNI AHYVDERVLETE  
 GRWKGSEKVRDIPLPEELVFTVDEKILNDVYQAKAQHLKAASDLQIAASTFTSFGKLTKEALHPDFTFI  
 QLALQLAYYRLHGRPGCCYETAMTRYFYHGRTEIVRSCTVEAVRWQSMQDPSASLLERQKMLEAFKHK  
 NKMMKDCSHGKGFDRHLLGLLLIAKEEGLPVPELFFEDPLFSRSGGGNFVLSLSTLVGYLRVQGVVPMVH  
 NGYGFYHIRDDRFFVACSSWRSCPETADEKLVQMIHFHAFHDMIQLMNTAHL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

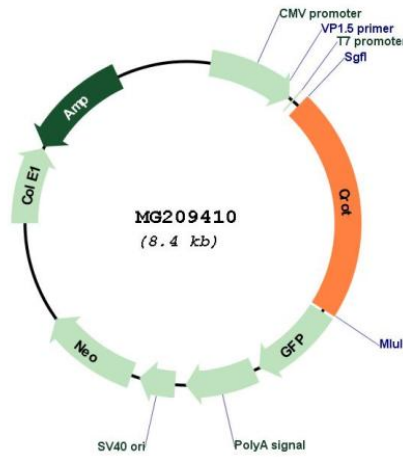
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM\_023733  
 ORF Size: 1836 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_023733.3</a> , <a href="#">NP_076222.1</a>
<b>RefSeq Size:</b>	2803 bp
<b>RefSeq ORF:</b>	1839 bp
<b>Locus ID:</b>	74114
<b>UniProt ID:</b>	<a href="#">Q9DC50</a>
<b>Cytogenetics:</b>	5 A1
<b>Gene Summary:</b>	Beta-oxidation of fatty acids. The highest activity concerns the C6 to C10 chain length substrate.[UniProtKB/Swiss-Prot Function]