

Product datasheet for **MG209780**

Exoc7 (BC028927) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exoc7 (BC028927) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Exoc7
Synonyms:	sec70, 70kDa
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209780 representing BC028927
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCCCCGCAGGAGGCTTCCGCCCGCGGGGAGATCGAGGACAACTGAAGCAGGAGGAGAGA
 CACTGTGCTTTATTTCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAGGAACATGGTGTCCATCCTGTC
 GTCCTTTGAGAGCCGACTCATGAAGCTGGAGAACTCTATCATCCCTGTGACAAGCAGACAGAGAACCTA
 CAGAGGCTGCAGGAGAACGTGGAGAAGACGTTATCCTGCCTGGACCACGTTATCAGCTACTACCAGTAG
 CCAGCGACACGGAGAAGATCATCCGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGTATGGC
 CAAAATCCAGAAGGCTGTGGAGTATTTTCAGGACAATAGCCCAGACAGCCAGAACTCAACAAAGTGAAG
 CTGCTGTTTGAGCGAGGGAAGGAGTCCCTGGAGTCGGAGTTCGCGAGTCTGATGACCCGGCAGCAAGG
 TGGTCTCCCCCGTCTCCTCTGGACCTCATCAGTCTGATGACGAGCTGGAGGTCAGGAGGATGTGGT
 CCTGGAGCACCTGCCCGAGAGCGTCTCAGAGACGTGGTCCGCATCTCCCGCTGGCTGGTGAATATGGT
 CGGAACCAAGACTTCATGAATGTCTACTACCAGATCCGCTCCAGCCAGCTGGACCCTCCATCAAGGGTC
 TGAAGGAGCATTTTCGAAAAGCAGTTCCTCTTCTGGGGTTCCCTACTCCCCCGCATCCCCAATAAGAG
 GAAAGACACGCCACCAAGAAGCCATCAAGCGGCCAGGGAGAGACGACATGCTGGACGTGGAGACGGAC
 GCCTACATTCAGTGCCTCAGCGCCTTCGTAAGCTGGCGCAGAGTGAATACCGGCTGCTGATGGAGATCA
 TCCCTGAGCATCACCAGAAGAAAACCTTGGACTCCTTGATACAGGATGCCTGGACGGGCTGATGCTTGA
 AGGGGAGAACATCGTGTCTGTGCCAGGAAAGCCATCATCCGCCATGACTTCTCCACAGTCTCACCGTC
 TTCCCCATCCTGCGGCACCTCAAGCAGACCAAGCCGAGTTTGACCAGGTGCTCCAGGGCAGCAGCCCA
 GCACCAAGAACAAGCTGCCCGCCTCATCACCTCCATGGAGACCATTGGGGCCAAAGCTCTAGAAGACTT
 TGCTGATAACATCAAGAATGATCCAGACAAGGAATACAACATGCCTAAAGACGGCACTGTTTCATGAGCTC
 ACAAGCAATGCCATCCTGTTCTACAGCAGCTTCTGGACTTCCAGGAGACAGCAGGTGCCATGCTGGCCT
 CCCAAGAAACCAGTTCTTCGGCCACCAGCTACAGCTCCGAGTTCAGCAAGCGGCTGCTGAGCACCTACAT
 CTGCAAAGTCTTGGGTAACCTGCAGCTGAACCTTACTAAGCAAGTCCAAGGTGTACGAGGATCCAGCGCTG
 AGCGCCATCTTCCTACACAACAATAAATTACATCCTCAAGTCCCTGGAGAAGTCTGAGCTGATCCAGC
 TGGTGGCTGTAAACCAGAAGACTGCCGAGCGCTCCTACCGGGAGCACATCGAGCAGCAGATCCAGACCTA
 CCAGCGCAGCTGGCTAAAGGTGACTGACTACATCGCAGAGAAGAACCTACCTGTGTTCCAGCCTGGAGTC
 AAGCTCCGGGACAAAGAGCGGCAGATGATTAAGGAACGTTTCAAGGGATTCAATGATGGACTCGAAGAGC
 TGTGCAAGATTGAGAAGTCTGGGCTATTCCAGACACAGAGCAGAGAGACAAGATTGACAGGCTCAGAA
 AGACATTGTCAAGGAGACCTACGGGGCCTTTCTGCACAGGTATGGCAGCGTGCCTTCCACAAAAACCCG
 GAGAAATACATCAAGTACCGCGTGGAGCAGGTGGGAGACATGATCGATCGCCTTTTCGACACCTCTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209780 representing BC028927
 Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLGQEEETLSFIRDSLEKSDQLTRNMVSISSSFESRLMKLENSIIPVHKQTENL
 QRLQENVEKTLSCLDHVISYHVASDTEKIIIREGPTGRLEEYLGSMKIQKAVEYFQDNSPDPELNKVK
 LLFERGKESLESEFRSLMTRHRSKVVSPVLLLDLISADDELEVQEDVVLEHLPESVLRDVRISRWLVEYG
 RNQDFMNVVYQIRSSQLDRSIRKGLKEHFRKSSSSGVPYSPAIPNKRKDTPTKKPIKRPGRDDMLDVETD
 AYIHCVSFAVVKLAQSEYRLLMEIIPHHQKKTFDLSLIQDALDGLMLEGENIVSAARKAIIRHDFSTVLT
 FPILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNDPKEYNMPKDGTVHEL
 TSNAILFLQQLDFQETAGAMLASQETSSSATSYSSEFSKRLSTYICKVLGNLQLNLLSKSKVYEDPAL
 SAIFLHNNYNYILKSLEKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLPVFQPGV
 KLRDKERQMIKERFKGFNDGLEELCKIQKVAIPDTEQRDKIRQAQKDIVKETYGAFLHRYGSVPFTKPN
 EKYIKYRVEQVGMIDRLFDTS

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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                                     Kozac
                                     Consensus
                                     Sgf I
EcoR I      BamH I Kpn I      RBS      Asc I
CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III    Nhe I  Rsr II    Mlu I      Not I    Xho I      GFP Tag
CAAGCTTAAC TAGCTAGCGGACCG  ACG CGT  ACG CGG  CCG CTC GAG  ATG GAG AGC GAC -----
              T  R  T  R  P  L  E  M  E  S  D  -  -  -

Pme I      Fse I
----- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
- - - E E R V Stop
    
```

ACCN: BC028927

ORF Size: 1959 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: [BC028927](#), [AAH28927](#)

RefSeq Size: 2102 bp

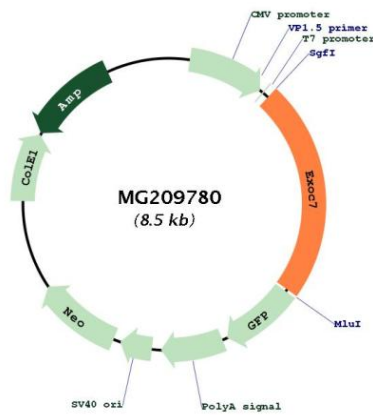
RefSeq ORF: 1961 bp

Locus ID: 53413

Cytogenetics: 11 E2

Gene Summary: Component of the exocyst complex involved in the docking of exocytic vesicles with fusion sites on the plasma membrane. In adipocytes, plays a crucial role in targeting SLC2A4 vesicle to the plasma membrane in response to insulin, perhaps directing the vesicle to the precise site of fusion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209780