

Product datasheet for **MG224011**

Exoc7 (NM_016857) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exoc7 (NM_016857) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Exoc7
Synonyms:	Exo70; sec70
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224011 representing NM_016857
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTCCCCCGCAGGAGGCTTCCGCCCGCGCGGGAGATCGAGGACAACTGAAGCAGGAGGAGAGA
 CGCTGTCGTTTATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAGGAACATGGTGTCCATCCTGTC
 GTCCTTTGAGAGCCGACTCATGAAGCTGGAGAACTCTATCATCCCTGTGACAAGCAGACAGAGAACCTA
 CAGAGGCTGCAGGAGAAGCTGGAGAAGACGTTATCCTGCCTGGACCACGTTATCAGCTACTACCAGTAG
 CCAGCGACACGGAGAAGATCATCCGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGTATGGC
 CAAAATCCAGAAGGCTGTGGAGTATTTTCAGGACAATAGCCCAGACAGCCAGAACTCAACAAAGTGAAG
 CTGCTGTTTGAGCGAGGGAAGGAGTCCCTGGAGTCCGAGTTCGCGAGTCTGATGACCCGGCAGCAAGG
 TGGTCTCCCCCGTCTCCTCTGGACCTCATCAGTCTGACGACGAGCTGGAGGTGCAGGAGGACGTGGT
 CCTGGAGCACCTGCCCGAGAGCGTCTCAGAGACGTGGTCCGCATCTCCCGCTGGCTGGTGAATATGGT
 CGGAACCAAGACTTCATGAATGTCTACTACCAGATCCGCTCCAGCCAGCTGGACCGCTCCATCAAGGGTC
 TGAAGGAGCATTTTCGAAAAGCAGTTCCTCTTCTGGGGTTCCCTACTCCCCCGCATCCCCAATAAGAG
 GAAAGACACGCCACCAAGAAGCCATCAAGCGGCCAGGGACGATCCGTAAGGCTCAGAACCTTCTGAAA
 CAGTATTTCCAGCATGGTCTAGATGGGAAAAAGGGGGCTCTAACCTCATTCTCTGGAAGGGAGAGACG
 ACATGTGGACGTGGAGACGGACGCCTACATTCCTGCGTCAGTGCCTTCGTCAAGCTGGCGCAGAGTGA
 ATACCGGCTGCTGATGGAGATCATCCCTGAGCATCACCAGAAGAAAACCTTTGACTCCTTGATACAGGAT
 GCCCTGGACGGGCTGATGCTTGAAGGGGAGAACATCGTGTCTGCTGCCAGGAAAGCCATCATCCGCCATG
 ACTTCTCCACAGTCTCACCGTCTTCCCATCCTGCGGCACCTCAAGCAGACCAAGCCCGAGTTTGACCA
 GGTGCTCCAGGGCACAGCAGCCAGCACCAAGAACAAGCTGCCCGCCTCATCACCTCCATGGAGACCATT
 GGGGCCAAAGCTCTAGAAGACTTTGCTGATAACATCAAGAATGATCCAGACAAGGAATACAACATGCCTA
 AAGACGGCACTGTTTATGAGCTCACAAGCAATGCCATCCTGTTCTACAGCAGCTTCTGGACTTCCAGGA
 GACAGCAGGTGCCATGCTGGCCTCCCAAGTTCTTGGGGACACATAACAATTTCTTTAGACCCCCGAGAA
 ACCAGCTCTTCGGCCACCAGCTACAGCTCCGAGTTCAGCAAGCGGCTGCTGAGCACCTACATCTGCAAAG
 TCTTGGGTAACCTGCAGCTGAATTAAGCAAGTCCAAGGTGTACGAGGATCCAGCGCTGAGCGCCAT
 CTTCTACACAACAATACTACAATTACATCCTCAAGTCCCTGGAGAAGTCTGAGCTGATCCAGCTGGTGGCT
 GTAACCCAGAAGACTGCCGAGCGTCTACCGGGAGCACATCGAGCAGCAGATCCAGACCTACCAGCGCA
 GCTGGCTAAAGGTGACTGACTACATCGCAGAGAAGAACCTACCTGTGTTCCAGCCTGGAGTCAAGTCCG
 GGACAAAGAGCGGCAGATGATTAAGGAACGTTTCAAGGGTTCAATGATGGACTCGAAGAGCTGTGCAAG
 ATTCAGAAGGTCTGGGCTATTCCAGACACAGAGCAGAGAGACAAGATTGACAGGCTCAGAAAGACATTG
 TCAAGGAGACCTACGGGGCTTTCTGCACAGGTATGGCAGCGTCCCTTACCAAAAACCCGGAGAAATA
 CATTAAAGTACCGCGTGGAGCAGGTGGGAGACATGATCGATCGCCTTTTCGACACCTCTGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224011 representing NM_016857
Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLKQEEETLSFIRDSLEKSDQLTRNMVSISSSFESRLMKLENSIIPVHKQTENL
 QRLQENVEKTLSCLDHVISYYHVASDTEKIIREGPTGRLEEYLGSMKIQKAVEYFQDNPSDPELNKVK
 LLFERGKESLESEFRSLMTRHSKVVSPVLLLDLISADDELEVQEDVVLEHLPESVLRDVRISRWLVEYG
 RNQDFMNVVYYQIRSSQLDRSIKGLKEHFRKSSSSSGVPYSPAIPNKRKDTPTKKPIKRPGTIRKAQNLK
 QYSQHGLDGKKGGSNLIPLEGRDDMLDVETDAYIHCVSFAFKLAQSEYRLLMEIIPHHQKKTFDLSLIQD
 ALDGLMLEGENIVSAARKAIRHDFSTVLTVPFILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETI
 GAKALEDFADNIKNDPKKEYNMPKDGTVHELTSNAILFLQQLDFQETAGAMLASQVLGDTYNIPLDPRE
 TSSSATSYSSEFSKRLSTYICKVLGNLQLNLLSKSKVYEDPALSAIFLHNNYNYILKSLEKSELIQLVA
 VTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLPVFPQGVKLRDKERQMIKERFKGFNDGLEELCK
 IQKVAWIPDTEQRDKIRQAQKDIVKETYGAFLHRYGSVPFTKNPEKYIKYRVEQVGMIDRLFD TSA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016857

ORF Size: 2091 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_016857.4](#)

RefSeq Size: 3344 bp

RefSeq ORF: 2094 bp

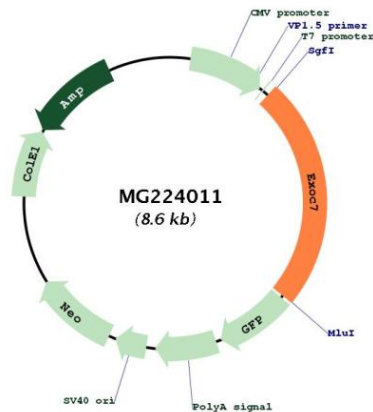
Locus ID: 53413

UniProt ID: [O35250](#)

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 MG224011