

Product datasheet for **MG224831**

Exoc7 (NM_001162872) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Exoc7 (NM_001162872) 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:

>MG224831 representing NM_001162872
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTCCCCCGCAGGAGGCTTCCGCCCGCGCGGGAGATCGAGGACAACTGAAGCAGGAGGAGAGA
 CGCTGTGCTTTATCCGAGACAGCCTGGAGAAGAGCGACCAGCTCACTAGGAACATGGTGTCCATCCTGTC
 GTCCTTTGAGAGCCGACTCATGAAGCTGGAGAAGCTCTATCATCCCTGTGACAAGCAGACAGAGAACCTA
 CAGAGGCTGCAGGAGAAGCTGGAGAAGACGTTATCCTGCCTGGACCACGTTATCAGCTACTACTAGTAG
 CCAGCGACACGGAGAAGATCATCCGAGAGGGCCCCACAGGTAGGCTGGAAGAGTACCTGGGAAGTATGGC
 CAAAATCCAGAAGGCTGTGGAGTATTTTCAGGACAATAGCCCAGACAGCCAGAAGCTCAACAAAGTGAAG
 CTGCTGTTTGAGCGAGGGAAGGAGTCCCTGGAGTCCGAGTTCGCGAGTCTGATGACCCGGCAGCAAGG
 TGGTCTCCCCCGTCTCCTCTGGACCTCATCAGTCTGACGACGAGCTGGAGGTGCAGGAGGACGTGGT
 CCTGGAGCACCTGCCCGAGAGCGTCTCAGAGACGTGGTCCGCATCTCCCGCTGGCTGGTGAATATGGT
 CGGAACCAAGACTTCATGAATGTCTACTACCAGATCCGCTCCAGCCAGCTGGACCGCTCCATCAAGGGTC
 TGAAAGGAGCATTTTCGAAAAGCAGTTCCTCTTCTGGGGTTCCCTACTCCCCCGCATCCCCAATAAGAG
 GAAAGACACGCCACCAAGAAGCCATCAAGCGGCCAGGGAGAGACGACATGCTGGACGTGGAGACGGAC
 GCCTACATTCAGTGCCTCAGCGCCTTCGTAAGCTGGCGCAGAGTGAATACCGGCTGCTGATGGAGATCA
 TCCCTGAGCATCACCAGAAGAAAACCTTGGACTCCTTGATACAGGATGCCTGGACGGGCTGATGCTTGA
 AGGGGAGAACATCGTGTCTGTGCCAGGAAAGCCATCATCCGCCATGACTTCTCCACAGTCTCACCGTC
 TTCCCCATCCTGCGGCACCTCAAGCAGACCAAGCCGAGTTTGACCAGGTGCTCCAGGGCAGCAGCCACA
 GCACCAAGAACAAGCTGCCCGCCTCATCACCTCCATGGAGACCATTGGGGCCAAAGCTCTAGAAGACTT
 TGCTGATAACATCAAGAATGATCCAGACAAGGAATACAACATGCCTAAAGACGGCACTGTTTCATGAGCTC
 ACAAGCAATGCCATCCTGTTCTACAGCAGCTTCTGGACTTCCAGGAGACAGCAGGTGCCATGCTGGCCT
 CCCAAGAAACCAGTTCTCGGCCACCAGCTACAGCTCCGAGTTCAGCAAGCGGCTGCTGAGCACCTACAT
 CTGCAAAGTCTTGGGTAACCTGCAGCTGAACCTACTAAGCAAGTCCAAGGTGTACGAGGATCCAGCGCTG
 AGCGCCATCTTCTACACAACAATAAATTACATCCTCAAGTCCCTGGAGAAGTCTGAGCTGATCCAGC
 TGGTGGCTGTAAACCAGAAGACTGCCGAGCGCTCCTACCGGGAGCACATCGAGCAGCAGATCCAGACCTA
 CCAGCGCAGCTGGCTAAAGGTGACTGACTACATCGCAGAGAAGAACCTACCTGTGTTCCAGCCTGGAGTC
 AAGCTCCGGGACAAAGAGCGGCAGATGATTAAGGAACGTTTCAAGGGTCAATGATGGACTTGAAGAGC
 TGTGCAAGATTCAGAAGTCTGGGCTATTCAGACACAGAGCAGAGAGACAAGATTTCGACAGGCTCAGAA
 AGACATTGTCAAGGAGACCTACGGGGCCTTTCTGCACAGGTATGGCAGCGTGCCTTTCACAAAAACCCG
 GAGAAATACATCAAGTACCGCGTGGAGCAGGTGGGAGACATGATCGATCGCCTTTTCGACACCTCTGCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG224831 representing NM_001162872
 Red=Cloning site Green=Tags(s)

MIPPQEASARRREIEDKLGQEEETLSFIRDSLEKSDQLTRNMVSISSSFESRLMKLENSIIPVHKQTENL
 QRLQENVEKTLSCLDHVISYVVASDTEKIIREGPTGRLEELGSMKIQKAVEYFQDNSPDSPELNKVK
 LLFERGKESLESEFRSLMTRHRSKVVSPVLLLDLISADDELEVQEDVVLEHLPESVLRDVRISRWLVEYG
 RNQDFMNVVYQIRSSQLDRSIKGLKEHFRKSSSSGVPYSPAIPNKRKDTPTKKPIKRPGRDDMLDVETD
 AYIHCVSFAFKLAQSEYRLLMEIIPHHQKKTFDLSLIQDALDGLMLEGENIVSAARKAIIRHDFSTVLT
 FPILRHLKQTKPEFDQVLQGTAASTKNKLPGLITSMETIGAKALEDFADNIKNDPDKKEYNMPKDGTVHEL
 TSNAILFLQQLDFQETAGAMLASQETSSSATSYSSEFSKRLSTYICKVLGNLQNLNLLSKSKVYEDPAL
 SAIFLNHNYYILKSLEKSELIQLVAVTQKTAERSYREHIEQQIQTYQRSWLKVTDYIAEKNLPVFPQPV
 KLRDKERQMIKERFKGFNDGLEELCKIQKVAIPDTEQRDKIRQAQKDIVKETYGAFLHRYGVSVPFTKPN
 EKYIKYRVEQVGMIDRLFDTS

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001162872

ORF Size: 1959 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_001162872.1](#), [NP_001156344.1](#)

RefSeq Size: 3212 bp

RefSeq ORF: 1962 bp

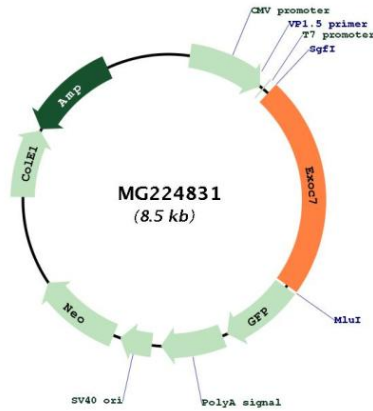
Locus ID: 53413

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 MG224831