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Product datasheet for RC210507

EXOC1 (NM_001024924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EXOC1 (NM_001024924) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EXOC1
Synonyms:	BM-102; SEC3; SEC3L1; SEC3P
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>RC210507 representing NM_001024924
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACAGCAATCAAGCATGCATTACAAAGAGACATTTTTACACCAAATGATGAACGCCTGCTGAGCATTG
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TGTGCAGGTTAAGGTGGTCAAAGTCAAGAAATCCGATAAGGGAGATTTCTACAAAAGGCAGATTGCATGG
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ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210507 representing NM_001024924
Red=Cloning site Green=Tags(s)

MTAIKHALQRDIFTPNDERLLSIVNVCKAGKKKKNCFLCATVTTERPVQVKVVKVKKSDKGDFYKRQIAW
ALRDLAVVDAKDAIKENPEFDLHFEKIYKWVASSTAEKNAFISCIWKLNQRYLRKKIDFVNVSSQLLEES
VPSGENQSVTGGDEEVVDEYQELNAREEQDIEIMMEGCEYAISNAEAFAEKLSRELQVLDGANIQSIMAS
EKQVNILMKLLDEALKEVDQIELKLSSYEEMLQSVKEQMDQISESNHLIHLSNTNNVKLLSEIEFLVNHM
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LGQPLEKLNHFFEGVEARVAQGIREEEVSYQLAFNKQELRKVIKEYPGKEVKKGLDNLYKKVDKHLCEEE
NLLQVVWHSMQDEFIRQYKHFEGLIARCYPGSGVTIEFTIQDILDYCSSIAQSH

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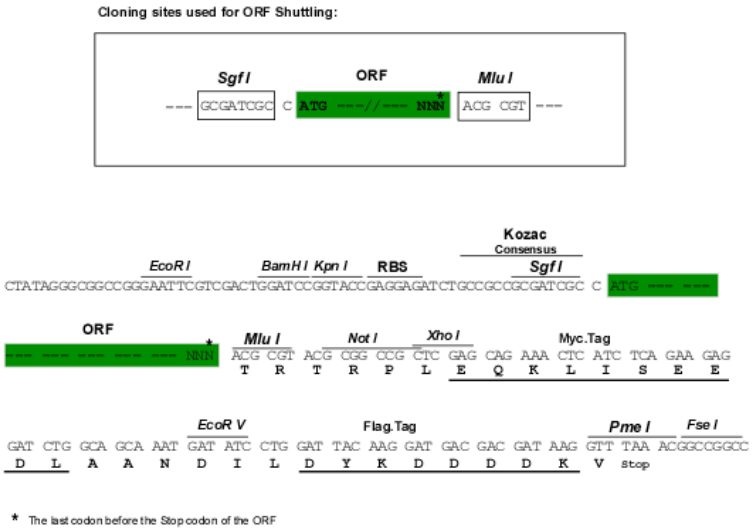
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001024924

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ORF Size:	2682 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:	NM_001024924.1, NP_001020095.1
RefSeq Size:	3582 bp
RefSeq ORF:	2685 bp
Locus ID:	55763
UniProt ID:	Q9NV70
Cytogenetics:	4q12
MW:	101.8 kDa
Gene Summary:	The protein encoded by this gene is a component of the exocyst complex, a multiple protein complex essential for targeting exocytic vesicles to specific docking sites on the plasma membrane. Though best characterized in yeast, the component proteins and functions of the exocyst complex have been demonstrated to be highly conserved in higher eukaryotes. At least eight components of the exocyst complex, including this protein, are found to interact with the actin cytoskeletal remodeling and vesicle transport machinery. Alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]

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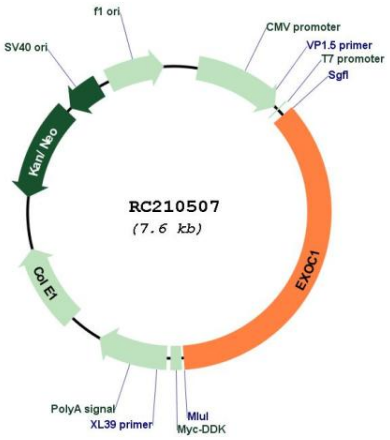
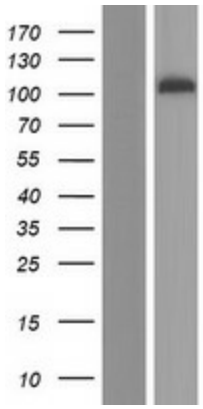
Product images:



Circular map for RC210507



Western blot validation of overexpression lysate (Cat# [LY422553]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210507 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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