

Product datasheet for **RC207747**

SEC24D (NM_014822) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SEC24D
Synonyms:	CLCRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC207747 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

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GCCGCGATCGCC

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CATCCTCACATGCACCATACCAACCTCTGCACAATCTTATCCAGGTCCTATATCCACTTCATCTGT
CACCAGCTGGGCAGCCAGCTCAGTGCTATGCAAAATCAACAGCTATGGTTACGGCATGGCTCCTCCAAGC
CAGGGACCCCTGGCCCTCTGTGAGCCACATCATTGCAGACTCCTCCAGACCTCCACAGCCTTCCATTT
TGCAGCCTGGATCTCAAGTTCTTCCACCACCACCACCACTCAATGGTCTGGTGCCTCACCTTTGCC
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Protein Sequence:

>RC207747 protein sequence
Red=Cloning site Green=Tags(s)

MSQQGYVATPPYSQPQPGIGLSPPHYGHYGDPSHTASPTGMMKPAGPLGATATRGMLPPGPPPPGPHQFG
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LYLVNHGESGPVRCNRCKAYMCPFMQFIEGGRRYQCGFCNCVNDVPPFYFQHLDHIGRRLDHYEKPESL
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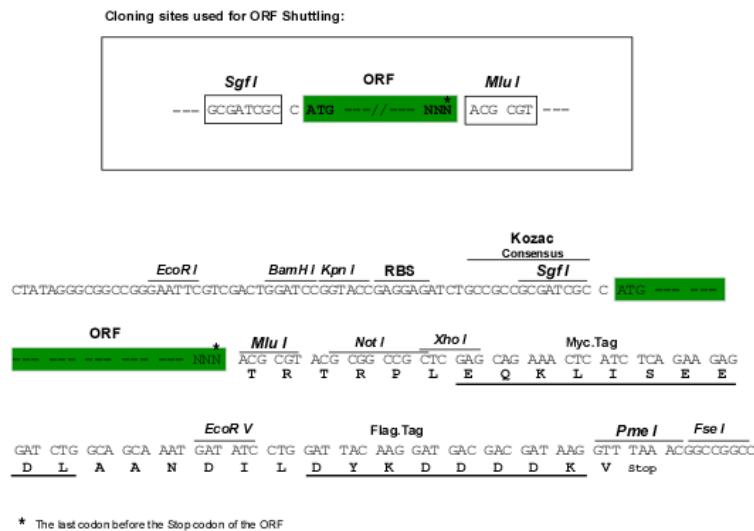
Chromatograms:

https://cdn.origene.com/chromatograms/mk6220_d03.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

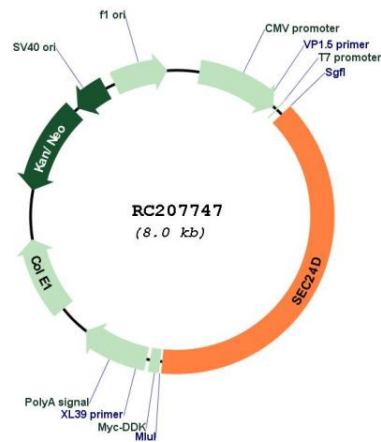
NM_014822

ORF Size:

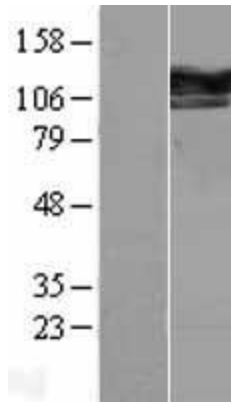
3099 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014822.4
RefSeq Size:	4077 bp
RefSeq ORF:	3099 bp
Locus ID:	9871
UniProt ID:	O94855
Cytogenetics:	4q26
Domains:	zf-Sec23_Sec24, Sec23_trunk, Sec23_helical, Gelsolin
MW:	113.1 kDa
Gene Summary:	The protein encoded by this gene is a member of the SEC24 subfamily of the SEC23/SEC24 family, which is involved in vesicle trafficking. The encoded protein has similarity to yeast Sec24p component of COPII. COPII is the coat protein complex responsible for vesicle budding from the ER. This gene product is implicated in the shaping of the vesicle, and also in cargo selection and concentration. Mutations in this gene have been associated with Cole-Carpenter syndrome, a disorder affecting bone formation, resulting in craniofacial malformations and bones that break easily. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]

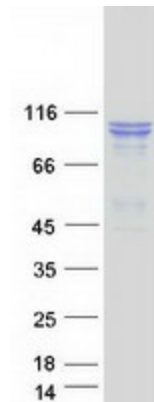
Product images:



Circular map for RC207747



Western blot validation of overexpression lysate (Cat# [LY415028]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207747 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SEC24D protein (Cat# [TP307747]). The protein was produced from HEK293T cells transfected with SEC24D cDNA clone (Cat# RC207747) using MegaTran 2.0 (Cat# [TT210002]).