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Product datasheet for RC228665

Synaptojanin (SYNJ1) (NM_001160302) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptojanin (SYNJ1) (NM_001160302) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synaptojanin
Synonyms:	DEE53; EIEE53; INPP5G; PARK20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC228665 representing NM_001160302
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTTCAGTAAAGGATTCCGGATCTATCACAAATTGGATCCCCCACCTTTCAGCCTCATAGTGGAAA
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GACAAAGCTCGAGCACTTTTAACTACTGGAAGTTTGCGTGTTTCTGAGCAGACATTACAGTCAGCATCTT
CTAAAGTACTAAAGAGCATGTGTGAGAATTTCTACAAATATTCAAAGCCTAAGAAAATTCGAGTATGTGT
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Protein Sequence:

>RC228665 representing NM_001160302
Red=Cloning site Green=Tags(s)

MAFSKGFRIYHKLDPPPFSLIVETRHKEECLMFESGAVAVLSSAEKEAIKGTYSKVLDAYGLLGVLRLNL
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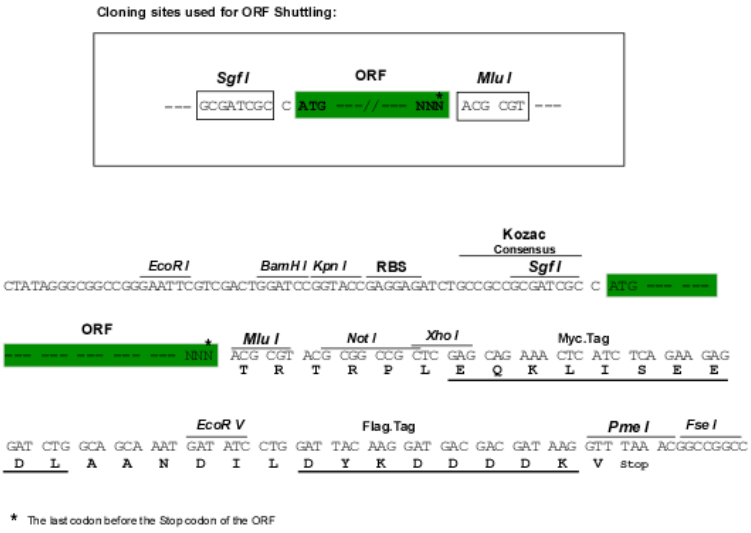
Chromatograms: https://cdn.origene.com/chromatograms/mk6683_b12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001160302

ORF Size: 3885 bp

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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_001160302.1, NP_001153774.1
RefSeq ORF:	3888 bp
Locus ID:	8867
UniProt ID:	O43426
Cytogenetics:	21q22.11
Protein Families:	Druggable Genome, Phosphatase
Protein Pathways:	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
MW:	143.1 kDa
Gene Summary:	This gene encodes a phosphoinositide phosphatase that regulates levels of membrane phosphatidylinositol-4,5-bisphosphate. As such, expression of this enzyme may affect synaptic transmission and membrane trafficking. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

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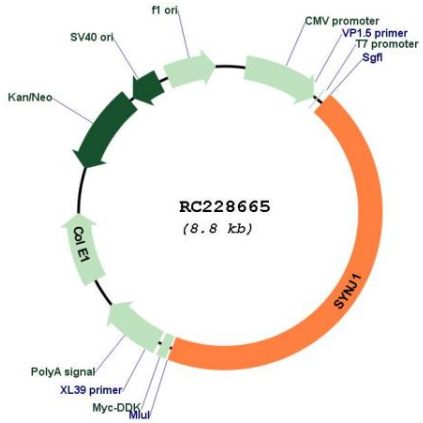
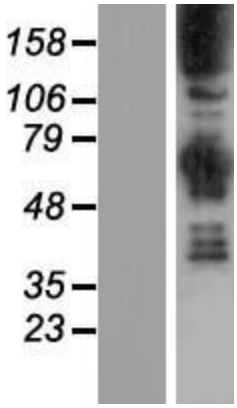
Product images:



Circular map for RC228665



Western blot validation of overexpression lysate (Cat# [LY431693]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228665 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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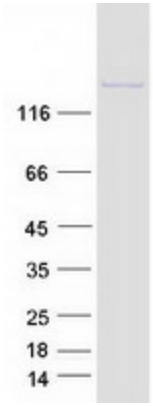

Coomassie blue staining of purified SYNJ1 protein (Cat# [TP328665]). The protein was produced from HEK293T cells transfected with SYNJ1 cDNA clone (Cat# RC228665) using MegaTran 2.0 (Cat# [TT210002]).

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