

## Product datasheet for **RC230684**

### Synaptojanin 2 (SYNJ2) (NM\_001178088) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptojanin 2 (SYNJ2) (NM_001178088) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SYNJ2
Synonyms:	INPP5H
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC230684 representing NM_001178088 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGATTTACATGGACGATGGAGTGTTCATCTTTTGTCCAGATCAGAGGCTCCGTTCCGCTGTTCTGGGAAC  
AGCCAGGGCTTCAGTTGGCTCCCATCATCTGAGACTCCACAGAGGCTGGAAGCCAATGCCCTGCTTT  
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GCCACAGTTAAAGCTGCACTGGGAAGACTTCGATGTGTTCAAAAGGGGGAGAAGCTCAGTCCACGTTTTT  
CAGAAAGGCATTTGCGGATGAAGTGTCTTGTGCTGCTGGACCGAACCAACTGTGAGAGCTTCATCG  
CGCTCGAGGTCTGCATCTGCAGCTCAAGACCCGGGGCTGAGTTCAAAACCCATCGTTGACCGCTTTGT  
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ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >RC230684 representing NM\_001178088  
 Red=Cloning site Green=Tags(s)

MIYMDGVSFVQIRGSVPLFWEQPLQVGSHELLRHRGLEANAPAFDRHMVLLKEQYQQVNVNLLGSR  
 GGEEVLNRAFKKLLWASCHAGDTPMINDFHQFAKGGKLEKLETLLRPQLKLHWEDFDVFTKGENVSPRF  
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 LEGKAKVGLKLDGARSMSRTIQSNFFDGVKQEAIKLLLVDVYGEVADKGGMLLDSTALLVTPRILKAM  
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 KPRTFQPGKAAERP SHRKPASDEAPPGAGASVPPPLEAPPLVPKVP RRKKSAPAAFHLQVLQSNQLLQ  
 GLTYNSSDSPSGHPPAAGTVFPQGDFLSTSSATSPDSGTAKAMKPEAAPLLGDYQDPFWNLLHHPKLLNN  
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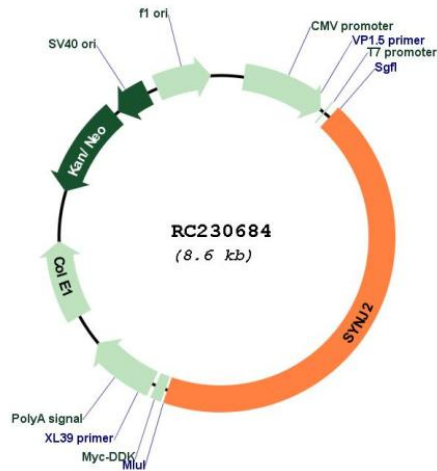
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001178088

**ORF Size:** 3777 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\\_001178088.2](#)

**RefSeq ORF:** 3780 bp

**Locus ID:** 8871

**UniProt ID:** [O15056](#)

**Cytogenetics:** 6q25.3

<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>MW:</b>	139.7 kDa
<b>Gene Summary:</b>	The gene is a member of the inositol-polyphosphate 5-phosphatase family. The encoded protein interacts with the ras-related C3 botulinum toxin substrate 1, which causes translocation of the encoded protein to the plasma membrane where it inhibits clathrin-mediated endocytosis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]