

## Product datasheet for RC215160

### Synaptojanin 2 (SYNJ2) (NM\_003898) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptojanin 2 (SYNJ2) (NM_003898) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synaptojanin 2
Synonyms:	INPP5H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215160 representing NM_003898 Red=Cloning site Blue=ORF Green=Tags(s)

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**Protein Sequence:** >RC215160 representing NM\_003898  
 Red=Cloning site Green=Tags(s)

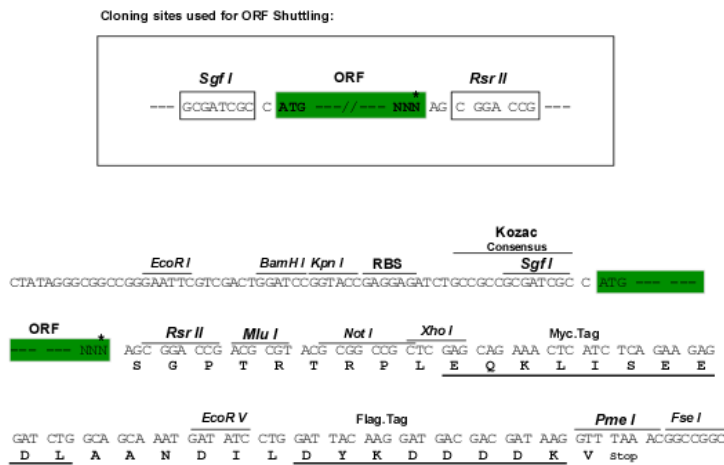
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SGP TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6624\\_g06.zip](https://cdn.origene.com/chromatograms/mk6624_g06.zip)

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

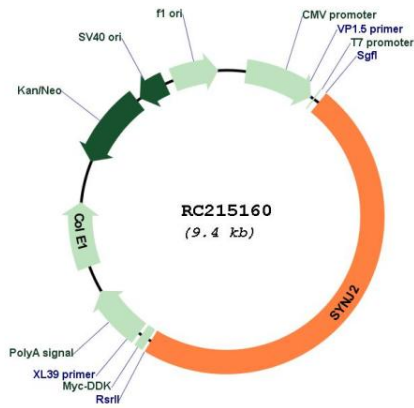


\* The last codon before the Stop codon of the ORF

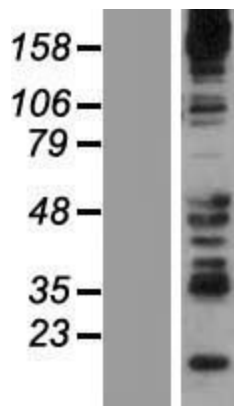
**ACCN:** NM\_003898

<b>ORF Size:</b>	4488 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_003898.4</a>
<b>RefSeq Size:</b>	6738 bp
<b>RefSeq ORF:</b>	4491 bp
<b>Locus ID:</b>	8871
<b>UniProt ID:</b>	<a href="#">O15056</a>
<b>Cytogenetics:</b>	6q25.3
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system
<b>MW:</b>	165.4 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]

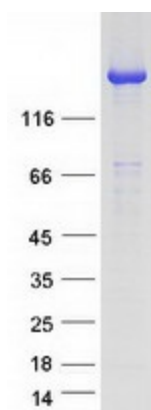
Product images:



Circular map for RC215160



Western blot validation of overexpression lysate (Cat# [LY418365]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215160 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SYNJ2 protein (Cat# [TP315160]). The protein was produced from HEK293T cells transfected with SYNJ2 cDNA clone (Cat# RC215160) using MegaTran 2.0 (Cat# [TT210002]).