

Product datasheet for **RC204126**

Synaptogyrin 3 (SYNGR3) (NM_004209) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptogyrin 3 (SYNGR3) (NM_004209) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Synaptogyrin 3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204126 representing NM_004209. Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCAGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGGAGGGCGCCTCCTTCGGCGCGGGCCGCGCAGGGGCCGCCCTGGACCCCGTGAGCTTTGCGCGGCGG
CCCCAGACCCTGCTCCGGGTCGCGTCTGGGTGTTCTCCATCGCCGTCTTCGGGCCCATCGTCAACGAG
GGCTACGTGAACACCGACAGCGGCCCGAGCTGCGCTGCGTGTTCACGGGAACGCGGCCGCTGCCGC
TTCGGCGTCGCGCTGGGCCTCGGAGCCTTCCTCGCTGCGCCGCCTTCCTGCTGCTCGATGTGCGCTTC
CAGCAAATCAGCAGCGTCCGCGACCGCGCGCGCGGTGTTGCTGGACCTGGGCTTCTCAGGACTCTGG
TCCTTCCTGTGGTTCGTGGGCTTCTGCTTCCTACCAATCAGTGGCAGCGCACGGCGCCAGGGCCGGCC
ACGACGACAGCGGGGACGCGGCCGCGGCCATCGCCTTCAGCTTCTTCTCCATCCTCAGCTGGGTG
GCGCTACCGTGAAGGCCTGCAGCGGTTCCGCTGGGCACCGACATGTCACTCTTCGCCACCGAACAG
CTGAGCACCGGGGCGAGCCAGGCCTACCCCGGCTATCCGGTGGGCAGCGCGTGGAGGGCACCGAGACC
TACCAGAGCCCGCCCTTACCGAGACCCTGGACACCGACCCCAAGGGTACCAGGTGCCCGCCTAC
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Protein Sequence:	>Peptide sequence encoded by RC204126 Blue=ORF Red=Cloning site Green=Tag(s)
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MEGASFGAGRAGAALDPVSFARRPQTLLRVASWVFSIAVFGPIVNEGYNVNTDSGPRLRCVFNGNAGACR
FGVALGLGAFLACAAFLLLDVRFQQISSVRDRRRVLLDLGFSGLWSFLWFGFCFLTQWQRTAPGPA
TTQAGDAARAAIAFSFFILSWVALTVKALQRFRLGTDMSLFATEQLSTGASQAYPGYPVSGVEGTET
YQSPPFTETLDTSPKGYQVPAY
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:	https://cdn.origene.com/chromatograms/mk6568_h04.zip
Restriction Sites:	SgfI-MluI



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Cloning Scheme:



ACCN: NM_004209

ORF Size: 687 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_004209.6](#)

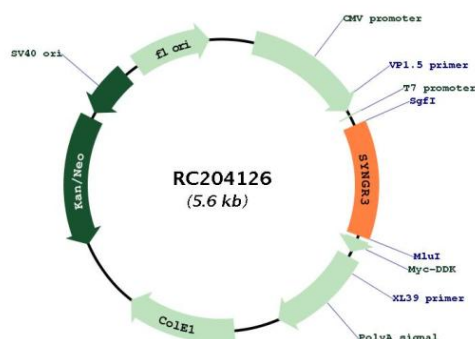
RefSeq Size: 2076 bp

RefSeq ORF: 690 bp

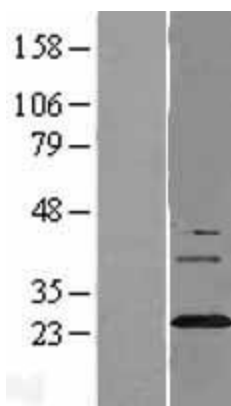
Locus ID: 9143

UniProt ID:	O43761
Cytogenetics:	16p13.3
Domains:	Synaptogyrin
Protein Families:	Transmembrane
MW:	24.6 kDa
Gene Summary:	This gene encodes an integral membrane protein. The exact function of this protein is unclear, but studies of a similar murine protein suggest that it is a synaptic vesicle protein that also interacts with the dopamine transporter. The gene product belongs to the synaptogyrin gene family. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RC204126



Western blot validation of overexpression lysate (Cat# [LY418137]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204126 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).