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# Product datasheet for RC202179

## SNAP29 (NM_004782) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | SNAP29 (NM_004782) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | SNAP29 |
| **Synonyms:** | CEDNIK; SNAP-29 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC202179 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCAGCTTACCCTAAGAGCTACAATCCGTTCGACGACGACGGGGAGGACGAAGGCGCCCGGCCGGCCC
CTTGGAGGGACGCCCGAGACCTCCCCGACGGGCCCGACGCGCCCGCGGACAGGCAGCAGTACTTGCGGCA
GGAGGTCCTCCGCAGGGCTGAGGCCACGGCCGCCAGCACCAGCAGGTCCCTGGCCCTCATGTACGAGTCC
GAGAAGGTTGGGGTCGCCTCTTCCGAGGAGCTCGCCCGTCAGCGAGGAGTCCTGGAGCGCACAGAGAAGA
TGGTGGACAAGATGGACCAAGATTTGAAGATCAGCCAGAAACACATCAATAGCATTAAGAGCGTGTTTGG
GGGGCTGGTCAATTACTTCAAATCCAAACCAGTAGAGACCCCACCTGAACAGAATGGCACCCTCACCTCC
CAGCCCAACAACAGATTGAAAGAAGCTATAAGTACAAGTAAAGAACAGGAAGCAAAGTACCAGGCCAGCC
ACCCAAACCTTAGAAAGCTGGATGATACAGACCCTGTCCCCAGAGGGGCTGGTTCTGCCATGAGTACTGA
TGCTTACCCAAAGAACCCACACCTTCGAGCCTATCACCAGAAGATCGACAGCAACCTAGATGAGCTGTCC
ATGGGACTGGGTCGTCTGAAGGACATAGCCCTGGGGATGCAGACAGAAATTGAGGAGCAAGATGACATTC
TTGACCGGCTGACAACCAAAGTGGACAAGTTAGATGTCAACATAAAAAGCACAGAAAGAAAAGTTCGACA
ACTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

>RC202179 protein sequence
Red=Cloning site Green=Tags(s)

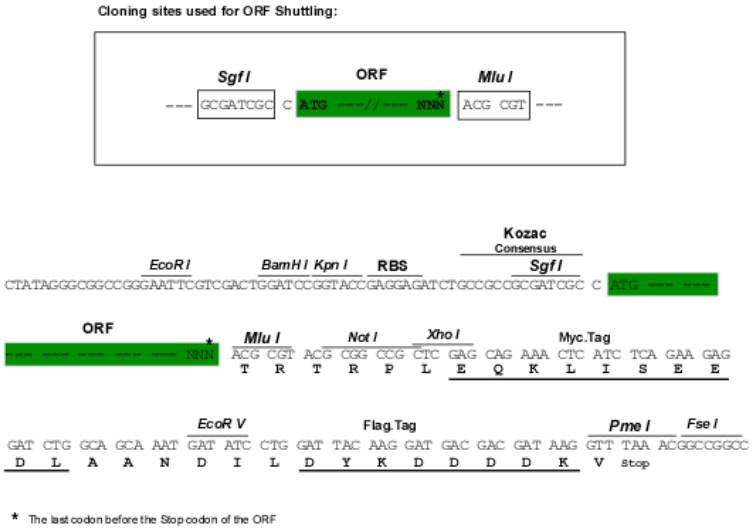
MSAYPKSYNPFDDDGEDEGARPAPWRDARDLPDGPDAPADRQQYLRQEVLRRAEATAASTSRSLALMYES
EKVGVASSEELARQRGVLERTEKMVDKMDQDLKISQKHINSIKSVFGGLVNYFKSKPVETPPEQNGTLTS
QPNNRLKEAISTSKEQEAKYQASHPNLRKLDDTDPVPRGAGSAMSTDAYPKNPHLRAYHQKIDSNLDELS
MGLGRLKDIALGMQTEIEEQDDILDRLTTKVDKLDVNIKSTERKVRQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6192_a12.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_004782

**ORF Size:** 774 bp

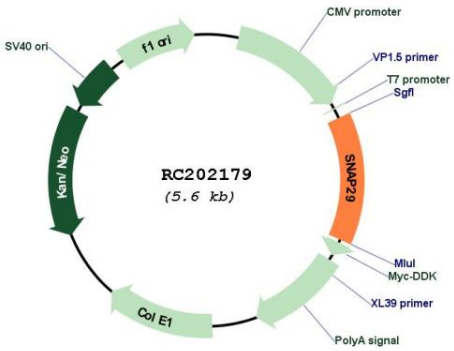
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

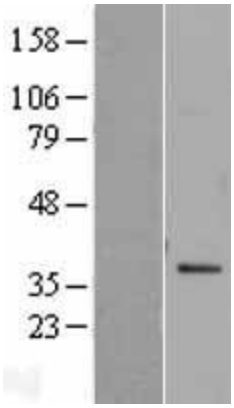
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

| | |
|---|---|
| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_004782.4 |
| **RefSeq Size:** | 4277 bp |
| **RefSeq ORF:** | 777 bp |
| **Locus ID:** | 9342 |
| **UniProt ID:** | O95721 |
| **Cytogenetics:** | 22q11.21 |
| **Domains:** | t_SNARE, SNAP-25 |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | SNARE interactions in vesicular transport |
| **MW:** | 29 kDa |
| **Gene Summary:** | This gene, a member of the SNAP25 gene family, encodes a protein involved in multiple membrane trafficking steps. Two other members of this gene family, SNAP23 and SNAP25, encode proteins that bind a syntaxin protein and mediate synaptic vesicle membrane docking and fusion to the plasma membrane. The protein encoded by this gene binds tightly to multiple syntaxins and is localized to intracellular membrane structures rather than to the plasma membrane. While the protein is mostly membrane-bound, a significant fraction of it is found free in the cytoplasm. Use of multiple polyadenylation sites has been noted for this gene. [provided by RefSeq, Jul 2008] |

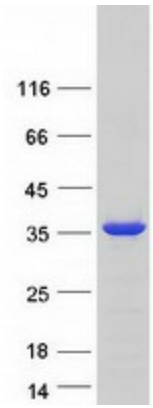
## Product images:




Circular map for RC202179




Western blot validation of overexpression lysate (Cat# [LY401502]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202179 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).




Coomassie blue staining of purified SNAP29 protein (Cat# [TP302179]). The protein was produced from HEK293T cells transfected with SNAP29 cDNA clone (Cat# RC202179) using MegaTran 2.0 (Cat# [TT210002]).