

Product datasheet for **MR202601**

Syngnr2 (NM_009304) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Syngnr2 (NM_009304) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Syngnr2
Synonyms: cellugyrin; Clast2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR202601 representing NM_009304
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGAGCGGGCCTATGGCGCGGCCAACGCGGGCGGCTCCTTCGACCTGCGGCGCTTCTGTCTCAGC
CTCAGGTGGTGACGCGCCTCGTGAGCATGGTCTTGGCCTTGATCGTGTTCTCTGCATCTTCGGCGAGGG
CTACACCAACATTACACATCTGATCAACTATACTGTGTGTTCAACCAGAATGAGGATGCCTGCCGCTAC
GGCAGCGCCATCGGGTCTGGCCTTCTGGCCTCAGCCTTCTCCTTGTGGTCGATGCCTTCTTCTCCC
AGATAAGCAATGCCACTGACCGCAAGTACCTGGTCATTGGCGACCTGCTTCTCAGCTCTCTGGACCTT
CCTGTGGTTTGTGGTTTCTGCTTCTGACCAACCAAGTGGCAGCCACCAACCTCAAGATGTCCGGGTG
GGTGGGACTCAGCTCGGGCAGCCATCACCTTCAGCTTCTTCCATCTTTCTGGGGTGTGCTGGCTT
CCCTGGCCTACCAGCGCTACAAGGCTGGAGTGGATGCCTTATTGAGAACTACGTGGATCCCACCCCGGA
TCCCAACACAGCCTACGCCTCCTACCCAGTGCCTCCGTGGAAAACCTACCAGCAGCCGCCCTTACCCAG
AATGTGGAGACTATTGAGGGCTACCAGCCTCCCCCTGTGTAC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202601 representing NM_009304
Red=Cloning site Green=Tags(s)

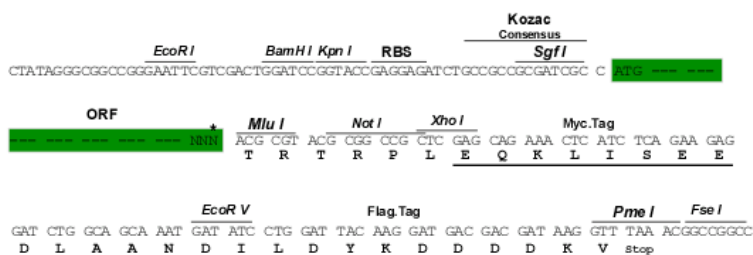
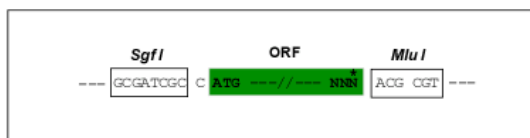
MESGAYGAANAGGSFDLRRFLSQPQVVTRLVSMVLALIVFSCIFGEGYNIHTSDQLYCVFNQEDACRY
 GSAIGVLAFLASAFFLVDAFFSQISNATDRKYLVIIGDLLFSALWTFWFVGFCLTNQWAATKPQDVRV
 GADSARAAITFSFFSIFSWGVLASLAYQRYKAGVDAFIQNYVDPTDPNTAYASYPSASVENYQQPPFTQ
 NVETIEGVQPPPVY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_009304

ORF Size: 672 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_009304.1](#), [NM_009304.2](#), [NP_033330.1](#)

RefSeq Size: 1527 bp

RefSeq ORF: 675 bp

Locus ID: 20973

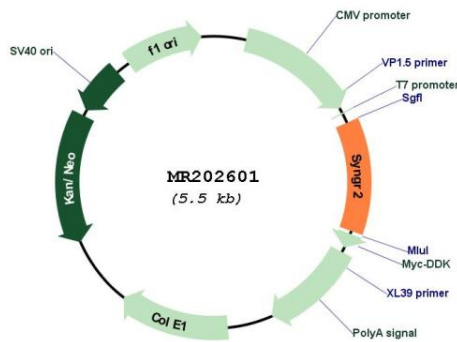
UniProt ID: [O55101](#)

Cytogenetics: 11 E2

MW: 25.2 kDa

Gene Summary: May play a role in regulated exocytosis. In neuronal cells, modulates the localization of synaptophysin/SYP into synaptic-like microvesicles and may therefore play a role in the formation and/or the maturation of this vesicles. May also play a role in GLUT4 storage and transport to the plasma membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR202601