

## Product datasheet for **MG202601**

### Syng2 (NM\_009304) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Syng2 (NM\_009304) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Syng2  
**Synonyms:** cellugyrin; Clast2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG202601 representing NM\_009304  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGAGCGGGCCTATGGCGCGGCCAACCGGGCGGCTCCTTCGACCTGCGGCGCTTCTGTCTCAGC  
CTCAGGTGGTGACGCGCCTCGTGAGCATGGTCTTGGCCTTGATCGTGTTCTCTGCATCTTCGGCGAGGG  
CTACACCAACATTACACATCTGATCAACTATACTGTGTGTTCAACCAGAATGAGGATGCCTGCCGCTAC  
GGCAGCGCCATCGGGTCTGGCCTTCTGGCCTCAGCCTTCTCCTTGTGGTCGATGCCTTCTTCTCCC  
AGATAAGCAATGCCACTGACCGAAGTACCTGGTCATTGGCGACCTGCTTCTCAGCTCTCTGGACCTT  
CCTGTGGTTTGTGGTTTCTGCTTCTGACCAACCAAGTGGCAGCCACCAACCTCAAGATGTCCGGGTG  
GGTGGGACTCAGCTCGGGCAGCCATCACCTTCAGCTTCTTCCATCTTTCTGGGGTGTGCTGGCTT  
CCCTGGCCTACCAGCGCTACAAGGCTGGAGTGGATGCCTTATTGAGAACTACGTGGATCCCACCCCGGA  
TCCCAACACAGCCTACGCCTCTACCCAGTGCCTCCGTGGAAAACCTACCAGCAGCCGCCCTTACCCAG  
AATGTGGAGACTATTGAGGGCTACCAGCCTCCCTGTGTAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG202601 representing NM\_009304  
Red=Cloning site Green=Tags(s)

MESGAYGAANAGGSFDLRRFLSQPVVTRLVSMVLALIVFSCIFGEGYNIHTSDQLYCVFNQEDACRY  
 GSAIGVLAFLASAFFLVDAFFSQISNATDRKYLVIIGDLLFSALWTFWFVGFCLTNQWAATKPQDVRV  
 GADSARAAITFSFFSIFSWGVLASLAYQRYKAGVDAFIQNYVDPTDPNTAYASYPSASVENYQQPPFTQ  
 NVETIEGYQPPPVY

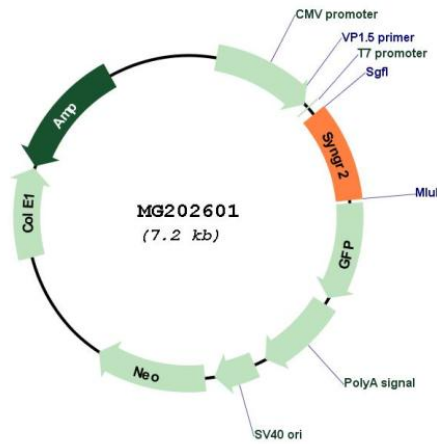
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_009304

**ORF Size:** 672 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_009304.1</a> , <a href="#">NP_033330.1</a>
<b>RefSeq Size:</b>	1527 bp
<b>RefSeq ORF:</b>	675 bp
<b>Locus ID:</b>	20973
<b>UniProt ID:</b>	<a href="#">Q55101</a>
<b>Cytogenetics:</b>	11 E2
<b>Gene Summary:</b>	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]