

## Product datasheet for **MG214974**

### Syce2 (NM\_027954) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Syce2 (NM\_027954) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Syce2  
**Synonyms:** 1700013H19Rik; AA407907; Cesc1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG214974 representing NM\_027954  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGCGCCACGGAGTGGCCGCGCCTCCCGTGGAGTTAAAGGACCAGGAGCCGCCGCGGATTGTGGAGA  
 GCGGAGAGCATCGGCAGAGTGAGAACCACGAGGAGACGCCCGGCTCAGTGGCCCCGAGTGCCAGTTGCCA  
 GCTGCCAGGACCCTTCTCCTCTCTGGACTCTAGCATTGAAACCTGAAGAAGAAAGCCAGGAAGTATT  
 GAAAACATCAATGAAAGCAGGCAGAAGGACCATGCACTTATGACCAACTTCAGGGACAGCCTCAAGATGA  
 AGGTCTCAGATCTGACAGAAAAGTTGGAGGAGAGGATGTACCAGGTGTACAGCCACCACAGCAAAATCAT  
 TCAGGAAAGACTACAAGAATTTACCCAGAAGATGGCAAAGATCAACCATCTGGAAATGGAGCTTAAACAA  
 GTCTGCCAAACTGTGAAACGGTGTACAAGGACCTATGTGTCCAGTCTGAGGTTCCCACTTGCAGAAAC  
 AGAATTACAAAGATGGTGAATGC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG214974 representing NM\_027954  
 Red=Cloning site Green=Tags(s)

MERHGVAAPPVELKDQEPPIAVESGEHRQSENHEETPGSVAPSASCQLPGPFSSLDSSIIETLKKKAQELI  
 ENINESRQKDHALMTNFRDSLKMKVSDL TEKLEERMYQVYSHHSKIIQERLQEFQTKMAKINHLEMELKQ  
 VCQTVETVYKDLVQSEVPTCEEQNYKDGE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI

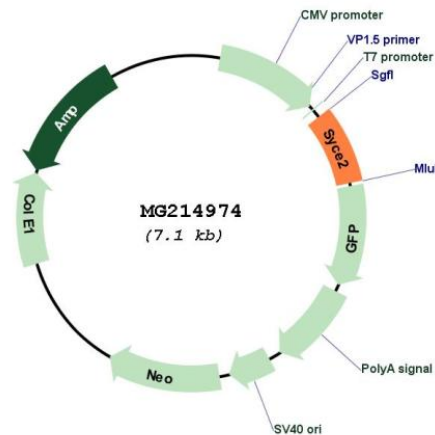


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_027954

ORF Size: 513 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.

<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>	<u>NM_027954.3, NP_082230.2</u>
<b>RefSeq Size:</b>	911 bp
<b>RefSeq ORF:</b>	516 bp
<b>Locus ID:</b>	71846
<b>UniProt ID:</b>	<u>Q505B8</u>
<b>Cytogenetics:</b>	8 C3
<b>Gene Summary:</b>	Major component of the transverse central element of synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase. Requires SYCP1 in order to be incorporated into the central element. May have a role in the synaptonemal complex assembly, stabilization and recombination.[UniProtKB/Swiss-Prot Function]