

## Product datasheet for **RG224585**

### SYNRG (NM\_080550) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | SYNRG (NM_080550) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP  |
| Symbol:                   | SYNRG   |
| Synonyms:                 | AP1GBP1; SYNG   |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-AC-GFP (PS100010)   |
| E. coli Selection:        | Ampicillin (100 ug/mL)  |
| ORF Nucleotide Sequence:  | >RG224585 representing NM_080550<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCTGCGGCCAGGAGCTGGTTCTGGTGCGGGCGGGCCGCGGGAGCTGGCGGGGTCCGCCGGG  
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TGAACAGACAGCAGAGAATAAACCTTTAGGAGAAAAGCTTTCAGAAATTCAGATCTGCAGGAACTGATGAT



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GGTTTCACCGATTTTAAACAGCCGATAGTGTATCACCCTAGAGCCACCAACAAAAGACAAAACCTTTTC  
CACCATCCTTCCCCTCAGGAACATACAACAGAAAACAACAAACAAAGTAAAAACCTCTGAACCTTAGC  
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CGCCTGCCCGTATCCGAGACAAGTACAAGACCTGACGGGAGAGGTGGAGGAAAATGAGAGATATGCA  
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TGCTGTGGAGTGCCTCTTGAATGTGGACTCGAGGAGCCGGCATTCAACTCAGAAACAGACAGTTTC  
AAGCTGGCCTATGGAGGGCACCAGTATCACGCCAGCTGTGCCAATTCTGGATCAACTGTGTCGAACCAA  
AGCCTCCTGGCCTCGTCCTGACCTGCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG224585 representing NM\_080550  
 Red=Cloning site Green=Tags(s)

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MALRPGAGSGGGGAAGAGAGSAGGGGFMPVAGGIRPPQAGLMPMQQQGFPMVSVMQPNMQGIMGMNYSS
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RQFEEQKQLRLLSSVKPKTGEKSRDDALEAIKGNLDGFSRDAKMHTPASHPKKPGVGVFSPQDPAQPR
MPPWIYNESLVPDAYKKILETTMTPTGIDTAKLYPILMSSGLPRETLGQIWALANRTTPGKLTKEELYTV
LAMIAVTQRGVAMPSPDALNQFPAAPIPTLSGFSMTLPTVPSQPTVIPSGPAGSMPLSLGQPVMGINLVG
PVGAAAQASSGFIPYANQVVKPEEDDFQDFQDASKSGSLDDSFSDQELPASSKTSNSQHGNSAPSL
LMLPLPGTKALPSMDKYAVFKGIAADKSSSENTVPPGDPGDKYSAFRELEQTAENKPLGESFAEFRSAGTDD
GFTDFKTAADSVSLEPPTKDKTFPPSFGTIQQKQQTQVKNPLNLADLDMFSSVNCSSKEPLSFSAVFS
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HVMSDSSLDLPTVSGQHPAADIEDLKAAFGSYSSNFVSTLTSYDWSRDDATQGRKLSPPVLSAGSG
SPSATSILQKKETSFGSSENITMTSLSKVTTFVSEDALPETTFPALASFKDTIPQTSSEQKEYENRDYKDF
TKQDLPTAERSQEATCPSPASSGASQETPNECSDDFGEFQSEKPKISKDFLVATSQSKMKSSEEMIKSE
LATFDLSVQGSHKRSLSLGDKEISRSSPALEQPFDRSNTLNEKPALPVIRDKYKDLTGEVEENERYA
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QQLLKDIDKVVNNLIGFMSLATLTPDENSLDFSSCMLRPGIKNAQELACGVCLLNVDSSRAFNFSETDSF
KLAYGGHQYHASCANFWINCVPEPKPPGLVLPDLL
  
```

TRTRPLE - GFP Tag - V

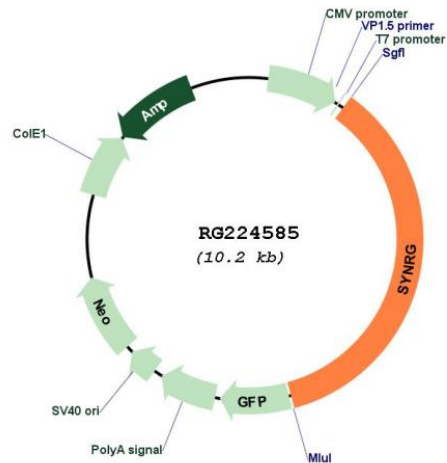
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_080550

ORF Size: 3672 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\\_080550.5](#)

RefSeq Size: 7911 bp

RefSeq ORF: 3675 bp

Locus ID: 11276

UniProt ID: [Q9UMZ2](#)

Cytogenetics: 17q12

**Domains:** EH

**Gene Summary:** This gene encodes a protein that interacts with the gamma subunit of AP1 clathrin-adaptor complex. The AP1 complex is located at the trans-Golgi network and associates specific proteins with clathrin-coated vesicles. This encoded protein may act to connect the AP1 complex to other proteins. Alternatively spliced transcript variants that encode different isoforms have been described for this gene. [provided by RefSeq, Jul 2008]