

Product datasheet for **RG229063**

SYNRG (NM_001163547) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYNRG (NM_001163547) 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:	>RG229063 representing NM_001163547 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCTGCGGCCAGGAGCTGGTTCTGGTGGCGGCGGGGCCGCGGGAGCTGGCGGGGTCCGCCGGG
GAGGCGGCTTCATGTTTCTGTTGCAGGTGGGATAAGACCCCTCAAGCAGGCCTGATGCCGATGCAGCA
ACAAGGATTTCTATGGTCTCTGTCATGCAGCCTAATATGCAAGGCATTATGGGAATGAATTACAGCTCT
CAGATGTCCCAAGGACCTATTGCTATGCAGGCAGGAATACCAATGGGACCAATGCCAGCAGCGGGAATGC
CTTACCTAGGACAAGCACCTTCTGGGCATGCGTCCTCCAGGCCACAGTACACTCCAGACATGCAGAA
GCAGTTTGCCGAAGAGCAGCAGAAAACGATTTGAACAGCAGCAAAAACCTTTAGAAGAAGAAAAGAAAGA
CGCCAGTTTGAAGAGCAGAAGCAAAAGCTCAGACTTTTGAGCAGTGTGAAACCAAGACAGGAGAGAAGA
GTAGAGATGATGCTTTGGAAGCCATAAAAGGAAATTTAGATGGGTTTTCCAGAGATGCAAAAATGCACCC
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CTCCAAGTGAATAGATACTGCCAACTGTATCCATTCTGATGTCATCTGGGCTTCCAGGAAACTCT
TGGACAGATATGGGCCTTAGCTAATCGAACTACACCTGGCAAACCTACAAAAGAAGAAGCTTTATACCGTT
CTAGCCATGATAGCGGTAAACACAGGTAGTAAAGCCAGAAGAAGTGAAGTCCAGGATTTTCAAGATGCTT
CTAAGTCAGGATCCCTTGATGACTCATTGAGTATTTCCAAGAGTTGCCTGCTTCTCAAAAACAAGTAA
CTCCAGCATGGAACAGTGCCCTTCTTTGTTGATGCCACTTCTGGAAGTAAAGCATTGCCTTCAATG
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GCTGCTACTATGACAGCATTGGCAGCAAAAACTTCTAGTTTGGCTGATGATTTTGGAGAATTCAGCC
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 TCAAGCTGGCCTATGGAGGGCACCAGTATCACGCCAGCTGTGCCAATCTGGATCAACTGTGTCGAACC
 AAAGCCTCCTGGCCTCGCTGCCTGACCTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG229063 representing NM_001163547
 Red=Cloning site Green=Tags(s)

MALRPGAGSGGGGAAGAGAGSAGGGFMFPVAGGIRPPQAGLMPMQQGFPMVSVMPQNMQIMGMNYSS
 QMSQGP IAMQAGIPMGMPAAGMPYLGQAPFLGMRPPGPQYTPDMQKQFAEEQQKRFEEQQKLEEEERKR
 RQFEEQKQLRLLSSVKPKTGEKSRDDALEAIKGNLDGFSRDAMHPTPASHPKKPGVGVFSPQDPAQPR
 MPPWIYNESLVPDAYKKILETTMTPTGIDTAKLYPILMSSGLPRETLGQIWALANRTTPGKLTKEELYTV
 LAMIAVTQVVKPEEDDFQDFQDASKSGSLDDSFDFQELPASSKTSNSQHGNSAPSLMLPLPGTKALPSM
 DKYAVFKGIAADKSSSENTVPPGDPGDKYSAFRELEQTAENKPLGESFAEFRSAGTDDGFTDFKTADSVSP
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 VPLTSNVGSTVKGGQNSTAASTKYDVFQRQLSLEGSGLGVEDLKDNTSPGKSDDDFADFHSKFSINSK
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 SGQHPPAAAGSGSPSATSILQKETSFGSSENITMTSLSKVTTTFVSEDALPETTFPALASFKDTIPQTS
 QKEYENRDYKDFTKQDLPTAERSQEATCPSPASSGASQETPNECSDDFGEFQSEKPKISKDFLVATSQS
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 LTGEVEENERYAYEWQRCLGSALNVIKKANDTLNGISSSVCTEVIQSAQGMAYLLGVVEYRVTKRVEL
 GIKATAVCSEKLQQLLKDIDKVWNNLIGFMSLATLTPDENSLDFSSCMLRPGIKNAQELACGVCLLNVD
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TRTRPLE - GFP Tag - V

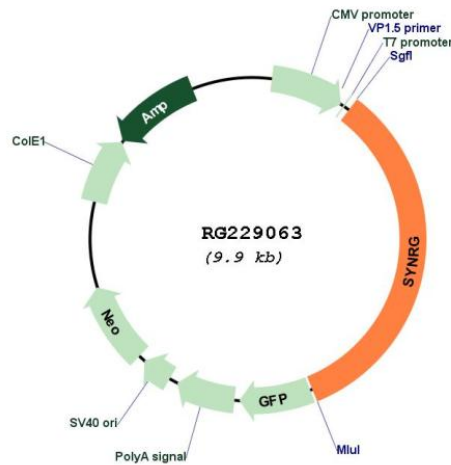
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001163547

ORF Size: 3324 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:	<ol style="list-style-type: none">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:	<u>NM_001163547.1, NP_001157019.1</u>
RefSeq Size:	7563 bp
RefSeq ORF:	3327 bp
Locus ID:	11276
UniProt ID:	<u>Q9UMZ2</u>
Cytogenetics:	17q12
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]