

Product datasheet for **MG216867**

Cand1 (NM_027994) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cand1 (NM_027994) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cand1
Synonyms:	2310038O07Rik; 6330512O03Rik; AI195005; AI846556; D10ErtD516e; mKIAA0829; Tp120a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216867 representing NM_027994 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCGCTTCGTACCACATCTCCAACCTGCTGGAGAAAATGACATCCAGCGACAAGGACTTCAGGT
TCATGGCGACCAACGACCTGATGACAGAGCTGCAGAAAGACTCTATCAAGCTGGACGATGACAGCGAGAG
GAAAGTTGTGAAGATGATTCTCAGGTTGCTGGAGGATAAAAATGGCGAAGTCAGAACTTAGCTGTCAA
TGCTTTGGCCCTTTGGTGAAGTAAAGTAAAGAGTACCAAGTGGAGACGATCGTGGACACCCTCTGCACCA
ACATGCTTTCTGACAAGGAGCAGCTGCGAGACATTTCCAGCATCGGCCTGAAAACAGTAATTGGAGA
TCCGCCAGCTTCCAGTGGCTCTGCATTAGCTGCTAATGTATGTAAGAAAGATTACTGGACGCCTTACCAGT
GCAATAGCAAAGCAGGAAGATGTTTCTGTTTCAGCTCGAAGCCTTGATATCATGGCTGACATGTTGAGCA
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TCAAACCTGAAGATTGATGCGCTGTCGTGTCTGTATGTCATCCTCTGTAACCACTCTCCTCAAGTTTTCC
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GTATCCAGAAAGATTCTCGTCCACCAACTTGAATCAATGGACACGAGT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG216867 representing NM_027994
 Red=Cloning site Green=Tags(s)

MASASYHISNLEKMTSSDKDFRFMATNDLMTELQKDSIKLDDDSERKVVKMILRLLLEDKNGEVQNLAVK
 CLGPLVSKVKEYQVETIVDTLCTNMLSDKEQLRDISSIGLKTIVIGELPPASSGSALAAVCKKITGRLTS
 AIAKQEDVSVQLEALDIMADMLSRQGGLLVNFHPSILTCLLPQLTSPRLAVRKRTIIALGHLVMSCGNIV
 FVDLIEHLLSELKNDMSMSTRTYIQCIAAISRQAGHRIGEYLEKIIPLVVKFCNVDDDELREYCIQAFE
 SFVRRCPKEYVPHVSTIINICLKYLTYPNINYDDEDEDENAMDADGGDDDDQGSDDDEYSDDDMSWKVR
 RAAAKCLDAVVSTRHEMLPEFYKTVSPALIARFKEREENVKADVHFAYLSLLKQTRPVQSWLCDPDAMEQ
 GDTPLTMLQSQVPIVKAHKQMKESVKTRQCCFNMLTELNVNLPGALTQHIPVLVPGIIFSLNDKSSS
 SNLKIDALSCLYVILCNHSPQVFHPHVQALVPPVACVGDPFYKITSEALLVTQQLVKVIRPLDQPSFSD
 ATPYIKDLFTCTIKRKAADIDQEVKERAI SCMGQIICNLGDNLGPDLSNTLQIFLERLKNEITRLTTVK
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 ISESDMHVSQMAISFLTTLAKVYPSL SKISGSILNEL IGLVRSPLLQGGALSAMLDFFQALVVTGTNNL
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 SLGEVGHIDLSGQLELKSIVILEAFSSPSEEVKSAAASYALGSISVGNLPEYLPFVLQEITSQPKRQYLLL
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 ARSSVVTAVKFTISDHPQPIDPLLNKICGDFLKTLEDPLNVRVALVTFNSAAHNKPSLIRDLLDSVLP
 HLYNETKVRKELIREVEMGPFKHTVDDGLDIRKA AFECMYTL DLSCLDRLDIFEFLNHVHEDGLKDHYDIK
 MLTFLMLVRLSTLCPSAVLQRLDRLVEPLRATCTTKVKANSVKQEFQKQDELKRSAMRAVAALLTIPEAE
 KSPLMSEFQSQISSNPELAAIFESI QKDSSTNLESMDTS

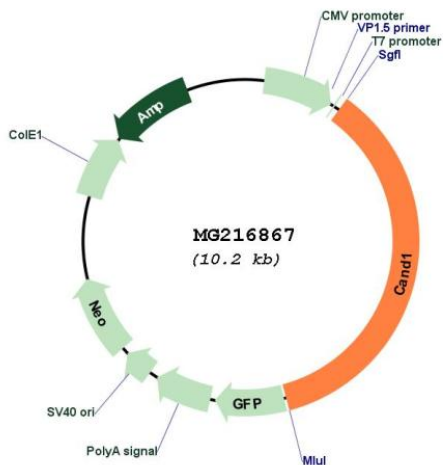
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_027994

ORF Size: 3690 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_027994.1](#), [NP_082270.1](#)

RefSeq Size: 8209 bp

RefSeq ORF: 3693 bp

Locus ID: 71902

UniProt ID: [Q6ZQ38](#)

Cytogenetics: 10 67.08 cM

Gene Summary: Key assembly factor of SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase complexes that promotes the exchange of the substrate-recognition F-box subunit in SCF complexes, thereby playing a key role in the cellular repertoire of SCF complexes. Acts as a F-box protein exchange factor. The exchange activity of CAND1 is coupled with cycles of neddylation conjugation: in the deneddylated state, cullin-binding CAND1 binds CUL1-RBX1, increasing dissociation of the SCF complex and promoting exchange of the F-box protein. Probably plays a similar role in other cullin-RING E3 ubiquitin ligase complexes (By similarity).
[UniProtKB/Swiss-Prot Function]