

Product datasheet for **RG222850**

C10orf46 (CACUL1) (NM_153810) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C10orf46 (CACUL1) (NM_153810) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C10orf46
Synonyms:	C10orf46; CAC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222850 representing NM_153810 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGGAAAGCATGGAAGAGGAGGAGGGGGCAGCTACGAGGCGATGATGGACGACCAGAACCACAACA
ACTGGGAGGCTGCGGTGGACGGCTTCGGCAGCCCTGCCACCTCCGCCGCCCTCGTCGATCCCGG
CCCTGCCGAGAGCCTCCGGGGGGCAGCTGCTGGCGGTGCCCGCGGTCTCCGTGGACAGGAAAGGCCCC
AAGGAGGGGCTCCCGATGGGGCCGAGCCACCGCCGAGGCTAATGGGGTGATCATGATGTTGAAGAGCT
GCGACGCGGCCGCGCGCTGGCCAAGGCGGCCCGCCCCACCGCCAGCTCCACCATCAACATCAACAC
CTCCACCTCCAAGTTCTTAATGAATGTTATAACTATTGAAGATTATAAGAGCACATACTGGCCAAAATTG
GATGGTGCCATAGATCAACTTTAACTCAGAGTCTGGTGACTATATCCCATATCCTATGAACAGATAT
ACAGTTGTGTGTATAATGTGTATGCCAGCAGCACTCGGAACAGATGTATAGTGATCTGATTAAGAGAT
AACTAATCACTTAGAGAGAGTCTCAAAGGAGCTGCAGGCCAGCCCTCCAGATCTCTATATTGAAAGATTT
AATATAGCTCTTGACAATATATGGGAGCATTGCAGAGCATTGTGCCTCTTTTCATATATATGAATAAGT
TTTACATCGAAACCAAGCTTAACAGAGACTTAAAGATGACCTTATAAAGCTGTTTACGGAACATGTTGC
AGAAAAGCACATTTACAGCCTAATGCCTTTACTTTTAGAAGGCCAGTCAACACCATTTTCAGGTCACACCT
TCAACTATGGCAAATATTGTGAAAGGCTGTATACCCTCAGACCAGAGTGGGTTTCAGATGGCTCCAATC
TATTTTCTAAATTTATTCCAAACATTCTCCTCCGGCGGTGGAATCTGAACCTTTCTGAATATGCTGCTCA
AGATCAGAAATTTCAAAGAGAACTTATACAGAATGGTTTTACAAGGGGTGACCAGTCCCGGAAGAGAGCT
GGGGATGAGTTGGCTTATAATAGCTCGTCAGCATGTGCAAGTTCCAGGGGTACAGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222850 representing NM_153810
 Red=Cloning site Green=Tags(s)

MEESMEEEEGGSYEAMDDQNHNNWEAAVDGFRQLPPPPPPSSIPAPAREPPGGQLLAVPAVSVDKGP
 KEGLPMGPQPPEANGVIMMLKSCDAAA AVAKAAPAPTASSTININTSTSKFLMNVITIEDYKSTYWPKL
 DGAIDQLLTQSPGDYIPISYEQIYSCVYKVCQHQHSEQMYSDLIKKITNHLERVSKEQLASPPDLYIERF
 NIALGQYMGALQSIVPLFIYMNKFYIETKLNRLDKDDL IKL FTEHVAEKHIYSLMPLLEAQSTPFQVTP
 STMANIVKGLYTLRPEWVQMAPTLFSKFIPNILPPAVESELSEYAAQDQKFQRELIQNGFTRGDQSRKRA
 GDELAYNSSSACASSRGYR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_153810

ORF Size: 1107 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_153810.5](#)

RefSeq Size: 6758 bp

RefSeq ORF: 1110 bp

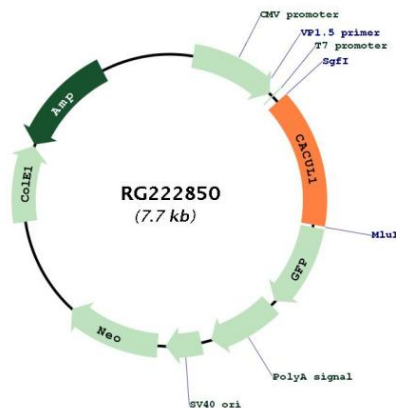
Locus ID: 143384

UniProt ID: [Q86Y37](#)

Cytogenetics: 10q26.11

Gene Summary: Cell cycle associated protein capable of promoting cell proliferation through the activation of CDK2 at the G1/S phase transition.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222850