

Product datasheet for **RG223672**

CABLES1 (NM_001100619) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CABLES1
Synonyms:	CABL1; CABLES; HsT2563; IK3-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG223672 representing NM_001100619
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGGCGGCGGCGGCCGCCACACGGCCGCTGCAGCAGCGGCAGCGCCGGCACCGACGCCGCGG
 GCGCCAGCGGATTGCAGCAGCCGCCGCCAGCCAGCCCTAGCCCGCGGCCGCCGCGCCGCCAGCC
 GCCGCCGAACCCCCCGGAAGCCGCGCATGGACCCGCGGCCGCCAGGCTGCCCTCTCCTTCTCACC
 AACATCTCGCTGGACGGCCGCTGCCGCCGAGGACGCGGAGTGGGGCGGTGGCGAGGAGGGCGCGCGG
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 GACGATGCCTTTATCAGCGTGCAGGTGCCGCGGCCGCTTTTGGGCTCCGGGACCCCGGAGTGGGA
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 GTTAGTGGCCTTGAATTCGCCCTCCACTTGCCCGAGCACGAAGTCATGCCCCACTACAGACGGCTGGTC
 CAGAGTTCC

AGCGGACCGACGCGTACGCGCGCTCGAG - GFP Tag - GTTTAA

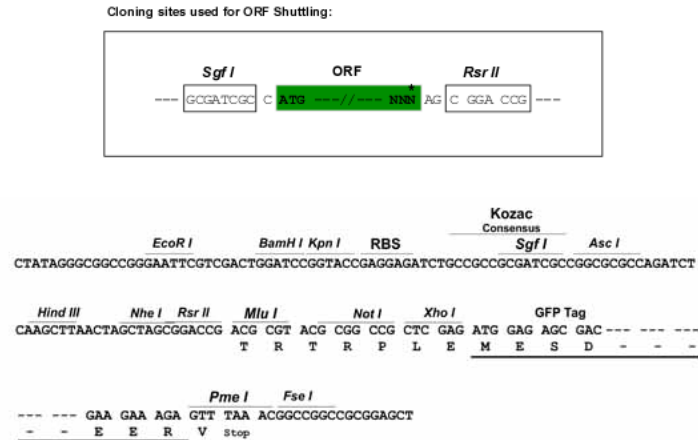
Protein Sequence: >RG223672 representing NM_001100619
 Red=Cloning site Green=Tags(s)

MAAAAAATTAACSSGSAGTDAAGASGLQQPPQPQPAAAAAPAQPPPEPRKPRMDPRRRQAALSFLT
 NISLDGRLPPQDAEWGGEEGGAAPGAGGACGARTRFSLLAAEERGGCTALAAPGTPAAGLAAGSGPCL
 PQPSSLPLIPGGHATVSGPGVARGFASPLGAGRASGEQWQPPRAPLAACAQLQLLDGSGAAGQEELEE
 DDAFISVQVPA AFLSGTTPSGSGSRGR LNSFTQILPIAFSRPTSQNYCSLEQPGQGGSTSAFEQLQR
 SRRRLISQRSSLETLEDIEENAPLRRCRTLSGSPRPKNFKKIHF IKNMQRHDTNRGRIVLISGRRSFCST
 FSVLPYRDSTQVGD LKLDGGRQSTGAVSLKEIIGLEGVELGADGKTVSYTQFLPTNAFGARRNTIDSTS
 SFSQFRNLSHRSLSIGRASGTGSLDGTGSLDGFMDYDPNLLDDPQWPCGKHKRVLI FFSYMTTVIDYVK
 PSDLKKDMNETFKEKFPHIKLTL SKIRSLKREMRKLAQEDCGLEETVAMAFVFEKLALKGKLNQNRK
 LCAGACVLLAAKIGSDLKKHEVKHLIDKLEEFRLNRRELIAFEFPVLVALEFALHLPHEHVMPHYRRLV
 QSS

SGPTRTRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001100619

ORF Size: 1899 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.

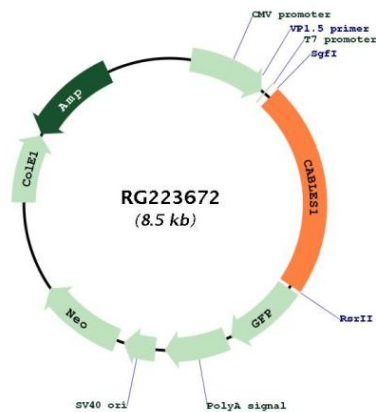
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001100619.2](#), [NP_001094089.1](#)

RefSeq Size: 5024 bp
RefSeq ORF: 1902 bp
Locus ID: 91768
UniProt ID: [Q8TDN4](#)
Cytogenetics: 18q11.2

Gene Summary: This gene encodes a protein involved in regulation of the cell cycle through interactions with several cyclin-dependent kinases. One study (PMID: 16177568) reported aberrant splicing of transcripts from this gene which results in removal of the cyclin binding domain only in human cancer cells, and reduction in gene expression was shown in colorectal cancers (PMID: 17982127). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG223672