

Product datasheet for **RG201883**

C2Iorf91 (NM_017447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C2Iorf91
Synonyms:	C2Iorf14; C2Iorf38; CSSG1; EURL; YG81
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG201883 representing NM_017447
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAACGAAGAGGAGCAGTTTGTAAACATTGATTGAATGATGACAACATTTGCAGTGTTTGTAACTGG
GAACAGACAAAGAACTCTCCTTCTGCCACATTTGTTTGGAGCTAAATATTGAGGGGGTACCAAAGTC
TGATCTCTTGACACCAAAATCATTAAAGGGCCATAAGACTGCTTTGAAAAATACCATTTAATTGCAAAC
CAGGGTTGTCCTCGATCTAAGCTTTCAAAAGTACTTATGAAGAAGTTAAACCATTTTGAAGTAAGAAGA
TAAACTGGATTGTGCAGTATGCACAAAATAAGGATCTGGATTTCAGATTCTGAATGTTCTAAAAACCCCA
GCATCATCTGTTTAATTCAGGCATAAGCCAGAAGAAAAATTAATCCACAGTTTGAAGTCCCAAGTACCA
AAATATTCTGCAAAATGGATAGATGGAAGTGCAGGTGGCATCTCTAATGTACACAAAGATTTTGGAGC
AGAGGGAAAATACAGACTTTGGACTTTCTATGTTACAAGATTCAGGTGCCACTTTATGTCGTAACAGTGT
ATTGTGGCCTCATAGTCACAACAGGCACAGAAAAAGAGACAATCTCTAGTCCAGAGGCTAATGTC
CAGACCCAGCATCCACATTACAGCAGAGAGGAATTGAATTCGATGACTCTTGGTGAGGTAGAGCAACTGA
ATGCAAAGCTCCTACAGCAATCCAGGTTTTTGAAGAGTTAACTCACAAGTGAAGAAAAAGATTCTTT
GGCCTCACAGCTCCATGTCCGCCACGTTGCCATCGAACAGCTTCTGAAGAACTGTTCTAAGTTACCATGT
CTGCAAGTAGGGCAACAGGAATGAAGTCGCACCTACCCATAAACAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG201883 representing NM_017447
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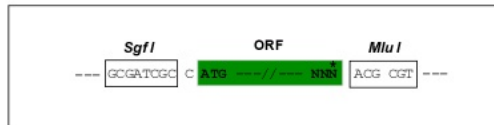
MNEEEQFVNIDLNDNICSVCKLGTDKETLSFCHICFELNIEGVKPSDLLHTKSLRGHKDCFEKYHLIAN
QGCPRSKLSKSTYEEVKILSKKINWIVQYAQNKDLSDSECSKNPQHHLFNRHKPEEKLLPQFESQVP
KYSAKWIDGSAGGISNCTQRILEQRENTDFGLSMLQDSGATLCRNSVLWPHSHNQAQKKEETISSPEANV
QTQHPHYSREELNSMTLGEVEQLNAKLLQQIQVFEELTHQVQEKDSLASQLHVRHVAIEQLLKNC SKLPC
LQVGRGTMKSHLPINN

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

ACCN: NM_017447

ORF Size: 888 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_017447.2](#), [NP_059143.2](#)

RefSeq Size: 1521 bp

RefSeq ORF: 891 bp

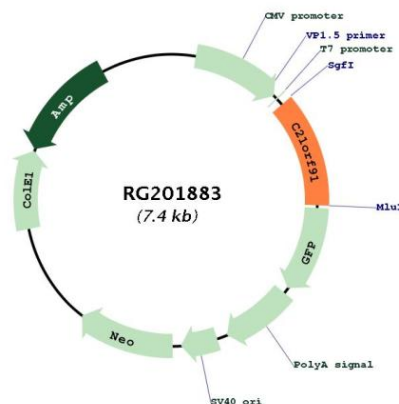
Locus ID: 54149

UniProt ID: [Q9NYK6](#)

Cytogenetics: 21q21.1

Gene Summary: Plays a role in cortical progenitor cell proliferation and differentiation. Promotes dendritic spine development of post-migratory cortical projection neurons by modulating the beta-catenin signaling pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201883