

Product datasheet for **RG219565**

C21orf91 (NM_001100420) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C21orf91 (NM_001100420) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: C21orf91
Synonyms: C21orf14; C21orf38; CSSG1; EURL; YG81
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG219565 representing NM_001100420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGAACGAAGAGGAGCAGTTTGTAAACATTGATTTGAATGATGACAACATTTGCAGTGTTTGTAACTGG
 GAACAGACAAAGAAACACTCTCCTTCTGCCACATTTGTTTTGAGCTAAATATTGAGGGGGTACCAAAGTC
 TGATCTCTTGACACCAAATCATTAAGGGGCCATAAAGACTGCTTTGAAAAATACCATTTAATTGCAAAC
 CAGGGTTGTCCTCGATCTAAGCTTTCAAAAAGTACTTATGAAGAAGTTAAAACCATTTTGTAGTAAGAAGA
 TAAACTGGATTGTGCAGTATGCACAAAATAAGGATCTGGATTCTGATTCTGAATGTTCTAAAAACCCCA
 GCATCATCTGTTAATTTCAAGCATAAGCCAGAAGAAAAATTACTCCACAGTTTACTCCCAAGTACCA
 AAATATTCTGCAAAATGGATAGATGGAAGTGCAGGTGGCATCTCTAACTGTACACAAAGATTTTGGAGC
 AGAGGGAAAAATACAGACTTTGGACTTTCTATGTTACAAGATTCAGGTGCCACTTTATGTCGTAACAGTGT
 ATTGTGGCCTCATAGTCAACACAGGCACAGAAAAAGAAGACAACTCTAGTCCAGAGGCTAATGTC
 CAGACCCAGCATCCATTACAGCAGAGAGGAATTGAATTCGATGACTCTTGGTGAGGTAGAGCAACTGA
 ATGCAAAGCTCTACAGCAAATCCAGGAAGTTTTGAAGAGTTAACTACCAAGTGAAGAAAAAGATTC
 TTTGGCCTCACAGCTCCATGTCCGCCACGTTGCCATCGAACAGCTTCTGAAGAAGTCTTAAGTTACCA
 TGCTGCAAGTAGGGCGAACAGGAATGAAGTCGCACCTACCCATAAACAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219565 representing NM_001100420
Red=Cloning site Green=Tags(s)

MNEEEQFVNIDLNDNICSVCKLGTDKETLSFCHICFELNIEGVPKSDLLHTKSLRGHKDCFEKYHLIAN
 QGCPRSKLSKSTYEEVKTILSKKINWIVQYAQNKDLSDSECSKNPQHHLFNRHHPKPEKLLPQFDSQVP
 KYSAKWIDGSAGGISNCTQRILEQRENTDFGLSMLQDSGATLCRNSVLWPHSHNQAKKEETISSPEANV
 QTQHPHYSREELNSMTLGEVEQLNAKLLQIQEVFEELTHQVQEKDSLASQLHVRHVAIEQLLKNC SKLP
 CLQVGRGTMKSHLPINN

TRTRPLE - GFP Tag - V

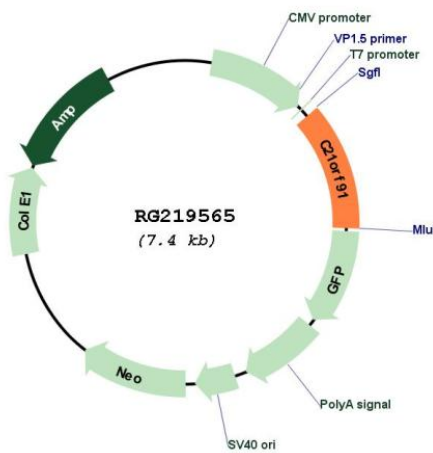
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001100420

ORF Size: 891 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:	NM_001100420.2
RefSeq Size:	5451 bp
RefSeq ORF:	894 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]