

Product datasheet for **RG219618**

C21orf91 (NM_001100421) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C21orf91 (NM_001100421) 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:	>RG219618 representing NM_001100421 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACGAAGAGGAGCAGTTTGTAAACATTGATTTGAATGATGACAACATTTGCAGTGTTTGTAACTGG
GAACAGACAAAGAAACACTCTCCTTCTGCCACATTTGTTTTGAGCTAAATATTGAGGGGGTACCAAAGTC
TGATCTCTTGACACCAAATCATTAAAGGGGCCATAAAGACTGCTTTGAAAAATACCATTTAATTGCAAAC
CAGGGTTGTCCTCGATCTAAGCTTTCAAAAAGTACTTATGAAGAAGTTAAAACCATTTTGTAGTAAGAAGA
TAACTGGATTGTGCAGTATGCACAAAATAAGGATCTGGATTCTGATTCTGAATGTTCTAAAACCCCA
GCATCATCTGTTAATTTCAAGCATAAGCCAGAAGAAAAATTACTCCACAGTTTACTCCCAAGTACCA
AAATATTCTGCAAAATGGATAGATGGAAGTGCAGGTGGCATCTCTAACTGTACACAAAGATTTTGGAGC
AGAGGGAAAAATACAGACTTTGGACTTTCTATGTTACAAGATTCAGGTGCCACTTTATGTCGTAACAGTGT
ATTGTGGCCTCATAGTCAACACAGGCACAGAAAAAGAAGACAACTCTAGTCCAGAGGCTAATGTC
CAGACCCAGCATCCACATTACAGCAGAGAGGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219618 representing NM_001100421
Red=Cloning site Green=Tags(s)

MNEEEQFVNIDLNDNDNICSVCKLGTDKETLSFCHICFELNIEGVPKSDLLHTKSLRGHKDCFEKYHLIAN
 QGCPRSKLSKSTYEEVKTILSKKINWIVQYAQNKDLSDSECSKNPQHHLFNRHHPKPEKLLPQFDSQVP
 KYSAKWIDGSAGGISNCTQRILEQRENTDFGLSMLQDSGATLCRNSVLWPHSHNQAKKEETISSPEANV
 QTQHPHYSREE

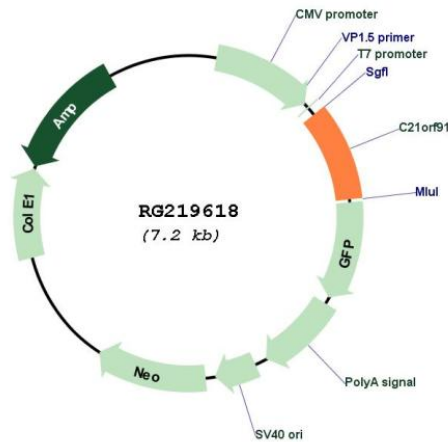
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001100421

ORF Size: 663 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_001100421.2
RefSeq Size:	5388 bp
RefSeq ORF:	666 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]