

Product datasheet for **RG211891**

CCNO (NM_021147) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CCNO
Synonyms:	CCNU; CILD29; UDG2
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211891 representing NM_021147
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGTGACCCCTGTCCACCAGCCCTCGAGCCCGCCCGGAGCGGGAGGCGGACAACGACCAGA
ACCTTCGCGCCCCGGTGAAGAAGAGCAGCGCTCCGCGCTCCGGAGGAAGCAGCCGCTGCATCCCCTGAA
CCCGTGCCCGCTCCCGGAGACTCCGGCATTTCGACCTGTTGAGTCCCCAGCTCCGGCTCAGACGGC
GCAGAGAGCCCTCTGCGGCGCGGGGTGGTAGCCCCCTGCCCGCCCGGCCAGCCCGTGGCGCAGCTAG
ATCTACAGACCTTCGCGACTACGGCCAGAGCTGCTACGCCTTCGCAAGGCGCAGGAGAGCCACTTCCA
CCCGCGGGAGGCGCTGGCAGGCAGCCACAAGTGACGCGGAATCCCGCTGTAAGCTGCTCAGCTGGCTG
ATCCCGGTGCACCGCCAATTCGGCTCTCCTTCGAGTCGCTGTGCCTGACGGTGAACACTCTGGACCGCT
TCCTCACCACCACCGCGTGGCTGCAGACTGCTTCAGCTGCTTGGGTACCTCCTTGCTCATCGCTTG
CAAACAGGTGGAGGTGCACCCGCCGCGCTGAAGCAGCTTCTGGCCCTCTGCTGCGGCGCTTCTCCCGG
CAGCAGCTCTGCAACCTCGAGTGATCGTCTGCACAAGCTGCACTTACCCTGGGTGCGCCACCATT
GCTTCTTCTGGAGCATTTACGCACGCTCGCTGGGGCGGGGAGGCTGAGGCTCCGAAGCTCTGGA
AGCGCAAGCCCTGGCGCGGGGGTGGCAGAGCTGAGTCTGGCCGACTATGCCTTACCAGCTACTCCCCT
TCCCTCTGGCGATCTGCTGCCTGGCGCTGGCGGACCGCATGCTGCGGGTCTCGCGGCCCGTGGACTTGC
GACTGGGAGACCACCGGAGGCGGCTGGAGGACTGTATGGGCAAGTTGCAGCTGCTGGTGCCATAAA
CAGTACTTCTTGACTCACATGCTGCCCGTTAGATCTGCGAGAAGTGCAGCTGCCCGGAGCTCGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG211891 representing NM_021147
Red=Cloning site Green=Tags(s)

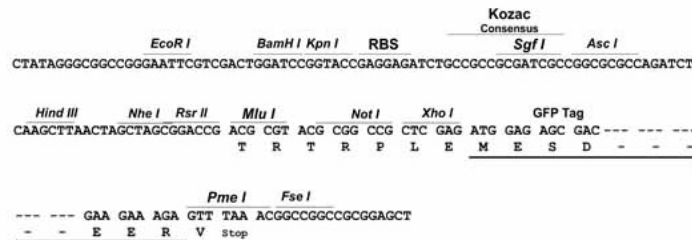
MVTPCPTSPSSPAARAGRRDNDQNLRAVPKKSRRPRLRRKQPLHPLNCPPLPGDSGICDLFESPSSGSDG
AESPSAARGGSPPLPGPAQPVQLDLQTFRDYGGQSCYAFRKAQESHFHPREALARQPQVTAESRCKLLSWL
IPVHRQFGLSFESLCLTVNTLDRFLTTTPVAADCFQLLGVTSLLIACKQVEVHPPRVKQLLALCCGAFSR
QQLCNLECIVLHKLHFTLGAPTISFFLEHFTHARVGAGQAEASEALEAQALARGVAELSLADYAFTSYSP
SLLAIICCLALADRLRVSRPVDRLRGDHPEAALEDCEMGLQLLVAINSTSLTHMLPVQICEKCSLPPSSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_021147

ORF Size: 1050 bp

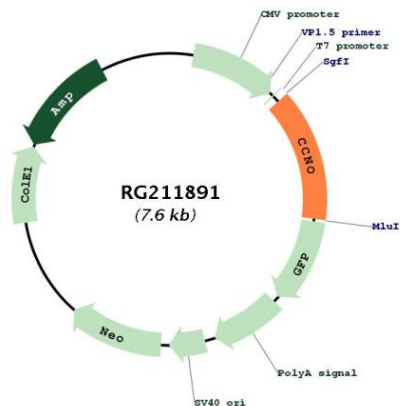
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<u>NM_021147.2</u> , <u>NP_066970.2</u>
RefSeq Size:	1448 bp
RefSeq ORF:	1053 bp
Locus ID:	10309
UniProt ID:	<u>P22674</u>
Cytogenetics:	5q11.2
Gene Summary:	This gene encodes a member of the cyclin protein family, and the encoded protein is involved in regulation of the cell cycle. Disruption of this gene is associated with primary ciliary dyskinesia-19. Alternative splicing results in multiple transcript variants. This gene, which has a previous symbol of UNG2, was erroneously identified as a uracil DNA glycosylase in PubMed ID: 2001396. A later publication, PubMed ID: 8419333, identified this gene's product as a cyclin protein family member. The UNG2 symbol is also used as a specific protein isoform name for the UNG gene (GeneID 7374), so confusion exists in the scientific literature and in some databases for these two genes. [provided by RefSeq, Jul 2014]

Product images:



Circular map for RG211891