

Product datasheet for **RG200831**

C1orf135 (AUNIP) (NM_024037) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf135 (AUNIP) (NM_024037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C1orf135
Synonyms:	AIBP; C1orf135
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG200831 representing NM_024037 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCGGACAGGCCCGAGGAGGAGGCTGCGCGTGTGGCTGGACGCGGCGGCTGAAGAGGCGGA
 AAGTGCAGACACATTTAATCAAACAGGCACCAAAATGCTAACACTCCTCCTGGAGAAAGAAAGGCTAA
 TATTTATTTTACTCAAAGAAGAGCTCCATCTACAGGCATTCACCAGAGAAGCATTGCTTCCTTCTTCACC
 TTGCAGCCAGGAAAGACAAATGGCAGTGACCAGAAGAGTGTTCATCTCATACAGAAAGTCAGATCAACA
 AAGAGTCCAAGAAAAATGCGACCCAGCTAGACCATTTGATCCCAGGCTTAGCACACGATTGCATGGCATC
 CCCTTTAGCCACTTCAACCACTGCAGACATCCAGGAAGCTGGACTCTCTCCTCAGTCCCTCCAGACTTCT
 GGCCACCACAGAATGAAAACCCCATTTTCAACTGAGCTATCTTTGCTCCAGCCTGATACTCCAGACTGTG
 CTGGAGATAGTCATACCCCACTGGCTTTTTCTTCACCGAGGACTTGGAAGTTCTTGTTTGCTAGACCG
 AAAGGAAGAAAAAGGGATTCTGCCAGGAAATGGGAATGGCTTCATGAGTCTAAGAAGAACTATCAGAGT
 ATGGAGAAACACACCAAACTACCTGGGGACAAATGCTGTCAGCCCTTAGGCAAGACTAAATTGGAAGAA
 AGGTGTCTGCCAAAGAAAACAGGCAGGCCCTGTCTCCTTCAACATACAGGGAATCCTGGAATGGAGA
 AAACATAGAATCAGTGAAACAAAGCCGTAGTCCAGTTTCTGTGTTTTCTGGGACAATGAAAAGAATGAC
 AAGGACTCCTGGAGTCACTTTTCACTGAAGATTCTCAAGGCCAGCGGGTATTGCCACAACACTAGAG
 CTCCTTTTCAAGATGTAACCAATAACTGGAATTGGGACTTAGGGCCGTTTCTTAACAGTCTTGGGCTCA
 GTGCCAGGAGGATGGGCCAACTCAAATCTGAAGCCTGATTTGCTCTTTACCCAGGACTCTGAAGGTAAT
 CAAGTTATCAGACACCAATTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG200831 representing NM_024037
 Red=Cloning site Green=Tags(s)

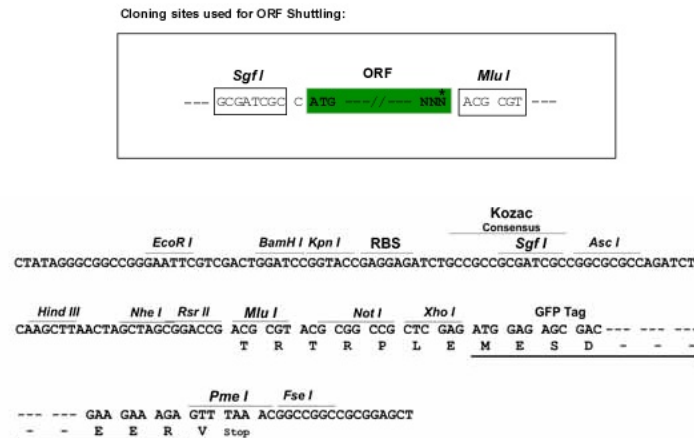
MRRTGPEEEACGVWLDAAALKRRKVQTHLIKPGTKMLTLLPGERKANIYFTQRRAPSTGIHQRSIASFFT
 LQPGKTNQSDQKSVSSHESQINKESKKNATQLDHLIPGLAHDMASTPLATSTTADIQEAGLSPQSLQTS
 GHHRMKTPTFSTELSLQPDTPDCAGDSHTPLAFSTEDLESSCLLDKKEEKGDSARKWEWLHESKKNYQS
 MEKHTKLPDGKCCQPLGKTKLERKVSARENQAPVLLQTYRESWNGENIESVKQSRSPVSFVSWDNEKND
 KDSWSQLFTEDSQQRVIAHNTRAPFQDVTNNWNWDLGFPNSPWAQCQEDGPTQNLKPDLLFTQDSEGN
 QVIRHQF

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_024037

ORF Size: 1071 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_024037.3](#)

RefSeq Size: 2061 bp

RefSeq ORF: 1074 bp

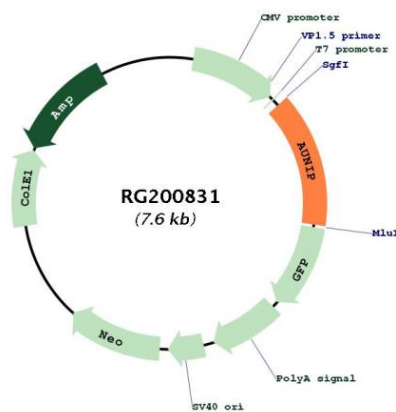
Locus ID: 79000

UniProt ID: [Q9H7T9](#)

Cytogenetics: 1p36.11

Gene Summary: DNA-binding protein that accumulates at DNA double-strand breaks (DSBs) following DNA damage and promotes DNA resection and homologous recombination (PubMed:29042561). Serves as a sensor of DNA damage: binds DNA with a strong preference for DNA substrates that mimic structures generated at stalled replication forks, and anchors RBBP8/CtIP to DSB sites to promote DNA end resection and ensuing homologous recombination repair (PubMed:29042561). Inhibits non-homologous end joining (NHEJ) (PubMed:29042561). Required for the dynamic movement of AURKA at the centrosomes and spindle apparatus during the cell cycle (PubMed:20596670).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200831