

## Product datasheet for **RG207481**

### **C20orf77 (RPRD1B) (NM\_021215) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf77 (RPRD1B) (NM_021215) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C20orf77
Synonyms:	C20orf77; CREPT; dj1057B20.2; K-H; Kub5-Hera; NET60
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207481 representing NM_021215 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTCCTTCTCTGAGTCGGCGCTGGAGAAGAAGCTCTCGGAGCTGAGCAACTCTCAGCACAGCGTGC  
AGACCCTGTCCCTTTGGCTCATCCACCACCGCAAGCACGCGGGACCCATCGTCTCCGTGTGGCACC  
GCTCCGCAAAGCCAAATCAAATAGAAAGCTTACTTTTCTGTATTTAGCGAATGATGTCATCCAAAACAGT  
AAAAGGAAAGGACCTGAATTCAGTAGAGAAATTTGAATCTGTCCTTGTGGATGCTTTTCTCATGTTGCCA  
GAGAGGCAGATGAAGGCTGTAAAAACCTTTAGAAAGATTGCTGAACATCTGGCAAGAACGAAGTGTGTA  
TGGCGGGAGTTCATACAGCAGCTGAAGCTGTCTATGGAGGACTCCAAGAGCCCTCCCCAAAGCAACA  
GAAGAGAAGAAATCTCTGAAACGAATTTTCAGCAAATTCAGGAGGAGGAGGATGACGACTACCCTGGCA  
GCTACTCTCCTCAGGATCCTTCTGCAGGACCCCTCTTACTGAGGAACTAATCAAAGCTTTCAGGATCT  
GGAAAAATGCCGCATCAGGGGATGCTACTGTCCGACAGAAAATGCTTCTCTGCCCCAGGAAGTCAAGAT  
GTTTCTCTATTGGAAAAATAACAGACAAAGAGGCAGCTGAACGTCTTTCAAAAACAGTAGATGAAGCAT  
GTCTGTTACTAGCAGAAATAACGGGCGCCTGGCAGCAGAACTGGAGGACCGTCGCCAGCTGGCTCGGAT  
GTTGGTGGAGTATACCCAGAATCAGAAAGATGTTTTGTCGGAGAAGGAGAAAAAACTAGAGGAATACAAA  
CAGAAGCTTGCAGGATACCCAGTCCGCAAGGAACTGAAATCCCATATTCAGAGCTTGCCAGACCTCT  
CACTGTGCCAACGTCACAGGGGGCTTAGCCCCCTGCCCTCTGCTGGGACCTGTTTTCAACTGAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207481 representing NM\_021215  
Red=Cloning site Green=Tags(s)

MSSFESALEKKLSELSNSQHSVQTL~~SLWL~~I~~HHRKHAGPIVSVVHREL~~RKAKSNRKL~~TFLYLANDVIQNS~~  
 KRKGPEFTREFESVLVDAF~~SHVAREADEGCKKPLERLLNIWQERSVYGGFEIQQLKLSMEDSKSPPPKAT~~  
 EEKSLKRTFQQIQEEEDDDYPGYSYSPQDPSAGPLL~~TEELIKALQDLENAASGDATVRQKIASLPQEVQD~~  
 VSLLLEK~~ITDKEAAERLSKTVDEACLLLAEYNGRLAAELED~~RRQLARMLVEY~~TQNQK~~DVLSEKEKKLEEYK  
 QKLARVTQVRKELKSHIQSLPDL~~SLLPNVTGGLA~~PLPSAGDLFSTD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_021215

**ORF Size:** 978 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.

**RefSeq:** [NM\\_021215.2](#), [NP\\_067038.1](#)

**RefSeq Size:** 4219 bp

**RefSeq ORF:** 981 bp

**Locus ID:** 58490

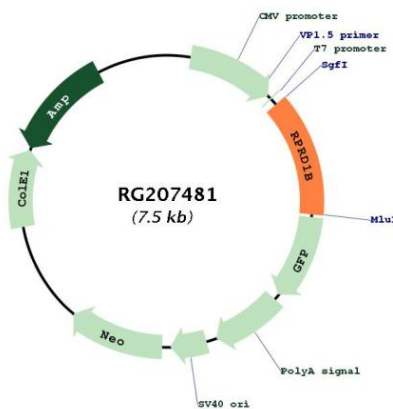
**UniProt ID:** [Q9NQG5](#)

**Cytogenetics:** 20q11.23

**Domains:** RPR, DUF618

**Gene Summary:** Interacts with phosphorylated C-terminal heptapeptide repeat domain (CTD) of the largest RNA polymerase II subunit POLR2A, and participates in dephosphorylation of the CTD by RPAP2. Transcriptional regulator which enhances expression of CCND1. Promotes binding of RNA polymerase II to the CCND1 promoter and to the termination region before the poly-A site but decreases its binding after the poly-A site. Prevents RNA polymerase II from reading through the 3' end termination site and may allow it to be recruited back to the promoter through promotion of the formation of a chromatin loop. Also enhances the transcription of a number of other cell cycle-related genes including CDK2, CDK4, CDK6 and cyclin-E but not CDKN1A, CDKN1B or cyclin-A. Promotes cell proliferation.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG207481