

## Product datasheet for **RG200114**

### **C20orf20 (MRGBP) (NM\_018270) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C20orf20 (MRGBP) (NM\_018270) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** C20orf20  
**Synonyms:** C20orf20; Eaf7; MRG15BP; URCC4  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG200114 representing NM\_018270  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGAGAGGCCGAGGTGGGCGGGGGCGCCGAGGCGACAAGGGCCCGGGGAGGGCGCCACCAGCC  
 CGGCGGAGGAGACAGTGGTGTGGAGCCCCGAGGTGGAGGTGTGCCTCTTCCACGCCATGCTGGGCCACAA  
 GCCCGTCGGTGTGAACCGACACTTCCACATGATTTGTATTCGGGACAAGTTCAGCCAGAACATCGGGCGG  
 CAGGTCCCATCCAAGTCATCTGGGACCATCTGAGCACCATGTACGACATGCAGGCGCTGCATGAGTCTG  
 AGATTCTCCATTCCCGAATCCAGAGAGAACTTCGTCCTTCCAGAAGAGATCATTCCAGGAGTCCGAGA  
 AGGAAAAGTGATGATAGAAGAGGAGATGAAAGAGGAGATGAAGGAAGACGTGGACCCCAATGGGGCT  
 GACGATGTTTTTTCATCTTCAGGGAGTTTGGGGAAAGCATCAGAAAAATCCAGCAAAAGACAAGAGAAGA  
 ACTCCTCAGACTTGGGGTGCAAAGAAGCGCAGACAAGCGGAAGCGCAGCCGGGTACCGACAAAGTCTT  
 GACCGCAAACAGCAACCTTCCAGTCCCAGTGTGCCAAGCGGCGCCGACG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG200114 representing NM\_018270  
 Red=Cloning site Green=Tags(s)

MGEAEVGGGAAGDKGPGEAATSPAEEVTVWSPEVEVCLFHAMLGHKPVGVNRHFHMICIRDKFSQNIQR  
 QVPSKVIWDHLSTMYDMQALHESEILPFPNPERNFVLPPEEIIQEVREGKVMIEEEMKEEMKEDVDPHNGA  
 DDVFSSSGSLGKASEKSSKDKENSSDLGCKEGADKRKRSRVTDKVLTANSNPSSPSAAKRRRT

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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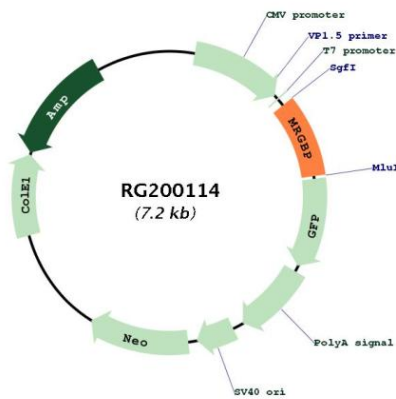
**Cloning Scheme:**


- ACCN:** NM\_018270
- ORF Size:** 612 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\\_018270.6](#)
- RefSeq Size:** 1685 bp
- RefSeq ORF:** 615 bp
- Locus ID:** 55257
- UniProt ID:** [Q9NV56](#)
- Cytogenetics:** 20q13.33

**Protein Families:** Transcription Factors

**Gene Summary:** Component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage.  
[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG200114