

## Product datasheet for **RG233409**

### **C1orf86 (FAAP20) (NM\_001256946) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** C1orf86 (FAAP20) (NM\_001256946) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** C1orf86  
**Synonyms:** C1orf86; FP7162  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG233409 representing NM\_001256946  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGCGCGCGGAGGCCGCGCTGGGGTTGAGCCGCCGAGGCCGCCCGCGGGCGGCCTTCTG  
 GCGGCCGCCCTGGTTTCTCTGGGGGTGATGAGCGGGAGCGGCTCTGGCCGAGCTACTGCGCACGGT  
 GAGCCCGAGCTGATCCTGGATCAGAGGTGCCTTCACTGCCCGCTTCCAGGACAGGAGCCAGGTGC  
 GGCCCGAGCCACTGAAGTCTTACTGTGGACCCAAGACCTTTTCTGGACACCCTTCCGCCGACC  
 TGTGGGCGCGCGCTTCTACCGGCTGCTTACGGGGCAGGAGGCACCTGGAATCCCGCCAGGTC  
 CCTGCCCCAGCGCCCGCACCTGATCCCTGCAGGGCCCCAGGGTGGAGCAGCAGCCGTCTGTGGAGGT  
 GCCCGGCCCTGCGCAGCTGCCCATGTGCCAGAAGGAGTTCGCCCCAGAAGCAAAAACAGCTCGGAA  
 TGCGAAGGCACCGGAGTCCAAAGTTGGCAGCCAACAACAACAACAAGAAAAGGCCGGGCACGGTG  
 GCTCACGCCTGTAATCCAGCCCTT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >RG233409 representing NM\_001256946  
 Red=Cloning site Green=Tags(s)

MEAARRPRLGLSRRRPPAGGPPSGGRPWFLGGDERERLWAE LLRTVSP ELILDHEVPSLPAPFPQGEPRC  
 GPEPTEVFTVGP KTF SWTPFPDLWGPGRSYRLLHGAGGHLESPARSLPQRPA PDPCRAPRVEQQPSVEG  
 AAALRSCPMCQKEFAPRSKNSSGMRRHRSPKLAANNNNNKRKGRARWLPVIPAL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** SgfI-MluI



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**Cloning Scheme:**


**ACCN:** NM\_001256946

**ORF Size:** 585 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\\_001256946.1](#), [NP\\_001243875.1](#)

**RefSeq Size:** 1580 bp

**RefSeq ORF:** 588 bp

**Locus ID:** 199990

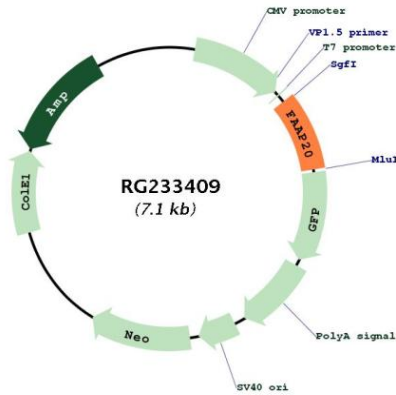
**UniProt ID:** [Q6NZ36](#)

**Cytogenetics:** 1p36.33

**Gene Summary:**

Component of the Fanconi anemia (FA) complex required to recruit the FA complex to DNA interstrand cross-links (ICLs) and promote ICLs repair. Following DNA damage recognizes and binds 'Lys-63'-linked ubiquitin generated by RNF8 at ICLs and recruits other components of the FA complex. Promotes translesion synthesis via interaction with REV1.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RG233409