

Product datasheet for **RG233216**

C1orf86 (FAAP20) (NM_001256945) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C1orf86 (FAAP20) (NM_001256945) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: FAAP20
Synonyms: C1orf86; FP7162
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233216 representing NM_001256945
Red=Cloning site **Blue**=ORF **Green**=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGCGGCGGAGGCCGCGGTGGGGTTGAGCCGCCGAGGCCGCCCGGGCGGGAGCCAG
GTGCGGCCGGAGCCCACTGAAGTCTTCACTGTCGGACCAAGACCTTTCTGGACACCCTTCCGCCG
GACCTGTGGGGCCGGCCGTTCTACCGGCTGCTTACGGGGCAGGAGGGCACCTGGAATCCCCGCCA
GGTCCCTGCCCCAGCGCCCGGCACCTGATCCCTGCAGGGCCCCAGGGTGGAGCAGCAGCCGTCTGTGA
GGGTGCCGCGGCCCTGCGCAGCTGCCCCATGTGCCAGAAGGAGTTCGCCCCAGTACTTCAACTCCCGC
CCCCACTGTGTCCCCTGGCTCCTAAGCTGCCCCCTACGTGTGGGTTGCGTCTGAGATGTGGGGCAGG
CGCCACTCACGGAAAAAGGCATCAGAGGAGCTTCCATCATCGAACATTTTATTCCTCAGGACGCTA
CACGCTCACTTCTGGCGGAGCAGGTCAGTGCATCGAGTTCTGTTCCGTGGAAAATGTGCACCTTGA
AACCGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233216 representing NM_001256945
Red=Cloning site **Green**=Tags(s)

MEAARRPRLGLSRRRPPAGGSPGAARSPLKSSLSDRPFPGHPFRRTCGARAVPTGCFTGQEGTWNPPP
GPCPSARHLIPAGPPGWSSRLWRVPRPCAAAPCARRSPPGTSTPAPTCVPLAPKLPPYVWVASEMWGR
RHSRKKGIRGASTSSEHFIPQDATRSLSWRSRSVHRVLPWKMCTLETA

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

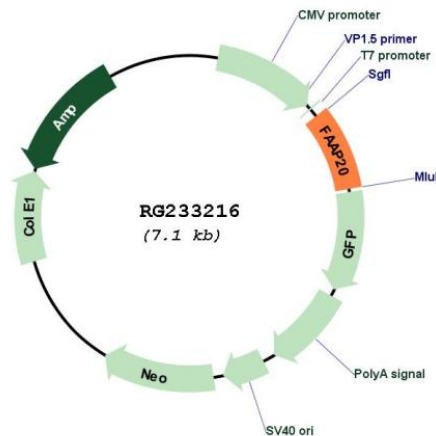


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001256945

ORF Size: 567 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_001256945.1](#), [NP_001243874.1](#)

RefSeq Size: 1431 bp

RefSeq ORF: 570 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]