

## Product datasheet for **RG219064**

### **FAM83H (NM\_198488) Human Tagged ORF Clone**

#### Product data:

|                           |                         |
|---------------------------|-------------------------|
| <b>Product Type:</b>      | Expression Plasmids     |
| <b>Tag:</b>               | TurboGFP                |
| <b>Symbol:</b>            | FAM83H                  |
| <b>Synonyms:</b>          | AI3; AI3A               |
| <b>Mammalian Cell</b>     | Neomycin                |
| <b>Selection:</b>         |                         |
| <b>Vector:</b>            | pCMV6-AC-GFP (PS100010) |
| <b>E. coli Selection:</b> | Ampicillin (100 ug/mL)  |

**ORF Nucleotide Sequence:** >RG219064 representing NM\_198488  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGC**

ATGGCCCGTCGCTCTCAGAGCTCCTCGCAGGGGACAACCCACTGGCACCCGGGTACCTGCCGCCTCACT  
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GCGCGTCCCGCAGGTGCGCCACGGCTCGGACCCCGCCTTCGCGCCCGGACCCCGCGGCTGGAGCCAG  
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AGGCCAGCAGCCCTGGGGCAGGGGAAGGCCCGCGGAGGAGGCCACAGGACAGCAAGGTGGGCAAGTT  
CGTGCCCAAGATCTGGGCACGTTCAAAGCAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

# Protein Sequence:

>RG219064 representing NM\_198488  
Red=Cloning site Green=Tags(s)

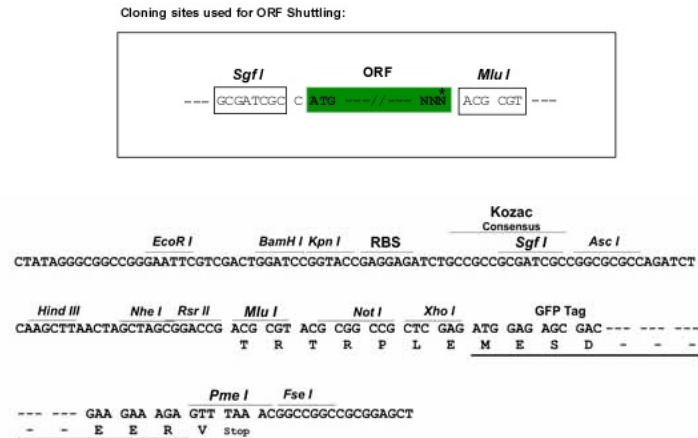
MARRSQSSSQGDNPLAPGYLPPHYKEYRRLAVDALAEGGSEAYSRLFATEGAPDFLCPEELEHVSRLRP  
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VAGPTYCYRTGKSFKGHVKEFLLVDCAVVMSSGSYSFMWSFEKIHRSLAHVFQGELVSSFDEEFRLFAQ  
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LSAFRREEPPRMPGGALEPHAGLRPLSRLEAEAGPAGELAGARGFFQARHLEMDAFKRHSFATEGAGAV  
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GQKHRAVPAPSPGPTHNSPELGRPPAAGVLAPDMSDKDKCSAIFRSDSLGTQGRLSRTLPAEAERDRL  
RRMESMRKEKRVYSRFEVFCCKEEASSPGAGEGPAEEGTRDSKVGFVPKILGTFSKK

TRTRPLE - GFP Tag - V

# Restriction Sites:

SgfI-MluI

## Cloning Scheme:



**ACCN:** NM\_198488

**ORF Size:** 3537 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.

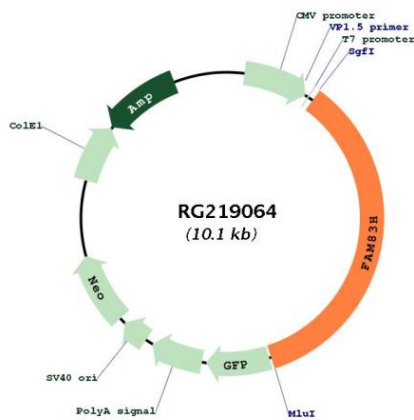
**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_198488.4](#)

**RefSeq Size:** 5604 bp  
**RefSeq ORF:** 3540 bp  
**Locus ID:** 286077  
**UniProt ID:** [Q6ZRV2](#)  
**Cytogenetics:** 8q24.3

**Gene Summary:** The protein encoded by this gene plays an important role in the structural development and calcification of tooth enamel. Defects in this gene are a cause of amelogenesis imperfecta type 3 (AI3). [provided by RefSeq, Mar 2010]

### Product images:



Circular map for RG219064