

Product datasheet for MG203162

Fam20c (NM_030565) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Fam20c (NM_030565) Mouse Tagged ORF Clone

Tag: TurboGFP Symbol: Fam20c

Synonyms: C76981; DMP-4; DMP4; GEF-CK; mKIAA4081

Mammalian Cell No

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG203162 representing NM_030565

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203162 representing NM_030565

Red=Cloning site Green=Tags(s)

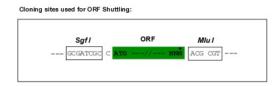
MINMTKEIRDVTRDKKLWRTFFVSPANNICFYGECSYYCSTEHALCGRPDQIEGSLAAFLPDLSLAKRKT WRNPWRRSYHKRKKAEWEVDPDYCEEVKQTPPYDSGHRILDIMDMTVFDFLMGNMDRHHYETFEKFGNET FIIHLDNGRGFGKYSHDELSILAPLHQCCRIRRSTYLRLQLLAKEEHKLSLLMAESLQHDKVAPVLYQLH LEALDRRLRIVLQAVRDCVEKDGLSSVVEDDLATEHRASTER

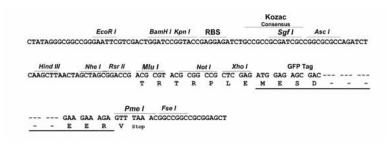
TRTRPLE - GFP Tag - V

Restriction Sites:

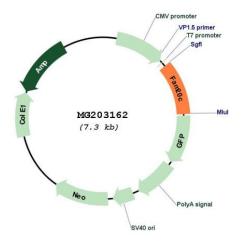
Sgfl-Mlul

Cloning Scheme:





Plasmid Map:



ACCN: NM_030565

ORF Size: 747 bp

Fam20c (NM_030565) Mouse Tagged ORF Clone - MG203162

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: <u>NM 030565.5, NP 085042.1</u>

 RefSeq Size:
 3009 bp

 RefSeq ORF:
 1740 bp

 Locus ID:
 80752

 UniProt ID:
 Q5MJS3

Cytogenetics: 5 G2

Gene Summary: Golgi serine/threonine protein kinase that phosphorylates secretory pathway proteins within

Ser-x-Glu/pSer motifs and plays a key role in biomineralization of bones and teeth

(PubMed:22900076, PubMed:22732358, PubMed:25789606). Constitutes the main protein

kinase for extracellular proteins, generating the majority of the extracellular

phosphoproteome (By similarity). Mainly phosphorylates proteins within the Ser-x-Glu/pSer motif, but also displays a broader substrate specificity (By similarity). Phosphorylates casein as well as a number of proteins involved in biomineralization such as AMELX, AMTN, ENAM and SPP1 (PubMed:25789606). In addition to its role in biomineralization, also plays a role in

lipid homeostasis, wound healing and cell migration and adhesion (By similarity).

[UniProtKB/Swiss-Prot Function]