

## Product datasheet for **MC217968**

### Fam20a (NM\_153782) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Fam20a (NM_153782) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fam20a
Synonyms:	A1606893
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC217968 representing NM\_153782  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCGGGCTGCGCAGGGACCGCTGCTGGCCCTGCTGCTCCTGGGCGCGCTCTTCTCCGCCGACCTCT  
 ACTTCCACCTCTGGCCGCAAGTGCAGCGCCAGCTCCGGCCGGGCGAGCGCCCGCCGCTGCCCGTGCTC  
 TGGCCGCGCCCTCCGGTCTCTACACTCAGCCGACGCTCCCGAGACCTTGGCACAGCCTCGCACAAAC  
 TTTTCAGGAGCTTTGCCCGGGTTGAGCATCCCAGCCGCGGCCACCCTGCCCCGCGCTCTAAGCTGCAGG  
 CCCTCTTCGCCCACTCGCTCTACCAAGTCTGGAGGATCCGCCTCTCTGGGACCCGAAGACTGGCTCCT  
 GGCCAGCCAGGAGGCGTGCAGTATTACCGGAGGAAGGTGGCCCGCTGGAACAGACGGCACAAGATATAC  
 AAAGAACAATTCAACCTTACCTCCTGGATCCCCCGCTCCAGTTTCGACCAGAGGCCAGCTGGGTCCAGT  
 TCCACTGGGGATCAACAGCCACGGGCTGTACTCCAGGTCAGCCTTCCATCAGCAAGCTCCTCCATGA  
 CATGAGACACTTCCCACCATCAGTGTGATTACAGCCAGGATGAAAAAGCCTTGCTAGGGGCTGTGAC  
 TGCTCACAGATTGTGAAACCCAGTGGGGTCCACCTGAAATTTGGTTCTGAGTTCTCGGACTTCGGGAAAG  
 CCATGTTCAAACCATGAGACAGCAGCGAGAGGAGGAGACGCCTGAGGACTTCTTCTATTTTCATAGACTT  
 TCAGAGACACAATGCTGAGATCGCAGCTTTCACCTGGACAGGATTCTGGACTTCCGACGGGTACCGCCA  
 ACAGTAGGGAGGCTAGTGAATGTCACCAAGGAAATCCTAGAGGTCACCAAGAACGAGATCCTACAGAGTG  
 TGTCTTTGTGTCTCCAGCTAACACGTGTGCTTCTTCGCAAGTGTCCGTACATGTGCAAGACCGAGTA  
 CGCTGTCTGTGGCAACCCACACCTGTGGAAGGCTCCCTCTCCGCCTTCTGCCATCCCTCAACCTAGCC  
 CCCAGACTGTCTGTGCCAACCCTGGATCCGTTCTACTCGCTGTCAGGAAAAGAGGAGTGGGAGCTCA  
 ACCCCCTTTACTGTGACACAGTCAAGCAGATCTACCCGTACAACAGCAGCAACAGACTCCTCGGCATCAT  
 TGACATGGCCGCTTTGACTTCTTGATTGAAATATGGACCGACACCATTATGAGATGTTACCAAAATTT  
 GGGGATGATGGATACCTTATTCATCTTGACAATGCCAGAGGGTTCGGACGACATTCACAGGATGAAATCT  
 CTATCCTCGCCCTCTAGCGCAGTGTGTCATGATCAAAAGGAAAACACTTTGCACCTTCAGCTGTGGC  
 TCAGGCTGACTACAGGCTCAGCGACGTGATGCGGGAGTCACTTCTAGAAGACCAGCTCAGCCCTGTCTC  
 ACAGAACCCACCTCCTGGCCCTGGACCGCAGACTCCAGATCATCCTGAAGACCGTGGAGGACTGCATAG  
 AGGCCACGGCGAGCGAAGAGTCATAGCCGAAGGGTCAGCACACGTTCCGGCTCCAGACTCCGGCCAGGC  
 TAATCTGACGAGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_153782

**Insert Size:** 1626 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_153782.1](#), [NP\\_722477.1](#)

**RefSeq Size:** 2614 bp

**RefSeq ORF:** 1626 bp

**Locus ID:** 208659

**UniProt ID:** [Q8CID3](#)

**Cytogenetics:** 11 E1

**Gene Summary:** Pseudokinase that acts as an allosteric activator of the Golgi serine/threonine protein kinase FAM20C and is involved in biomineralization of teeth. Forms a complex with FAM20C and increases the ability of FAM20C to phosphorylate the proteins that form the 'matrix' that guides the deposition of the enamel minerals.[UniProtKB/Swiss-Prot Function]