

Product datasheet for **SC318536**

FAM83H (NM_198488) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FAM83H (NM_198488) Human Untagged Clone
Tag:	Tag Free
Symbol:	FAM83H
Synonyms:	AI3; AI3A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318536 representing NM_198488. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
ATGGCCCGTCGCTCTCAGAGCTCCTCGCAGGGGGACAACCCACTGGCACCCGGGTACCTGCCGCTCAC
TACAAAGAGTACTACCGCTGGCGGTGGATGCACTGGCCGAGGGTGGCTCGGAGGCCTACAGCCGCTTC
CTCGCTACCGAGGGGGCACCAGACTTCTGTGCCCTGAAGAGCTGGAACATGTGAGCCGACACCTTCGG
CCTCCGCAGTATGTTACCGGAGAGCCACCTGAAGGCAGCCTTCTCGACGTGGACATGGATGGCTCCTCG
GGTACATACTGGCAGTGAACCTCAGACCAGGCCGTGCCTGAGCTTGATTTGGGCTGGCCTCTGACCTTC
GGCTTCCAGGGCACCGAGGTGACCACCTTGGTGCAGCCACCGCCCCCGACAGCCCACTATCAAGGAT
GAGGCCCGCAGGATGATCCGTTCCGCCACGAGGTGGTGGCCGTGGTATGGACATGTTCACTGATGTG
GACCTGCTCAGCGAAGTGCTGGAGGCCGCGGCCCGTCCGGTCCCAGTCTACATCCTGCTGGATGAGATG
AACGCGCAGCACTTCCTGGACATGGCCGACAAGTGCCGTGTCAACCTGCACCACTGGATTTCTGCGC
GTACGGAAGTGTGGCGGGCCCCACCTACTACTGCCGCACTGGGAAGTCTTCAAGGGCCACGTCAGGAG
AAGTTCCTGCTGGTGGACTGTGCCGTGGTATGAGTGGGAGCTACAGCTTCATGTGGTCTTTGAGAAG
ATCCACCGCAGCCTGGCGCAGTGTTCGAAGGAGAGCTGGTCTCCAGCTTCGACGAGGAGTTCGCGATC
CTCTTCGCGCAGTCCGAGCCGCTTGTGCCCTCGGCCGCGGCCCTGGCCCGCATGGACGCCTATGCCCTG
GCTCCGTATGCCGGGGCCGGGCTCTCGTGGGCGTCCCTGGGGTCGGGGCGCCAAACCCCTTCTCCTTC
CCTAAACGAGCGCACCTCCTGTTCCCGCCACCCCGGAAGAGGGCCTGGGCTTCCCTCCTTCCTCGAC
CCGGACCGCCACTTCCTGTCCGCCCTCCGCCGGGAGGAGCCGCCGCGATGCCGGGGGGCGCGCTGGAA
CCGCACGCGGGGCTGCGGCCGCTCTCGCGGCGCTGGAGGCCGAGGCCGGGCCGGCTGGGAGCTCGCG
GGCGCGCGGGGCTTCTTCAGGCGCGGCACCTGGAGATGGACGCCTTCAAGCGGCACAGCTTCGCGACC
GAGGGCGCGGGCGCCGTGGAGAACTTCGCGGCCGCGCGGAGGTGTGCGGCGAGAGCTTCTCAGCCAC
GGCGACGACTTCCGCTTCAGACCAGCCACTTCCACCGTGACCAGCTCTACCAGCAGCAGTACCAGTGG
GACCCGACGTCACGCCGCGCGCCCGCAAGGCCTGTTGAGAAGCTTCGCGGGGGCGCGCGGGTTTC
GCGGACCGGATGACTTACCCTGGGCGCGGGCCCCGCTTCCCGAGCTCGGACCGACGGGCACCAAG



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CGGCTGGACTACGTGCCGTCCAGCGCTCCCGCGAGGTGCGCCACGGCTCGGACCCCGCCTTCGCGCCC
 GGACCCCGCGGCTGGAGCCAGCGGAGCCCGCGCCCAACCTGACCCAGCGCTTCCCATGCCAGGCC
 GCGGCGAGGCCGGGCCAGACCCGCTCCCGAGGCGGAGCCGAGCGCAGGGGCGGGCCGAGGGGCGG
 GCAGGGCTGCGGCGCTGGCGTTTGGCTCTACTTGAGCGGTGCCACGGCGAGGATGGGGGCGACGAC
 GGCCTACCGGCGCCCATGGAAGCGGAGGCTTACGAAGACGACGTGCTGGTCCCGGGGCGGGCACCT
 GCCGGCAGCTGCTCCCTCGGCCTTCCGCTCCAGCAGCCTTCCCCACCAAGGTCCCGGTGCCAGGC
 CCGGGCAGCGGCGCAACGGCCAGAGCGGAGGGCCCGAGGAGCCTGGCTGGCCAAGCAGGACTCA
 TTCCGCTCGCGCTGAACCCCTGGTCCAGCGCAGCTCCAGGCTGCGCTCCTCGCTCATCTTCAGCACG
 TCACAGGCCGAGGGCGCGCCGGGGCTGCGGCGGCCACTGAGAAGGTGCAGCTGCTGCACAAGGAGCAG
 ACGGTACGCGAGACGCTGGGGCCCGGCGGAGAGCCGTGCGCTCCGCGGCTTCCACCAAGGTGGCGGAG
 CTGCTGGAGAAGTACAAGGGCCAGCCCGTGATCCCGGCGGCGGCGGGCGCCATACCGTTGCCAGC
 CACAGCAAGGCCGTGCTGCCAGGCGTGGCGGAAGAGTGGCGGCCCGAGGTGCCGTGGGGGCGGAG
 CGCCGAGCCTCGAGAGTGCCTGCTGGACCTGCGCGACTCCTTGCACAGCAGTGCACCAGGAGGCG
 GAGCGGCGAGCCGGGAGCCGCGTCTGCTACCGCGGCGCAGCTGCTCGACACACTGGCCGGAGCGGTCC
 GACCGCTGCCTTCCCGTTCTCTGCTGCCAGAGCCACTCAACGTCCCGCAAGGGCTGGACAGCCCT
 CTGCCGCTGGAAGGGTCCGGAGCGCACCAGGTGCTCCATAATGAGTCAAAGGGAGCCCCACCTCGGCT
 TACCCTGAGCGGAAGGGGAGCCCCACGCTGGGTTTTCCACTCGAAGAGGAAGTCCAACACAGGATTT
 ATCGAGCAGAAGGGGAGCCCCACCTCAGCCTACCCGAGCGCAGGGGTAGTCCGGTGCCCCCGTGCCG
 GAGCGCAGGAGCAGTCCGGTGCCCCCGTGCCGAGCGCAGGGGAGCCTACCCCTACCATCTCCGGG
 GAGTCCCGAAGGCCGGGCCCGCGGAGGAGGGGCCGAGCGGCCCATGGAAGTCTGCGCAAAGGCTCC
 TTGCGTCTTAGGCAGTGTGAGCCCCAAGGGCGAGCGGCGCATGGAGGATGAGGGTGGCTTCCAGTG
 CCGCAGGAGAACGGCCAACCCGAGAGCCCGCGGCGTCTGTCACTGGGCCAGGGTGACAGCACGGAGGCT
 GCCACAGAAGAGCGGGTCCGCGGCGCGCTGTCTCAGCCACGGCCAACGCCTTGACAGCAGCAAC
 CTTGCGGATGACACGAAGGCCATTCTGGAGCAGATCAGTGCCACGGCCAGAAGCACCGTGGCGTCCCT
 GCCCCGAGCCCCGGCCGACCCACAACGCCCGAGCTAGGCCGTCCACCGGCTGCTGGCGTCTGGCC
 CCAGATATGTCCGACAAGGACAAGTGTTAGCCATCTTCCGCTCGGACAGCTTGGGGACCGAGGCCG
 CTGAGCCGACGCTGCCAGCCAGCGGAGGAGCGCATCGGCTGCTGCGCCGATGGAGAGCATGCGC
 AAGGAGAAGCGCGTGTACAGCCGCTTCGAGGTCTTCTGCAAGAAAGAGGAGGCCAGCAGCCCTGGGCA
 GGGGAAGGCCCGCGGAGGAGGGACACAGGACAGCAAGGTGGGCAAGTCTGCCCAAGATCTGGGC
 ACGTTCAAAGCAAGAAGTGA
 ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_198488
Insert Size:	3540 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_198488.3](#)

RefSeq Size: 5604 bp

RefSeq ORF: 3540 bp

Locus ID: 286077

UniProt ID: [Q6ZRV2](#)

Cytogenetics: 8q24.3

MW: 127.1 kDa

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]