

Product datasheet for **MC201959**

Fam20c (NM_030565) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam20c (NM_030565) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Fam20c
Synonyms:	C76981; DMP-4; DMP4; GEF-CK; mKIAA4081
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC025826 sequence for NM_030565
 GCTGCGCTCCGGGTGCGCCTGCTGCACCTGCCAGATCGTCGCCTCTCCCTGCGCGCCCCCTGCGCTCCC
 CTTCTCGCCTCTGTCTCTCCAGCCCGGTCTCCAGCCTCAGCCTGACAGAACAGAGGAGCCGCTTTGTGCG
 CCTGCCAGGACCCGGCATGGCCAGCGGGAGCACCGCCTCTGGATCGGATCTGTGCGCCTTGGACGG
 GATGAACAGCCGCGCTTCTGCTTACACGCCCGCTGAGTGTGGTCGCGCTCCCGGAGACCCTCGTACGCC
 CCTGCGTTCCCTGTCACCACTGCCACCCGCTCCACCGACGAGGGCCGCTGGCCGCCCCCGAAATGGCCT
 GGAGAGCTGGTGCTTTGGTGGCGTTGTCTTACGACGTCCAAGTCTGGGGACAGCCCCGAGCTGCTA
 GCTGCTAGTACACTGAATGGACCTTGACCCGCGGTCTGTCGCGGCTTGGTGCCAAGCTGAGGGGACCG
 GTGGAGCGCGCTCCCGAACCCCGAGCCGCTGGCCTGCGCGGCATGAAGATGATACTGGTGGCAGG
 TTTGCGGTGCTCATCCTGGTAGTATTCTACTGGCTTGGCTTTGCACATTGCTGTTGACCTGCTACCCA
 AGCTGGACCGACGCGCCACGCGATCCTCCGGGAGCCCGTTGCTCCTGCGCTCAGCCGGCAGCAGAGGC
 AGCTGGTCCAGGCTGGGCCAGGCAAGGAGCAGACCGGGGAGTCCGCCGGTGGCAGCAGGCTGGCCC
 AACAAACACACTGCGCATCCTGCAAGACTTCAGCTCAGATCCAGCCTTAACCTAACCTCCCCTCCT
 TGGAGAAGCTGCCTTCTGCAGCAGACCCGGTGGATCACGCTCCGCGGGTTCAGGAGCCCCGTTCCCGCC
 ACCCGTGACCCAGCGCATCGGCCGCTGCTTCGAGACCCGGGGCCCCGACCGGGGTACCGCCCCCTGGC
 CCCAGCGGGGACGGATCGCTCTTAGCCAAGTTGTTTGGAGACCCTCTCTACCAGGGGGCTGTGCCTCCTC
 TGACAGAGGACGACGTCCTGTTAATGTGAACAGCGACATCAGGTTTAAACCCCAAGGCAGCAGAGAATCC
 TGACTGGCCGCATGAAGGTGCTGAAGGCGCAGAATTCTTGCCACTGGTGGGAGCTGTGAACCTCTAT
 CCCAACTGGCTCAAATCCACATTGGCATCAACCGGTATGAGCTGTAATCCAGACACAACCCAGCCATCG
 ATGCCTTACTGCGGGACCTCGGCTCTCAGAAGATCACCAGCGTCGCCATGAAGTCAGGGGGCAGCGAGCT
 GAAGCTCATATGACCTTCCAGAATTACGGGACGGCGCTATTCAAACCATGAAGCAGACGAGAGAGCAG
 GAGACGCCGCTGACTTTTTTTTCTCTGACTATGAGAGGCACAATGCCGAGATCGTGCCTTCCACC
 TGGACAGGATCCTGGATTTCCGACAGATCCCTCCAGTGGTGGTAGGATGATCAACATGACCAAGGAT
 CCGGGATGTGACCGGGATAAAGAAGCTATGGAGAATTTCTTTGTGCTCCAGCCAACAACATCTGTTTC
 TACGGGGAGTGTTCTACTACTGTTCCACCGAGCATGCCCTGTGTGGGAGGCCGACCAGATCGAAGGAT
 CCCTGGCGCCTTCTGCTGACCTGTCGCTGGCCAAGAGGAAGACATGGCGGAACCCCTGGCGTCGTTTC
 CTACCACAAGCGAAAGAAGGCAGAGTGGGAAGTCGACCCTGATTACTGTGAGGAGGTGAAGCAGACGCCA
 CCCTACGACAGTGGCCACCGAATCCTGGACATCATGGATATGACCGCTTTTGATTTCTCATGGGAAACA
 TGGATCGGCATCACTACGAGACCTTTGAGAAGTTCGGGAATGAGACCTTCATCATCCACTGGACAACGG
 GCGCGGGTTTGGGAAATACTCACAGATGAGCTTCCATTCTCGCTCCTTTCATCAGTGTGCAGGATC
 AGGAGGTCCACCTACCTGAGACTGCAGTGTGGCCAAAGAGGAACACAACTGAGCCTGCTGATGGCCG
 AGTCCCTGCAGCATGACAAGGTGGCACCCGTGCTTACCAGCTGCATCTGGAGGCCCTGGACCGCGGTT
 GCGCATAGTGCTGCAGGCTGTGCGAGACTGTGTGGAGAAGGACGGGCTGAGCAGTGTGGTGGAGGACGAC
 CTAGCCACTGAGCACAGAGCCTCCACGGAGAGGTAGTGACCAGGCTGCCATGAGGAAGGAGGAGCAGAG
 AGCCTAGCCACCTGTGAATTCAGTGAATTCGGACGGGATCGGTATCCCCATAGGGTGACCTGCGGCAGG
 GAGCATGGGGTCTCCCTCATGGTTCTGATAGGGATGTATGGGCCTCCAATTCCAGCAGAAACCAGACAAA
 GCACTCTGAACATGCAGCAGAGTGGCCAGCGCTCCGCTCTCCATAGGGAGGGACCTTTAACTCACTAT
 TTTGTACTTAACAAAAGGCTCACACTCCTGTTAATGGAGAACCATCCAGCAGACCAGAGATAACCTCTGA
 GCCACTTCAAGGACCTTCTATGATGTGATCACACTCTGGCCCCAATTACAACCCACCTTCTGCTCCTCT
 ATCCTGGGCCTCCTCTCAAAGACTGTAGAGCTCTAGGAAGGGGAGACAGCGATGGACATCATGGCCT
 GTGTCGGAGCAGATGGGCACCAAGAATGGTTTTTGGATACCAATGACCAGCTATGCACTTGTCCGCTG
 CTGCAGAGCAGTCACTTATTAGTTGGTGGTGGGCACCGCTGCCTTGGCTGAGCTTTGGACGATGGGT
 GTCAAGACACTACACAGAGCCATTGGCCCCAGGCCAGCAGGCCAGCCTTGGGACATTTTTGTGGAGTAG
 TTTGACGTGAGATAACAGTGCAATAAAGATACAGCAAGCGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_030565
Insert Size: 750 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:	<ol style="list-style-type: none">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:	BC025826 , AAH25826
RefSeq Size:	3009 bp
RefSeq ORF:	750 bp
Locus ID:	80752
UniProt ID:	Q5MJS3
Cytogenetics:	5 G2
Gene Summary:	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>