

Product datasheet for MC225465

Frem2 (NM_172862) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Frem2 (NM_172862) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Frem2
Synonyms:	6030440P17Rik; 8430406N05Rik; b2b1562Clo; Gm409; my; ne; nv1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC225465 representing NM_172862 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGCCGTGCGCGCAGGACAGCCAAGTTCTCCAGCTTCCAGCCGATACTCGCACAGTCGCCTAGGC
TGCTGCTGCTGCTGCTCCTGTCACTGGTAAGCTACGCTCCACACAGGCTGTGGCCCCGGTGCAGC
ACTTCAGTCCCTGGGTCTCTCCGGGACTTCGGGAGTCCCTACAGAGGAAGCTATAGTGGTGGCAAACCGC
GGGCTCCGTGTGCCCTTCGGTCGCGAAGCTGGCTGGATCCGTTGCGTGACTTGGTGTGCAGGTGCAGC
CAGGAGACCGCTGCACAGTGACCGTGTAGACAACGACGCGCTGGCCAGCGGCCGGCCACTTGAGTCC
CAAGCGTTTTGCGTGCAGTATGGCCCGGGTGAAGTGCCTACTCGCACCTGGGTGCTCGCAGCCCTTCC
CGCGACCGCGTCCGCCTGCAGCTGCGCTACGATGCTCCAGGAGGGGCGATAGTCTGCCACTGGCACTAG
AGGTGGAAGTGGTCTTACCCAGCTGGAGATTGTGACTCGGAATTTACCTCTGGTGGTGAAGAAGTGT
AGGGACCAGTAATGCCTTGGACGATCGGAGCTTAGAGTTCGCCTACCAGCCTGAGACCGAGGAGTGGCCG
GTGGGCATCTTGTGAGTCTGAGCGCTTGCCTCGTTACGGAGAAGTCCCTTCACTACCCACAGGTCAGG
GAGGGCCGGAGATAGAGGGACCTTAAGACCCTTTTGATGGACTGCAAAGCAATCCAGGAGCTGGGAGT
CCGCTACCGCCACACAGCCCCAGCCGCTCGCCTAACAGGGACTGGCTGCCTATGGTGGTGCAGCTGCAT
TCGCGAGGGGCTCCAGAGGGCAGCCCGGCTCTAAAACGCGAACACTTCCAGGTGCTTGTGAGGATTCGAG
GAGGAGCGGAGAACACTGCACCAAGCCAGTTTTCGTGGCCATGATGATGATGGAGTGGACCAGTTTGT
ACTGACTGCTCTCACTCCAGACATGCTAGCAGCCGAGGATGCTGAATCCGACCCAGACCTTTTATTTC
AACCTCACCTCTGCCTTCCAGCCTGGGCAGGGCTACCTGGTGAAGATTGCCTACCAGCCTCCCTCTGAAGACTCGGATCA
CCTCCTTTACACAGCGGGATTTGCGCTGCTGAAGATTGCCTACCAGCCTCCCTCTGAAGACTCGGATCA
GGAGCGTCTGTTGAACTAGAGCTGGAGATAGTGACCCTGAAGGAGCAGCCTCAGACCTTTTCGCTTC
ATGGTGGTGGTGAACCCATGAACACACTGGCTCCCGTGGTACACGAAACTGGCCTATTCTCTATG
AGGGTCAATATCGGCCGCTCACGGTCCCATAGGCAGTGGACCCAGAAGTGGTGCATCAGTGATGAAGA
TGACCTAGAAGCTGTGAGGCTGGAGTGGTGGCTGGGCTCCGGCATGGCCACCTTGTATTCTGGTTCT
CCCAGTAGCGACTCTGCTCCAAGACCTTACAGTGGCGGAGCTGGCGGCTGGCCAGGTTGTGTATCAGC



[View online »](#)

ATGATGACAAAGACGGTTCACTGAGTGACAACCTGGTGCTGCGCATGTCCGATGGAGGAGGCAGGCACCA
 GGTCCAGTTCTGTTCCCTATCACTTTAGTGCCTGTGGATGACCAGCCGCCGGTCTGAACGCCAACACT
 GGGCTGACAGTGGCTGAGGGGAAACTGTGCCTATCCCACCTTGACTCTCAGTGAACCGATATAGATT
 CAGATGACTCTCAGTGGTTTTTGTCTGTTGCCACCCTTCTCAAGCTTGGGGCACCTGCTTCTCCGCCA
 AAGGATGTCCCCAGGAAGAGCAGGGTCTGTGGCAGAAGCAAGGGTCATTTTACGAGCGAACGGTGACA
 GAGTGGCGGCAACAGGATATAACAGAGGGGAAGCTCTTCTATAGGCACTCGGGGCCCCACGCCCTGGGC
 CGGTGATGGACCAGTTCATGTTTTAGAGTCCAAGACAATCATGATCCCCCTAACCGTCTGGGATCCAGAG
 GTTTGTAATACGCATTCATCCCGTGGACCGTCTCCCTCCAGAACTGGGCAGTGGCTGTCCCTTCGGATG
 GTGGTACAGGAATCCCAGCTCACACCCTGAGGAAAAGGTGGCTGCACTACACTGACCTGGACACAGATG
 ACCGAGAGTTACAGTACACAGTGACCCAGCCTCCCACGGACACAGATGAGAACCCTCGCCGGCTCCACT
 GGGCACGTTGGTCTTCACTGATAATCCCTCAGTGGTGGTGGCCATTTTACCAAGCCCAGGTCAATCAT
 CATAAAATTGCTTACAGGCCCCAGGGCAGGAGCTAGGAGTCGCAGCCGAGTGGCTCAGTTCAGTTCC
 AAGTAGAGGATCGAGCTGGGAATGTGGCTCCTGGCACCTTCAACCTTTACCTGCAGCCTGTGGATAACCA
 GCCCCCGAGATTGTCAACTGGCTTACCCTGGAGGAGAAGGGCCACCACATCCTGCGTGAGACCGAG
 CTGCATGTGAGTGTGTGACACGGATGTGACCCACATCTCGTTCCTCTCACACAGGCCCCCAACACG
 GCCACATGCAAAATATCTGGACGGCCACTGCATGTAGGCGGACAATTCACCTTGGAGGACATAAAGCATGG
 CAGAATTTCTACTGGAATAGCGGGGATGAGTCTTTGACTGACAGCTGCTCCCTGGAGGTGAGCGACAGA
 CACCATGTGGTGCCAATCACTCTCAGAGTGAACGTTTCGGCCAGGGGACCGTGAAGGTCTATGTCAGTCC
 TTCTGCTGGTACTCTGGAGTCTATCTAGACGCTTAGAGAAATGGGGCTACTGAAGTCACTGCCAATAT
 CATTAAAGGGGGCTATCAGGGTACCGATGATTTGATGCTGACCTTCTGTTAGAAGGGCCACCCTCTAT
 GGGGAAATCTTAGTCAACGGAGCTCCAGCTGAGCAGTTCAACCCAGAGGGACATCCTGGAGGGCTCTGTTG
 TCTACGCTCACACCAGTGGTGGATTTGGCTGTGCCCCAAGCTGACTCTTTAACCTGAGTCTATCAGC
 TATGTCTCAAGAATGGGAATCGGTAGCAGCATCGTTCAAGGCGTCACTGTGTGGTGACCATCCCCC
 GTGGACGCCAAGCCCTGAGATTTCTCTTGGTGAACAGTTTGTAGTGTGGAAGGTGACAAGAGTGTGA
 TAAGCCTGACCCACCTAAGTGTGAGGACATGGACTCCCTGAAGGATGACCTCTTGTGCACAATAGTCAT
 TCAGCCAACTCAGGCTATGTAGAGAACATTTCTCCAGCACCAGGCTCAGAGAAATCAAGAGCCGGGGT
 GCCATAAGTGCCTTACGCTGAAGGATCTCAGGCAAGGACACATTAATAATGTCCAGAGTGTCCACAGAG
 GAGTGGAGCCTGTGAAGACCGCTTTATATCCGTTGTTCTGACGGTATTAACCTCTCTGAGAGACAGAT
 ATCCCCATTGTCATCATTCTACCAATGACGAGCAGCCAGAAATGTTTCATGAGGGAATTCATGGTGTG
 GAAGGCATGAGTCTGGTGGTCAACAGACTCATCCTCAACGCTGCTGATGCCGACATTCACAGGGATGATC
 TAACGTTTACTATTACCCGGTTTCCAACCTCACGGTTCATGTCATGAACCAGTTAATCAATGGTACAGTGT
 GGTGAAAGCTTACCCTGGATCAGATTATAGAGAGTTCCAGCATTATTTATGAGCACGATGACTCTGAG
 ACACAAGAGGACAGTTTTGTGATTAACCTGACAGATGGCAAGCACTCCCTGGAGAAGATGGTCTCATTG
 TGGTATCCCTGTTGATGACGAGACACCAGAATGACCATCAATAATGGGCTAGAAATAGAAATGGGGGA
 AACCAAGTTATCAACAACAAAGTCTAATGGCAACCGATCTAGACTCTGATGACAAATCACTGGTTTAT
 ATATCCGTTATGGACCAGGGCATGGCTTGTACAGAGACAAAACCTCTAGGTGCCTTTGAAAATATCA
 CTCTAGGCATGAATTTTACCCAGGACGAAGTGGACAGGAACCTTGATTCAATATGTCCACTTTGGGCAAGA
 AGGTATTCGAGACCTGATTAATTCGATGTGACAGATGGAACAAATGCTCTTATAGATCGCTACTTTTAC
 GTGACTATTGGAAGTGTGACATTGTCTCCCTGATGTGGTAAGTAAGGGCGTGTCTTTGAAAGAAGGTG
 GCAAAGTCACTCTGACAACGGATCTGCTGAGCACAAGTACTTGAACAGCCCTGATGAGAATAGTTTTT
 CACCATTACCAGGGCTCCTATGAGAGGTCACTTGGAGTGACGGATCGAAGGGGACTGTCCATCACTTCT
 TTCCTCAGCTCCAGCTGGCTGGTAACAAAATCTACTACATACACACGGCTGAGGATGAGGTCAAAATGG
 ACAGCTTCGAGTTTCAAGTACCCGATGGGCGGAACCTGTCTTCCGAACTTTCGGATCTCAATCAGTGA
 CGTAGACAACAAAAGCCAGTGGTACCATCCACAACCTGGTGGTCAAGTAAAAGTAAAAGTAAAGTGTGATC
 ACCCCCTTTGAACTCACTGTGGAGGACAGAGATACCCCTGACAGGCTCCTAAAATTCATTGTACCCAGG
 TCCCTGTTACGGTCACTCCTCTTCAACAATACCAGATCTGTCATGGTTTTTACCAAGCAAGACTTGAA
 TGAAAATTAATCAGCTACAACACGATGGCACAGAATCCACGGAAGACAGCTTCTCCTTACCCTGACT
 GACGGCACCCACTCGGACTTCTATGTTTTTCTGATACAGTGTGAAACCAAGGAGACCTCAAGTGTGA
 AAATCCAGGTGTTACCTGTTGACAACAGTGTCCCCAAATTTGGTGAACAAAGGAGCTTCTACCCTTCG
 TACCCTGGCCACTGGCCATTTAGGGTTCATGATCACAAGCAAAATACTCAAAGTGGAGGACAGAGACAGC
 CTGCATTTTTCTCAGGTTTCAATTGTGACAGAAGCCCCCAACATGGCTACCTTCTCAACCTGGGCCAAG
 GAAACCACAGTGTACACAGTTCACCAAGCTGACATTGATGACATGAAAATATGCTATGTCTTGAGAGA

GAGAGCAAATGCCACAAGTGATATGTTCCATTTTCATAGTGAAGATGACGGTGGAAACAGGTTAACCAAC
 CAGCATTTTCGACTGAATTGGGCGTGGATCTCCTTTGAAAAAGAGTATTACTTGTACACGAAGACTCCA
 AATTTCTAGATATTGTTCTTACACGCAGAGGATACTTGGGAGAACTTCATTTATAAGTATCGGCACCAG
 GGATGGGACTGCGGAAAAAGACAGAGACTTCAAGGTAAGCTCAGAAACAGGTACAGTTCAACCCCGGC
 CAGACCAGGGCCTCGTGGAGAGTGCATCCTGAGCGACGGGAAACAGGACTCGGAGACCTTCCAAG
 TGGTTCTCTCGGAGCCTGTGCTGCAATCCTGGAGTCCCCACAGTACTACAGTGGAGATCATCGACCC
 AGGAGACGAATCAACCGTGTTCATTTCCAGTCTGAGTACTCTGTTGAAGAAGATGTGGTGAGCTGTTT
 ATTCCCATCAGGAGAAGTGGAGACATCAGCCGGGAGCTGATGGTATCTGCTACACACAGCAAGGGACAG
 CCACCAGCACTGTGCGGACGTCCGTGCTCTTACTCTGACTACATCTCCAGGCCGAGGACCACAGCAG
 CGTGATCCGCTTTGACAAAGACGAACGAGAGAAAAATGTGTCGATTTTGGTAATTGATGACTCTTTGTAC
 GAAGAGGAGGAGACTTTCCAGGTCCTTTTGTGATGCCATGGGCGGGAGGATCGGTGACAAGTTTCCAG
 GAGCCAATGTGACCATCCTCACAGACAGGGATGATGAGCCTGCCTTCTACTTTGGGGACACCCAGTACTC
 CGTGGATGAGAGTGCCTGCTACGTGGAGCTGCAGGTGTGGAGGACGGGACCGACCTCTCTAAGCCTTCC
 AGTGTACAGTGAAGTCCCGAAAAACAGAAATCCCTCTCTGCAGATGCTGGAACAGACTATGTGGAAATCA
 GTCGCAATTTAGATTTTGCCTGGCGTCAACATGCAGACTGTTGAGTGGTCTTCTGGATGACCTTGG
 ACGACCAATACTGGAGGAAATTGAGAAGTTTGAAGTGGTACTTCAATGCCTATGAACGCTGCCCTTGGG
 GAGCCCAGCAAGGCCACCGTGTCCATAAATGACTCTGCCTCAGACTTGCCTAAAAATGCAATTCAAAGAGA
 GAGTGTACACTTGCAACGAGAATGACGGGCGTGTAGTGGCCATGATCTACAGGAGCGGTGACATCCAGCA
 CAGGTCTTCTGTGAGATGTTACACGAGGCAGGGGTCTGCGCAGGTGATGATGGACTTCGAGGAACGCCCA
 AATACCGATGTTTCCACTGTACATTCTCCCTGGTGAGATGGAGAAGCCGTGTCTCCTCGAGCTGATGG
 ATGATGCTGTCTATGAGGATGTAGAGGAGCTGCGCCTGGTACTTGGCAGCCTCAGGGCAGCTCTGCCTT
 TGGAGCTGCAGTGGGCGAGCAGAACGAAACCCTGATAAAGATCCAGGATGAGGCTGACAAAGCTGTTATC
 AAATTTGGAGAAACCAAATTTAGTGTCACTGAGCCACGAGACTCAGGAGAGTCCGTTGTTCAAATCC
 CGGTCTCCGTC AAGGAGACACTTCAAAGGTCTCCATCGT GAGAGTCCACACCAAGGATGGCTCGGCTAC
 CTCGGGAGAGGATTATCACCTGTGTGAGAAGAAATCGAGTTTAAAGGAGGGAGAAACCAACACACTGTT
 GAAATTGAAGTAATCTTCGACGGGGTGAGAGAGATGAGGGAGGCCTTCACTGTTACCTAAAACAGATG
 AAAATATGGTGGCAGAGACACAGGCAACCAAGGCCATTGTATATATAAGAAGAAATCCACAGCATGGCAGA
 TGTACCTTTCTTCTGTCCCTCACATTGTGCTCTTGTGATATACGATGATCCCTCCAAAGGCAGAGAG
 GACTGACCTGTGTCTGGCTACCCGGTGTCTGCATTACGGCCTGCAACCCCAATATCCAGACTATG
 AGAAAACAGGCTCTATTTGTGCCAGTGAGAACATCAACGACACTTGGACCCGATACAGATGGCTGATCAG
 CGTCCCCTGGCCCTGACGGTGTGACCAGCCCATGAGAGAGGTCGACTTCGACACCTTCTTACATCA
 TCCAAAATGATTACATTAGACTCCATATACTTTAGCCTGGCTCCCGGGTCCAATGTGCGGCCCGAGCAG
 TGAACACCAATGGGAATGAAGGCCTGGAATAATGAGCCCATCGTTACCATCGGCAGAGAGGAAGTCT
 CTGTGACCCCGTGTGCCTGGGGTAGTGGGGGACAGGCCATTCTCCGCTAAGTTGCGCTACACTGGCCCA
 GAGGACCCAGACTTTGCCAACCTCATAAACTCACTGTCACTATGCCGCACATAGACGGCATGCTCCCTG
 CCATCTCCACAAGAGAGCTGTCCAACCTTGTAGCTGACCCTCAGCCCTGACGGCAGGAGTTGGGAATCA
 CAAATGCTCCAACCTGTGGACTACAATGAAGTAAAGACCCACCATGGCTTCTGACCAACGCCACAAG
 AACCCAGAGGTCAATTGGAGAGACCTATCCTTACCAGTACAGTGTCCGGTCAGGGGTTCCAGCACCTTAC
 GCTTCTACCGAAACCTGAACCTGGAAGCATGTCTGTGGAGTTTGTGAGTACTATGACATGACCGGAGCT
 CCTGGCTGACTGTGGAGGAACCATCGGGACCGATGGCCAGGTCCCAACCTCGTGCAGTCCATCGTGACC
 CTTGAGTTTCTGTAGTTTTCTACGTGTTCCACTCCCCGTTGGGCGTGGGCGCTGGCAGCATTTCCG
 ACTTGAAGTCAGAGCTCCGACTCACATTCGTGTACGACTGCCATCTTGTGGAACCATGGGATCGGCAG
 CCCCCGGAAGCTGAGCTGCAAGGCTCTCTTACCACACAGCATGCGCATTGGTGAGGAGGGACGCTG
 GCTGTGAACCTTAAAACAGAGGCTCAGTCCATGGCTTGTGTGCTGTCCATCCTGCTTCTTTACCA
 GCTCACTGATCGTGTGAGCTGACCATCCGGGCTCACATTTTCCCTCCGCTTATACGGAGTGAACCAAC
 CTACAATCAGCCAGTCCAGCAGTGGAGTTTCGTGTGAGTCTTGGGTCCTGACTACTCGGGCACCTAC
 ACAGTAAAGTTGGTACCCTGCACCACTCCATCCAACAGGAGTACCGTCTGCCAGTCACTGCAACCCCA
 GAGAGCCTGTACCTTTGACCTTACATTTCGATTCACCAACAGGTACGCGATCCCGTGGCGACTGAGTTCAG
 CCTGAACACCCACATGTATCTGCTGTCTAAGAAGAATCTCTGGTTGTCTGATGGTCCATGGGATTTGGG
 CAGGAAAGCGACGTGGCTTTTGCAGAAGGGGATGTGATTTATGGCCGTGTGATGGTTCATCTGTCCAGA
 ACCTCGGTGACTCCTTTTACTGCAGATTGAGAAGGTGTTCTTATGCACGGGGATGACGGCTACGTGCC
 CAAGTACAGCCCAGCAATGCGGAATATGGCTGCCTGGCTGATTTCTCTTCACTTACATAGATTCAA

ATCGTGGATAAGGCTCAGCCAGAGACACAAGCCACCAGCTTTGGAGATGTCTGTTTAACGCCAAACTGG
 CAGTGGATGACCCTGAAGCTGTTCTCTTAGTGAATCAGCCTGGATCCGATGGTTTTAAAGTAGACTCAAC
 ACCACTCTTTCAGGTTGCCTTGGGCCGAGAGTGGTACATACACACAATCTATACGGTAAAGTCTAAGGAC
 AACACCCATCGAGGCATTGGCAAGAGGAGCCTGGAGTACCAGTATCACTCAGTGGTGCATCCCGGACCAC
 CGCAGGCAACCACCAAGAGCTGGAAGAAGAGAGCAGTACAGGAGCAGCCCTCCCTCGCAGGGGAGATCGG
 TGCTGAGAACAACCGGGGAACAAACATCCAACATATCTCCCTGAACCGCCGTGGCAAGAGGCAGGTCCCC
 CACGGAAGAATTCTCTGACGGCATCTGCCCTGGGAGCTCAATAGTCCAGCTCTGAAGTGAGCCTTG
 TCACTGTCTGGGAGCCTCACGGTGGGCTTGCTCACAGTCTGCCTGGCTGTGGCTGCGGCCGTCATGTG
 CAGGAACAGGAGCACTAAGGGCAAGGATACTCCAAGGGCTCTGGAAGCACTGAGCCCATGATGTCCCCG
 CAGAGCCACTACAACGACAGCTCGGAGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_172862
Insert Size:	9483 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:	NM_172862.3 , NP_766450.2
RefSeq Size:	12368 bp
RefSeq ORF:	9483 bp
Locus ID:	242022
UniProt ID:	Q6NVD0
Cytogenetics:	3 25.24 cM
Gene Summary:	Extracellular matrix protein required for maintenance of the integrity of the skin epithelium and for maintenance of renal epithelia. May be required for epidermal adhesion. [UniProtKB/Swiss-Prot Function]