

## Product datasheet for **SC306199**

### FREM1 (NM\_144966) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FREM1 (NM_144966) Human Untagged Clone
Tag:	Tag Free
Symbol:	FREM1
Synonyms:	BNAR; C9orf143; C9orf145; C9orf154; MOTA; TILRR; TRIGNO2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_144966 edited  
GACTCTTATCCTGCCCGCCAGTTCCAAGGGTTTCTAACTTTTTGTCTTGGAAAGGAAAAC  
CACTACCTGATTAGAAAAGCACTTGGGAAGCCCATTAATCTTGCCGGCGTTGTCAGGAGT  
GATCAGCGAGTTTTATTAAGCCCTGGGATTGCCTGAAAGGCCCTTGTCTGACTTTG  
AAATGAAAGGGGCATGTTAAGATCTCGGGGCACATTGTCAGGACCCCTCACCCCTGCCCT  
TGGACTATGAGCTGACCCCTCCAGGAGGAAGCACAGAAGCCCTCCTTTGTTAAAGGGATTT  
CGCCGGTGACAGAGAAGAGTTGGGCCCTGTCAGCATGAACTCTGAGTTGGGGGGCTG  
CGAATGCCGTGCTGCTGCTCCTCCTGGCCTGGGCCAGCCCCACCTTCATCAGCATCA  
ACCGCGGGGTGAGGGTGATGAAGGGCCACTCTGCCTTCTGTGTCAGGAGATGACCTGAAGT  
TTGCCATCCCTAAAGAGAAAGATGCCTGCAAAGTGAAGTTGTGATGAATGAGCCAATAA  
CCCAGAGGGTTGGGAACTCACTCCACAGTCTTTGACTGCCATTTCTCCCAACGAAG  
TCAAGTATGTTCACAATGGTTGTCCAATTTGATGAAGACACAGTGAAGCTCAGACTTT  
ACAGATTTACTGAAAGAGATACCTTCATAGAACTTTTATCCTGTGGGTCTATCTCCTGG  
AACCAGACTGTAACATCATCCATATGAGTAAACATGTGCTGGAGGTGCCTGAATTC AATG  
GCTTGTCCCAAGCGATTGATAAAAATCTGCTCAGATTCGATTATGATAGGATGGCTAGCC  
TGGAATGTACCGTCAGCCTGGACACTGCGAGAACTCGGCTGCCAGCCCATGGCCAGATGG  
TTCTCGGGGAGCCTCGACCAGAAGAACCCTCGTGGAGATCAGCCACACAGTTTTTTCCAG  
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GAATTCGGAATCAGATTCCAAAGGCTGCATTCATGGCCGTGTTTATTCTGGAAGTGGATC  
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AACCTTGTGTTTCAACATTACTAAAGCCCCGCTCCAGGGCTATGTGACTCACCTGT  
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CCTATCAGCCACCAACAGCAGCCATTCTGAGAGGAGACATGATGAGGTAGAATTGGAGG  
TATACGACTTCTTTTGAAGGAGTGCACCTATGACAGTCCACATCTCCATCAGAACAG



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CAGATACAAATGCCCCCGTGTATCCTGGAATACAGGTCTGAGTCTCCTTGAGGGGCAGT  
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 GGCTAGTACCCTTGGTGGCCTGCAGCATGGATGGCTGACTTTAAGAGGGGGAAAGGGT  
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 TCCTTCAGCTGACCGACCCTGATACACCTGCGGAGAACCTCACCTTCTTGGTTCAGC  
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 TCTTTAAAATTCTACAAGGCCAAAACATGGACATCTGGAGAACAACAACAGGTGAAT  
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 AATATGAAGTCTGTGAGAATGTGGGTTTGTGGCCTTGGAAATTATCAGAAGGGGATATT  
 CCATGGACTCGGCCTTTGTGGGTATAAAGTCAACCAAGTGTGAGCTGCAGTTGGAAAAG  
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 CAGATAAGGTGGAATCCACAAGTACTCACACTTCCCAGACAGGACCAGTTGCCCTCAT  
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 AAGACAAATCCTGTCCAGCCGGGTGGCACCAGCACTCAGGCTACTGTCACATCTTGATCA  
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 AGTCTTTTGGATAGTTTGAACGACCAAGTGCATGCTGGCCACTGGGAGTGGATCGGTG  
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 AGAGCTGTGTTTTGGTTCAAAGACAAGGGAAATGGCAACAAAAGACTGTAGGAGAGCCA  
 AACCTCATAATTATGTGTGTTCCAGAAAACCTAAATATAACAGACCCTACAGGGGGCCA  
 CCTGGAGTTTGTACCTATTTATTCACAGGATCTGTGAATATTGCTCCATAGAAAAACAA  
 TTGTTATGATTGAGTGGGTATACCTTTGTGATTCTGTCTAGTGAATGGGACATTTTAA  
 ATAGTGCCAGAAAGATTGATAAAATAAATATTTTTTACAAGATAAAAAA

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_144966

**Insert Size:**

7400 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).

<b>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found three SNPs within the protein associated with this reference, NM_144966.4.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_144966.3</a></u> , <u><a href="#">NP_659403.3</a></u>
<b>RefSeq Size:</b>	6200 bp
<b>RefSeq ORF:</b>	4008 bp
<b>Locus ID:</b>	158326
<b>UniProt ID:</b>	<u><a href="#">Q5H8C1</a></u>
<b>Cytogenetics:</b>	9p22.3
<b>Protein Families:</b>	Protease, Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a basement membrane protein that may play a role in craniofacial and renal development. Mutations in this gene have been associated with bifid nose with or without anorectal and renal anomalies. Alternatively spliced transcript variants encoding different isoforms have been described. PubMed ID 19940113 describes one such variant that initiates transcription within a distinct, internal exon; the resulting shorter isoform (named Toll-like/interleukin-1 receptor regulator, TILRR) is suggested to be a co-receptor of the interleukin 1 receptor family and may regulate receptor function and Toll-like receptor/interleukin 1 receptor signal transduction, contributing to the control of inflammatory response activation. [provided by RefSeq, Apr 2011]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>