

Product datasheet for **SC329091**

FREM1 (NM_001177704) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FREM1 (NM_001177704) 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)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001177704, the custom clone sequence may differ by one or more nucleotides

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ATGGTGACACAAGAATCCATGCTGAAGGCTGCCTTGCCTCTCTTTACCAGATTCATCATC
AGCAATGGACTGCGGACCGAGCACGGGGTGTGGAGATCACACTGGAGACTGTGGACAGA
GCCCTGCCTGTGGTAACCAAGGAAACAAGGGTGGAGACTGGCCAAAGGGCCGTGGGCCTG
CTTTCCCTGACCTCCTTCAGCTGACCGACCCTGATACACCTGCGGAGAACCTCACCTTC
CTCTTGGTTGAGCTCCCCAGCATGGCCAGCTCTACCTGTGGGGACAGGGCTACTTCAA
CACAAATTTACCCAGCAGGATGTGGACAGCAAGAATGTGGCCTATCGGCACTCAGGAGGG
GACTCCCAGACTGACTGCTTTACTTTTCATGGCCACAGATGGGACAAACCAAGGCTTTATT
GTGAATGGGAGAGTGTGGGAAGAACCTGTTTTATTACCATTTCAGGTAGACCAATTGGAC
AAAACAGCTCCTCGTATCACACTCTTGCATTCCCCTTCTCAAGTGGGGCTCTGAAAAAT
GGCTGCTACGGGATTTACATCACTTCCCCTGTTGAAGGCATCAGACCCTGACTGAG
GACGATCAGATCATCTTTAAAATTTACAAGGCCAAAACATGGACATCTGGAGAACACA
ACAACAGGTGAATTTATCCATGAGAAATTTAGCCAAAAGGACTTAAACAGTAAGACTATT
CTTTACATCATAAACCCATCTTTGGAAGTAAATTCAGATACCGTGAATTTCAAATCATG
GACCCACAGGGAACCTCGCCACTCCTCAAATTTGGAAGTGAAGTGGTCTCATATTGAA
TGGTACAGACCGAATATGAAGTCTGTGAGAATGTGGGTTTGTGCCCTTGGAAATTATC
AGAAGGGGATATTCATGGACTCGGCCTTTGTGGGTATAAAGGTCAACCAAGTGTGAGCT
GCAGTTGGAAAAGATTTACCCTGATTCCATCTAAACTGATTGAGTTTGACCCAGGAATG
TCAACTAAGATGTGGAATATAGCAATTACCTATGACGGATTAGAGGAAGATGATGAGGTC
TTTGAAGTAAATTTGAACTCCCCTGTGAATGCAGTTCTTGGCACAAGACAAAAGCTGCA
GTGAAAATTTGGACTCAAAGGAGGACAATGCCATCTTCATATTCTCCAACCAAAGC
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ACCACTTCTGGTTTCCTTTCATCTGGAAAGAAGACCTTCCATCTTCCATGCAGCTAGCA
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ATCATCTATAATTATCATGGGATAGTTTCTTGAAGTGGAGGATGACAGTTTCCCAACT
CACAAAAGGAAGGCCAAAGTATCCATCATTAGTCAGCCACAAAAGACAATCAAAGTGGA
GAACTGCCTCAAGCAGATAAAGTGAATCCACAAGTACTCACACTTCCCAGACAGGAC
CAGTTGCCCTCATTTCAAAGAAGTGCCTCTGGAATTAAGGGACTCTTCCATTTTGAA
GAAGGCATCCAGAAGCTGTATCAGTGAATGGGATCGCCTGGAAAGCCTGGAGTCCCAA
ACCAAGGATGTGGAAGACAAATCCTGTCCAGCCGGGTGGCACCAGCACTCAGGCTACTGT
CACATCTTGATCACAGAGCAGAAAGGCACCTGGAATGCGGCTGCCAAAGCTTGCAGGGAA
CAATACCTGGGCAACCTTGAAGTGTATTCTCCAGGCAGCACATGCGGTGGCTCTGGGAC
ATTGGTGGGAGAAAGTCTTTTGGATAGGTTTGAACGACCAAGTGCATGTGGCCACTGG
GAGTGGATCGGTGGTGAACCTGTTGCCTTACCAATGGGAGAAGAGGGCCCTCTCAACGC
TCCAAGCTTGGAAAGAGCTGTGTTTTGGTTCAAAGACAAGGGAATGGCAAAACAAAAGAC
TGTAGGAGAGCCAAACCTCATAATTATGTGTGTTCCAGAAAACCTAA

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Restriction Sites: Please inquire

ACCN: NM_001177704

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:	<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:	<u>NM_001177704.1, NP_001171175.1</u>
RefSeq Size:	4967 bp
RefSeq ORF:	2148 bp
Locus ID:	158326
UniProt ID:	<u>Q5H8C1</u>
Cytogenetics:	9p22.3
Protein Families:	Protease, Transmembrane
Gene Summary:	<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 (2) lacks many of the 5' coding exons found in variant 1 and has a different 5' UTR and 5' CDS. The resulting protein, (isoform 2, also known as Toll-like/interleukin-1 receptor regulator, TILRR) has a different N-terminus and is shorter than isoform 1. This isoform has been shown to associate with the extracellular domain of interleukin-1 receptors and magnify inflammatory responses regulated by nuclear factor kappa B. Variants 2 and 5 both encode the same isoform (2). 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>