

Product datasheet for **SC126517**

Factor IX (F9) (NM_000133) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Factor IX (F9) (NM_000133) Human Untagged Clone
Tag:	Tag Free
Symbol:	Factor IX
Synonyms:	F9 p22; FIX; HEMB; P19; PTC; THPH8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126517 sequence for NM_000133 edited (data generated by NextGen Sequencing)

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ATGCAGCGCGTGAACATGATCATGGCAGAATCACCAGGCCTCATCACCATCTGCCTTTTA
GGATATCTACTCAGTGTGAATGTACAGTTTTTCTTGATCATGAAAACGCCAACAAAATT
CTGAATCGGCCAAAGAGGTATAATTCAGGTAATTTGGAAGAGTTTGTTC AAGGGAACCTT
GAGAGAGAATGTATGGAAGAAAAGTGTAGTTTTGAAGAAGCAGGAGAAGTTTTGAAAAC
ACTGAAAGAACAACCTGAATTTTTGGAAGCAGTATGTTGATGGAGATCAGTGTGAGTCCAAT
CCATGTTTTAAATGGCGCAGTTGCAAGGATGACATTAATTCCTATGAATGTTGGTGTCCC
TTTGGATTTGAAGGAAAAGAACTGTGAATTAGATGTAACATGTAACATTAAGAATGGCAGA
TGCGAGCAGTTTTGTA AAAATAGTGTGATAACAAGGTGGTTTGCCTGTACTGAGGGA
TATCGACTTGCGAAAACCAGAAGTCTGTGAACCAGCAGTGCCATTTCCATGTGGAAGA
GTTTCTGTTTCACAAAACCTTAAGCTCACCCGTGCTGAGACTGTTTTTCTGATGTGGAC
TATGTA AATTCTACTGAAGCTGAAACATTTTGGATAACATCACTCAAAGCACCCAATCA
TTTAATGACTTCACTCGGGTTGTTGGTGGAGAAGATGCCAAACCAGGTCAATTCCTTGG
CAGGTTGTTTTGAATGGTAAAGTTGATGCATTCTGTGGAGGCTCTATCGTTAATGAAAA
TGGATTGTA AACTGCTGCCACTGTGTTGAAACTGGTGTTAAAATACAGTTGTCCGAGGT
GAACATAATATTGAGGAGACAGAACATACAGAGCAAAAAGCGAAATGTGATTGCAATTATT
CCTCACCACAAC TACAATGCAGCTATTAATAAGTACAACCATGACATTGCCCTTCTGGAA
CTGGACGAACCCTTAGTGCTAACAGCTACGTTACACCTATTTGCATTGCTGACAAGGAA
TACACGAACATCTTCTCAAATTTGGATCTGGCTATGTAAGTGGCTGGGGAAGAGTCTTC
CACAAAGGGAGATCAGCTTTAGTTCTTCAGTACCTTAGAGTTC CACTTGTGACCGAGCC
ACATGTCTTCGATCTACAAAGTTCACCATCTATAACAACATGTTCTGTGCTGGCTCCAT
GAAGAGGTAGAGATTCATGTCAAGGAGATAGTGGGGACCCCATGTTACTGAAGTGGA
GGGACCAGTTTTCTTAACTGGAATTATTAGCTGGGGTGAAGAGTGTGCAATGAAAGGCAAA
TATGGAATATATACCAAGGTATCCCGGTATGTCAACTGGATTAAGGAAAAACAAGCTC
ACTTAA

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Clone variation with respect to NM_000133.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_000133 unedited

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CCCCAACCCACNAACNNCCCCCNCCCCGCGTTCTCANAATTGTATACGACTCTATA
GGCGGCCCGCAAATTCGCACGAAAAAGTTATGCAGCGCGTGAACATGATCATGGCAGAAT
CACCAGGCCTCATCACCATCTGCCTTTTAGGATATCTACTCAGTGTGAATGTACAGTTT
TTCTTGATCATGAAAACGCCAACAAAATTCGAATCGGCCAAAGAGGTATAATTCAGGTA
AATTGGAAGAGTTTGTCAAGGGAACCTTGAGAGAGAATGTATGGAAGAAAAGTGTAGTT
TTGAAGAAGCACGAGAAGTTTTTGA AAACACTGAAAGAACAACCTGAATTTTTGGAAGCAGT
ATGTTGATGGAGATCAGTGTGAGTCCAATCCATGTTTAAATGGCGCAGTTGCAAGGATG
ACATTAATTCCTATGAATGTTGGTGTCCCTTTGGATTTGAAGGAAAGAACTGTGAATTAG
ATGTAACATGTAACATTAAGAATGGCAGATGCGAGCAGTTTTGTA AAAATAGTGCTGATA
ACAAGGTGGTTTGTCTCTGTACTGANGGATATCGACTTGCGAAAACCAGAAGTCTGTG
AACCAGCAGTGCCATTTCCATGTGGAAGAGTTTCTGTTTCACAAAACCTTAAGCTCACCC
GTGCTGAGACTGTTTTTCTGATGTGGACTATGTA AATTCTACTNGAAGCTGAACCATTT
TNGATAACATCACTCANAGCACCCCATCATTTATGACTTCACTCGGNTTGTGGTGGGAG
AAGATGCCAAACCAGGTCAATTTCCCTTGCCANGNTGTTTTGAATGGTAAAGTTGATGCAT
TCTGTGGAGGCTCTATCGTTAATGGA AATGGAATGTA AACTGCTGCCACTGTTGAAAC
TGGTGTTAAAATACAGTTGCCGAGTTGACATAAATTG

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Restriction Sites: NotI-NotI

ACCN: NM_000133

Insert Size: 2900 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_000133.2 , NP_000124.1
RefSeq Size:	2804 bp
RefSeq ORF:	1386 bp
Locus ID:	2158
UniProt ID:	P00740
Cytogenetics:	Xq27.1
Domains:	GLA, Tryp_SPc, EGF_CA, EGF, EGF
Protein Families:	Druggable Genome, Protease, Secreted Protein
Protein Pathways:	Complement and coagulation cascades
Gene Summary:	<p>This gene encodes vitamin K-dependent coagulation factor IX that circulates in the blood as an inactive zymogen. This factor is converted to an active form by factor XIa, which excises the activation peptide and thus generates a heavy chain and a light chain held together by one or more disulfide bonds. The role of this activated factor IX in the blood coagulation cascade is to activate factor X to its active form through interactions with Ca²⁺ ions, membrane phospholipids, and factor VIII. Alterations of this gene, including point mutations, insertions and deletions, cause factor IX deficiency, which is a recessive X-linked disorder, also called hemophilia B or Christmas disease. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Sep 2015]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>