OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC309876

Factor V (F5) (NM_000130) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Factor V (F5) (NM_000130) Human Untagged Clone
Tag:	Tag Free
Symbol:	F5
Synonyms:	FVL; PCCF; RPRGL1; THPH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309876 representing NM_000130. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTCCCAGGCTGCCCACGCCTCTGGGTCCTGGTGGTCTTGGGCACCAGCTGGGTAGGCTGGGGGAGC
CAAGGGACAGAAGCGGCACAGCTAAGGCAGTTCTACGTGGCTGCTCAGGGCATCAGTTGGAGCTACCGA
CCTGAGCCCACAAACTCAAGTTTGAATCTTTCTGTAACTTCCTTTAAGAAAATTGTCTACAGAGAGTAT
GAACCATATTTTAAGAAAGAAAAACCACAATCTACCATTTCAGGACTTCTTGGGCCTACTTTATATGCT
GAAGTCGGAGACATCATAAAAGTTCACTTTAAAAATAAGGCAGATAAGCCCTTGAGCATCCATCCTCAA
GGAATTAGGTACAGTAAATTATCAGAAGGTGCTTCTTACCTTGACCACACATTCCCTGCGGAGAAGATG
GACGACGCTGTGGCTCCAGGCCGAGAATACACCTATGAATGGAGTATCAGTGAGGACAGTGGACCCACC
CATGATGACCCTCCATGCCTCACACACATCTATTACTCCCATGAAAATCTGATCGAGGATTTCAACTCG
GGGCTGATTGGGCCCCTGCTTATCTGTAAAAAAGGGACCCTAACTGAGGGTGGGACACAGAAGACGTTT
GACAAGCAAATCGTGCTACTATTTGCTGTGTTTGATGAAAGCAAGAGCTGGAGCCAGTCATCATCCCTA
ATGTACACAGTCAATGGATATGTGAATGGGACAATGCCAGATATAACAGTTTGTGCCCATGACCACATC
AGCTGGCATCTGCTGGGAATGAGCTCGGGGCCAGAATTATTCTCCATTCATTTCAACGGCCAGGTCCTG
GAGCAGAACCATCATAAGGTCTCAGCCATCACCCTTGTCAGTGCTACATCCACTACCGCAAATATGACT
GTGGGCCCAGAGGGAAAGTGGATCATATCTTCTCTCACCCCAAAACATTTGCAAGCTGGGATGCAGGCT
TACATTGACATTAAAAACTGCCCAAAGAAAACCAGGAATCTTAAGAAAATAACTCGTGAGCAGAGGCGG
CACATGAAGAGGTGGGAATACTTCATTGCTGCAGAGGAAGTCATTTGGGACTATGCACCTGTAATACCA
GCGAATATGGACAAAAAATACAGGTCTCAGCATTTGGATAATTTCTCAAACCAAATTGGAAAACATTAT
AAGAAAGTTATGTACACACAGTACGAAGATGAGTCCTTCACCAAACATACAGTGAATCCCAATATGAAA
GAAGATGGGATTTTGGGTCCTATTATCAGAGCCCAGGTCAGAGACACACTCAAAATCGTGTTCAAAAAT
ATGGCCAGCCGCCCCTATAGCATTTACCCTCATGGAGTGACCTTCTCGCCTTATGAAGATGAAGTCAAC
TCTTCTTTCACCTCAGGCAGGAACAACACCATGATCAGAGCAGTTCAACCAGGGGAAACCTATACTTAT
AAGTGGAACATCTTAGAGTTTGATGAACCCACAGAAAATGATGCCCAGTGCTTAACAAGACCATACTAC

View online »

AGTGACGTGGACATCATGAGAGACATCGCCTCTGGGCTAATAGGACTACTTCTAATCTGTAAGAGCAGA
TCCCTGGACAGGCGAGGAATACAGAGGGCAGCAGACATCGAACAGCAGGCTGTGTTTGCTGTGTTTGAT
GAGAACAAAAGCTGGTACCTTGAGGACAACATCAACAAGTTTTGTGAAAATCCTGATGAGGTGAAACGT
GATGACCCCAAGTTTTATGAATCAAACATCATGAGCACTATCAATGGCTATGTGCCTGAGAGCATAACT
ACTCTTGGATTCTGCTTTGATGACACTGTCCAGTGGCACTTCTGTAGTGTGGGGACCCAGAATGAAATT
TTGACCATCCACTTCACTGGGCACTCATTCATCTATGGAAAGAGGCATGAGGACACCTTGACCCTCTTC
CCCATGCGTGGAGAATCTGTGACGGTCACAATGGATAATGTTGGAACTTGGATGTTAACTTCCATGAAT
TCTAGTCCAAGAAGCAAAAAGCTGAGGCTGAAATTCAGGGATGTTAAATGTATCCCAGATGATGATGAA
GACTCATATGAGATTTTTGAACCTCCAGAATCTACAGTCATGGCTACACGGAAAATGCATGATCGTTTA
GAACCTGAAGATGAAGAGAGTGATGCTGACTATGATTACCAGAACAGACTGGCTGCAGCATTAGGAATC
AGGTCATTCCGAAACTCATCATTGAATCAGGAAGAAGAAGAGTTCAATCTTACTGCCCTAGCTCTGGAG
AATGGCACTGAATTCGTTTCTTCAAACACAGATATAATTGTTGGTTCAAATTATTCTTCCCCAAGTAAT
ATTAGTAAGTTCACTGTCAATAACCTTGCAGAACCTCAGAAAGCCCCTTCTCACCAACAAGCCACCACA
GCTGGTTCCCCACTGAGACACCTCATTGGCAAGAACTCAGTTCTCAATTCTTCCACAGCAGAGCATTCC
AGCCCATATTCTGAAGACCCTATAGAGGATCCTCTACAGCCAGATGTCACAGGGATACGTCTACTTTCA
CTTGGTGCTGGAGAATTCAAAAGTCAAGAACATGCTAAGCATAAGGGACCCAAGGTAGAAAGAGATCAA
GCAGCAAAGCACAGGTTCTCCTGGATGAAATTACTAGCACATAAAGTTGGGAGACACCTAAGCCAAGAC
ACTGGTTCTCCTTCCGGAATGAGGCCCTGGGAGGACCTTCCTAGCCAAGACACTGGTTCTCCTTCCAGA
ATGAGGCCCTGGAAGGACCCTCCTAGTGATCTGTTACTCTTAAAACAAAGTAACTCATCTAAGATTTTG
GTTGGGAGATGGCATTTGGCTTCTGAGAAAGGTAGCTATGAAATAATCCAAGATACTGATGAAGACACA
GCTGTTAACAATTGGCTGATCAGCCCCCAGAATGCCTCACGTGCTTGGGGAGAAAGCACCCCTCTTGCC
AACAAGCCTGGAAAGCAGAGTGGCCACCCAAAGTTTCCTAGAGTTAGACATAAATCTCTACAAGTAAGA
CAGGATGGAGGAAAGAGTAGACTGAAGAAAAGCCAGTTTCTCATTAAGACACGAAAAAAGAAAAAAGAG
AAGCACACACACCATGCTCCTTTATCTCCGAGGACCTTTCACCCTCTAAGAAGTGAAGCCTACAACACA
TTTTCAGAAAGAAGACTTAAGCATTCGTTGGTGCTTCATAAATCCAATGAAACATCTCTTCCCACAGAC
CTCAATCAGACATTGCCCTCTATGGATTTTGGCTGGATAGCCTCACTTCCTGACCATAATCAGAATTCC
TCAAATGACACTGGTCAGGCAAGCTGTCCTCCAGGTCTTTATCAGACAGTGCCCCCAGAGGAACACTAT
CAAACATTCCCCATTCAAGACCCTGATCAAATGCACTCTACTTCAGACCCCAGTCACAGATCCTCTTCT
CCAGAGCTCAGTGAAATGCTTGAGTATGACCGAAGTCACAAGTCCTTCCCCACAGATATAAGTCAAATG
TCCCCTTCCTCAGAACATGAAGTCTGGCAGACAGTCATCTCTCCAGACCTCAGCCAGGTGACCCTCTCT
CCAGAACTCAGCCAGACAAACCTCTCTCCAGACCTCAGCCACACGACTCTCTCTCCAGAACTCATTCAG
AGAAACCTTTCCCCAGCCCTCGGTCAGATGCCCATTTCTCCAGACCTCAGCCATACAACCCTTTCTCCA
GACCTCAGCCATACAACCCTTTCTTTAGACCTCAGCCAGACAAACCTCTCTCCAGAACTCAGTCAGACA
AACCTTTCTCCAGCCCTCGGTCAGATGCCCCTTTCTCCAGACCTCAGCCATACAACCCTTTCTCTAGAC
TTCAGCCAGACAAACCTCTCTCCAGAACTCAGCCATATGACTCTCTCTCCAGAACTCAGTCAGACAAAC
CTTTCCCCAGCCCTCGGTCAGATGCCCATTTCTCCAGACCTCAGCCATACAACCCTTTCTCTAGACTTC
AGCCAGACAAACCTCTCTCCAGAACTCAGTCAAACAAACCTTTCCCCAGCCCTCGGTCAGATGCCCCTT
TCTCCAGACCCCAGCCATACAACCCTTTCTCTAGACCTCAGCCAGACAAACCTCTCTCCAGAACTCAGT
CAGACAAACCTTTCCCCAGACCTCAGTGAGATGCCCCTCTTTGCAGATCTCAGTCAAATTCCCCTTACC
CCAGACCTCGACCAGATGACACTTTCTCCAGACCTTGGTGAGACAGATCTTTCCCCAAACTTTGGTCAG
ATGTCCCTTTCCCCAGACCTCAGCCAGGTGACTCTCTCTCCAGACATCAGTGACACCACCCTTCTCCCG
GATCTCAGCCAGATATCACCTCCTCCAGACCTTGATCAGATATTCTACCCTTCTGAATCTAGTCAGTCA
TTGCTTCTTCAAGAATTTAATGAGTCTTTTCCTTATCCAGACCTTGGTCAGATGCCATCTCCTTCATCT
CCTACTCTCAATGATACTTTTCTATCAAAGGAATTTAATCCACTGGTTATAGTGGGCCTCAGTAAAGAT
GGTACAGATTACATTGAGATCATTCCAAAGGAAGAGGTCCAGAGCAGTGAAGATGACTATGCTGAAATT
GATTATGTGCCCTATGATGACCCCTACAAAACTGATGTTAGGACAAACATCAACTCCTCCAGAGATCCT
GACAACATTGCAGCATGGTACCTCCGCAGCAACAATGGAAACAGAAGAAATTATTACATTGCTGCTGAA
GAAATATCCTGGGATTATTCAGAATTTGTACAAAGGGAAACAGATATTGAAGACTCTGATGATATTCCA
GAAGATACCACATATAAGAAAGTAGTTTTTCGAAAGTACCTCGACAGCACTTTTACCAAACGTGATCCT
CGAGGGGAGTATGAAGAGCATCTCGGAATTCTTGGTCCTATTATCAGAGCTGAAGTGGATGATGTTATC
CAAGTTCGTTTTAAAAATTTAGCATCCAGACCGTATTCTCTACATGCCCATGGACTTTCCTATGAAAAA
TCATCAGAGGGAAAGACTTATGAAGATGACTCTCCTGAATGGTTTAAGGAAGATAATGCTGTTCAGCCA

AATAGCAGTTATACCTACGTATGGCATGCCACTGAGCGATCAGGGCCAGAAAGTCCTGGCTCTGCCTGT
CGGGCTTGGGCCTACTACTCAGCTGTGAACCCAGAAAAAGATATTCACTCAGGCTTGATAGGTCCCCTC
CTAATCTGCCAAAAAGGAATACTACATAAGGACAGCAACATGCCTATGGACATGAGAGAATTTGTCTTA
CTATTTATGACCTTTGATGAAAAGAAGAGCTGGTACTATGAAAAGAAGTCCCGAAGTTCTTGGAGACTC
ACATCCTCAGAAATGAAAAAATCCCATGAGTTTCACGCCATTAATGGGATGATCTACAGCTTGCCTGGC
CTGAAAATGTATGAGCAAGAGTGGGTGAGGTTACACCTGCTGAACATAGGCGGCTCCCAAGACATTCAC
GTGGTTCACTTTCACGGCCAGACCTTGCTGGAAAATGGCAATAAACAGCACCAGTTAGGGGTCTGGCCC
CTTCTGCCTGGTTCATTTAAAACTCTTGAAATGAAGGCATCAAAACCTGGCTGGTGGCTCCTAAACACA
GAGGTTGGAGAAAACCAGAGAGCAGGGATGCAAACGCCATTTCTTATCATGGACAGAGACTGTAGGATG
CCAATGGGACTAAGCACTGGTATCATATCTGATTCACAGATCAAGGCTTCAGAGTTTCTGGGTTACTGG
GAGCCCAGATTAGCAAGATTAAACAATGGTGGATCTTATAATGCTTGGAGTGTAGAAAAACTTGCAGCA
GAATTTGCCTCTAAACCTTGGATCCAGGTGGACATGCAAAAGGAAGTCATAATCACAGGGATCCAGACC
CAAGGTGCCAAACACTACCTGAAGTCCTGCTATACCACAGAGTTCTATGTAGCTTACAGTTCCAACCAG
ATCAACTGGCAGATCTTCAAAGGGAACAGCACAAGGAATGTGATGTATTTTAATGGCAATTCAGATGCC
TCTACAATAAAAGAGAATCAGTTTGACCCACCTATTGTGGCTAGATATATTAGGATCTCTCCAACTCGA
GCCTATAACAGACCTACCCTTCGATTGGAACTGCAAGGTTGTGAGGTAAATGGATGTTCCACACCCCTG
GGTATGGAAAATGGAAAGATAGAAAACAAGCAAATCACAGCTTCTTCGTTTAAGAAATCTTGGTGGGGA
GATTACTGGGAACCCTTCCGTGCCCGTCTGAATGCCCAGGGACGTGTGAATGCCTGGCAAGCCAAGGCA
AACAACAATAAGCAGTGGCTAGAAATTGATCTACTCAAGATCAAGAAGATAACGGCAATTATAACACAG
GGCTGCAAGTCTCTGTCCTCTGAAATGTATGTAAAGAGCTATACCATCCACTACAGTGAGCAGGGAGTG
GAATGGAAACCATACAGGCTGAAATCCTCCATGGTGGACAAGATTTTTGAAGGAAATACTAATACCAAA
GGACATGTGAAGAACTTTTTCAACCCCCCAATCATTTCCAGGTTTATCCGTGTCATTCCTAAAACATGG
AATCAAAGTATTGCACTTCGCCTGGAACTCTTTGGCTGTGATATTTACTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM_000130

Insert Size: 6675 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).

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:
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_000130.4
RefSeq Size:	9179 bp
RefSeq ORF:	6675 bp
Locus ID:	2153
UniProt ID:	P12259
Cytogenetics:	1q24.2
Domains:	F5_F8_type_C, Cu-oxidase
Protein Families:	Druggable Genome
Protein Pathways:	Complement and coagulation cascades
MW:	251.7 kDa
Gene Summary:	This gene encodes an essential cofactor of the blood coagulation cascade. This factor circulates in plasma, and is converted to the active form by the release of the activation peptide by thrombin during coagulation. This generates a heavy chain and a light chain which are held together by calcium ions. The activated protein is a cofactor that participates with activated coagulation factor X to activate prothrombin to thrombin. Defects in this gene result in either an autosomal recessive hemorrhagic diathesis or an autosomal dominant form of thrombophilia, which is known as activated protein C resistance. [provided by RefSeq, Oct 2008]