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Product datasheet for SC126869

Fibronectin (FN1) (NM_002026) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fibronectin (FN1) (NM_002026) Human Untagged Clone
Tag:	Tag Free
Symbol:	FN1
Synonyms:	CIG; ED-B; FINC; FN; FNZ; GFND; GFND2; LETS; MSF; SMDCF
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002026, the custom clone sequence may differ by one or more nucleotides

ATGCTTAGGGGTCCGGGGCCCGGGCTGCTGCTGGCCGTCCAGTGCCTGGGGACAGCGGTGCCCTCCA
CGGGAGCCTCGAAGAGCAAGAGGCAGGCTCAGCAAATGGTTCAGCCCCAGTCCCCGGTGGCTGTCAGTCA
AAGCAAGCCCGGTTGTTATGACAATGGAAAACACTATCAGATAAATCAACAGTGGGAGCGGACCTACCTA
GGCAATGCGTTGGTTTGTACTTGTTATGGAGGAAGCCGAGGTTTTAACTGCGAGAGTAAACCTGAAGCTG
AAGAGACTTGCTTTGACAAGTACACTGGGAACACTTACCGAGTGGGTGACACTTATGAGCGTCCTAAAGA
CTCCATGATCTGGGACTGTACCTGCATCGGGGCTGGGCGAGGGAGAATAAGCTGTACCATCGCAAACCGC
TGCCATGAAGGGGGTCAGTCCTACAAGATTGGTGACACCTGGAGGAGACCACATGAGACTGGTGGTTACA
TGTTAGAGTGTGTGTGTCTTGGTAATGGAAAAGGAGAATGGACCTGCAAGCCCATAGCTGAGAAGTGTTT
TGATCATGCTGCTGGGACTTCCTATGTGGTCGGAGAAACGTGGGAGAAGCCCTACCAAGGCTGGATGATG
GTAGATTGTACTTGCCTGGGAGAAGGCAGCGGACGCATCACTTGCACTTCTAGAAATAGATGCAACGATC
AGGACACAAGGACATCCTATAGAATTGGAGACACCTGGAGCAAGAAGGATAATCGAGGAAACCTGCTCCA
GTGCATCTGCACAGGCAACGGCCGAGGAGAGTGGAAGTGTGAGAGGCACACCTCTGTGCAGACCACATCG
AGCGGATCTGGCCCCTTCACCGATGTTCGTGCAGCTGTTTACCAACCGCAGCCTCACCCCCAGCCTCCTC
CCTATGGCCACTGTGTCACAGACAGTGGTGTGGTCTACTCTGTGGGGATGCAGTGGCTGAAGACACAAGG
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GCACCACAGAAGGGCGACAGGACGGACATCTTTGGTGCAGCACAACTTCGAATTATGAGCAGGACCAGAA
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CACTTCCCCTTCCTATACAACAACCACAATTACACTGATTGCACTTCTGAGGGCAGAAGAGACAACATGA
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GGGGCACATGCTGAACTGTACATGCTTCGGTCAGGGTCGGGGCAGGTGGAAGTGTGATCCCGTCGACCAA

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TGCCAGGATTCAGAGACTGGGACGTTTTATCAAATTGGAGATTCATGGGAGAAGTATGTGCATGGTGTCA
GATACCAGTGCTACTGCTATGGCCGTGGCATTGGGGAGTGGCATTGCCAACCTTTACAGACCTATCCAAG
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GATGGTGAAGAAGACACTGCAGAGCTGCAAGGCCTCAGACCGGGTTCTGAGTACACAGTCAGTGTGGTTG
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CCTGAAGTTCACTCAGGTCACACCCACAAGCCTGAGCGCCCAGTGGACACCACCCAATGTTCAGCTCACT
GGATATCGAGTGCGGGTGACCCCCAAGGAGAAGACCGGACCAATGAAAGAAATCAACCTTGCTCCTGACA

GCTCATCCGTGGTTGTATCAGGACTTATGGTGGCCACCAAATATGAAGTGAGTGTCTATGCTCTTAAGGA
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CGTGTGACAGATGCTACTGAGACCACCATCACCATTAGCTGGAGAACCAAGACTGAGACGATCACTGGCT
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TACATCATTTCATGTCATCCTGTTGGCACTGATGAAGAACCCTTACAGTTCAGGGTTCCTGGAACTTCTA
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CAGATGATGAGCTGCACATGTCTTGGGAACGGAAAAGGAGAATTCAAGTGTGACCCTCATGAGGCAACGT
GTTATGATGATGGGAAGACATACCACGTAGGAGAACAGTGGCAGAAGGAATATCTCGGTGCCATTTGCTC
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CCCGAAGGCACTACTGGCCAGTCCTACAACCAGTATTCTCAGAGATACCATCAGAGAACAAACACTAATG
TTAATTGCCCAATTGAGTGCTTCATGCCTTTAGATGTACAGGCTGACAGAGAAGATTCCCGAGAGTAA

Restriction Sites:	NotI-NotI
ACCN:	NM_002026
Insert Size:	8040 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:	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_002026.2, NP_002017.1
RefSeq Size:	8449 bp
RefSeq ORF:	7068 bp

Locus ID:	2335
UniProt ID:	P02751
Cytogenetics:	2q35
Domains:	FN1, FN2, FN3
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion, Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer
Gene Summary:	This gene encodes fibronectin, a glycoprotein present in a soluble dimeric form in plasma, and in a dimeric or multimeric form at the cell surface and in extracellular matrix. The encoded preproprotein is proteolytically processed to generate the mature protein. Fibronectin is involved in cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis. The gene has three regions subject to alternative splicing, with the potential to produce 20 different transcript variants, at least one of which encodes an isoform that undergoes proteolytic processing. The full-length nature of some variants has not been determined. [provided by RefSeq, Jan 2016] Transcript Variant: This variant (3) lacks an in-frame exon and an internal segment in the coding region, as compared to variant 1. Isoform 3 encoded by this variant thus lacks two internal segments, as compared to isoform 1.