

## Product datasheet for **SC308636**

### Fibronectin (FN1) (NM\_212476) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Fibronectin (FN1) (NM\_212476) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** FN1  
**Synonyms:** CIG; ED-B; FINC; FN; FNZ; GFND; GFND2; LETS; MSF; SMDCF  
**Vector:** pCMV6 series  
**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_212476, the custom clone sequence may differ by one or more nucleotides

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AACCAGTATTCTCAGAGATACCATCAGAGAACAACACTAATGTTAATTGCCCAATTGAG
TGCTTCATGCCTTAGATGTACAGGCTGACAGAGAAGATTCCCGAGAGTAA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_212476
- 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\\_212476.1](#), [NP\\_997641.1](#)

**RefSeq Size:** 8272 bp

**RefSeq ORF:** 6891 bp

**Locus ID:** 2335

**UniProt ID:** [P02751](#)

**Cytogenetics:** 2q35

**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 (5) lacks two in-frame exons in the coding region, as compared to variant 1. Isoform 5 encoded by this variant thus lacks two internal segments, as compared to isoform 1. The encoded isoform (5) may undergo proteolytic processing similar to isoform 3.