

Product datasheet for **SC127057**

FIGNL1 (NM_022116) Human Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FIGNL1 (NM_022116) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | FIGNL1 |
| 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 SC127057 sequence for NM_022116 edited (data generated by NextGen Sequencing)

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ATGCAGACCTCCAGCTCTAGATCTGTGCACCTGAGTGAATGGCAGAAGAATTACTTCGCA
ATTACATCTGGCATATGTACCGGACCGAAGGCAGATGCATACCGTGCACAGATATTACGC
ATTCAGTATGCATGGGCAAACCTGAGATTTCCAGGTCTGTGCTACCAAACCTGTTCAA
AAATATGCAGAGAAATATTCTGCAATTATTGATTCTGACAATGTTGAATCTGGGTTGAAT
AATTATGCAGAAAACATTTTAACTTTGGCAGGATCTCAACAAACAGATAGTGACAAGTGG
CAGTCTGGATTGTCAATAAATAATGTTTTCAAAATGAGTAGTGTACAGAAGATGATGCAA
GCTGGCAAAAAATTCAAAGACTCTCTGTTGGAACCTGCTCTTGCCATCAGTGGTAATCCAT
AAGGAGGCCACTGTCTTTGATCTTCTAAATTTAGTGTGTTGTGGTAGTTCTCAAGAGAGT
GACTCATTACCTAACTCAGCTCATGATCGAGACCGGACCAAGACTTCCCGGAGAGCAAT
CGTTTGAAACTCCTTCAGAATGCCAGCCACCTATGGTGACTAACACTGCTAGGACTTGT
CCTACATTCTCAGCACCTGTAGGTGAGTCAGCTACTGCAAAATCCATGTCACACCATTG
TTTGAAAATGTCAAAAAGGAAAAACACAGCTCTGCAAAAAGAAAACATAGGACTTAATGTG
TTCTTATCTAACCAAGTCTTGTTTTCTGCTGCCTGTGAAAATCCACAGAGGAAGTCTTTT
TATGGTTCCTGGCACCATTTGATGCACTTTCCAATCCAATACTGAATAAGGCTTGTAGTAAA
ACAGAAGATAATGGCCAAAGGAGGATAGCAGCCTGCCTACATTTAAAACCTGCAAAAAGAA
CAATTATGGGTAGATCAGCAAAAAAGTACCACCAACCTCAGCGTGCATCAGGGTCTTCA
TATGGTGGTGTAAAAAGTCTCTAGGAGCTAGTAGATCCCAGGGGATACTTGGAAAGTTT
GTTCTCTATACCCAAGCAAGATGGGGGAGAGCAGAATGGAGGAATGCAATGTAAGCCT
TATGGGGCAGGACCTACAGAACCAGCACATCCAGTTGATGAGCGTCTGAAGAACTTGGAG
CCAAAGATGATTGAACTTATTATGAATGAGATTATGGATCATGGACCTCCAGTAAATTGG
GAAGATATTGCAGGAGTAGAATTTGCTAAAGCCACCATAAAGGAAATAGTTGTGTGGCCC
ATGTTGAGGCCAGACATCTTTACTGGTTTAAGGGGACCCCTAAAGGAATTTTGCTCTTT
GGTCTCCTGGGACTGGTAAAACTCTAATTGGCAAGTGCATTGCTAGTCAGTCTGGGGCA
ACATTCTTTAGCATCTCTGCTTCATCCTTAACTTCTAAATGGGTAGGTGAGGGGGAGAAA
ATGGTCCGTGCATTGTTTGTGTTGCAAGGTGTCAGCAACCAGCTGTGATATTTATTGAC
GAAATTGATTCTTGTATCTCAACGGGGAGATGGTGAGCATGAATCTTCTAGAAGGATA
AAAACAGAATTTTAGTTCAATTAGATGGAGCAACAACATCTTCTGAAGATCGTATCCTA
GTGGTGGGAGCAACAAATCGGCCACAAGAAATTGATGAGGCTGCCCGGAGAAGATTGGTG
AAAAGGCTTTATATCCCTCCCAGAAGCTTCAGCCAGGAAACAGATAGTAATTAATCTA
ATGTCCAAAGAGCAGTGTGCTCAGTGAAGAAGAAATTGAACAGATTGTACAGCAGTCT
GATGCGTTTTTCAGGAGCAGACATGACACAGCTTTCAGGGGAGGCTTCTCTTGGTCTATT
CGCAGTTTACAACTGCTGACATTGCTACCATAACACCGGATCAAGTTCGACCCATAGCT
TACATTGATTTTGAAAATGCTTTTAGAACTGTGCGACCTAGTGTCTTCCAAAAGATTTA
GAGCTTTATGAAAACCTGGAACAAAACCTTTTGGTTGTGGAAAGTAA
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Clone variation with respect to NM_022116.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_022116 unedited
 TTCTAAGCCCGCCGTCGNCGTAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA
 GCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTACTATAGGGCGGCCGC
 GAATTCGGCACGAGGGAGGCTGCCAGCGTCCCACACCAGCCGAGGTGAAAACCGGCAGA
 AAGACATTAAGAGATTTTCTGCAGTCACTGCTGGCAGATGATAGAGCCAGGATTTGAAA
 GCAGGCAGCCTGGCTCCAGACCCTGTGCTCTTAACTCCCGTTTTGCATCAAGAACAAGA
 CCTATGAAAGGCTTGTACAGTCTTGGTACTGAGATAGCAGCATCAAGGAGCATTGTGTA
 CATGCAGAAAGTGCACAGTACCTGGAGTGAAACTGCTTGTGTTTCGATTTCTGATACCATT
 ATAAGTGGCTGTGTGATCTCAAAACCTCTAAAATGCAGACCTCCAGCTCTAGATCTGTGC
 ACCTGAGTGAATGGCAGAAGAATTAAGTTCGCAATTACATCTGGCATATGTACCGGACCGA
 AGGCAGATGCATACCGTGCACAGATATTACGCATTCAAGTATGCATGGGCAAACTCTGAGA
 TTTCCAGGTCTGTGCTACCAAAGTGTCAAAAATATGCAGAGAAATATTCTGCAATTAT
 TGATTCTGACAATGTTGAATCTGGGTTGAATAATTATGCAGAAAACATTTAACTTTGGC
 AAGGATCTCACAACAGATAGTACAAGTGGCAGTCTGGATTGCATAAATATGTTTTCA
 AATGAGTANTGTACANAAAAGATGCAAGCTGGCAAAAATTCAGAATCTCTGTTGGAAC
 CGCTCTTGATCANGGATCCATAAGAGGCACTGGCTTTGATCTCAAATTTAGGGTTG
 GGAAGTTCTCAAAAAGTGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_022116 unedited
 TATGTACCGTCGGCCGATTCTANNATCGAGTTTTTCTTTTTTTTTTTTTTTTTTTTTTTT
 TTTAAAAAGTGCATATTTCTTAATCCAGGAATTACTCAAGAAATTTATACATTTTTTAA
 AAGATCACAAAATGCATCCACATAGTTCCTTTACAATAAACAAGATAAACAACCTAG
 CGTCCTGTCCTATATGCGCTCTACCAGTGAATCAATTATATTCCATCCATCCATGGAAT
 CCTAGACAATCATAAAAGGACATTTATGTTAACATGGAAGTGAAGATACGCTTTGAAGA
 ATAGGCTACAAGAGAGAATACATTACACAATCCTACTGCTGTATAAAAACAAAACATCTGG
 AAGAATCTATGCTTAAATATTAATAGTGTGTCCCGCAAAGTGGTAGGATAATAGTGACTT
 TTATTTCTTTTACTTATCTATTTTCTCATGTTTCTGTAATGAACATGTTTCATAAAAC
 AAAATGGGTCTGTTATAAAAATCTGAAAACCTGTTTTTGAAGAGAGCAGTATTACAGGC
 TGTAGTGTCAAAAATTAATGTTAAATATCACACGCTCCCGTGAACAAAACCAACAT
 TCTTAATTAACCTTTTCTGTTGAATCTAATACTAGATCACACCTTGCTATTTCTGAA
 AAGTTAGTCTGATAAAAATTTAAAACATAAAAAGAGGTAAACAAATTGGCTGAAGAAAGT
 AAAAATGGCACTTTAGCTTTGAGAACTAAATCTACTAAATAACACTAAGCAATCTTTG
 TCCAAATGTAACATTATACTAGCTGACATTAAGAATATGTGGCCATCAGAAGGCACTTT
 TTTCAAAAAGATGAATATTATCAGACCCACTTTTTTGTAACTTCACTAAAAAATTTGA
 GCCACTTTCAGTTTATAGCTCCAGAAAAGACTCTAAAACAAGTCATCTCCTTGGTCAA

Restriction Sites:

ECoRI-NOT

ACCN:

NM_022116

Insert Size:

3750 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_022116.2](#), [NP_071399.2](#)

RefSeq Size: 3497 bp

RefSeq ORF: 2025 bp

Locus ID: 63979

UniProt ID: [Q6PIW4](#)

Cytogenetics: 7p12.2

Domains: AAA, AAA

Gene Summary: This gene encodes a member of the AAA ATPase family of proteins. The encoded protein is recruited to sites of DNA damage where it plays a role in DNA double-strand break repair via homologous recombination. This protein has also been shown to localize to the centrosome and inhibit ciliogenesis, and may regulate the proliferation and differentiation of osteoblasts. [provided by RefSeq, Oct 2016]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 3. Variants 1-6 and 10-15 encode the same isoform (1). 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.