

## Product datasheet for **SC100457**

### C4orf21 (ZGRF1) (NM\_018392) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	C4orf21 (ZGRF1) (NM_018392) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZGRF1
Synonyms:	C4orf21
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_018392, the custom clone sequence may differ by one or more nucleotides

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ATGGAAGCCAAGAATTTATTGTTCTATATACTCATCAAAGATGAAGAAGTCAAAGTGTGGCAAGATG
GAATTCTGAAGATCACTCACTTAGGAAACAAAGCAATTTTATATGATGACAAAGGAGCATGTTTGGAGAG
TCTGTTTCTTAAATGCCTTGAGGTGAAACCTGGAGATGACTTAGAAAGTATCGATACTTAATCACAGTT
GAAGAGGTTAAAGTTGCTGGAGCCATAGGTATTGTTAAGCAGAATGTCAATAAAGAAGCACCAGAGTTAA
ATCAAGGACATTTATATCCTCTGGCCGATCTCTTGGATGTCAGCCCTCTGGCTTAAAAAGGAAGTTTAC
TGGTTTTCAAGGACCACGTCAGGTTCCAAGAAAATGGTTATTATGGAAGTGGTGAATCAGCTGCATCA
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AGTGCAGAAAATGATGGTATATTATCAGAATCTGACATTCAGAAGATAATAAAATACCTTTTAATCAA
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AAGGACATTTTGGTTAATGATGGCAATTCATGTTTTCAAAGAGGTCTGAGAATACAAACTGTGAAGAGA  
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ACCCCGAATAAATCTAAAGGTATAAACATGAATTTACATATTCCTCATATTCAAAACAGATTGCTGAA  
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GAAGTTTACTACTGTAATCCTGAGTTTTATAATGAACCAAAAACCAACTTTATCTTAAGCTAAGTCGG  
AAGGAAAAGATCTTCAGCTTATAGCAAAAATGATCTTTGGGTGGTTTCAAACCCCTAGACTTTGAGCTGG  
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TACTTCTTGGGCTTCTCAGTCTTGGATTTGAAAACCTTATCAGAGTTGGGAGTGTAGGAAGATTGCCAA  
ACCAATTTTACCTTATAGCTTGCATGCTGGCTCAGAAAATGAAAGTGAACAGTTAAAAGAAGTACATGCA  
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GGACCAATAGAACCCTGCTGAAGCAGGTTTCGAGTAGTTGGAGTTACCTGTGCAGCCTGCCATTCCCATG
CATGAATGATCTTAAATTTCTGTAGTTGTGCTGGATGAGTGTAGTCAGATAACTGAACCGCCTCTCTC
CTTCCCATTGCAAGGTTTGTAGTGTGAAAAGCTGATTCTTGTGGGGATCCCAAACAGCTACCTCCTACTA
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AACACTGCGAAGGAAGGGAAGATGGATTGCAACATGCAAACAGTATGAACCACAGCTGAACCATCTCT
TAAAGATTATTTGAAAAACAAGTGAAGAAAAACAGAAGAAAAAGAGTAAAAAGAAATCTAAAGAT
AAATCTCATTATAA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_018392 unedited
NNCTGTCAGCAATTTGTATACGACTCACTATAGGCGCCGCGAAATTCGCACGAGGAAGT
GTTTCTCGGGATTTCTAGGAATGACTTGAGCGATTTGGGGCGAAGGGACGAAAGACTCT
GCTCCTTAAGAAGAGAACCGGGAAGGATGCTGTTTGAACAGGATTGGGGTGGTCGCAG
TCACAGCTACTCGGACTGCTTGTAGTGGTATAAATAGTTGAATATTTCTATTTTCTGGA
CCAGCTGGTTTATAACTTCAGAAGAAATAATGAAAGCCAAGAATTTATTGTTCTATAT
ACTCATCAAAAGATGAAGAAGTCAAAAGTGTGGCAAGATGGAATTCGAAGATCACTCAC
TTAGGAAACAAAGCAATTTTATATGATGACAAAGGAGCATGTTTGGAGAGTCTGTTTCTT
AAATGCCTTGAGGTGAAACCTGGAGATGACTTAGAAAAGTATCGATACTTAATCACAGTT
GAAGAGGTTAAAGTTGCTGGAGCCATAGGTATTGTTAAGCAGAATGTCAATAAAGAAGCA
CCAGAGTTAAATCAAGGACATTTATATCCTCTGGCCGATCTCTTGGATGTCAGCCCTCT
GGCTTAAAAAGGAAGTTTACTGGTTTTCAAGGACCACGTCAGGTTCCAAGAAAAATGGTT
ATTATGGAAAGTGGTGAATCAGCTGCATCACATGAGGCTAAGAAAAATGGCCCTACTATT
TTTTCTCCATTCTGCAGCATGCCTCTTCTTCTTCTACTGTTGGCAAGAAGATGTAATA
ATATACTGGCAGACCCTGAGAACATTGTGACTTACAAGAACAGGGAGAGAAATGCCATGG
NATTNTNCTTCNGNTNNTTCTNCAATNCCTTNCAGATTAACCCAGAAGTCTGTGNTGAA
GAAAATNNATTTTGN
    
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**3' Read Nucleotide Sequence:**

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>OriGene 3' read for NM_018392 unedited
TTTGCCCTACATTGAGTACCGCGCGCTTCTAGATCAATTTTTTCTTTTTTTTTTCTT
GGAACAAAGTCTTCCACTGTGCGACATACTGGAGTGCAGATGAGGAGACTTTGGTGAAA
CTACTGTAATAAATGGTTTCTCACTTCCAGGAGGCTATCTGGCTCATACGTCTGTTGAG
TTCCTTGCTGAAAGACAGTATTTTTCTTTTTCAATATTTCCAAGCTGTCTAAAGCAGTAC
TGTGTTACATAGCGACTTTAAATAGAAATGGTATTTACTAATCCAGAAAGTTCTGAAG
AATTTCTAGGATCCAGTATTGTTTGCCTTCTCTGGCAGTTTCAACCTCAACATGGTCAG
GGGGTGGACTTCAATCTTTCCCAAATCTCAGGTTTCAAGATATATGTGCTTCTGTGCTT
TGGAAATAAGATGCTTTTTTCCCAGTGGGTAACAAAGAATTGGAATGTGGGTATTTG
ATTTATCAAGTGAATACATTCATAGTATTCTGATTGGTATTTAATAGTTGGACTGTG
TGTCACTACTAGAAGTTGAGGGTAAAACATGTTTATCATTTTTTGTCTAAGTCACTTCCCA
AAATAAAAGGCTGAGGTTGAGCATCTTCTGAAAATAGATTACTGTTTTAGCAATCTGGT
TTTGAATATGAGGAATATGTAATTCATGTTTATACCTTTAGATTTATTCGGGGGTAAAG
CAAAATCATAGTTAATCTGACTTCTTGAATAAGTTTATTAGCATCTTCTTTATTATCTC
CGTATACAGCATCAGTCCACTTGAAGATTCAAAATTGCTTAATGTGCTACTATACTCCT
CTATTTCTTTTCTGT
    
```

**Restriction Sites:**

NotI-NotI

**ACCN:** NM\_018392

**Insert Size:** 3000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**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\\_018392.3](#), [NP\\_060862.2](#)

**RefSeq Size:** 6740 bp

**RefSeq ORF:** 3189 bp

**Locus ID:** 55345

**UniProt ID:** [Q86YA3](#)

**Cytogenetics:** 4q25

**Gene Summary:** The encoded protein contains GRF zinc finger (zf-GRF) and transmembrane domains. GRF zinc fingers are found in a number of DNA-binding proteins. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2017]