

## Product datasheet for SC115585

### FOG2 (ZFPM2) (NM\_012082) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	FOG2 (ZFPM2) (NM_012082) Human Untagged Clone
Tag:	Tag Free
Symbol:	FOG2
Synonyms:	DIH3; FOG2; hFOG-2; SRXY9; ZC2HC11B; ZNF89B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115585 sequence for NM_012082 edited (data generated by NextGen Sequencing)

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ATGTCCCGCGCAAAGCAAAGCAAACCCCGCAGATCAAACGGCCGCTTGAAGATGCCATT
GAAGATGAGGAAGAAGAATGTCCATCAGAGGAAACAGACATCATCTCAAAGGAGACTTT
CCATTGGAGGAAAAGCTTTTCCACAGAATTTGGGCTGAAAATCTGAGCTGCGAAGAAGTG
GAATACTTTTGTAAACAAAGGTGATGATGAAGGAATCCAGGAGACAGCAGAATCAGATGGG
GACACACAGTCAGAGAAACCGGGCAACCTGGAGTTGAGACAGACGACTGGGATGGACCA
GGAGAGCTGGAGGTGTTTCAGAAAGATGGGGAACGAAAAATTCAGAGTCGACAGCAACTT
CCAGTGGGAACAACCTGGGGCCGTTTCTGGGAAGATGGACTTGAATAATAATTCTTTG
AAGACAAAGGCTCAGTCCCAATGGTGCTGACTGCTGGTCCCAAGTGGTTGCTGGATGTG
ACTTGGCAAGGAGTGGAAGACAACAAAAACAACCTGCATTGTGTACAGCAAAGGGGTCAG
CTTTGGTGTACAACCTACGAAGGCCATCTCTGAGGGTGAAGAGCTAATTGCCTTTGTGGTG
GATTTTGAAGCTCAAGGCTCAAGCTGCCAGTCAGATGACTCTCACAGAAGGGATGTACCCT
GCACGCCTGCTGGACTCAATTCAGCTGCTTCTCAGCAAGCTGCCATGGCTTCTATTTTG
CCCACAGCTATTGTCAATAAGGATATATCCCTTGCAAGTCTGTGGCATCTGGTATCGG
AGTGAGCGGAATCTGCAGGCCATTTGATGTAAGTACTGCAAGTGGGAGGCAAGAGAAGCT
GCTCCGGTGTGAGAGGAAAATGAAGACAGTGCCCATCAGATTTCCAGCCTGTGCCCTTC
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CACCAGGAGCTCCATGTCCCTAGCGGCAAACCTCCAGAGAAAGTACATGGAACACTCT
CCAAGTGCACCTGAAGACAGCTTACAGCCAGCCACAGACTTATTGACCAGAAGCGAACTT
CCCCAGAGCCAAAAGGCCATGCAGACTAAAGATGCGAGCTCTGACACAGAGCTGGACAAG
TGTGAGAAAAAGACTCAGCTCTTTCTCACGAACCAGAGACCAGAGATACAGCCTACAACA
AATAAACAAAAGCTTTTCTTACACAAAAATAAAGTCTGAGCCCTTAGCCCAAGACTTGCC
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TTTTCTTTCCCCAAGATATCACCATGGTCCCTCAAGCTTCAGAGATCTTAGCTAAGATG
TCTGAACTGGTGCATCGGCGACTGAGGCATGGCAGTAGTAGTACCCTCCCGTCAATTTAC
AGCCCTTTGATGCCCAAGGGGGCTACTTGTGAGTGTAAACATAACATTCAATAATTTG
GATAATTATCTAGTGCACAAAAGCATTATTGCAGCAGCCGATGGCAGCAGATGGCTAAG
TCCCCAGAGTTCCCTAGTGTGTGAGAAAAGATGCCTGAAGCTTTGAGTCCCAACTGGC
CAAACCTCCATAAACCTTCTCAACCCAGCTGCTCATTCTGCTGATCCTGAGAATCCACTT
CTTCAAACATCTTGCATCAATTCTCCACTGCTTAGATTTAATTGGGCCAAATGGGAAG
GGCCATGACAAGGACTTTTCCACTCAAACCTAAGAAGCTCTCCACCTCCAGTAACAATGAT
GACAAAATTAATGAAAAACCTGTTGATGTGAAAAATCCCAGTGTCCCTTAGTGATGGG
GAAAGTGACCCAAATAAGACTACCTGTGAAGCTTGCAACATTACCTTCAGCCGGCAGAA
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ATGTATGAGATGTGCTACCTGAGCAGGAACAAAGGCCTCCACTGGTTCAGCAGAGATTT
CTTGACGTAGCCAACCTCAATAATCCTTGTACCTCCACTCAAGAACCACAGAAGGGCTA
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GGCTTGAAGGTCTTTAGTGAAGTGTCTCAGCTCATTGCTACAAAAGAAGAAAAACAGACAT
TTGTTTCTTCCACAATGCCTTTACCTGGAGCAATAAAGAAAGCAAAGGAGCCGACGAG
CTTTCTCCATATTATGGAATCAAGCCAAGTGATTATTTCTGGTTCTTGTGATCCAT
AACACTGACATCGAGCAAAGCAGAAAATGCAGAAAATGAATCTCCTAAAGGCCAGGCTTCC
TCAAATGGGTGTGCTGCGCTGAAGAAAGATTCTCTGCCATTGTTGCCAAAAATCGAGGA
ATGGTAATAGTGAATGGTGGACTGAAACAAGATGAGAGACCTGCTGCCAACCCACAGCAA
GAGAACATTTCCAGAATCCTCAGCACGAAGACGACCACAAATCTCCCTCGTGGATCTCT
GAGAACCATTAGCTGCCAATGAGAATGTCTACCAGGAATTCCTCAGCAGAGGAACAG
TTGTCTAGTATAGCAAAGGTGTGAATGGTTCCAGCCAGGCTCCAACCAGTGGGAATAT
TGCCGGCTATGTGATATCCAGTTCAACAACCTTTCAAACCTTTATAACTCACAAAGAAGTTT
TATTGCTCATCATGCAGCAGAACATGTCAAATGA
    
```

Clone variation with respect to NM\_012082.3

**5' Read Nucleotide Sequence:**

```

>OriGene 5' read for NM_012082 unedited
TTGTATACGAACTCACTATAGGGCGGCCGCGATTTCGGCAGCAGGCTCTCCCCCTCCCCTC
CTCACTGTCACTCTCTGTGCCCCGCTCTCTTCTCTCATTGCTTGCTCATCTCCGA
ACGTGAATCCGCGGCTCCCGGAGGAGCCAGCGCCCGGAGCACCTGGAGTCCGGCCGGCG
GCGGGCCGAGCCTGGCCAGCGGGCGGCGGGCGGGCGGGCGGGGAGCGGGCGGGAGCC
GAGGGAGCGGCAGCCGCGACCGCGGGCACCGCGGGAGCCAGCGGCAGCAGCCCGCC
GAGATGTCCCGGCGAAAGCAAAGCAAACCCGGCAGATCAAACGGCCGCTTGAAGATGCC
ATTGAAGATGAGGAAGAAGAATGTCCATCAGAGGAAACAGACATCATCTCAAAGGAGAC
TTTCCATTGGAGGAAAGCTTTTCCACAGAATTTGGCCTGAAAATCTGAGCTGCGAAGAA
GTGGAATACTTTTGTAAACAAAGGTGATGATGAAGGAATCCAGGAGACAGCAGAATCAGAT
GGGGACACACAGTCAGAGAAACCGGGCAACCTGGAGTTGAGACAGACGACTGGGATGGA
CCAGGAGAGCTGGAGGTGTTTCAAGAAAGATGGGGAACGAANAATTCAGAGTCGACAGCAA
CTTCCAGTGGGAACAACCTGGGGGGCCGTTTCTGGGAAGATGGACNTTGATNNAATTC
TTTGAAGACAAGGCTCANGTCCCAATGGTGTGCTGACTGCTGGTCCCAGTGGTTGCTGGATG
TGACTTGGCAGGAGTGGNAAGACACAAAACACTGCATTGTGTACAGCAAGGGGGTCACT
TTGTGTACTACTACGAAGGCATTCTGAGGTGAAGAGCTATGCCTTGGGGGATTTGACTCA
GCTCAGCTGCATCAGAGACTTACGAA
    
```

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_012082 unedited  
 ATGACCGCGCCGCTTTCTANGTCGAGTTTTTTTTTTTTTTTTTTTTCTCCAACAATCTGTT  
 TTTTTATTCCATCCATATACATGCATAGTAACAACATTTGTTGAGAAATTATTTCTATCA  
 GAAGTAGAACATTATCTTTGTGATCACCAGGTGCAGTATTGCTACTCTTATATTTAAATA  
 GATCTTATATATGAATTAATTCATACTTGCAGCATTGAGTTTAGGGTTTCGATTAGAC  
 TGTGCCTTTCAAAGATAAAAAGTAACTGATTAATACTACCTCATTACTTACAATACTGCTTCCA  
 GTAATTTTGTTCATTCTTTATAAAGTATTGCATTTAACAGCAAAGGTTTAAAAATTGAGA  
 CAGAGCTGCATCAGCGAAAGAAAATACAAGTACTATACAAGAAAAAATTGCCATCTTCA  
 TTTAACATACAGGTTCCAGGATTAAGAAAATGGACGGAAACATACAGCTACATACAAATGC  
 AAAGCCTAGTGACTAAGAGACTGTATCTGCTAAAATATAAAGTGCAAACAGAGCCTGATT  
 ATCCAAGAATTGAAATCTTAAGGCGAATTATAGCATGTGTATTTAGAACATCTTTGCAA  
 GTTATATTTTAGCATATACATATATCTGCAACAGCATATAAGATAAAAATTAAGATACACA  
 AGTGCTTTTGAAGCTATTTCTAAAATGCTTTTCTGTATTGGGACTATNCTCTTNTAAAGC  
 TACTATACAGTGCANACCATATGTGCTACACAATAACTATACCATAACATTACCAATGAC  
 TTTAANNATAAGTTTTAAATAAAAAATAACATAACCCAGCCTATGACTACTGCCGGTA  
 AAATAAATAACTTTTTGAAAAGGCACCAATATACACTTACTAATGGACTGTATGAAATA  
 CACCTTAGTCTCACCTAGCCTATGAATATCTCTGATGCCACAGTATTCAAAGCNTATTTT  
 TTTTCGGATGG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_012082

**Insert Size:**

5130 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\\_012082.2](#), [NP\\_036214.1](#)

**RefSeq Size:** 4507 bp

**RefSeq ORF:** 3456 bp

**Locus ID:** 23414

**UniProt ID:** [Q8WW38](#)

**Cytogenetics:** 8q23.1

**Domains:** zf-C2H2

**Protein Families:** Transcription Factors

**Gene Summary:** The zinc finger protein encoded by this gene is a widely expressed member of the FOG family of transcription factors. The family members modulate the activity of GATA family proteins, which are important regulators of hematopoiesis and cardiogenesis in mammals. It has been demonstrated that the protein can both activate and down-regulate expression of GATA-target genes, suggesting different modulation in different promoter contexts. A related mRNA suggests an alternatively spliced product but this information is not yet fully supported by the sequence. [provided by RefSeq, Jul 2008]