

## Product datasheet for RC214338

### FOG2 (ZFPM2) (NM\_012082) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | FOG2 (ZFPM2) (NM_012082) Human Tagged ORF Clone                             |
| Tag:                      | Myc-DDK   |
| Symbol:                   | FOG2  |
| Synonyms:                 | DIH3; FOG2; hFOG-2; SRXY9; ZC2HC11B; ZNF89B                                 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >RC214338 representing NM_012082<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCGCGAAAGCAAAGCAAACCCCGGCAGATCAAACGGCCGCTTGAAGATGCCATTGAAGATGAGG  
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CAGACGACTGGGATGGACCAGGAGAGCTGGAGGTGTTTCAGAAAGATGGGGAACGAAAAATTCAGAGTCCG  
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GGCCATCTCTGAGGGTGAAGAGCTAATTGCCTTTGTGGTGGATTTGACTCAAGGCTACAAGCTGCCAGT  
CAGATGACTCTCACAGAAGGGATGTACCCTGCACGCCTGCTGGACTCAATTCAGCTGCTTCTCAGCAAG  
CTGCCATGGCTTCTATTTGCCACAGCTATTGTCAATAAGGATATATCCCTTGCAAGTCTGTGGCAT  
CTGGTATCGGAGTGAGCGGAATCTGCAGGCCATTTGATGTACTACTGCAGTGGGAGGCAAGAGAAGCT  
GCTCCGGTGTGAGAGGAAAATGAAGACAGTGCCCATCAGATTTCCAGCCTGTGCCCTTCCACAGTGCA  
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ATTCTGCCCCCTGGTGTAGTCTAAAATGCACCGTCTGTAGCTACACTGCTGATTCCGTGATCAACTTT  
CACCAACACCTGTCTCCATCTCACTCAAGCTGCCTTCCGATGTAATCACTGCCATTTCCGCTTCCAGA  
CTCAGAGGGAGTTATTGCAGCACCAGGAGCTCCATGTCCCTAGCGGCAAACCTCCAGAGAAAGTGACAT  
GGAACACTCTCCAAGTGAACACTGAAGACAGCTTACAGCCAGCCACAGACTTATTGACCAGAAGCGAACTT  
CCCCAGAGCCAAAAGGCCATGCAGACTAAAGATGCGAGCTCTGACACAGAGCTGGACAAGTGTGAGAAAA  
AGACTCAGCTCTTCTCACGAACCAGAGACCAGAGATACAGCCTACAACAAATAAACAAGCTTTTCTTA  
CACAAAAATAAGTCTGAGCCCTAGCCCAAGACTTGCCTCATCTCCAGTTCAGCTAATATTGGCCT



TCTTCCCTGTGGGCCCTTTCCTATCTCAGTTTTCTTCCCCCAAGATATCACCATGGTCCCTCAAGCTT  
CAGAGATCTTAGCTAAGATGTCTGAAGTGGTGCATCGGCGACTGAGGCATGGCAGTAGTAGCTACCCTCC  
CGTCATTTACAGCCCTTTGATGCCCAAGGGGGCTACTTGTGTTGAGTGTAAACATAACATTCAATAATTTG  
GATAATTATCTAGTGCACAAAAAGCATTATTGCAGCAGCCGATGGCAGCAGATGGCTAAGTCCCAGAGT  
TCCCTAGTGTGCAGAAAAGATGCCTGAAGCTTTGAGTCCCAACACTGGCCAAACCTCCATAAACCTTCT  
CAACCCAGCTGCTCATTCTGCTGATCCTGAGAATCCACTTCTTCAAACATCTTGCATCAATTCTTCCACT  
GCTTAGATTTAATTGGGCCAAAATGGGAAGGGCCATGACAAGGACTTTTCCACTCAAACCTAAGAAGCTCT  
CCACCTCCAGTAAACAATGATGACAAAATTAATGGAAAACCTGTTGATGTGAAAAATCCCAGTGTCCCTT  
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GAAGAAAGATTCTGCCATTGTTGCCAAAAATCGAGGAATGGTAATAGTGAATGGTGGACTGAAACAA  
GATGAGAGACCTGCTGCCAACCCACAGCAAGAGAACATTTCCAGAATCCTCAGCACGAAGACGACCACA  
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AGAGGAACAGTTGTCTAGTATAGCAAAAAGGTGTGAATGGTTCAGCCAGGCTCCAACCAGTGGGAAATAT  
TGCCGGCTATGTGATATCCAGTTCAACAACCTTCAAACCTTATAACTCACAGAAGTTTTATTGCTCAT  
CACATGCAGCAGAACATGTCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC214338 representing NM\_012082  
Red=Cloning site Green=Tags(s)

MSRRKQSKPRQIKRPLEDAIEDEEECPSEETDIIISKGDFFLEESFSTFGPENLSCEEVEYFCNKGDDDE  
 GIQETAESDGDTSQSEKPGQPGVETDDWDGPGELVVFQKDGERRIQSRQQLPVGTTWGPFPKMDLNNNSL  
 KTKAQVPMVLTAGPKWLLDVTWQGVEDKNKNCIVYSKGGQLWCTTTKAISEGEELIAFVVDSDSRLQAAS  
 QMTLTEGMPARLLDSIQLLPQQAAMASILPTAIVNKDIFPCKSCGIWYRSERNLQAHLMYYCSGRQREA  
 APVSEENEDSAHQISSLCPPFPQCTKSFNSARALEMHLNSHSGVKMEFLPPGASLKCTVCSYTADSVINF  
 HQHLFSLHTQAAFRCNHCHFGFQTQRELLQHQLHVPVSGKLPRESMEHSPSATEDSLQPADLLTRSEL  
 PQSQKAMQTKDASSDTELKCEKKTQLFLTNQRPEIQPTTNKQSFYTKIKSEPSSPRLASSPVQPNIGP  
 SFPVGPFLSQFSFPQDITMVPQASEILAKMSELVHRRLRHGSSYPPIVYSPMPKGATCFECNITFNLL  
 DNYLVHKKHYCSSRWQMAKSPEFSPVSEKMPALSPNTGQTSINLLNPAAHSADPENPLLQTSKINSST  
 VLDLIGPNKGKHKDFSTQTKLSTSSNDDKINGKPVVKNPSVPLVDGESDPNKTTCACNITFSRHE  
 TYMVHKQYYCATRHPPLKRSASNKVPAMQRTMRTRKRRKMYEMCLPEQEQRPLVQQRFLDVANLNNPC  
 TSTQEPTEGLGECYHPRCDIFPGIVSKHLETSLTINKCVPVSKCDTTHSSVSCELEMDVPIDLKSKCLSQS  
 ERTTTSKRLLDYHECTVCKISFNKVENYLAHKQNFCPVTAHQNRDLGQLDGKVPNPESERNSPDVSYE  
 RSIKCKEKNGLKQSPNGNLFSSHLATLQGLKVFSEAAQLIATKEENRHLFLPQCLYPGAIKAKAGADQ  
 LSPYYGIKPSDYISGSLVIHNTDIEQSRNAENESPKGQASSNGCAALKKDSLPLLPKNRGMVIVNGGLKQ  
 DERPAANPQQENISQNPQHEDDHKSPSWISENPLAANENVSPGIPSAEEQLSSIAKGVNGSSQAPTSGKY  
 CRLCDIQFNLSNFITHKKFYCSSHAAEHVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg4090\\_a05.zip](https://cdn.origene.com/chromatograms/mg4090_a05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

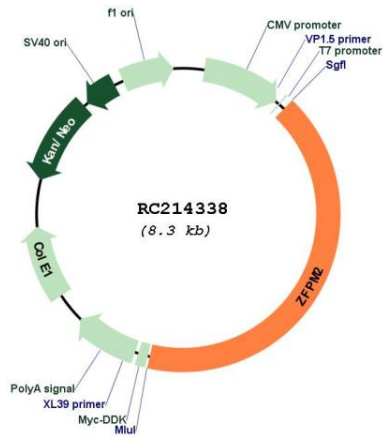


**ACCN:** NM\_012082

**ORF Size:** 3453 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_012082.4</a>   |
| <b>RefSeq Size:</b>           | 4507 bp   |
| <b>RefSeq ORF:</b>            | 3456 bp   |
| <b>Locus ID:</b>              | 23414   |
| <b>UniProt ID:</b>            | <a href="#">Q8WW38</a>  |
| <b>Cytogenetics:</b>          | 8q23.1  |
| <b>Domains:</b>               | zf-C2H2   |
| <b>Protein Families:</b>      | Transcription Factors   |
| <b>MW:</b>                    | 128 kDa   |
| <b>Gene Summary:</b>          | 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] |

Product images:



Circular map for RC214338