

## Product datasheet for **SC326849**

### FAM170A (NM\_001163991) Human Untagged Clone

#### Product data:

|                           |                                                                                            |
|---------------------------|--------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                        |
| Product Name:             | FAM170A (NM_001163991) Human Untagged Clone                                                |
| Tag:                      | Tag Free                                                                                   |
| Symbol:                   | FAM170A                                                                                    |
| Synonyms:                 | ZNFD                                                                                       |
| Mammalian Cell Selection: | Neomycin                                                                                   |
| Vector:                   | pCMV6-Entry (PS100001)                                                                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                                       |
| Fully Sequenced ORF:      | >SC326849 representing NM_001163991.<br>Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**  
 ATGAAACGACGACAAAAGAGGAAACATTTGAAAAATGAAGAGTCCCAGGAAACCGCTGAGAAGGGAGGA  
 GGAATCCAGAGAATACATCGAGACAGCCCCAGCCTCAATCACCCCTGGCCAGGTTGAGGAACGAGGA  
 GAGACTCTCCCGCTCACAAATGTCTCCTTGTCTCTATTTCATCCTATAAGACTTGTGTCTCTCT  
 CTGTGTGTAACAAAGAGGAAAGGGGCATGAAATATACTACATGCAGGTACAAATGAACAAAGGTGTG  
 GCTGTCTCCTGGGAGACAGAGGAACTTTGGAGTCCTTAGAAAAGCAGCCAAGGATGGAAGAAGTGACC  
 CTTTCTGAGGTTGTGAGGTAGTACTCCCCCTCTGATGTGTCCACCAGAAACCTCTGTCTGACAGT  
 GAGCCAGTGGGGAGGAGAAAGAGCATGAGGAAAGGACAGAATCAGACAGCCTGCCAGGCTCACCCACC  
 GTTGAGGACACACCCAGAGCCAAGACTCCTGACTGGCTGGTGACCATGGAGAACGGCTTCAGGTGCATG  
 GCCTGCTGCCGGGTGTTCAACCATGGAAGCCCTCCAGGAGCATGTGCAGTTTGGGATCAGAGAGGGC  
 TTCAGCTGCCACGTCTTTCATCTCAACATGGCTCAGCTGACAGGCAACATGGAATCAGAGAGCACCCAA  
 GATGAGCAGGAGGAGGAAATGGAATGAGAAGGAGGAGGAAGAGAAACCAGAAGCAAAGGAGGAGGAG  
 GGGCAGCCACAGAAGAAGACCTTGGCCTGAGGAGATCCTGGAGCCAATGTCCAGGCTGTGTGTTTCAT  
 TCTCAAAGGACAGGA**ACTGA**  
**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

|                    |              |
|--------------------|--------------|
| Restriction Sites: | SgfI-MluI    |
| ACCN:              | NM_001163991 |
| Insert Size:       | 849 bp       |


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|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | 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).                                                                                                                                                                          |
| <b>OTI Annotation:</b>        | 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.                                                                                                                                                                                                                                                      |
| <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>                | <u><a href="#">NM_001163991.1</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1244 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 849 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Locus ID:</b>              | 340069                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID:</b>            | <u><a href="#">A1A519</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 5q23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>MW:</b>                    | 32.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary:</b>          | <p>Acts as a nuclear transcription factor that positively regulates the expression of heat shock genes. Binds to heat shock promoter elements (HSE).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The resulting isoform (2) lacks an internal segment near the N-terminus, compared to isoform 1.</p>                                                                                                    |