

## Product datasheet for **SC306423**

### **PYHIN1 (NM\_152501) Human Untagged Clone**

#### **Product data:**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | PYHIN1 (NM_152501) Human Untagged Clone |
| Tag:                      | Tag Free                                |
| Symbol:                   | PYHIN1                                  |
| Synonyms:                 | IFIX                                    |
| Mammalian Cell Selection: | None                                    |
| Vector:                   | <u>pCMV6-XL5</u>                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                  |



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**Fully Sequenced ORF:**

>OriGene sequence for NM\_152501 edited  
 GCCAGCTAGTCAAGTGACTCTAAGAAGGCCATTTCCCTTGTGTCTTTGAAAATAC  
 TTCATTTTCTTAGCATTTTCAGGAGATTATAACATCCTGTATTTTCAGTTTCTGAGAGCTTT  
 ACTGACTGATTTCCCTATTCAAAACAATCCTCATTTCTACATTTCTGAAGATCTCAAGA  
 TCTGGACTACTGTTGAAGAAATCCCAGTAAGGCTCACTTATATCTTTAGAGATGGCAAA  
 TAACTACAAGAAATTTGTTCTACTGAAAGGATTAGAGGTCATCAATGATTATCATTITAG  
 AATTGTTAAGTCCTTACTGAGTAACGATTTAAACTTAATCCAAAATGAAAGAAGAGTA  
 TGACAAAATTCAGATTGCTGACTTGATGGAGGAAAAGTTCCAGGTGATGCCGTTTGGG  
 CAAACTAATAGAATTCTTCAAAGAAATACCAACTGGGAGACCTTGCTGAAACTCTTAA  
 AAGAGAAAAGTTAAAAGTTGCAATAAAATTGAATCCATTCCAGTCAAAGGAATAATCCC  
 ATCTAAAAGACGAAACAGAAAGAGTGTATCCTGCTACACCTGCATGCACCCCAAGCAA  
 CCGTCTCACAGCTAAAGGAGCAGAGGAGACTCTTGACCTCAGAAAAGAAAAAACCATC  
 TGAAGAAGAGACTGGAACCAAAAGGAGTAAGATGTCCAAAGAGCAGACTCGGCCTTCCTG  
 CTCTGCAGGAGCCAGCAGTCCACAGCCATGGGCCGTTCCCACTCCCAAGACCTCATC  
 ATCAGCTCCACCAACACTTCTCAACTGAGAGCTAAAACATTGGCCAACCGTCACGC  
 AACTGCCAGTAAAAATATTTTCCGAGAAGACCAATAATCGCGATGGTACTAAATGCAAC  
 AAAAGTATTTAAATATGAATCCTCAGAAAATGAGCAAAGAAGATGTTTCATGCTACAGT  
 GGCTACGCAGACACAGTTCTTTCATGTGAAGGTTTTAACATCAACTGAAGAGGAAATT  
 CATTAAAAGAGAATCATCATTATATCAAATTATTCAAACGTAATAGTCTCCTAGAGGT  
 GAATGAAGCCTCTTCTGTATCTGAAGCTGGTCTGACCAACGTTTGAGGTTCCAAGGA  
 CATCATCAGAAGAGCAAGAAAAATTCGAAGATCAATATTTCCAAACAAACTTCAGG  
 ATATATTGTATATGGATTATTTATGCTACATACGAAAATTGTAATAGGAAGACGACAAT  
 CTATGAAATTCAGGATAAAACAGGAAGTATGGCTGTAGTAGGAAAAGGAGAATGCCACAA  
 TATCCCTGTGAAAAAGGAGATAAGCTTCGACTCTTCTGCTTTGACTGAGAAAAGAGGGA  
 AAATATGTCAAACTGATGTGAGAAATGCATAGTTTCATCCAGATACAGAAAAATACAAA  
 CCAGAGAAGCCATGACTCCAGGAGCATGGCACTACCCAGGAACAGAGTCAGCATCCAAA  
 ACCTTCAGAGGCCAGCACAACCCTACCTGAAAGCCATCTCAAGACTCCTCAGATGCCACC  
 AACACCCCATCCAGCAGTTCTTCAACCAAGAAGGATGAAACCCACCCAGGAGCAGATC  
 ATCGCCTGCAAACTTTAGAATCACCTACCAACTGTGGCCCTCTCTTTCTTCTGACAC  
 TTCCACCAACCGCATCCAGCAGTTCTTAAATAAGGTACCAAGGACAAGGATATCAAA  
 TAACTACTGTTCAATCTTACTCAAGTGTGGAATTTTGCCTGAAG

**5' Read Nucleotide  
Sequence:**

>OriGene 5' read for NM\_152501 unedited  
 GCTCCATAGTAAACGACCTCCAACAGGGCGGCCGGAACCGACCCGGAACCGCCCGGAC  
 CCCCAGGATGCCAGCACCAGCCAAGCGACCCTAAGAAGGGCCATCCACCTCGTCGTCTT  
 TGAAAATACTACATATTTCTAGCATCTCAGGAGATTATAACATCCTGTATTTTCAGTCTCT  
 GAGAGCTTTACTGACTGATTTCCCTATTCAAAACAATCCTCATTTCTACATTTCTGAAG  
 ATCTCAAGATCTGGACTACTGTTGAAGAAATTCAGTAAGGCTCACTTATATCTTTAGA  
 GATGGCAATAACTACAAGAAAATTTGTTCTACTGAAAGGATTAGAGGTCAATGATTA  
 TCATTTTAGAATTGTTAAGTCCTTACTGAGTAACGATTTAAACTTAATCCAAAATGAA  
 AGAAGAGTATGACAAAATTCAGATTGCTGACTTGATGGAGGAAAAGTTCCAGGTGATGC  
 CGGTTTGGGCAAACTAATAGAATTTCTCAAAGAAATACCAACTGGGAGACCTTGCTGA  
 AACTCTTAAAAGAGAAAAGTTAAAAGTTGCAATAAAATTGAATCCATTCCAGTCAAAGG  
 AATAATCCCATCTAAAAGACGAAACAGAAAGAAGTGTATCCTGCTACACCTGCATGCAC  
 CCCCAGCAACCGTCTCAGACTAAAGGAGCAGAGGAGACTCTTGACCTCAGAAAAGAA  
 AAAACCATCTGAAGAACAGACTGGAACCAAAAGAGTAGATGTCCAAGAGCAGACTCGGCC  
 TTCTGCTCTGCAGAGCAGCAGTCCACAGCCATGGGCCGTTCCCACTCCACAGACCTC  
 ATCATCAGCTACCAACACTTCTCAGTGAGAAGCCCTAACCATTGCCAACGCGTCACGC  
 ACTGCCAGTAAAAATTTTTTCGAGAC

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_152501 unedited</p> <pre> CGCGATTGCACTTCAGGGCCGGAGAGGCACCTGGGGAGGGGTACAGGGATGCCACCCGG GATCTGTTTACAGGAAACAGCTATGACCGCGGCCGAATCTAGATGCATGCTCGAGCGGCCG CCAGTGTGATGGATATCTGCAGAATTCGCCCTTCTTCAGGCAAAATTTCCACACTTGAGT AAAGATTGAACAGTAGTTATTTGATATCCTTGTCTTGGTGACCTTATTTAAGGAAGTGC TGGATGGCGGTTGGTGAAGTGTGAGAAAGAGGAGGGGCCACAGTTGGTGAGGTGAT TCTAAAGTTTGCAGGCGATGACTGTCTCTGGGTGGGTTTCATCCTTCTTGGTGAAGGA ACTGCTGGATGGGTTGTTGGTGGCATCTGAGGAGTCTTGAGATGGCTTTCAGGTAGGGT TGTGCTGGCCTCTGAAGGTTTTGGATGCTGACTCTGTTCTGGGTAGTGCCATGCTCCT GGAGTCATGGCTTCTCTGGTTTGTATTTTCTGTATCTGGATGAACTATGCATTCTGA CATCAGTTTTGACATATTTCCCTCTTCTCAGTCGAAAGCAGAAGAGTCGAAGCTTATC TCCTTTTTACAGGGGATATTGTGGCATTCTCTTTTCTACTACAGCCATACTTCTGT TTTATCCTGAATTCATAGATTGCTGCTTCTCTATTTACAATTTTCGTATGTAGCATAAA TAATCCATATACAATATATCCTGAAGTTTGTGTTGTAAGAATATTGATCTTCGGAATTTT CTTTGCTCTTCTGATGATGTCCTTTGGACCTCAACGTTTGGTCAGACCAGCTTCAGATAC AGAGAGCTTCATTCACCTCTAGAGACTATTACGTTTGAATAATTTGATATAATGATGATT CCTCTTTT </pre> |
| <b>Restriction Sites:</b>           | Please inquire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ACCN:</b>                        | NM_152501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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>              | The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <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_152501.2</a></u> , <u><a href="#">NP_689714.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq Size:</b>                 | 1749 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq ORF:</b>                  | 1479 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Locus ID:</b>                    | 149628                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID:</b>                  | <u><a href="#">Q6K0P9</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cytogenetics:</b>                | 1q23.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

**Gene Summary:**

The protein encoded by this gene belongs to the HIN-200 family of interferon-inducible proteins that share a 200-amino acid signature motif at their C-termini. HIN200 proteins are primarily nuclear and are involved in transcriptional regulation of genes important for cell cycle control, differentiation, and apoptosis. Downregulation of this gene is associated with breast cancer. This protein acts as a tumor suppressor by promoting ubiquitination and subsequent degradation of MDM2, which leads to stabilization of p53/TP53. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Aug 2011]

Transcript Variant: This variant (1) encodes the longest isoform (alpha 1).